THEERANAIPUNYA
A Capacity Building Training Programme
Equipping the Fisherwomen Youth for the Future

CENTRAL MARINE FISHERIES RESEARCH INSTITUTE
(Indian Council of Agricultural Research)
Ernakulam North P.O, Post Box No. 1603, Ernakulam 682 018, Kerala, India
www.cmfri.org.in
Training Manual
on
THEERANAIPUNYA

A Capacity Building Training Programme
Equipping the Fisherwomen Youth for the Future

A CMFRI - SAF Initiative

THEERANAIPUNYA - A Capacity Building Training Programme - Equipping the Fisherwomen Youth for the Future

Editors:
Shyam S. Salim
Reeja Fernandez

Technical Assistance:
Anish Varghese
Irene Elizabeth Joy
Nimisha C.P.

Course Director:
Shyam S. Salim
Senior Scientist
SEETTD, CMFRI

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Dr. A. Gopalakrishnan
Director
Central Marine Fisheries Research Institute
Indian Council of Agricultural Research
Kochi – 682 018

Disclaimer:
Acknowledgements are due to the creative intellects and learned subject matter specialists. The manual is an informative tool to the target audience and is being sourced from available educational / technology under public domain on an "as-is, as-available" basis. Those materials neither solicit warranties or representations with respect to the accuracy or completeness nor bears liability with respect to that information.
Foreword

“A busy, vibrant, goal oriented woman is so much more attractive than a woman who waits around for a man to validate her existence”, the inspiring words from Mandy Hale points out the importance of the capacity building of the fisherwoman youth. Marine fisher folk are members of a low and disadvantaged caste belonging to the lowest economic strata in Indian society. The fisherwomen, in particular, have a very low status in the social hierarchy which leaves them worse off than their compatriots.

According to UNDP, it is said that investing in women capabilities and empowering them to exercise their choice is not only valuable itself but also the surest way to contribute to the economic growth and development. Given the poverty scenario, a number of poverty eradication measures have been initiated by the government for the welfare of the fisher community; due to lack of right skills the poor are unable to utilize the available benefits. I am sure that the training programme will help them to increase their capabilities and bring out the best in them.

The Central Marine Fisheries Research Institute, Kochi (CMFRI) is a reputed ICAR organization which deals with various issues pertaining to fisheries and fisher folk. CMFRI has wide experience in conducting customized training programme to the different stakeholder over the years in niche areas of fisheries research and development. The Socio –Economic Evaluation and technology transfer (SEETT) Division is essentially involved in research on socioeconomics which consists of both Fisheries Economics and Fisheries Extension.

I am happy that the SEETT Division has taken a lead in organizing the training programme funded by SAF with the aim of equipping the young generation of the fisher folk especially young girls in getting trained to new avenues in fisheries and other enterprise for a prospective career. I take this opportunity to congratulate Dr. Shyam S. Salim, Senior Scientist and Course Director and his entire team under the able leadership of Dr. R. Narayankumar, Head of Division, SEETTD for the meticulous planning of the training programme and in the preparation of the manual. I am sure that the manual will provide an insight into the different facets of personality development and will act as a reference material for the future.

07.04.2016
A. Gopalakrishnan
Cochin
Director, CMFRI
Foreword

Fisherwomen play significant role in all fisheries related activities, besides their routine household and community oriented responsibilities. Though they are essentially complementing the men for the sustenance of family and fisheries sector, their roles remain largely undermined and unacknowledged. It is worth noted that the administrators, policymakers and researchers have failed to accord the role of fisherwomen. Empowerment of fisherwomen is crucial to attain the socio-economic development of fisher folk. To achieve the comprehensive growth and gender equality in terms of opportunities, assets, empowerment is mandatory.

Society for Assistance to Fisherwomen (SAF) was formed on 1st June 2005 as an agency under Department of Fisheries, Government of Kerala with a view to ensure the empowerment of fisherwomen in the state of Kerala. Over a period of 10 years, the agency has made notable contributions in equipping the fisherwomen to attain economic self reliance. Thousands of fisher families in the state are earning a stable income through the alternate livelihood micro-enterprises established with the support and mentorship of SAF.

Along with the economic empowerment, recently, SAF is paying concerted efforts to improve the living standards and enhance the employability of fisherwomen youth. Theeranaipunya project is initiated in all the fisher dwelling districts as a major intervention envisioned with equipping the fisherwomen youth for the future.

In Ernakulam, Central Marine Fisheries Research Institute (CMFRI) had taken up the responsibility of implementing the Theeranaipunya and prepared this beautiful monograph compiling the contributions of eminent scholars. I am confident that the document of this nature is first of this kind and will find a place in human resource development programmes. Dr. Shyam S. Salim, Senior Scientist, CMFRI & Principal Investigator, SAF Funded Research Project and his team deserve special appreciation to make this initiative highly effective and fruitful.

07.04.2016
Cochin

C.R. Sathiavathy
Executive Director, SAF
Preface

Development of any nation, society or community in any field depends primarily on the indispensability and complementarily between the men and women. There is great saying that “Wherever you find a great man, you will find a great woman beside him”. It is high time that we bring women to the mainstream by increasing their capabilities and to articulate them in a way which is beneficial to the family and the society.

Women play an active role in day to day survival of the coastal fishing communities but unfortunately their contribution to the fisher sector remains unnoticed. Despite the slow but emerging recognition of their silent contribution, still face stumbling blocks in their path towards development. Even though new initiatives are planned and implemented for the holistic development of the fisher women, many studies pointed out that the women empowerment ratios are still lagging. Notwithstanding with the credit of improvement in the income and employment opportunities of young fisher women than their earlier generation, they can no longer meet the cost of their educational other basic needs owing to the high cost of living.

They bear the double burden of work for the market and for the household. In this juncture it is important for them to give additional support to bring them to the mainstream thereby they could be able to utilize the available resources and opportunities to stretch out their capabilities to the maximum. All these efforts will lead to equipping the young generation of the fisher folk especially young girls in getting trained to new avenues in fisheries and other enterprise for a prospective career.

It was under the above pretext and with the social commitment to the fisherwoman community CMFRI under the umbrella of SAF has planned to organize a capacity building training programme Theeranaipunya- Equipping the fisherwomen youth for the future. Thirty five young educated youth from Ernakulam district were provided training. The training includes two phases each lasting for a month. Phase I – Inferential training were 90 sessions of one and half duration was covered and Phase II- Experiential learning were 25 organizations were selected meeting their educational background to develop their entrepreneurial skills. The main theme areas covered under the training session was profiling, understanding and improving self, aptitude, motivation and personality development, communication and audio visual communication, management strategies, interpersonal relationship and fisheries enterprises and employment opportunities.

We are thankful to the Director, CMFRI who wholeheartedly facilitated the training programme. I extend my sincere thanks to the Head of the Division Dr. R. Narayankumar for the support extended during the training programme. The passion and support from the faculties was noticeable. The timely support from the colleagues in the division for the smooth functioning of the programme deserves special mention.

07.04.2016
Shyam S. Salim
Cochin
Course Director
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**List of Acronyms**

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<tr>
<td>ADAK</td>
<td>Agency for Development of Aquaculture, Kerala</td>
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<td>BARS</td>
<td>Behavioural Anchored rating scale</td>
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<td>BSBDA</td>
<td>Basic Savings Bank Deposit Account</td>
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<td>BSNL</td>
<td>Bharat Sanchar Nigam Limited</td>
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<td>CAD</td>
<td>Computer aided design</td>
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<td>CIF</td>
<td>Central Institute of Fisheries Technology</td>
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<td>CLV</td>
<td>Customer Lifetime Value</td>
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<td>CMFRI</td>
<td>Central Marine Fisheries Research Institute</td>
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<td>CPU</td>
<td>Central Processing Unit</td>
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<td>CRM</td>
<td>Customer Relationship Management</td>
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<td>CSR</td>
<td>Corporate Social Responsibility</td>
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<td>DPH</td>
<td>Days of Post Hatch</td>
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<td>DVPM</td>
<td>Department of Avian Production and Management</td>
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<td>EQ</td>
<td>Emotional Quotient</td>
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<td>FFDA</td>
<td>Fish Farmers Development Agency</td>
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<td>GI</td>
<td>Galvanized Iron</td>
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<td>GIGO</td>
<td>Garbage In Garbage Out</td>
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<td>HAB</td>
<td>Harmful Algal Bloom</td>
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<td>HACCP</td>
<td>Hazard Analysis Critical Control Point</td>
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<td>HDPE</td>
<td>High Density Poly Ethylene</td>
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<td>HTTP</td>
<td>Hypertext Transfer Protocol</td>
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<td>ICAR</td>
<td>Indian Council of Agriculture Research</td>
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<td>ICT</td>
<td>Information and Communications Technology</td>
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<td>IGMSY</td>
<td>Indira Gandhi Matritva Sahyog Yojana</td>
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<td>IISER</td>
<td>Indian Institute of Science Education and Research</td>
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<td>IMPS</td>
<td>Immediate Payment Service</td>
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<td>INSPIRE</td>
<td>Innovation in Science Pursuit for Inspired Research</td>
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<td>IQ</td>
<td>Intelligence Quotient</td>
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<td>ISP</td>
<td>Internet Service Provider</td>
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<td>LODOS</td>
<td>Low Dissolved Oxygen Syndrome</td>
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<td>MBO</td>
<td>Management By Objective</td>
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<td>MCTS</td>
<td>Mother and Child Tracking System</td>
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<td>MP</td>
<td>Moist Pellet</td>
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<td>MPIN</td>
<td>Mobile PIN</td>
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<tr>
<td>NGO</td>
<td>Non Governmental Organization</td>
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<td>NMEW</td>
<td>National Mission for Empowerment of Women</td>
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<td>NPCI</td>
<td>National Payment Corporation of India</td>
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<td>PMJY</td>
<td>Pradhan Mantri Jan - Dhan Yojana</td>
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<td>POSEC</td>
<td>Prioritizing by Organizing, Streamlining, Economizing and Contributing</td>
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<td>RAM</td>
<td>Random Access Memory</td>
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<td>Read Only Memory</td>
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<td>SAF</td>
<td>Society for Assistance to Fisherwomen</td>
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<tr>
<td>Abbreviation</td>
<td>Full Form</td>
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<tr>
<td>SHG</td>
<td>Self Help Groups</td>
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<tr>
<td>SMART</td>
<td>Specific, Measurable, Achievable, Realistic, and Timely</td>
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<td>STEP</td>
<td>Support to Training &amp; Employment Programme for Women</td>
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<tr>
<td>SWOT</td>
<td>Strengths, Weaknesses, Opportunities, and Threats</td>
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<tr>
<td>TL</td>
<td>Total Length</td>
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<tr>
<td>URL</td>
<td>Uniform Resource Locator</td>
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<tr>
<td>USP</td>
<td>Unique Sales Proposition</td>
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<tr>
<td>VDU</td>
<td>Visual Display Unit</td>
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<tr>
<td>WIFI</td>
<td>Wireless Signal</td>
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<td>WWW</td>
<td>World Wide Web</td>
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Profiling, Understanding And Improving Self
Education, vocational training and lifelong learning are central pillars of employability, employment of workers and sustainable enterprise development within the Decent Work Agenda, and thus contribute to achieving the Millennium Development Goals to reduce poverty. Skills development is the key in stimulating a sustainable development process and can make a contribution to facilitating the transition from the informal to the formal economy. Skills development is also essential to address the opportunities and challenges to meet new demands of changing economies and new technologies in the context of globalization. The principles and values of decent work provide guidance for the design and delivery of skills development and are an effective way of efficiently managing socially just transitions.

**Training and Skills**

The future prosperity of countries depends ultimately on the number of persons in employment and how productive they are at work. Nevertheless skills development need to be connected to broader growth, employment and development strategies and that requires that governments, working with the social partners, build policy coherence in linking education and skills development to today’s labour markets and to the technology, investment, trade and macroeconomic policies that generate future employment growth. Nevertheless, training and skills development can have multiple meanings as they include wide ranging elements.

- Basic education ensures each individual the development of their potential, laying the foundation for employability;
- Initial training provides core work skills and the underpinning knowledge, industry-based and professional competencies that facilitate the transition into the world of work;
- Lifelong learning ensures that individuals’ skills and competencies are maintained and improved as work, technology, and skill requirements change;
- Different countries focus on different elements, as they see relative strengths and weaknesses in their own skills development systems, and as they learn more about innovations and experience in other countries.

**Skills for Work and Adult Life**

Skills have a multiple meanings and many elements and might be categorized in the following way:
- Basic literacy, numeracy and ICT skills
- Core, key, generic, soft- ‘employability’ – skills – This may include communication, application of numbers, team working, problem solving, learning to learn etc.
- Higher order skills – for example: logic, reasoning, analysis, synthesis, statistics, etc.
- Specialist, vocational, technical, academic skills - technical knowledge including enterprise, business know-how, financial skills etc.
Attitudinal and behavioral skills – such as initiative, confidence, willingness, perseverance, determination etc.

Life skills - social, health, interpersonal skills.

Benefits

1. Enhances people’s capacities and creativity, opportunities, and satisfaction at work;
2. Empower people to develop their full capacities and seize employment and social opportunities;
3. Raise productivity of workers and of enterprises;
4. Contribute to boost future innovation and development;
5. Encourage domestic and foreign investment, thus job growth lowering unemployment and underemployment;
6. Lead to higher wages;
7. When broadly accessible, expand labour market opportunities and reduce inequalities between different groups of people

India has the world’s youngest work force with a median age way below that of China and European countries. Half the population of India was younger than 25 in 2010. It will change to half the population being under 28 in 2030, making India a very young country for the next 20 years.
Relevance

At one time or another we have all asked ourselves, “Why is this happening to me?” “Why do I keep having the same problems?” “Why am I so frustrated?” These difficult but important questions nudge us closer to a better understanding of ourselves and others. If they go unanswered, we become stuck in a cycle, continually repeating the past and forever on the defensive. Taking control of our lives requires that we find the answers. Thus it is essential to know oneself for being successful in both personal and professional life.

Key Concepts

- Ways by which you can enhance your self-knowledge to know yourself:
  - Be aware of your strengths, weaknesses, likes and dislikes
  - Observe and be aware of your moods, reactions and responses to what is happening around you
  - Become aware of how these moods and emotions affect your state of mind
  - Examine how you interact with others
  - Observe how your environment affects you

Introduction

The first step to gaining a good understanding of yourself is to identify your values and strengths. Your values reveal themselves when you feel strongly about certain things and your strengths are evinced in activities which you are naturally drawn towards, excel in and feel good about. To gain a better sense of self-awareness, examine and reflect on your thoughts and actions in the past, although don’t forget to observe your behaviour in the present. Some introspection and reflection will also help you decide if these notions are accurate.

Strategies to Know Oneself

Introspection—You can pay attention and take note of your own experiences, actions, and reactions. Your own observations are invaluable sources of information about who you are and what makes you tick. Paying attention to how you feel inside while you participate in a variety of activities can give you some insight into your own behavioural preferences.
  · Do you feel happier when working in a group, or alone?
  · Do you feel satisfaction when you accomplish a difficult task?
  · Is it easy or difficult for you to tell others what to do?

Your body language can also offer helpful clues. Paying attention to what is going on when you start to feel bored and tired — or lively and interested is an indicator. If your body is responding positively to the situation, it is likely there are elements there that agree with your personal preferences.
Observation - In addition to what you see in yourself, the observations of others can also be helpful. Sometimes others see behaviours in us that we don’t see, especially when we are too involved in activities to pay attention.

Feedback (giving and receiving) - Sharing observations with others is a responsibility and a privilege. This kind of information can be given in a helpful or a harmful way. Sharing an observation is an interpretation of reality. This is true whether you are observing your own behaviour or that of others. So, be kind - and real - to yourself and to others when sharing your observations.

Assessment Tools - Putting some structure around observations, inner thoughts, feedback and specific examples helps to make sense out of all this information. That’s where assessment tools come in. They are valuable instruments that you can use in your quest for self-knowledge.

How does knowing yourself help you to do better in life?

- The beauty of living consciously is that it increases the likelihood of creating the results you desire.
- Learning and developing your passions provide you with tools for tapping into your happiness.
- Learning what you hate can be just as powerful. The personalities and things that make your hair stand up on end hold lessons!
- Self-knowledge helps you figure out what you want to work on and what you are willing to let go.
- If you understand how you are most likely to react when you things don’t go well, you can then identify which thoughts and behaviours are serving you, and those that are not.
- You can then choose to learn better ways of managing conflict or improve communication skills.
- Really getting to know yourself, moves you to a place of self-acceptance and increased self-worth – acknowledging that we all have weaknesses and imperfections and that we can be totally ok about it. Or, we can change!
- The world is a better place when we take the best of ourselves and make it better. That’s what self-improvement is about.

Group Activity: Ice Breaking Session
To know yourself and your team mates

The trainees are assembled in the classroom; in most cases the trainees do not know each other. This activity facilitates in creating a friendly environment by ice breaking and can be a fun activity.

Make a list of pairs, depending on the number of trainees available. The examples for the pairs could be as follows:

1. Tom and Jerry
2. Antony and Cleopatra
3. Adam and Eve
4. Karuthamma & Parikutty
Now keep chits ready with the name of the pair written on them. Each trainee comes and picks up a chit, once the final trainee pics up his chit, the trainees start searching for their partner; say, the person who has got “Tom” searches for the person who has got “Jerry”. Once everyone has found their partner a time ranging from 15 to 20 minutes is given to the pairs to discuss about themselves with each other. Once the time is up, the partners are split and have to sit separately. One member of the pair is given a set of three questions to answer; the member writes down the answer and hands it over to the organiser. Now the partner of this member is called upon and asked the same questions, if his/her answer matches with his partner points are given. The questions to be asked could be simple ones, such as

- Favourite colour
- Favourite food
- Favourite picnic spot
- Boring subject at school

The entire process helps in breaking inhibitions in talking to strangers and helps in providing an outline to the trainees present.
An unexamined life is not worth living
Self-Appraisal and Need Assessment
Shyam S. Salim* and Reeja Fernandez
Senior Scientist, SEETTD, CMFRI
Email*: shyam.icar@gmail.com

Self-appraisals are crucial component of providing a complete picture of performance of individuals. To be effective and efficient, the training programs must start with self-appraisal and needs assessment. Long before actual training occurs, the organization must determine the: who, what, when, where, why and how of training. To do this, the training manager must analyze as much information as possible about the trainees. The need assessment and self-appraisal exercise brings out strong feelings of the trainees and can help to reduce the gap between the expectations of the trainees and what they actually get from training. It is very important to conduct performance appraisals. It is an opportunity for an honest assessment of how you are doing. If done properly, performance appraisals can be a valuable tool for improving the outcome of the training. Merely filling out a performance appraisal form is not enough. You need to collect information, set goals, and evaluate your own performance.

Steps for providing good self-appraisal:

- Share your accomplishments and success
- Describe your skills and abilities which you have achieved in past
- Share your challenges: Be candid about your challenges of the year
  Describe the steps you will take in the year ahead to address them
- Be honest. Don’t embellish your accomplishments. Think hard about how you choose your ratings for yourself
- Take the time needed to do justice with the self-appraisal
- Treat your self-appraisal like a work of art that builds over time

A successful performance appraisal process involves explaining jobs, communicating expectations, observing and documenting behavior and providing frequent informal feedback. Self-appraisal helps in understanding individual strengths and weaknesses, mutually understand the expectations for performance and determining the training needs of the trainees. A good training plan must be geared to help the trainees to fulfill their overall needs.

Six steps to completing a great self-appraisal

1. **Share your brilliant successes.** Look at previous feedback received, projects you’ve completed and initiatives you’ve launched — all excellent fodder. If you haven’t done so in the past, start keeping a performance journal. It will make your next self-appraisal that much easier to complete.

2. **Share what you’ve learned.** What have you learned in the past year? Look to identify the ways in which you’ve been able to enhance your skills; describe the new skills you’ve mastered and how they’ve helped you in your career development.
Describe how you’ve applied these new skills to your job and how they support the goals of your department and organization.

3. **Share your challenges.** This isn’t an annual opportunity for shameless self-promotion. It’s an opportunity for some humility. Be candid about your challenges in the year. Describe how you overcame them or the steps you will take in the year ahead to address them.

4. **Be honest.** Don’t embellish your accomplishments. Think hard about how you choose your ratings for yourself. Your manager will likely want you to support your ratings so be prepared to provide examples of your successes (why you deserve that high rating) and examples of your not-so-great performance (why you may deserve a weaker rating).

5. **Take time to do it well.** Your manager can tell if you rushed your self-appraisal. So take the time needed to do it justice (schedule time for it in your calendar!). After all, your self-appraisal is all about you, and you’re worth it! Use all the space/features provided in the form to tell your story.

6. **Don’t attempt to complete it in one go.** Treat your self-appraisal like a work of art that builds over time. You’ll be much happier with the end result if you give yourself time to reflect and carefully support your self-assessment. As I mention above, use examples to support your assertions, and please, please make sure that you spell- and grammar-check your documents. These are all signs of how seriously you take the process and its importance to you.

**Need Assessment**

Need analysis establishes relevance for training. Need assessment means identification and prioritization of training requirements. Training needs analysis is the diagnosis by the organization to know what the learning needs of its trainees are. It helps to work on the areas in which employees need skill development. The results of a needs assessment can then be used to plan instructional objectives, and the design and delivery of the training program. Training becomes something not simply given to the participants, but something in which they participate. The need assessment is done to check the current and desired job performance, they desired field of interest and where they needed to be in tomorrow and in future so that they may be provided on job training in their area of interest and educational profile, which will in turn improve their skills in the desired area and increase the quality of training.

A **needs assessment** is a systematic process for determining and addressing needs, or "gaps" between current conditions and desired conditions or "wants". The discrepancy between the current condition and wanted condition must be measured to appropriately identify the need. The need can be a desire to improve current performance or to correct a deficiency.
A needs assessment is a part of planning processes, often used for improvement in individuals, education/training, organizations, or communities. It can refine and improve a product such as training or service a client receives. It can be an effective tool to clarify problems and identify appropriate interventions or solutions. By clearly identifying the problem, finite resources can be directed towards developing and implementing a feasible and applicable solution. Gathering appropriate and sufficient data informs the process of developing an effective product that will address the group’s needs and wants. Needs assessments are only effective when they are ends-focused and provide concrete evidence that can be used to determine which of the possible means-to-the-ends are most effective and efficient for achieving the desired results.

Needs assessments can help improve the quality of policy or program decisions—thus leading to improvements in performance and the accomplishment of desired results. Improving results—that is, moving from current to desired performance—is typically a worthwhile and valuable effort. The results of a needs assessment will guide subsequent decisions—including the design, implementation, and evaluation of projects and programs that will lead to achieving desired results.

There are three perspectives on need in a needs assessment; perceived need, expressed need and relative need.

1. Perceived needs are defined by what people think about their needs, each standard changes with each respondent.
2. Expressed needs are defined by the number of people who have sought help and focuses on circumstances where feelings are translated into action. A major weakness of expressed needs assumes that all people with needs seek help.
3. Relative needs are concerned with equity and must consider differences in population and social pathology.

The self-appraisal and need assessment activity conducted in this training programme is given below.

**Self - Appraisal and Need Assessment**

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<tr>
<th>Sl.No</th>
<th>Name (IN BLOCK LETTERS)</th>
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**Personal Details:**

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<th>Education</th>
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Every child is an artist and challenge is to remain the same with growth

**Educational Qualifications:**

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<th>Sl.No</th>
<th>Name of the educational institution</th>
<th>Degree</th>
<th>Year</th>
<th>University</th>
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**Training Experience**

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<th>Sl.No</th>
<th>Name of the institution</th>
<th>Area</th>
<th>Year</th>
<th>Experience gained</th>
<th>Experience used</th>
<th>Remarks</th>
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**Work Experience**

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<th>Sl.No</th>
<th>Name of the Organization</th>
<th>Degree</th>
<th>Period of Work</th>
<th>Responsibilities</th>
<th>Current Status</th>
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**SELF-APPRAISAL**

**What is your aim and ambition in life?**

________________________________________________________________________________________________________________________________________

________________________________________________________________________________________________________________________________________

________________________________________________________________________________________________________________________________________

________________________________________________________________________________________________________________________________________

**Who is the person who has influenced the most in your life and How?**

________________________________________________________________________________________________________________________________________

________________________________________________________________________________________________________________________________________

________________________________________________________________________________________________________________________________________

________________________________________________________________________________________________________________________________________
Do you make self-evaluation for developing yourself? Yes / No
If Yes, How
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

What do you feel as the greatest achievement in your life?
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

The most cherished moment in your life?
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

How creative you are in doing things? Cite one example which comes to your mind
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Which aspect has given you the greatest satisfaction in life?
Family / Education / Finance / Friends / Spirituality / Others
________________________________________________________________________

What aspect has given you the least satisfaction in life?
Family / Education / Finance / Friends / Spirituality / Others
________________________________________________________________________

What were the most important challenges you faced in your life? Cite one incident which could be shared
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
Were you able to solve and if Yes, How could you face / solve the same?

How do you plan to overcome your difficulties- personal / social?

What are the goal you believe exists which still has to be achieved?

What are your goals for this year?

How do you plan to go further in fulfilling the goals?

Do you feel secure with your family / friends?

List out your major Strength / Weakness

Strength:___________________________________________________

__________________________________________________________

__________________________________________________________

__________________________________________________________

__________________________________________________________

__________________________________________________________
Weakness:

Do you agree that women need to work? If Yes Why?

Do you feel gender equality is possible in all area and is it necessary?

Do you feel that women are having enough security in the present society? If, not point out the reasons for it

Are you happy with the present level of women empowerment? Yes / No If No, your suggestions for improving women empowerment

List the most important qualities in you?

Are you willing to go for job?
What do you consider to be your work related strengths and weaknesses?

Strength: ________________________________________________________________
______________________________________________________________
______________________________________________________________
______________________________________________________________

Weakness: ________________________________________________________________
______________________________________________________________
______________________________________________________________
______________________________________________________________

Who is the biggest support for you opting for job?
______________________________________________________________
______________________________________________________________
______________________________________________________________
______________________________________________________________

Do you have written clear and well defined goals for your future job activities? State Yes or No, If Yes...
______________________________________________________________
______________________________________________________________
______________________________________________________________
______________________________________________________________

What is the biggest hindrance in your life?
______________________________________________________________
______________________________________________________________
______________________________________________________________
______________________________________________________________

With whom do share your feelings and How often?
______________________________________________________________
______________________________________________________________
______________________________________________________________
______________________________________________________________
Who will be the first person you will depend on when you are in a critical situation?

____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

What all factors influence you while taking a decision (personal / professional)?

____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

How confident are you to tackle a situation?

____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

Do you try to maintain good relationship and connect with people whom you have met during your professional / personal life?

Always / Sometimes /Never

Self appraisal is an important part of the performance appraisal process where the employee himself gives feedback or views regarding his performance. Self appraisal means to figure out what your strengths and weaknesses are, take an honest look at yourself.

Need Assessment

Which sectors are you interested as a part of building your career?

a. Fisheries  
b. Business  
c. Garments & Textiles  
d. Supermarkets  
e. Housekeeping  
f. Agriculture  
g. Catering  
h. Social Work  
i. Politics  
j. Self-Employment  
k. Research  
l. Others (specify)............................

Please indicate your current job level

a. Teacher  
b. Office staff  
c. Self employed  
d. Trainee / Student  
e. Entrepreneur  
f. Supervisor  
g. Home maker  
h. Others (specify)............................
What all factors influence you while selecting your job?
- Salary
- Designation
- Location
- Boss
- Reputed Firms
- Working Hours
- Others (specify)

Which type of training do you prefer most?
- Classroom
- Video
- Internet
- Practical Sessions
- Group Discussion

What type of employment do you prefer – Full time / Part time /
What type of work culture do you think is more effective – Individual / Team Work?

What are the factors that you need to develop in improving your job

Factors that are limiting your work
- Family
- Physical disabilities
- Location
- Colleagues
- Nature of work
- Boss & Co-worker relation

Have you ever faced any issues previously in your job?

Do you have previous work experience? Yes / No

Reason for quitting your previous job

Were you comfortable while working with your Superiors / peers?
Do you have a teambuilding spirit; if yes cite a good experience
__________________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________

Do you enjoy working as a team; if yes cite a memorable accomplishment
__________________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________

If you are given a duty by your superior, how will you accomplish it?
Individually / Seek Support / Share it with others / Pass on to others

Do you think future training and professional development is needed for your career
__________________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________

How often do you feel that training should be imparted to you during your career development for the future?
__________________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________

What do you feel is that prevent you from meeting or achieving your targets?
__________________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________

Would you like to provide any other details here?
__________________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________
What is the most preferred area/institution where you would like to have your job placement training for a month (in order of preference)

1. _____________________________________________________________

2. _____________________________________________________________

3. _____________________________________________________________

(Tourism / Co-operatives / Administration / Hospitality / Research / Textiles / Sales & Marketing / Customer care / Any Others _______
As a scientist with experience of working in India and abroad, and with no record of activism, I present a personal view on empowerment, focusing on Kerala as an example.

To me, female empowerment means the freedom to choose one’s path in life, such as is already available to men; and the chance to compete on equal terms against men for opportunities, without bias or prejudice. But with freedom comes responsibilities: freedom without responsibility would be neither desirable nor sustainable. Too often, discussions about female empowerment emphasize the rights of women and not so much the responsibilities.

**What does equality imply?**

We should bear in mind that diversity in human beings ensures that no two people will be equal. Specifically, there are biological reasons why men and women cannot be equal. Instead, let us emphasize equality for all before the law: female empowerment requires that the laws of the country enshrine, uphold and defend the equality of man and woman. But beyond this, for true equality to prevail, everyone must accept, and subscribe to, the concept of equal freedom and equal dignity for all.

Equality in formal educational levels does not necessarily translate into equality in the workplace. The best response to prejudice is quality of work. We have to strive for excellence, in all aspects of work. The corollary is that, if we are striving for equality, then we have to be prepared to work hard. There is no short cut to success. Moreover, reservation, or affirmative action cannot be a final solution, only a stepping stone towards equality. Individual excellence, coupled with collective action, can have a powerful effect. Furthermore, an informed, educated female population effectively doubles the size of the electorate, and can be a voice for change.

**How could empowerment work?**

If empowerment is the process of obtaining basic opportunities for marginalized people, directly or indirectly, and if the process is to be non-confrontational, then the non-marginalized have to be part of the process. Without dialogue, there is a risk that the two halves become adversaries, which would be detrimental to progress.
Example of Kerala

Since India attained independence, the literacy rate in Kerala has increased significantly, to more than 90% overall (in fact, technically, this allows the state to call itself 100% literate), and the difference between female and male literacy rates has decreased. Nevertheless, there is still a difference of some 6% between male and female literacy, so we should not be too complacent. Hand in hand with improved literacy, life expectancy in Kerala has also improved remarkably. In fact, Kerala became a subject of numerous studies as an anomalous case: high life expectancy and quality of life, even though the gross national product was low (see Figure 1). Some experts relate improved quality of life in Kerala, at least in part, to improved status of women: “Despite extreme poverty, public commitment to education and health as well as to improving the status of women has in general made the population of Kerala literate and long-lived.”(AmartyaSen, 1993).

Interestingly, the male-female trends are reversed when the statistics for higher education are considered. Women now dominate in graduate and post-graduate levels, taking 67% and 78% respectively in 2006-07. I had direct experience of this when speaking recently at another outreach event to a group of college students at Farook College (Kerala), where Habib Rehman (see Figure 2), a NANO member, is on the faculty. The students who turned up for the event were clearly dominated by women (see Figure 3), and I learned that in the Zoology Department there, women were over 80% in graduate classes, and 100% in MSc. I was told that the only reason for this was excellence: women scored high marks in their exams, thereby securing the seats available for higher studies.

But what do these successes mean for the quality of life in Kerala? Since Amartya Sen wrote about extreme poverty in Kerala, the state has been enjoying an economic boom, with the gross product of the state multiplying several fold. Has greater wealth improved quality of life? This is debatable: qualities of environment, and therefore quality of life, have gone down. Pollution of various kinds (plastic, noise, water quality, smog) has increased, traffic is worse. Carbon emission is higher, quality of food has decreased. Kerala has no food security.

There is a general assumption that female empowerment leads to better harmony with nature, and to a gentler, kinder world. Are Kerala women paying any attention to their environment? I return to the idea that an enlightened female population can be a powerful voice for change. It is not apparent that the women of Kerala are using their enlightened status to take better care of their land, their oceans or the air they breathe. Let us hope that the empowerment enjoyed by the women of Kerala will not stop at personal freedoms, but that they will step up soon to take their share of our collective responsibilities towards our environment.

Perhaps there are lessons here, both positive and negative, not just for Kerala, but for all of us. There is a clear need to get the people, not just the women, to think about their environment, especially in developing countries. It highlights the importance of outreach, such as envisaged in various NANO projects. Let us hope that NANO members will take their collective responsibility seriously, and be an instrument of change. And here I address not just the women, but all members of NANO. When it comes to stewardship of our planet Earth, men and women have to pull together.
Self-discovery or Self-awareness is one’s core personality strength that can help us manage our responsibilities, our careers, and our lives. When we have awareness about who we are, then it is easy to cultivate a healthy respect towards oneself. Self-awareness means understanding one’s thoughts, attitudes, feelings, approaches, behavior, values, and background and how they impact the success of the interaction and relationship, or how they may influence one’s work. God has created each person unique. There is not a single person in the universe, who is just the same as you. You have a unique genetic make-up, unique finger print, unique personality—the lists goes on.


“Respect yourself and others will respect you” said Confucius, the great Chinese philosopher.

When we lack self-awareness skills, we tend to make the same mistakes and encounter the same obstacles over and over again. But when we know where our unique strengths and limitations lie, we’re better equipped to face challenges, solve problems, choose our battles, make decisions, and predict the outcomes of those decisions.

**How Can Self-Awareness Support**

Successful career planning starts with a set of ambitious but realistic goals. And a strong sense of self-awareness can help us choose these goals and adjust them as we move forward. With clarity of self-awareness we gain a clearer picture of where we want to go and what tools we possess that can help us get there. We find the will to pursue opportunities that can help us, and the courage to say no to those that can hold us back.

**Case Study**

Joby Mathew is an international sportsperson and an arm wrestling champion. He has won international medals in not just arm wrestling but also in shot put, swimming, and badminton. Like any other sports person, he hits the gym every day and works out for nearly 1 to 2 hours on a daily basis to maintain his physical fitness. So then how Joby is different from any other sports person. Joby is only 3 feet and 5 inches tall. That makes him different and his achievements even more extraordinary. The ability to accept one and to believe in one’s capabilities can make a person soar great heights.
Could your self-awareness use a boost? Consider these tips

1. Recognize repeating patterns. Are the same kinds of disturbances and setbacks dogging you time and again throughout your career? It may be time to tune into your patterns and find out what they can teach you.
2. Once you recognize a repeating pattern, act. Don’t just become a victim of the next wave. Make a change, take a stand, take a risk, but do what you have to do to break the cycle.
3. Be prepared for a long and difficult road. People are creatures of habit, and since gaining self-awareness can mean breaking entrenched habits, the path to change may not be easy. But stay focused. Be patient and don’t give up.

Self - Empowerment

Empowerment is the belief that you have the ability to control the course of your life. People who don’t feel empowered may have low self-esteem, feel unmotivated to go after goals and stop working toward happiness in their lives. You can empower yourself through emotional and physical activities that get you more in touch with how you affect your environment.

Essential Self-Empowerment Guidelines for an Improved You:

1. Self-Acceptance: Accept yourself as you are right now, you can still make changes while embracing who you are.
2. Release: Negative emotions, self-defeating thoughts & limiting beliefs (I can’t achieve/ I don’t deserve...) & blockages (I’m not good enough) - Seek professional help from a counselor, Life-Coach or Therapist.
3. Laughter, Exercise, and Hobby: These are all empowering tools & help to get relaxation
4. Quiet the Mind: Meditation- helps quiet the mental chatter & promote peace
5. Forgive & Let Go of Blame/Anger: People do their best with the tools they have at the time
6. Gratitude: It is the key that unlocks positive energy in life and the alchemy that transforms issues/problems into blessings/gifts. Make it a habit to give gratitude every day e.g.: "I am grateful for waking up today in a warm place".
7. Goal Setting: Setting goals creates direction, pace and helps us achieve a manageable life in the direction we choose.
8. Personal Inventory: Learn to tune into yourself & cultivate the art of listening to yourself. What is your feelings/body/mind/intuition telling you? Instead of "why" ask "how". Pay attention to the answers that come up.
9. Take One Step at a Time: Move at a pace that is comfortable for you. Rome was not built in a day.
10. Self-Discipline: Follow up on your promises, including promises to yourself. Give everything you do a 100% including taking care of yourself. Set healthy boundaries, separating others’ issues from yours.
11. Choice: Behaviors have negative or positive consequences teaching us we have a choice.
12. Harmony: Take responsibility for what you can change & accept what is out of your control. Self-defeating behaviors like procrastination are a barrier to living a congruent life. What is past-due & creating anxiety within you? What are you
avoiding or not facing in your life? Acting when the time is right is being in harmony with your life.

You may also consider self-empowerment through hypnosis, which is a safe and effective method to help you reach your full potential. Hypnosis enters the subconscious mind - where our thoughts, emotions, and feelings reside - to help clear negative emotions and limiting beliefs that cannot be eradicated via the conscious mind.

**Activity Corner**

**What self-empowerment method works best for you?**

- Self-Acceptance
- Release
- Laughter/Exercise/Hobby
- Quiet the Mind
- Forgive and Let go of Blame/Anger
- Gratitude
- Goal Setting
- Personal Inventory
- Take One Step at a Time
- Self-Discipline
- Choice
- Harmony
The best time to plant a tree was 20 years ago. The second best time is now.
Self Esteem

Maja Jose
Assistant Director of Fisheries Training, Kadungalloor
Email: maja_jose@yahoo.co.in

Definition

Self-esteem is a feeling of having respect for oneself and his or her abilities. Self-esteem refers to the way we see and think about ourselves or in other words, it is feeling good about oneself, putting a high value on his or her worth. Synonyms of self-esteem include; self-worth, self-regard and self-respect. It is made up of all the experiences and interpersonal relationship we have in our life. Every one you have ever met has added to or taken away from how you see yourself.

Importance

It is very important because psychological health is not possible unless that person is fundamentally accepted, loved and respected by others and by oneself. Self-esteem allows people to face life with more confidence and optimism and to reach their goals easily. It makes people convinced that they deserve happiness. Positive self-esteem increases the capacity to treat other people with respect and improve relationships. Self-esteem allows creativity at workplace. Self-esteem is important to protect ourselves against mental distress and enable us to cope with difficult and stressful situations.

Levels of self esteem

There are two levels of self esteem
1. High self esteem
High self-esteem means good opinion about you.
2. Low self esteem
Low self-esteem means Bad opinion about you

Development of self esteem

Experiences in a person’s life are major source of self-esteem development. It develops through the entire lifecycle. In the early years of a child’s life, parents have a major role on self-esteem and can be considered as a main source of positive and negative experiences a child will have. Unconditional love from parents helps a child develop a stable sense of being cared for and respected. These feelings later effects of self-esteem as the child grow older. During school age achievements in academic or other activities will have a strong effect on their self-esteem. Friendship and social acceptance produces high self-esteem during this age, whereas rejection from peers and loneliness produces low self-esteem. Adolescents show an increase in self-esteem that continues to increase in young adulthood and middle age. A decrease is seen from middle to old age. This decrease may be due to change in health and socio economic status in old age. No differences have been found between males and females in their development of self-esteem.
Factors influencing self esteem

- Attitude of parents and family members towards the growing infant and child.
- Emotional bad experiences of the individual which is considered as a threat to self which affects stability.
- Status of the group to which a person belongs.
- The individual’s role and status in the group.

Effects of high self esteem

People with self-esteem possess the following characteristics

- They like to meet new people
- They don’t worry about how others will judge them
- They have the courage to express themselves
- They are nicer to be around
- They attract opportunities
- They have an ‘I can’ attitude
- Their ideas are met with interest because others want hear what they have to say
- Being ready to ask for help when needed
- Not being afraid to fail
- Daring to admit failures and ask for forgiveness

Effects of low self esteem

People with low self-esteem have following characteristics

- They don’t believe themselves
- They see themselves failing before they begin
- They cannot forgive themselves for their mistakes
- They believe that they can never be as good as others
- They are afraid to show their creativity
- Unsatisfied with their life
- They complain and criticize
- They worry about everything and do nothing
- They have I can’t attitude

Steps to develop high self esteem

- Forgive yourself for past mistakes
- Focus on your positive attributes
- Become a self-talker. Say ‘I can’
- Be yourself
- Avoid negative people and thoughts
- Face your fears and learn from failures
- Don’t worry about being perfect
- Stop comparing
- Practice your talents
- Become physically fit and have good hygiene.
Try to learn new things
Dress well
Put little faith in yourself. Think of your dream and imagine yourself reaching that.
Be patient with your progress
Count your blessings daily
Honour and appreciate yourself and others
Try to be independent
Eat balanced diet

Summary

High self-esteem values every positive experience in your life. It helps you to see the positive in every situation; to cope with difficult situations and to fully appreciate the good times. It has an important role in the mental and physical health of an individual. It is very essential to spare some time for self-evaluation and self-talk. When you do not take time for you, your self-esteem starts to drop. Sadly, many people do not notice their self-esteem declining until they experience some real difficulties. Think that you are unique. No one else is like you in the world. Always try to keep high level of self-esteem so that you can enjoy your life and achieve goals.
The concept of emotional intelligence has become a very hot topic of psychological research in recent years, especially in regards to how it affects today’s workforce. Businesses are essentially people, so anything that impacts the effectiveness of people’s minds also impacts the businesses they run or work for. In fact, many experts now believe that a person’s emotional intelligence quotient (EQ) may be more important than their IQ and is certainly a better predictor of success, quality of relationships, and overall happiness.

**Intrapersonal emotional intelligence**
What goes on inside of you as you experience day-to-day events?

**Self-awareness**- The ability to recognize and understand personal moods and emotions and drives, as well as their effect on others. Hallmarks of self-awareness include self-confidence, realistic self-assessment, and a self-deprecat ing sense of humour. Self-awareness depends on one's ability to monitor one's own emotion state and to correctly identify and name one's emotions.

**Self-regulation**- The ability to control or redirect disruptive impulses and moods, and the propensity to suspend judgment and to think before acting. Hallmarks include trustworthiness and integrity; comfort with ambiguity; and openness to change.

**Internal motivation**- A passion to work for internal reasons that go beyond money and status -which are external rewards, - such as an inner vision of what is important in life, a joy in doing something, curiosity in learning, a flow that comes with being immersed in an activity. A propensity to pursue goals with energy and persistence. Hallmarks include a strong drive to achieve, optimism even in the face of failure, and organizational commitment.

**Interpersonal emotional intelligence**
What goes on between you and others?

**Empathy**- The ability to understand the emotional makeup of other people. A skill in treating people according to their emotional reactions. Hallmarks include expertise in building and retaining talent, cross-cultural sensitivity, and service to clients and customers. (In an educational context, empathy is often thought to include, or lead to, sympathy, which implies concern, or care or a wish to soften negative emotions or experiences in others.) See also Mirror Neurons.

**Social skills**- Proficiency in managing relationships and building networks, and ability to find common ground and build rapport. Hallmarks of social skills include effectiveness in leading change, persuasiveness, and expertise building and leading teams.
Introduction

The Emotional Quotient looks at a person's emotional intelligence, which is the ability to sense, understand and effectively apply the power and acumen of emotions to facilitate higher levels of collaboration and productivity. The report was designed to provide insight into two broad areas: Intrapersonal and Interpersonal emotional intelligence.

Research shows that successful leaders and superior performers have well developed emotional intelligence skills. This makes it possible for them to work well with a wide variety of people and to respond effectively to the rapidly changing conditions in the business world. In fact, a person's (EQ) emotional intelligence may be a better predictor of success performance than intelligence (IQ).

There are many tests of emotional quotient, and most seem to show that women tend to have an edge over men when it comes to these basic skills for a happy and successful life. That edge may matter more than ever in the workplace, as more companies are starting to recognize the advantages of high EQ when it comes to positions like sales, teams, and leadership.

History

Although research into this concept had been performed since at least the 1800s, the terms "emotional quotient" and "emotional intelligence" did not become popular until the 1980s, when psychologists Peter Salovey of Yale and John Mayer of the University of New Hampshire began conducting research into it. The concept was further popularized by Daniel Goleman, another well-respected psychologist who wrote many books on the subject and has served as co-chair of The Consortium for Research on Emotional Intelligence in Organizations. Although these and many other psychology experts view emotional intelligence measurements as scientifically valuable studies of social behaviour and relationships, the science behind these measurements are often questioned.

Definitions

Emotional intelligence is defined as a set of skills or competencies, which provide human resource professionals, managers, and anyone in the world of work, with a comprehensive tool to define measure and develop emotional skills'. Emotional intelligence can also be defined as the capacity to recognize our own feelings and those of others for motivating ourselves and managing emotions well in our social interactions.

Emotional quotient consists of five important dimensions

1. Knowing one’s emotions.
2. Controlling one’s emotions.
3. Recognizing emotions in others (empathy).
4. Controlling emotions in others.
5. Improvement in emotional control.
Measurement

A person’s EQ can be measured using any of various assessments, including one developed by Salovey and Mayer. Some assessments use self-given responses, and others are based on peer-given responses. Although a single test might give some insight into a person’s personality and psychological make-up, discovering the true value of EQ and its relationship to and impact on a person’s life might take years and multiple studies.

Benefits of Emotional Intelligence

Measurements of people’s emotional intelligence quotients are used in many settings. The idea is very popular in the corporate world, where many businesses use EQ tests to help their employees determine and measure their emotional responses to various situations. Most such tests are administered with the idea that this factor can be modified or increased, but there is dispute about whether a person’s emotional intelligence is something he or she is born with or if it can be changed. Judicious applications of emotional intelligence can lead to the following results:
1. Understanding and enhancing emotional intelligence enhances management skills.
2. It can provide team effectiveness.
3. It assists managers to have flexible planning.
4. Emotional intelligence assists managers in motivating others.
5. Better decision-making comes from a balance between head and heart.
6. It can help a person achieve a whole range of career development factors such as leadership, decision-making, open communication, trusting relationship and customer loyalty.

Application

Studies have been done on possible ways that a high or low EQ might affect a person’s abilities to perform under pressure, resolve conflict, and cope with challenges. For example, someone who has a low EQ might lack self-confidence and be pessimistic, both of which might affect his or her performance when doing certain tasks. People who are not proponents of the concept believe that things such as confidence, self-esteem and attitude are simply a matter of personality, which cannot be measured or modified. Other studies have linked this measurement to communication skills and other social skills that people either lack or possess.

Practical Session

Emotional Intelligence: A training game for emotional awareness
My Colored Hat

Preparation: Make paper hats of different colours. There should be as many hats as there are participants. You can choose to have anywhere from four to six colours. So if you have chosen to have six colours and there are thirty participants. There will be five hats of the same colour in the stack of hats.
In this training game each colour is designated to represent a feeling. For instance, if you have decided to play with feelings, you can have white for peaceful/tranquil, blue...
for joyful, green for envy/jealousy, red for irritation/anger, purple for rich/plenteous, orange for creative.

Emotional Intelligence, Process of this training game: The participants have to be told the meaning of each colour. Then they pick up a hat of their choice and stand in a circle. Once each of the participants is wearing a hat, they are expected to describe their feeling.

If it is a positive feeling they express it and give themselves permission to enjoy it.

If it is a negative feeling, they acknowledge it, and decide to bag (bracket) it for the present. They also decide to pick it up after the sessions are over and do something positive to deal with it. The objective of this training game is to replace the negative feeling with a positive one.

Emotional Intelligence - Game 2 - My Emoticon: Project the following handout and ask participants to identify how they are feeling that day from the handout. Emoticons then let them pair-up with their partner and make their face to look like the emoticon that they have chosen.

![Character Faces](image)
Debrief

1. It is harder and more stressful to make a face resembling a negative emotion. It is easier, relaxing and much more fun to copy a happy face.
2. You usually feel the emotion that is expressed on your face.
3. You can control your emotions and so determine the manner in which you will spend your day - with ease or with stress, the choice is yours

Activity Corner - Lessons Learnt

1. What are the Intrapersonal and Interpersonal emotional intelligence
2. What are the benefits of Emotional Intelligence
3. Name the five important dimensions of Emotional quotient
The best and most beautiful things in the world must be felt with the heart.
Manners are something we use every day to make a good impression on others and to feel good about. Practicing good manners is important no matter where you are - at home, work, or with friends.

“You never get a second chance to make a first impression”

Respecting other people means you also respect their wishes. There lies something more in good manners rather than ‘please and thank you’. It makes the society alive. It creates respect, loyalty and gratitude in the society. It attributes to a good social structure. Good manners can be shown individual level social level or International level.

Being well-mannered at individual level means acknowledging people each time you meet them, remembering their names and something about them, expressing yourself in a thoughtful manner, and saying “please” and “thank you” every time it’s called for. Every culture and individual may have different rules or feelings about what is polite or is not polite these rules may differ from person to person or based on situation, but there is one rule of good that is always easy to follow - do unto others as you would have them do unto you!!

Table manners

- Sit properly (and straight) in your chair
- Talk about pleasant things
- Wait until everyone is seated before starting to eat
- Watch others, or ask, if you’re not sure how to eat something
- Ask someone to pass the food, rather than reach across the table
- Chew with your mouth closed
- Don’t talk with your mouth full
- Say "excuse me" or "I’m sorry" if you burp
- Say "no thank you" if you don't want a certain dish or are full
- Say "may I please be excused" before leaving the table

Telephone manners

- Choose a style that's comfortable for you and polite to others.
- If you answer someone else's phone or answer for someone who is not around, you should always offer to take a message.
- If the person who is calling asks you to help out instead and you don't feel comfortable or don't know the answer to their questions, it is always
polite to say, "I’m sorry I don’t know but I’d be happy to pass the message.

- Wait until someone has finished their phone conversation before talking to them.

Good Manners on conversation

- Look at the person or people you are talking to
- If you haven’t met before, introduce yourself and ask their name
- Use a person’s name when talking to them
- Ask questions when you don’t understand something
- Stick to the subject
- Say nice things about people and praise those who deserve it
- It’s fine to disagree, but disagree politely

Professional manners

- Many of the things you do to be polite in casual settings are just as polite in work situations
- Use your telephone manners, saying "please" and "excuse me", shaking hands and introducing yourself when meeting someone new
- Pay attention to people when they are talking
- Appear neat and clean

Manners at School

School is the place where a kid gets an opportunity to interact with the society for first time. When interacting with teachers, children should listen attentively, raise their hand before speaking during lessons, make eye contact, and be polite when talking. Kids should also treat their peers well by listening when they speak, respecting personal space and property, and covering their mouths when coughing. Respecting the classroom, a communal space intended to be enjoyed by everyone, is another way to practice good manners. Even when children are playing outside, they can still keep manners in mind. Encourage child to invite anyone who is playing alone to join her group’s game or activity.

Body Language

Standing or sitting up straight, appearing confident, looking people in the eye, and having a smile or pleasant expression gives people the impression that you are polite, confident and pleasant.
Scowling, crossing your arms, slouching, or staring off into the distance (even if these are just nervous habits) may make people think that you are angry, unapproachable, or disinterested. Putting forth a nice appearance doesn't mean you have to spend a lot of money on clothes or accessories.

**Social implications of good manners**

‘Manners makes a man’ is a true saying. By manners we mean proper and respectful behavior towards all with whom we come in contact. Good manners come naturally to a man who is bred-up in a cultured family. On the contrary, an ill-bred man has no manners. Good manners are, therefore, the sign that a certain person has been brought up on the right lines.

Good manners are very necessary for progress in life. They help someone to win the favor and confidence of others. They are a sure passport to success in life. An ill-mannered man, on the other hand, is disliked by everyone and has no chance of success in any walk of life he joins. Good manners endear us to others. A polite answer turns away anger and a kind word uttered in time saves a man from many troubles. It is politeness which succeeds while ability fails. Even a good action will lose its value if the person doing favor utters impolite words.

Good manners are learnt early in life. A child born in a cultured family will learn to be respectful to others because he will see his elders behaving gently. A child born in an uncultured family will be disrespectful because he sees his elders behaving badly towards others. A child will learn whatever he is taught. So a little carelessness on the part of the parents is likely to spoil him and it will be difficult to reform him afterwards.
A man should remember that when he is in company he should not go on talking all the time but let others have their say. It is bad manners to go on talking even if others do not feel interested in the talk. Again a man should be polite to strangers so that they might have a good opinion about the man. While travelling he should observe the rules of the road. He should be kind and courteous to old men and ladies. While boarding a bus or a train he should see that he does not push his way in but takes his turn. It is bad manners to break the queue or push oneself in without his turn.

Let us look to the convenience of others. 'Live and let others live' should be our motto.

Good manners show the best you have to offer and encourage others to be their best. Practicing these manners on a daily basis makes for a more pleasant life.

- Be thoughtful
- Be cheerful
- Be generous
- Be cooperative
- Be helpful
- Don't be bossy
- Don't put people down or say rude things
- Respect other's privacy

A man without manners is an outcaste in the society as he cannot toad the hearts of others. He may be a good person, a great warrior, an intellect but without manners he can hardly win the respect of others. He tends tot rejected even before he is heard, thus, making it impossible to overcome the first hurdle of establishing a rapport with the one he or she is trying to interact with.

**Conclusion**

The mode of observing such manners do change. The ways of being hospitable today are not the same as in our ancient days. But to be hospitable is yet a yardstick of one's culture and character. To tell lies, to behave like a turncoat, to take undue advantage of one's goodness have been bad and are bad even today. These are the parts or constituents of good manners. One cannot enumerate them. The norms of human behavior change in our fast changing social life, but the status of ‘good manners’ remains constant. Good manners are closely linked to moral values. Shakespeare’s line, “The baby beats the nurse and athwart goes all decorum” is a self aeons of human existence.
What is health? Does it is limited to physical level only? No, then what are the layers of our existence! It is

1. Body
2. Breath
3. Mind
4. Intellect
5. Memory
6. Ego
7. Self

**Body:** Body must be defuse free

**Breath:** Breath must be smooth and rhythmic

**Mind:** Stress free mind. Value of our mind is to vacillate between past and future; when it goes to past it may bring quality, regrets; sometimes may glorify also; when it goes to the future it brings anxiety. When this value continues toxins/stress gets accumulated in our body.

How we can bring our mind to the present. It cannot be controlled by mind itself: but only through our breath.

**Inhibition Free Intellect:** When we are listening a talk we may agree or disagree with him. But actually in that time we not listening to him properly; we are limiting our self into our own sphere of knowledge. Sit with open heart when agree or disagree then only we can grasp/learn new things.

**Trauma Free Memory:** Our memory must clean not trauma

**Ego:** Have expanded ego including the whole word as your then you can do selfless Service; Otherwise we may become timid, rigid and narrow minded.

**Self:** It is the positive energy. We are positive in nature; negativity is in the circumference only. We are in love, Joy and peace.

How we can get established in the self which is the positive energy. Do some pranayams, Yoga for our body; cultivate habit of practicing healthy diets; practicing breathing techniques and doing meditations regularly.

Food can be divided in to three types depending upon the nature of mind it creates.
1) Satvic
2. Rajasic
3. Thamasic
Satvic: More focused, calm peaceful mind includes sprouts, fresh food Vegetables and fruits etc.
Rajasic: Restless mind. Spicy food, fried food etc.
Thamasic: Dull inertia

Stale food; Food cook after 6 hours is stale.

One who take one time meal, he is Tyagi, two times is Yogi, three times is Rogi and more than three times is Bhogi

**Yoga- Sookshma Vyayamam**

Upper head sides, eyes-nose, ears, lips, teeth tongue practiced some Joint Rotation for loosing muscles by listening to body, breath and mind.

1. Neck
2. Shoulders
3. Elbow
4. Wrist
5. Fingers
6. Hip
7. Joint
8. Knee
9. Ankle
10. Feet

**Konasan** - Left side and then right side. Stretches the muscle of the sides

**KatiChakrasan** - Small spine twist

**Chest Expander** - Fourth shoulders

Then instructed Nadishothana Pranayama (alternate nostril breath) which calm done our nervous system and will give more energy.

**Conducted Panchakosha Meditation**

Which brings relaxation, refresh ourselves, Insisted them to cultivate the habit of practicing yoga, pranayams. Meditation daily for keeping them healthy, physically, mentally and spiritually and to keep then enthusiastic and initiative
Importance of personal hygiene

Good personal hygiene not only enhances our appearance, its importance is directly related to preventing infections, diseases, and keeps us free from unpleasant odours. Practicing proper hygiene is important to your mental health and helps you feel better about yourself. Most people don’t think twice about bathing, visiting their doctor or dentist for routine check-ups, handling unsanitary items, brushing their teeth, or washing their hands. They not only do these healthy habits for themselves, they do them to help keep those they care about healthy and safe.

Introduction

What is health and fitness?

- **Health** is defined as a state of complete mental, physical and social well-being; not merely the absence of illness or infirmity.
- **Fitness** is the ability to meet the demands of the environment.
- Regular exercise improves **health and fitness**
- **Physical fitness** is a general state of health and well-being and, more specifically, the ability to perform aspects of sports or occupations.

Key concept of personal hygiene

Personal hygiene includes different habits i.e., washing hands and brushing teeth which keep bacteria, viruses and fungal far away from our bodies. Moreover these habits will help us to protect our mental health and activity. Also good personal hygiene will help us to keep feeling good about ourselves. Since those who do not take care of their personal hygiene i.e., dirty clothes, body odor and bad breath will suffer from discrimination and this will mainly leads to mental problems. But the most important point in this subject, is that all people has their own hygiene but some people do it better than others, this will mainly depends on each person culture, society and family norm.

1. Food

- Prime necessity of life
- Food we eat gets digested
- Assimilated in the body
- Used for maintenance and growth
- Also provides energy for doing work
2. Constituents of food

- Water
- Carbohydrates
- Proteins
- Fats and Oils
- Minerals
- Vitamins

3. Life style diseases

- Hypertension- Blood Pressure
- Sugar - Diabetes
- Hyperlipidemia- cholesterol
- Obesity
- Cancer

4. Some Health Benefits of Regular Activity
Hygiene Maintenance

These are certain easy and day-to-day routines, which when incorporated, help to improve the state of one’s personal cleanliness.

1. Hair Hygiene

Be clean; be stylish, from top to toe. Often, while considering personal hygiene, the hair is neglected. However, many a time, the hair gets dirtier than the body. For this reason, attention must be given one’s crowning glory.

- Wash your hair at least twice a week, with a suitable shampoo. Never use soap, because Sodium bicarbonate, which soap is rich in, is horrible for the hair.
- Dry your hair after a wash. However, do not blow dry too often, as this kills the roots of the hair follicles.
- Oil the scalp once a week. Coconut oil is excellent nutrition for the hair.

2. Skin Hygiene

A person sweats throughout the day, however minimally. Also, in tropical countries, germs abound and these must be got rid of immediately.

- Soap and water are vital for keeping the skin clean. A good bath once or twice a day is recommended.
- Use an anti-bacterial soap and add drops of an antiseptic liquid to the water you bathe with.
- Dry yourself well. Avoid sharing towels.
- Use a moisturiser to keep the skin supple and well-oiled.

3. Oral Hygiene

Accumulation of food in the mouth can cause problems ranging from bad breath to dental caries. For removal of food particles and oral hygiene, certain steps are to be followed.

- Brush your teeth at least twice a day, but preferably after each meal to clear your teeth of any remains of food.
- Use a brush with zig-zag bristles, to reach every nook and corner of your teeth.
- Floss regularly, for inter-dental care.
- Use a tongue scraper to keep your tongue clean.
- Use a mouthwash whenever you go out.
Drink a lot of water to keep the mouth moist and to remove any foul odours.

4. Hand Hygiene

The commonest way we establish contact with things around us is by using our hands and that is why, one must take special care to keep them neat and clean.

- Wash your hands with soap after every meal. Wash thoroughly and in the gaps between your fingers.
- While handling food and cooking, avoid scratching or touching other parts of the body such as the eye, ears or the nose.

5. Feet Hygiene

The most neglected part of the body are the feet. Ways to keep your feet clean are as follows:

- Soak your feet in warm water and wash with soap.
- Scrub the heel of your foot with a pumice stone to keep it soft and to prevent it from cracking. Use an anti-cracking cream to heal the condition.
- Powder your feet before putting on socks to prevent perspiration and resultant smell.
- Give importance to the footwear you use, for a comfortable gait and a good posture.

6. Nail Hygiene

- Clean your nails by thoroughly removing dirt from them.
- Trim your nails often and preferably, keep them short.
- Do not keep your nails polished perpetually. It causes the keratin of the nails to split.

Also, it works wonders to pamper your hands and feet once a month with a manicure and pedicure.

7. Hygiene during your menstrual cycle:

A woman’s period is the dreaded time of the month for her. Periods make one feel uncomfortable. However, this is a natural process that cannot be avoided, but it can be dealt with to make it less of a problem.

- Change your sanitary towels frequently to avoid a feeling of discomfort.
It is essential to have a bath during your period. Do not avoid the shower during menstruation. There need not be any taboo on doing so.

Conclusion

- Create an Action Plan:
- Decide what you want (your goal)
- Visualize achieving this goal
- Write it down
- Include details
- Reread it often
- Reward yourself

“There is no easy way out. If there were, I would have bought it. And believe me, it would be one of my favorite things.” Oprah Winfrey
Take care of your body. It's the only place where you have to live.
Introduction

Health and habits are interrelated. Our older generations viewed nature and all living beings as the beads of the same manacle. From rising up early in the morning till the moment of sleep enraptures us at night we are entangled in various activities that goes hand in hand with nature. Our ancestors realized much earlier that the pros and cones of these deeds will reflect through our health.

Fishing is not only a livelihood option to many but also a lifestyle based on the traditional values of a group of people. This job includes hard work, risk, and uncertainty, unable to maintain proper food timing, stress occurring due to climate, odd timings; use of drugs, low financial status, limitation of living space, unhygienic toilet etc., which directly and indirectly affect the health of those involved herein.

Knowingly and unknowingly and due to certain pressure of the current scenario, we have diverted our lifestyle from that was earlier followed by our ancestors. Here we are trying to catch up or peep into the old and traditional ways followed earlier.

1. What is health?

"sama dosha sama agni scha sama dhatu mala kriyaaha|
Prasanna atma indriya manaha swastha iti abhidheeyate" – Sushruta Samhita

Meaning:
One is in perfect health when the Three Doshas (Vata, Pitta and Kapha) Digestive fire (digestion, assimilation and metabolism) all the body tissues & components (Dhatus) (the entire physical body) all the excretory functions (the physiological functions of urination and defecation) are in perfect order with a pleasantly disposed and contented mind, senses and spirit.

As defined by World Health Organization (WHO), "Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity." It is a resource for everyday life, not the objective of living. Health is a positive concept emphasizing social and personal resources, as well as physical capacities. A healthy society is a gathering of individuals and families living in different level. Air (Oxygen), food, water, clothes, habits, hygiene, exercise, shelter, rest and different other entities influences health.
• **Oxygen**

In pre-historic era, the level of oxygen in the atmosphere was 30-35%. For a healthy environment we need at least 20-22%. We can live without food and water for many days but it is impossible to live even a second without oxygen.

A healthy man having an approximate of 5 liter of blood should consist 95% – 100% oxygen and 30% – 38% should be iron content. We use only 30% - 35% of lungs for breathing. The level of oxygen is more in coastal area. Area where air pollution is more the level of oxygen is decreased to 15% - 20%. Taking deep breath is important to maintain the required level of oxygen in the body the absence of which can lead to many health issues.

• **Food**

Healthy and balanced nutrition is important for everyone. A healthy diet is the basis for a well-functioning body. Food is the source of energy for all of our bodily functions and directly affects how our bodies and minds function in every stage of life. There are a variety of reasons why a healthy diet is important, including disease prevention, maintenance of a healthy weight and quality of life. Food is also an important aspect for maintaining our health. Food is essential for our bodies to develop, replace and repair cells and tissues; produce energy to keep warm, move and work; carry out chemical processes such as the digestion of food; protect against, resist and fight infection and recover from sickness. A healthy and balanced diet provides foods in the right amounts and combinations that are safe and free from disease and harmful substances. Eat staple food with every meal. If possible eat sprouted legumes every day. Vegetables and fruit are an important part of a healthy and balanced meal. Fats, oils and sugar are good sources of energy. Drink plenty of clean and safe water. As the proverb says “If wealth is lost, nothing is lost. If health is lost, something is lost”

• **Types of Food:**

Basically there are 4 types of food, one is chewable food, second is swallowed, third is drinkable food and fourth is eaten by licking. Chewable food when chewed gets mixed with the 24 types of digestive enzymes present in saliva. The time when we hear the name of the food/see/smell/touch etc. our sense organs react and the impulses reaches the brain which in turn boosts up our digestive enzyme accordingly.

• **How to Cook:**

Pots, pans, and other tools used in cooking often do more than just hold the food. The trace elements of the cooking material that they are made from can leach into the food that is being cooked which can cause bad effects for our body. Non-enameled clay utensils are used even in our present time because this natural material, which “breathes”, has no analogue. The dish prepared in the clay utensils has a specific aroma and refined taste. A great feature of non-enameled ceramics is that clay does not come into reaction with food, does not contain toxic substances, and it is absolutely safe to prepare food in it, because while being heated it does not discharge substances that are bad for health.
Oily foods when cooked several times may contaminate the food and becomes unhealthy to be consumed. When highly unsaturated vegetable oils are heated at frying temperature (365 F) for extended periods--or even for half an hour--a highly toxic compound, HNE (4-hydroxy-trans-2-nonenal) forms in the oil thus LDL cholesterol, liver, arthritis, Parkinson, Cancer and many other problems occur. It is better to avoid red meat, but brown food is good for health. Always avoid the 4 whites-sugar, Maida, salt and white rice. The purpose of eliminating these white foods will help get you started in adopting a healthier way of eating.

- **When to eat:**

Morning never skip breakfast. The auspicious time to have breakfast is shortly after 07.00-08.00Am. because it directly related to sunrise and sunset. The morning intake is the most effective food for our body because we get all the required ingredients for our body development. We should consume food within 10-12 minutes. You will also want to make sure to eat at regular intervals, to help make sure your body has the fuel it needs to run all day. It is a good idea to drink water, juices, smoothies, teas, and the such. However, soda, cola, and all sorts of soft drinks should definitely be avoided since it contains chemicals, preservatives etc. Generally reduce the amount of unhealthy saturated and trans fats in your diet. These are found in foods like chips, margarine, oils and many boxed or frozen foods. Pure Coconut oil is relatively the healthiest, but still not good. Try to focus on eating foods which deliver lots of vital nutrients and minerals. You can try citrus fruits, dark greens like kale and spinach, grains like brown rice and quinoa, lean proteins like lentils and chickpeas. The best time for lunch is between 12.30 to 1.00 Pm and the best for dinner is 07.00-08.00Pm. Leaving dinner later than 08.30 pm can be a dieting disaster. People are less active in the evening, with low metabolic rate, so calories are not burned properly. The most important message is not to skip meals and not to have heavy dinner or leave dinner too late. Eating too close to bedtime increases your blood sugar and insulin, which makes it harder to sleep. Try adding a slice of lemon, lime, or orange to your water for a great taste; cucumber slices for an even crispier taste! 8 Oz. glasses of water are recommended for most adults, though some people need more and some people need less. However, unless your diet consists of crackers, you will get a lot of that water from foods. Drinking a lot at once will also be very ineffective for your body. Consume food as a medicine (i.e. ½ stomach rice, ¼ stomach water, ¼ stomach air). Chew the food items according to the number of teeth you have. Hardworking and people working under the sun, hot temperature should make it a routine to consume food which is enriched with water and slaine.

When it comes to digestion, sleeping on the left side may be preferable to the right side due to the simple matter of gravity. Specifically, lying on the left side allows food waste to easily move from the large intestine into the descending colon (meaning you’re more likely to have a bowel movement upon waking). Sleeping on the left side also allows the stomach and pancreas to hang naturally (our stomach lies on the left side of the body), which can keep the development of pancreatic enzymes and other digestive processes humming. Moreover Melatonin hormone produced in the brain helps in control your sleep and wake cycles. Natural levels of Melatonin in
the blood are highest at night. It is linked with how our body gets ready for sleep. Once it gets into the blood melatonin goes to all parts of the body.

- **How does food influence health and character:**

All creation, including food, is composed of three subtle qualities (gunas): elevating, activating, and darkening. In Sanskrit, these qualities are called **Sattvic**, **Rajasic** and **Tamasic**. When we eat or surround ourselves with one of these qualities, our consciousness is drawn in that direction.

Any type of food has 3 types of quality (**Sattwa** = Goodness, **Rajas** = Passion, **Tamas** = Darkness, inactive).

- **Sattvic**: Elevating
  Means balanced, harmony, purity, health and wellbeing. Sattwaguna is the positive quality, drawing us toward goodness, truth, purity and spirituality. Foods that are natural, calming, or cleansing are sattwic, which increase life, vitality, purity, strength, health, and joy. These include raw fruits and vegetables, nuts and seeds, as well as water, air and sunlight. They foster within us such qualities as expansiveness, intelligence, creativity, love, sympathy, calmness, patience, devotion and truthfulness.

- **Rajasic**: Activating
  Means activity, readiness, stress and anger. Rajoguna is the neutral quality—i.e, not necessarily either “good” or “bad.” It is, however, activating, creating constant activity and motion. Foods that are cooked, spiced, stimulating or gourmet tend to be rajasic, as does food that is excessively hot, bitter, sour, fatty or salty. Naturally rajasic foods include lamb, poultry, fish, whole grains, lightly cooked vegetables and fruits, onions, garlic, eggs, coffee, tobacco, refined sugar, soft drinks, fats, and oils. They lead us toward such "movement-oriented" qualities as ambition, curiosity, restlessness, impulsiveness, over-seriousness, or being demonstrative.

- **Tamasic**: Darkening
  Means lethargy, dullness, laziness. Inertia, ignorance. Foods that are overcooked, spoiled or unwholesome are tamasic. Tamasic foods include alcoholic beverages, moldy cheese, deep fried food, dried meats, very hot spicy foods, and foods that are over processed, chemicalized, canned or fermented. Tamasic foods lead us toward dullness, laziness, anger, negativity, covetousness, deceit, lust, and body consciousness.

Material foods impress the mind with certain good or bad qualities. And people's thoughts, actions, and health generally are determined by the foods they eat. We need to choose, those material foods which emit and lodge spiritual vibrations in man's mind and brain.” If we eat food with the right energy, it will affect our consciousness favorably.

One's diet should be confined to foods which are easily converted into energy. This means pure, natural foods that promote good health and optimum vitality. Even
fresh foods, however, have varying effects on our consciousness. We should follow a diet that promotes harmony rather than stimulation, one that keeps the nervous system calm and peaceful, and fills the body with energy, vitality and strength (i.e. a diet that includes foods with both Sattwic & Rajasic vibrations). We need to balance our need to fulfill worldly duties (Rajas) with the need to keep the breath calm for meditation (Sattwa).

We are all made up of different combinations of each Guna, but at certain times of your life, one Guna will be dominant. Harmonizing oneself with this fact can be profoundly empowering. No man is completely –ve/+ve. Man is a combination of the habits and mind of all living beings. Fear, anger, curiosity produces many changes in attitude, appearance, and other factors because of the adrenal glands situated just above your kidneys are absolutely vital to your wellbeing. They play a hugely important role in producing the hormones that we need, particularly during times of stress. When under stress, our brains send a signal to the adrenal glands which react instantly by releasing these stress hormones. Among other things, they slow down our digestion, increase our awareness and divert blood flow to important areas like our brain and muscles. These hormones when mixed with blood in sufficient quantity will produce a toxic resulting shivering, color change in the body, loosening temper, increasing heartbeat, fast breathing, sweating etc. When our cortisol levels (cortisol helps us meet life’s challenges by converting proteins into energy, releasing glycogen and counteracting inflammation) stay elevated, it interfere with many functions in our body, including immune function, digestion, sleep and even the ability to produce other essential hormones such as estrogen, progesterone, testosterone and thyroid hormones. This can lead to high blood pressure, high blood sugar, excess abdominal fat, and inflammation. In the meantime, our health is compromised, along with our moods, and even our sex drive.

- **Dress:**

The right clothes can make you feel better about yourself, even smarter, but the wrong clothes can in some cases make you feel pain and even make you sick. As season changes, our body’s metabolic processes also accordingly changes. Hence, it is necessary to know that what should we eat and wear during these seasons. In order to maintain our health we should wear clothes which are suitable for our climate. In summer, we should wear thin and loose cotton clothes. In winter, to bring warmth to our body we should wear warm woolen clothes like sweaters, shawls, blankets, caps, mufflers. All these clothes protect the body from cold and Hypothermia. Try to wear light color dress as white color reflects sunlight and dark colour absorbs more sunlight. Some Energy Points (Chakras) are situated in our spinal cord needs different colours present in the sunlight for its well performance hence to absorb max. Sunlight to our body it is good to wear white coloured dress are light coloured dress.

- **Habit:**

Good habits help to keep our body strong and healthy. Keeping a regular and consistent sleep schedule helps your body get into a natural rhythm. Go to sleep and wake up at the same time each day. By doing so you will begin to naturally fall asleep and wake up at the same time each day. Waking up will feel more natural. In
addition, it will help you fall asleep at a more regular schedule. A person who is interested in preserving the health and longevity should get up early in the morning in *Brahma-muhurt*. *Brahma muhurt* is the second last muhurta before sunrise, which is one hour thirty six minutes before sunrise. *Brahma* means knowledge. The time apt for perceiving knowledge is known as *Brahma muhurt*. When you wake up, roll to your right side and get out of bed because at a lower level of metabolic activity, if you suddenly roll to your left, you will put pressure on your cardiac system. Slowly wake up and sit and move your hand, legs and head to both sides. Take a deep breath and fill your lungs with air. Rub your hands together and place your palms upon your eyes. There is a heavy concentration of nerve endings in your hands. If you rub your palms together, all the nerve endings are activated and the system comes awake immediately. Stretch deeply to wake up your limbs. Your heart is not located half-way down, it is placed three-fourths of the way up because pumping blood up against gravity is more difficult than pumping it down, or parallel to earth. The blood vessels which go upward are a finer arrangement compared to those going down. As they go up into the brain, they are almost hair-like, to such a point that they cannot even take one extra drop. If one extra drop is pumped in, something will burst and you will have a hemorrhage. When the body is positioned horizontally, you can immediately make out that your pulse rate drops. The body makes this adjustment because if blood is pumped at the same level, too much will go into your head, causing damage. Now, if you place your head to the north and stay that way for 5 to 6 hours, the magnetic energy pull will cause pressure on your brain. If you are beyond a certain age and your blood vessels are weak, you could have hemorrhages and paralytic strokes. Or, if your system is sturdy and these things don’t happen to you, you could get up agitated because there is more circulation in the brain than there should be when you are sleeping.

After waking having water empty stomach is a good way to purify your internal system. Drinking water in the morning protects and hydrates our vital organs and makes them healthy and maintains their functioning. When you drink water first thing in the morning on a daily basis, you help balance your body’s lymph system. Lymph glands found in your lymph system fight infections helping you to perform your daily activities. They also balance the fluids in your body. Drinking water on an empty stomach helps in correcting bowel movement, which may prevent constipation, bad digestion and intestinal infections. Drinking water cleans your body, keeps your gut healthy, fight infections, keeps skin healthy. A few *Tulsi* leaves dropped in drinking water can purify and kill germs. Soak some Indian gooseberries in water overnight. In the morning, crush the fruits in the solution, strain the liquid and drink it. Follow this procedure on a regular basis to lose weight and reduce obesity.

Pranayama (Breathing) Exercise provides freedom from negative and harmful mental conditions like anger, depression, lasciviousness, greed for money, arrogance etc. It is better to avoid food containing fat, by people who are not involved in hard work and unmarried girls. Avoid taking antibiotics for pain relief. More intakes of ayurvedic medicinal plants are beneficial to get relief from many big diseases.
Cleanliness, Exercise, Rest

Cleanliness helps to prevent disease, and it also helps to give us a good appearance. Healthy living depends upon the practice of a few simple principles of health and hygiene rules. It has been rightly remarked that healthy body is the means of achieving the highest goal of life. Hence we cannot ignore the importance of personal cleanliness and personal hygiene in our life. It is a good practice to have an urge for excretion in the morning hours. Hands should be washed with soap in order to avoid any types of ailment, because germs may remain hidden beneath dirty nail. Routine washing hands before taking food or drink is necessary. Brush your teeth, after that scrape your tongue with a scrapper who is not sharp and gargle your mouth with plenty of water to remove debris of Streptococcus and bad taste in the mouth. Besides this, regular exercise, proper rest and sleep are also equally important for personal health- heart and lungs healthy. An ideal form of exercise will work all the muscles of the trunk, neck and limbs, and will cause full movements of all the joints in their different parts. Exercise provides an outlet for emotional tension and promotes self-confidence. Whereas, lack of exercise causes ill health in many ways. There may be loss of appetite and constipation. Similarly, sleep is an important as food. This is the only periodical rest of both the mind and the body. It restores energy after getting rid of fatigue. The amount of sleep varies with age, type of work and individual habits. In tropical countries eight to ten hours sleep is necessary. But, we should not sleep just after meals. It is better to walk for a few minutes especially after night meals. In fact personal hygiene deals with matters pertaining to the health of the individual who is himself responsible to preserve and improve the health of his body and mind. However, to live healthy every individual should be conscious of their personal health and physical changes.
Whatever knowledge you lost all these years was all yours...... search...... again
Aptitude, Motivation
And
Personality Development
Aptitude and Power of Sub - Conscious Mind
Vipinkumar V.P.
Principal Scientist, SEETTD, CMFRI
Email: vipincmfri@gmail.com

The major goal of the session is to highlight the significance of aptitude development among the trainees and the use of sub conscious mind as a powerful tool for self development.

**Key Concepts:** Aptitude, Skill, Talent, Attitude, Conscious and Sub-conscious mind, Visualization, Autosuggestion. An aptitude is a component of a competency to do a certain kind of work at a certain level, which can also be considered “talent”. Aptitudes may be physical or mental. Aptitude is developed knowledge, understanding, learned or acquired abilities (skills) or attitude. The innate nature of aptitude is in contrast to achievement, which represents knowledge or ability that is gained through learning. Often it is difficult to set apart an outstanding performance merely because of talent or simply because of hard training.

**Aptitude Tests**

Grouped according to the type of cognitive ability.

**Fluid Intelligence:** The ability to think and reason abstractly, effectively to solve problems and think strategically. It’s more commonly known as ‘street smarts’ or the ability to ‘quickly think on your feet’. An example of what employers can learn from your fluid intelligence is your suitability for the role for which you are applying.

**Crystallized Intelligence:** The ability to learn from past experiences and to apply this learning to work-related situations. Work situations include producing and analyzing written reports, comprehending work instructions, using numbers as a tool to make effective decisions, etc. Theory of multiple intelligences. Combined aptitude and knowledge tests: Tests that assess learned skills or knowledge are frequently called achievement tests.

**Relevance of subconscious mind**

It is an unequivocal proposition to proclaim that ‘with bad attitude we can never have a positive day, and with positive attitude, we can never have a bad day’. It essentially depends on the mind-set of a human being. There is distinct demarcation between the conscious and sub-conscious mind of a person. The conscious mind is the part of our mind that is responsible for logic and reasoning. It also controls all the actions that we do on intention while being conscious. For example, when a person decides to make any voluntary action like moving his hand or leg it is done by the conscious mind. So whenever we are aware of the thing we are doing, we can be confident that we are doing it by our conscious mind. The conscious mind is also known to be the gate keeper for the mind. In the mean time, the subconscious mind is the part of the mind responsible for all involuntary actions. Our breathing rate, heart beats and emotions are controlled by the subconscious mind. It would be
pertinent to have a look into the power of subconscious mind and explore its immense potential and possibilities as a character building tool.

All of us are born to lead successful lives but our conditioning actually leads us to failure. We are born to win but are conditioned to lose. Most often we hear statements like, that person is just lucky, he touches dirt and it turns to gold or, he is unlucky, no matter what he touches, it turns to dirt. This is not at all true. If we make a real practical analysis, it can be observed that the successful person is doing something right in each transaction and the person who fails is repeating the same mistake in each transaction. In the real sense, practice does not make perfect. Only perfect practice makes perfect. Practice makes permanent whatever we do repeatedly. Some people keep practicing their mistakes and they become perfect in those mistakes. So their mistakes become perfect and automatic. The real professionals make things look easy because they have mastered the fundamentals of whatever they do. Many people do good work with ulterior motives like promotions in mind. But the person to whom smart work becomes a habit quite deserves. Cultivating a habit is like plowing the field. It requires time. It has to grow from within. Habits actually generate other habits. Inspiration is what gets a person started, motivation is what keeps him on track and habit is what makes it automatic. The ability to show courage in the face of adversity; show self-restraint in the face of temptation; choose happiness in the face of hurt; show character in the face of despair; see opportunity in the face of obstacles. Strictly speaking, these traits are not coincidences; they are the result of constant and consistent training, both mental and physical. In the face of adversity, our behavior can only be the one we have practiced, regardless of whether it is positive or negative. When we practice negative traits such as hatred, dishonesty or cowardice in small events, hoping to handle the major ones in a positive way, the latter wouldn't happen because that is not what we have practiced. When we permit ourselves to tell a lie once, it is a lot easier to do it a second and a third time until it becomes a habit. Success lies in the philosophy of sustain and abstain. Sustain what needs to be done and abstain from what is detrimental until this becomes habitual. It is a reality that human beings are generally more emotional than rational. Honesty, integrity, probity and uprightness are the results of our belief system and practice. Anything we practice long enough becomes ingrained into our system and becomes a habit. A person who is honest most often gets caught the first time he tells a lie. Whereas a person who is dishonest most often gets caught the first time he tells the truth. Honesty and dishonesty to self and others both become habits. Our thinking pattern becomes habitual. We form habits and habits form character. Before we realize that we have got the habit, the habit has got us. We need to form the habit of thinking right. There is frequently used quotation in Behavioral sciences that, "Our thoughts lead to actions, actions lead to habits, and habits form character and our Character ultimately leads to our destiny".

It is a truth that most of our behavior is habitual. It comes automatically without thinking. The sum total of our habits is our character. If a person has positive habits, he is considered a person possessing positive character. Similarly a person with negative habits is a possessing a negative character. Habits are a lot stronger than logic and reasoning. Habits start by being too weak to be felt, and end up becoming too strong to get out of. Habits can be developed by default or determination. That is
the major essence of our parents’ advice in our early childhood, to cultivate good habits because habits determine our character.

How our Habits are cultivated?

Anything we do repeatedly becomes a habit. We learn by doing. By behaving courageously, we learn courage. By practicing honesty and fairness, we learn these traits. By practicing these traits, we master them. Similarly if we practice negative traits such as dishonesty, unjust behavior, or lack of discipline, that is what we become good at. Attitudes are the reflections of habits. They are behavioral patterns. They become a state of mind and dictate our responses. It is interesting to observe that most of our behavior comes as a result of conditioning—it is habitual. If we want to do anything well, it must become automatic. If we have to consciously think about doing the right thing, we will never be able to do it well. That means we must make it a habit. We are all being conditioned continuously by the environment and the media, and we start behaving like robots. It is our responsibility to condition ourselves in a positive manner. It can also be observed that, the trained classical musicians often practice the basics of sa ri ga ma and in martial arts even the black belts use to practice the block punch, the basics, because if they needed to use these skills, they should come automatically. Because good habits are hard to come by but easy to live with. Bad habits come easy but are hard to live with.

Conditioning of habits

Just think of the mighty elephant who can lift in excess of a ton of weight with just its trunk. How do the people condition the elephant to stay in one place with a weak rope and a stake? The elephant, when it is a baby, was tied to a strong chain and a strong tree. The baby was weak but the chain and tree were strong. The baby was not used to being tied. So it kept tugging and pulling the chain, but all were in vain. On a fine day, it realized that all the pulling and tugging will not help. It stopped and stood still. Then it was conditioned. When the baby elephant becomes the mighty giant elephant, he is tied with a weak rope and a small stake. The elephant could, with one tug, walk away free, but it goes nowhere, because it has been conditioned. Human beings are constantly being conditioned, consciously or unconsciously, by exposure to: the kind of organization we keep, the kind of literature we read; the kind of films and TV programs we watch; the kind of music we listen to; etc. Insanity is defined as doing the same thing over and over and expecting different results. If we keep doing what we have been doing, we will keep getting what we have got. The most difficult thing about changing a habit is unlearning what is not working and learning positive habits.

The effect of ‘GIGO’ principle

It is quite fascinating to look upon the computer phrase GIGO (garbage in, garbage out) Negativity in; negativity out. Positivity in, positivity out, Good in, Good out. Our input equals our output. Our subconscious mind does not discriminate. Whatever we choose to put into our subconscious mind it will accept and our behavior will reflect that accordingly. The television has a considerable impact on influencing our morals, thinking, and culture, for good or bad. TV, while bringing in substantial useful
information, has also made an outstanding contribution to degrading our tastes, corrupting our morals, and increasing juvenile delinquency. That is a pretty high price for so-called free speech or free television. Advertisers are good at conditioning their audience. Obviously, advertisements sell products, otherwise why would companies advertise? When we watch TV or listen to a radio advertisement, our conscious mind is not listening, but our subconscious is open and we receive whatever is being dumped in. We can never argue with the TV. When we watch the movies, we laugh and we cry. It is not because they put something in the seats. The emotional input has an immediate emotional output. When we change the input the output automatically changes.

The relevance of conscious and sub-conscious mind

Looking the true perspectives of the introductory remarks of this article on the conscious and sub-conscious mind, it was already revealed that, our conscious mind possesses the ability to think. It can accept or reject. But the subconscious mind only accepts, it makes no distinction regarding input. If we feed our mind with thoughts of fear, doubt, and hate, the auto-suggestions will activate and translate those things into reality. The subconscious mind is the data bank. Of the two, the subconscious mind is more powerful. The subconscious is like the automobile while the conscious is like the driver. The power is in the automobile but the control is with the driver. The subconscious mind can work for or against us. It is not rational. When we are not successful we need to reprogram the subconscious. The subconscious mind is like a garden; it doesn't care what you plant. It is neutral; it has no preferences. But if we sow good seeds and grow good plants, we will have a good garden; otherwise we will have a wild growth of weeds. Speaking a step further, even when we sow good seeds and grow good plants, weeds still grow and the weeding process must continue constantly. The human mind is also is exactly like this. The positive and negative thoughts can't occupy the mind simultaneously. Big companies spend millions of rupees for a 30 second advertisement, during a major event. Obviously, they do get results. We see an advertisement, for a particular brand of toothpaste or hair oil and we go to the supermarket and buy that brand. We don't want any tooth paste or hair oil or soft drink but only that brand. Why? Because, we are programmed and becoming liable to act accordingly. In order to succeed, it is inevitable that we need to get programmed in a positive way.

Getting programmed ourselves

We can think in terms of learning how to drive a car. There are four stages: The first stage is ‘unconscious incompetence stage’. This is a stage where we don’t know that we don’t know. The person doesn't know what it is to drive a car (unconscious) nor can he drive a car (incompetence). This is the stage of unconscious incompetence. The second stage is called ‘conscious incompetence stage’. This is the stage where the person grows and becomes conscious of what he is to drive a car but cannot drive one himself, so he is consciously incompetent. But then he starts learning and now comes a third stage which is called ‘conscious competence stage’. Now he can drive a car but has to think every time to do it. So with all the conscious thought and effort, the person is competent to drive a car. The fourth stage is called ‘unconscious competence stage.’ It comes when the person has practiced consciously driving the
car so much that he doesn't have to think. It becomes an automatic process. He can talk to people and wave to others while driving. That means he has reached the stage of unconscious competence. At this level, we don't need the concentration and thinking because the behavioral pattern has become automatic. This is the level that we want all our positive habits to reach. Unfortunately, we have some negative habits too which are at the unconscious competence stage and are detrimental to our progress. Some conspicuous international studies have shown that approximately 90% of all smokers became smokers by the age of 21. If a person has not become a smoker by the age of 21, then there is a very small chance that that person will ever become a smoker. This only proves that smoking is conditioned subconsciously and our conditioning starts at a young age.

**A vacuum gets abhorred by nature**

We have to realize the importance of keeping us involved in positive activities. Otherwise they would be attracted to the negative because nature abhors a vacuum. Either, we have a positive or we have a negative; there is no possibility of neutral or passive ground here. Character building becomes a habit. If we want to build a pleasing personality, we have to examine our habits closely. What begin as an occasional indulgence turns into a permanent flaw. We have to examine ourselves with the queries such as 'Do I let the quality of my work deteriorate?', ‘Do I indulge in gossip?, ‘Are ego and envy the constant companions of me?’ and ‘Is empathy in short supply?’ We are the creatures of habits. It is good that it is that way because if we have to constantly think before doing anything, we would never get anything done. There is just not enough time. We control our habits by exercising control and self discipline over our thoughts. It is high time that we need to harness the power of the subconscious mind. We need to cultivate the habits during childhood which build character in adulthood. Plant the right things early in life. But it is never too late to start. Every exposure to a positive or negative makes a difference. Learning new habits takes time but positive habits, once mastered, give new meaning to life. Optimism or pessimism is a habit. Habits are a matter of the pain and pleasure principle. We do things either to avoid pain or to gain pleasure. So long as the gain is more than the pain, we continue with the habit. But if the pain exceeds the gain, we drop it. For example, when the doctor tells the smoker to stop, he replies "I can't! It is a habit and I enjoy it!" and he goes on smoking. Here the pleasure is greater than the pain. Until one day, he is faced with a major medical problem, and the doctor says "You better stop smoking immediately if you want to live" and he stops. Here the pain is greater than the pleasure.

**Why we impose resistance to change**

Even when people recognize or become aware of their negative habits, most probably they don’t change. This is essentially because they refuse to accept responsibility. Besides, the pleasure of continuing is greater than the pain. They may lack the desire to change, discipline to change, the belief that they can change and the awareness for the need to change. All these factors prevent us from getting rid of our negative habits. We all have choices. We can ignore negative behavior and hope it will go away-the ostrich approach-or face up to it and overcome it for life. Behavior modification comes from overcoming irrational fears and getting out of the comfort
zone. Remember, fear is a learned behavior and can be unlearned. These excuses are generally the most common explanations for not changing negative habits such as: ‘I have always done it that way’, ‘I have never done it that way’, ‘that is not my job,’ ‘I don't think it will make any difference’ and ‘I'm too busy.’

**Positive habit formation**

The paradigm shift for a change is imperative right now. It is never too late to change. Regardless of our age or how old the habit has been, this can be done by awareness and using techniques that modify our behavior. Often we hear that, we can't teach an old dog new trick. We are human beings, not dogs. Neither are we performing tricks. It is possible that we can unlearn self-destructive behavior and learn positive behavior. The secret of successful people is that they form the habit of doing things that failures don't like to do and won't do. When we think about the things that failures don't like to do, it can be realized that, they are the same things that successful people don't like to do but they do them anyway. For example, failures don't like discipline, hard work, or keeping commitments. Successful people also dislike discipline, hard work (an athlete doesn't like and want the discipline to get up and train every day but he does it regardless), but they do it anyway because they have formed the habit of doing things that failures don't like to do. All habits start small but end up eventually being very difficult to break. Attitudes are habits and can be changed. It is a question of breaking and replacing old negative habits with new and positive ones. It is easier to prevent bad habits than to overcome them. Good habits come from overcoming temptation. Happiness and unhappiness are habits. Excellence is the result of repeated conscious effort until it becomes a habit. It needs sufficient practice to become a habit. We all have some negative habits that are pulling us down. We have to analyze ourselves by sparing some time alone keeping the mind undisturbed to make a list of all the negative habits those are pulling us down.

**Forming positive habits and Auto-Suggestions**

The most significant part of this article to understand the relevance of what an auto-suggestion is. An auto-suggestion in simple terms is a statement made in the present tense, of the kind of person we want to be. Auto-suggestions are like writing a commercial to ourselves about ourselves for ourselves. They influence both your conscious and subconscious mind which in turn influences attitude and behavior. Auto-suggestions are a way to program our subconscious mind. They can be either positive or negative. Examples of negative auto-suggestions are: ‘I have a poor memory’, ‘I get angry easily’, ‘I am tired’, ‘I'm not an athlete’ ‘I'm not good at Maths’ etc. When we repeat to ourselves a negative auto-suggestion, our subconscious mind believes it and it becomes a self-fulfilling prophecy and starts reflecting in our behavior. For example, when I am talking to someone and I forget what I had to say, I tell the other person, "See, I forgot what I wanted to say. I have such a poor memory."

Auto-suggestion is a powerful self-help technique. Long before affirmations and the ‘Law of Attraction’ became common talk; auto-suggestion was used for many purposes, either consciously or unconsciously. The subconscious mind receives all kinds of information from the conscious mind. These bits of information come
through our five senses and are related to how we see and perceive the world around us. When these experiences are repeated continuously, they sink into the subconscious mind and become an intrinsic part of who we are, what we believe and how we behave. We can condition our subconscious mind to hold certain beliefs that enhance our living experience; thus, through repetition, they become the reality we experience on a regular basis. The auto-suggestion technique when learned and applied correctly has the power to influence the subconscious mind according to our instructions. In other words, auto-suggestion helps the subconscious mind believe a specific affirmation with an intended goal. An interesting fact is that auto-suggestion goes one step beyond positive affirmations. This is because affirmations are broader in structure while the auto-suggestion technique bypasses our thinking mind and awareness of our material body and goes to affirm our unique human spirit identified with the words: 'I AM.' This fact alone makes it a more powerful statement directed precisely to the subconscious mind.

Here is an example for comparison. The first statement is a positive affirmation; the second is an auto-suggestion: "I enjoy happiness and wealth" and "I AM happy and wealthy". By reading both statements out loud, we can feel the difference while stating out loud "I AM". Use of "I AM" to state our suggestion in the present moment and in the first person. There is something intrinsic and very powerful in those two words. It centers us right at that precise moment. As stated above, one simple example of this is "I AM happy". When this self-affirmation is stated on a regular basis, it becomes an auto-suggestion which eventually sinks into the subconscious mind where it will be taken at face value. Moreover, this practice will help us to focus on happy moments on a more regular basis versus the sad, anxious driven or depressed moments we may be encountering in our life.

An interesting thing to notice is that those sad, anxious moments don’t just disappear; however, our subconscious mind is being trained to focus on “happy” moments instead; thus, bringing more of those experiences to our life. People, who come into contact with crime the first time, hate it. With constant exposure, they get used to it and if the exposure is long enough, they may embrace it. And they become creators of their own misfortune. When a person repeats a belief long enough, it sinks into the subconscious and becomes reality. A lie repeated long enough becomes accepted as the truth. Positive auto-suggestions are being widely used in the field of sports and medicine. Why do we make positive statements? Because we want to create a picture in our minds of what we want to have rather than what we don’t. Any picture that we hold in our mind becomes reality. Auto-suggestions are a process of repetition. A person who repeats a statement long enough lets it sink into the subconscious mind. For example, I am relaxed. I am cool, calm and collected. Auto-suggestions should not be practiced in a negative way 'I am not' tense, I won't be angry etc. Positive statements are made because we think in pictures and not in words. If we say ourselves "don't think of a red elephant," the first picture that comes to our mind is that of a red elephant. If we think of "mother," the thing appearing in our mind is a picture of our mother. We never start spelling m-o-t-h-e-r. That means, when a negative word comes in the auto-suggestion, it forms a negative picture which we want to avoid. There is also a necessity to put it in the present tense. Because, our mind can never tell the difference between a real experience and an imagined one. For example, when the parents are expecting their child to come home at 9 p.m. but the kid is not at home by 1 a.m. then what is going through the parents'
Success is determined not by altitude but my attitude and aptitude

mind? They are probably hoping everything’s okay. "I hope the kid didn't get into an accident." But it is definite that, their blood pressure level goes up! This is an imagined experience. The reality could be that the kid might be having fun at a party, and is irresponsible, and did not get home when he was supposed to. Let’s look into the reverse scenario. Suppose the kid was very responsible and was actually coming home at 9 p.m. but got into an accident and still didn't get home at 1 a.m. then also the parents' blood pressure naturally goes up! The first scenario was an imagined experience. The second one was a real experience but the body's response in both cases was identical. Our subconscious mind cannot distinctly differentiate between a real and an imagined experience.

Tuning up the subconscious mind with auto-suggestions

It is quite necessary to think how we can use auto-suggestions to eliminate negative habits and develop positive ones. We have all used auto-suggestions unconsciously. For example, when we have to catch an early morning flight, we automatically tell ourselves that we have got to get up. And invariably, we do (sometimes, even without an alarm clock). A prepared subconscious mind has hunches and gut feelings. Auto-suggestion is a way to program and condition our mind to make a statement into a self-fulfilling prophecy. Auto-suggestion is a repetitive process through which we feed our subconscious with positive statements which translate into reality. Repetition alone is not enough, unless it is accompanied by emotions and feelings. Auto-suggestions without visualization will not produce results. The first time, when our mind receives auto-suggestion, it rejects it. Because it is an alien thought, contrary to our belief system. Success would depend on our ability to concentrate and repeat the process.

Practical Session

The practical session was focusing attention on systematic Steps to follow on auto-suggestions

The first requisite to follow an auto-suggestion is going to a spot where we won’t be disturbed and writing down peacefully our suggestions. The self-discipline to finish what one starts is imperative. Auto-suggestion is a powerful character building tool. Translating auto-suggestion into reality requires the following steps:

1. Making a list of our auto-suggestions in the present tense.
2. Repeating auto-suggestions at least twice a day: first thing in the morning and at the end of the day. This is because in the morning, the mind is fresh and receptive and at night you deposit the positive picture into your subconscious overnight.
3. Repeating it consecutively for 21 days until it becomes a habit.

Auto-suggestions alone will not work. They need visualization. Let’s come to final paradigm of visualization.

The Significance of Visualization

Visualization is the process of creating and seeing a mental picture of the kind of thing we want to have or do, or the kind of person we want to be. Visualization goes hand in hand with auto-suggestion. Auto-suggestion without visualization is mechanical repetition and will be ineffective. In order to see results, auto-suggestion
must be accompanied by feelings and emotions (visualization). The important caution regarding the auto-suggestion is that it may not be acceptable to the mind the first time you do it because it is an alien thought. For example, if for the past few decades I have believed that I have a poor memory and now all of a sudden, I tell myself, "I have a good memory!", my mind will throw it out, saying, "You are a liar! You have a bad memory!" Because that is what it has believed up to this point. Behavioral experts through experiences and observations proclaim that it will take 21 days to dispel this notion. Because it takes a minimum of 21 days of conscious, consecutive practice to formulate a habit. The big question which may arise here is: Is 21 days of conscious effort a heavy price to pay to change a lifetime for the better? It all sounds simple but it is not easy.

Immense examples have been observed in many case studies, how auto-suggestions and the subconscious mind have been utilized to the fullest potential as a powerful character building tool. It is never too late or better late than never for a positive change by realizing the power of subconscious mind and auto-suggestions.
Success is determined not by altitude but my attitude and aptitude
"All of the incredible business successes that have ever existed first existed in the minds of those who created them." - Unknown.

How to Get Motivated

Motivation is literally the desire to do things. It's the difference between waking up before dawn to pound the pavement and lazing around the house all day. It's the crucial element in setting and attaining goals—and research shows you can influence your own levels of motivation and self-control. So figure out what you want, power through the pain period, and start being who you want to be.

Self-Motivation

Ability to do what needs to be done, without influence from other people or situations. People with self-motivation can find a reason and strength to complete a task, even when challenging, without giving up or needing another to encourage them.

i) Intrinsic Motivation

Stimulation that drives an individual to adopt or change a behavior for his or her own internal satisfaction or fulfillment. Intrinsic motivation is usually self-applied, and springs from a direct relationship between the individual and the situation

ii) Extrinsic Motivation

Drive to action that (as opposed to intrinsic motivation) springs from outside influences instead of from one's own feelings

How to Maintain Motivation

Motivation determines what and how you do things.

Many times, having a clear purpose in mind and keeping an open and good attitude can be great ways to stay motivated.

Purpose: One important part of motivation is purpose. It does not matter what you need or want to do, you should understand why you are doing it. Purpose gives you a clear mental state and helps you look at your task in an objective manner. If something does not help you reach your end goal, then it should not be one of your goals.
List: Make a list of your goals, chores or jobs. This will help you stay focused during the day and know what you still need to accomplish. As you complete one task, mark it off. Seeing the list of things you have done, can help you feel like you have met your goals and motivate you for the next day.

Don’t procrastinate: Avoiding a chore or job does not help you reach your goal. In order to stay motivated, you must work on your job to finish it. Many times, those who procrastinate will not get that job done at all or will feel rushed at the last minute.

Talk about it: Keeping your concerns or feelings inside can lead to reduced productivity. Talk about what is on your mind to a friend, a spouse or even in a journal. Many moms see the benefit of posting something on social sights as a way of expressing concerns with others.

Exercise: Exercise is a great way to help you reach your goals, even if it is a little amount each day. A good, brisk walk around the block or a quick swim in the pool can help clear your mind and think well during the day. Exercising can give you energy, too. You will feel better and be more motivated to get those tasks done.

Eat right: Eating right can also help you stay motivated. Junk food can make you feel sluggish and instead of conquering those jobs, you will really want an afternoon nap. Eat a healthy breakfast and drink plenty of water. Vitamin supplements can also help keep you energized throughout the day.

Expect Imperfections: You will not accomplish all of your goals every day. You should expect some imperfections. In addition, no one should be “superman”. No one is perfect and if you expect perfection in yourself and in others, it will be near impossible to reach your goals. It is also ok to say no or to ask for help when you need to

Do Not Stress: Stress can sometimes motivate us to do things. However, putting yourself under stress each and every day is not healthy, nor will it inspire you. Stress can put you in a greater danger for depression and other health issues

Get Adequate Rest: Sleep and adequate rest is important thought. With a good night’s rest, you will feel more motivated during the day. If you cannot seem to make it to bed at a decent hour, try to rest during the day while the kids are napping or if you work, try to take a quick rest during your lunch break.

Reward Yourself: Rewards can be a huge motivator for anyone. Even if you reward yourself with a new book or thirty minutes of quiet time, you will be more likely to reach your goals with rewards
Activity Corner

An internet Story
Once upon a time there was a bunch of baby frogs participating in a competition. The target was to get to the top of a high tower. A crowd of people had gathered to observe the race and encourage the participants. The start shot rang out. Quite honestly: None of the onlookers believed that the baby frogs could actually accomplish getting to the top of the tower.

Words like:
"Ah, it’s too difficult!!!
They’ll never reach the top."
or: "Not a chance... the tower is too high!"
One by one some of the baby frogs fell off...
...Except those who fastly climbed higher and higher..
The crowd kept on yelling:
"It’s too difficult. Nobody is going to make it!"
More baby frogs became tired and gave up...
...But one kept going higher and higher....
He was not about giving up!
At the end everybody had given up, except the one determined to reach the top!
All the other participants naturally wanted to know how he had managed to do what none of the others had been able to do! One competitor asked the winner, what was his secret?

The truth was......The winner was deaf!!!!

The lesson to be learned

Don’t ever listen to people who are negative and pessimistic...
...they will deprive you of your loveliest dreams and wishes you carry in your heart!
Always be aware of the power of words, as everything you hear and read will interfere with your actions!

Therefore: Always Stay...POSITIVE!
And most of all: Turn a deaf ear when people tell you, that you cannot achieve your dreams! Always believe: You can make it!
Motivation doesn't last, for which it is recommended daily.
What is confidence and self-confidence?

Confidence is a feeling of trust in someone or something. To be self-confident is to have confidence in yourself. Self-confident people don't doubt themselves. This is usually a positive word: you can be self-confident without being cocky, arrogant, or overconfident. If you know what you’re doing, you have every reason to be self-confident. To be precise being self-confident means “A feeling of trust in one's abilities, qualities, and judgment:

Self-confidence has direct correlation with self-esteem. People with low self-esteem have low self-confidence. Self-esteem is your own rating about yourself. If that does not change, self-confidence will not improve. Self-esteem is affected by physical ill-health, negative life events such as losing your job or getting divorced, deficient or frustrating relationships, and a general sense of lack of control. This sense of lack of control is often particularly marked in people who are the victims of emotional, physical, or sexual abuse, or of discrimination on the grounds of religion, culture, race, sex, or sexual orientation.

Sometimes poor self-esteem can be deeply rooted and have its origins in traumatic childhood experiences such as prolonged separation from parent figures, neglect, or emotional, physical, or sexual abuse. If you think this is a particular problem for you, speak to a mental healthcare professional. Therapy or counseling may enable you to talk about such experiences and to try to come to terms with them. Unfortunately, therapy or counseling may be difficult to obtain, and may not be suitable for everyone.

Low self-esteem can predispose you to developing a mental disorder, and developing a mental disorder can in turn deliver a huge knock to your self-esteem. In some cases, low self-esteem is in itself a cardinal feature of mental disorder, for example, in depression or in borderline personality disorder. The relationship between low self-esteem and mental disorder is complex, and a person with a mental disorder is more likely than most to suffer from long-term low self-esteem.

People with long-term low self-esteem generally see the world as a hostile place and themselves as its victim. As a result, they feel reluctant to express and assert themselves, miss out on experiences and opportunities, and feel helpless about changing things. All this merely lowers their self-esteem even further, and they end up getting caught in a downward spiral.

Thankfully, there are a number of simple things that anyone can do to boost his or her self-esteem and, hopefully, break out of this vicious circle. You may already be doing some of these things, and you certainly don’t need to do them all. Just do those that you feel most comfortable with.
Difference between a self-confident person and a person with low self confidence

<table>
<thead>
<tr>
<th>Self-confident</th>
<th>Low self-confident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doing what you believe to be right, even if others mock or criticize you for it</td>
<td>Governing your behavior based on what other people think</td>
</tr>
<tr>
<td>Being willing to take risks and go for the extra mileage to achieve better things</td>
<td>Staying in your comfort zone, fearing failure, and so avoid taking risks</td>
</tr>
<tr>
<td>Admitting your mistakes and learning from them</td>
<td>Working hard to cover up mistakes and hoping that you can fix the problem before anyone notices it.</td>
</tr>
<tr>
<td>Waiting for others to congratulate on your achievement</td>
<td>Extolling your own virtues to as many people as possible</td>
</tr>
<tr>
<td>Accepting compliments graciously “Thanks, I really worked hard on that prospectus. I am grateful, you acknowledge it”</td>
<td>Dismissing compliments offhandedly “Oh that prospectus was nothing really, anyone could have done it “</td>
</tr>
</tbody>
</table>

Things you can do to improve your self confidence levels

1. Make three lists: one of your strengths, one of your achievements, and one of the things that you admire about yourself. Try to get a friend or relative to help you with these lists. Keep the lists in a safe place and read through them regularly.
2. Think positively about yourself. Remind yourself that, despite your problems, you are a unique, special, and valuable person, and that you deserve to feel good about yourself. Identify and challenge any negative thoughts that you may have about yourself, such as ‘I am a loser’, ‘I never do anything right’, or ‘No one really likes me’.
3. Pay special attention to your personal hygiene: for example, style your hair, trim your nails, floss your teeth.
4. Dress in clothes that make you feel good about yourself.
5. Eat good food as part of a healthy, balanced diet. Make meal times a special time, even if you are eating alone. Turn off the TV or radio, set the table, and arrange your food so that it looks attractive on your plate.
6. Exercise regularly: go out for a brisk walk every day, and take more vigorous exercise (exercise that makes you break into a sweat) three times a week.
7. Ensure that you are getting enough sleep.
8. Manage your stress levels. If possible, agree with a close friend or relative that you will take turns to massage each other on a regular basis.
9. Make your living space clean, comfortable, and attractive. Display items that remind you of your achievements or of the special times and people in your life.
10. Do more of the things that you enjoy doing. Do at least one thing that you enjoy every day, and remind yourself that you deserve it.
11. Get involved in activities such as painting, music, poetry, and dance. Such artistic activities enable you to express yourself, acquire a sense of mastery, and interact positively with others. Find a class through your local adult education service or community centre.
12. Set yourself a challenge that you can realistically achieve, and then go for it! For example, take up yoga, learn to sing, or cook for a small dinner party at your apartment or house.

13. Do some of the things that you have been putting off, such as clearing out the garden, washing the windows, or filing the paperwork.

14. Do something nice for others. For example, strike up a conversation with the person at the till, visit a friend who is sick, or get involved with a local charity.

15. Get others involved: tell your friends and relatives what you are going through and enlist their advice and support. Perhaps they have similar problems too, in which case you might be able to band up and form a support group.

16. Try to spend more time with those you hold near and dear. At the same time, try to enlarge your social circle by making an effort to meet people.

17. On the other hand, avoid people, places, and institutions that treat you badly or that make you feel bad about yourself. This could mean being more assertive. If assertiveness is a problem for you, ask a healthcare professional about assertiveness training.

Some quotations about self-esteem and Self-Confidence

- Adversity and perseverance and all these things can shape you. They can give you a value and a self-esteem that is priceless. —Scott Hamilton
- Giving people self-confidence is by far the most important thing that I can do. Because then they will act. —Jack Welch
- Optimism is the faith that leads to achievement. Nothing can be done without hope and confidence. —Helen Keller
- Health is the greatest possession. Contentment is the greatest treasure. Confidence is the greatest friend. —Lao Tzu
What you think of yourself is important than what others think of you
Teach me to feel another's woe, to hide the fault I see, that mercy I to others show, that mercy show to me. - Alexander Pope

Respect is earned, not given. And regardless of your age, gender, race, or ethnicity, anyone can earn respect by conducting themselves with integrity. Gaining the respect of others will not happen overnight, but remember that once respect is earned, you will have people listening to what you say. How do you get it?

There are three best ways – improve your self-image, self-esteem, self-respect and thus your confidence.

Self-Image is how you see yourself. This may be how you see yourself physically or your opinion of who and what you are which is normally called self-concept. It is important as it affects your self-esteem and confidence.

Self-image includes:
- What you think you look like
- How you see your personality
- What kind of person you think you are
- What you believe others think of you
- How much you like yourself or you think others like you
- The status you feel you have

How you see yourself is vital because this will affect your behavior, you’re thinking and how you relate to others. People respond to you either positively or negatively according to how confident you are. Your confidence in relationships depends on the image you have of yourself.

How you see yourself is often different from how others view you. Your view of yourself is shaped by your unique thoughts and beliefs and you will have a distorted view. You will see yourself in a positive or negative way according to your level of self-esteem. You may have a negative view of yourself and if so you are probably highly critical of yourself.

What can you do to improve your Self-Image?

List things you like about yourself – include appearance, personality and skills

- Change negative thoughts to positive ones by focusing on the positive and forgetting the negative things that happen to you
- Remember compliments and note them down
- Try the powerful method of self-hypnosis: Building your self-esteem – hypnosis download
- It will really help you!
• Question whether your view of yourself is accurate and why you see yourself like you do.
• Make changes that will help you; for example, clothes, appearance, hair style and behavior.
• Accept things about yourself that are true and learn to think about them in a positive way.
• Get exercise – you will look and feel better! More about psychological benefits of exercise.
• Take yourself less seriously and lighten up!
• Accept criticism constructively so you can move forward and improve yourself.
• Don’t be limited by your internal image, step outside of it and break free, it doesn’t have to control you or keep you down. Acting differently will change how others respond towards you and will help change your attitude towards yourself and your abilities.
• Take on challenges positively and surprise yourself!
• Read inspiring books about esteem – here’s a selection of my favorites, they will help you so check them out now!

Remember, you are only limited by your efforts and confidence! Believe in yourself!

What is self-esteem??

Self-esteem is your overall opinion of yourself — how you feel about your abilities and limitations. When you have healthy self-esteem, you feel good about yourself and see yourself as deserving the respect of others. When you have low self-esteem, you put little value on your opinions and ideas. In sociology and psychology, self-esteem reflects a person’s overall subjective emotional evaluation of his or her own worth. It is a judgment of oneself as well as an attitude toward the self. Infact, self-esteem stems from a positive self-image.

Following are some outward signs of positive self-esteem:

• Confidence
• Self-direction
• Non-blaming behavior
• An awareness of personal strengths
• An ability to make mistakes and learn from them
• An ability to accept mistakes from others
• Optimism
• An ability to solve problems
• An independent and cooperative attitude
• Feeling comfortable with a wide range of emotions
• An ability to trust others
• A good sense of personal limitations
• Good self-care
• The ability to say no
What is low self-esteem?

Low self-esteem is a debilitating condition that keeps individuals from realizing their full potential. A person with low self-esteem feels unworthy, incapable, and incompetent. In fact, because the person with low self-esteem feels so poorly about him or herself, these feelings may actually cause the person’s continued low self-esteem.

Here are some signs of low self-esteem:

- Negative view of life
- Perfectionist attitude
- Mistrusting others – even those who show signs of affection
- Blaming behaviour
- Fear of taking risks
- Feelings of being unloved and unlovable
- Dependence – letting others make decisions
- Fear of being ridiculed

How can you raise low self-esteem?

Feelings of low self-esteem often build up over a lifetime, and letting go of ingrained feelings and behaviors is not an easy task. It may take time, hard work, and it may require professional counseling. But there are some simple, positive thinking techniques that can be used to help improve self-esteem. These are called affirmations. Using affirmations to stop negative self-talk is a simple, positive way to help increase self-esteem. Affirmations are encouraging messages we can give ourselves every day until they become part of our feelings and beliefs. Affirmations work best when a person is relaxed. But since people are often upset when they are giving themselves negative self-messages, they may need to counter negative messages with positive ones.

For example, replace the message “I made a stupid mistake, and I am no good at this job,” with “Yes, I made a mistake but I have learned from it, and now I can a better job.” Begin each day by looking in the mirror and giving you a positive message.

The following affirmations can help you to work toward a positive self-image:

- I respect myself and others
- I am lovable and likable
- I am confident, and it shows
- I care about myself
- I accept myself just as I am
- I look great
- Life is good, and I like being a part of it

Self-respect:

- **Respect others:** Because respect is a two-way street, by respecting others, you will find yourself respected. This is also known as the "Golden Rule" or the "Yellow Rule" of treating others as you wishes to be treated.
• Don’t "bad-mouth" other people. That means that if there is a problem, try addressing it directly with the person instead of talking behind their back.
• See the opposing viewpoint. Trying to understand the other human's views, even if it's different from your own- it doesn't mean you are agreeing with them, but it shows respect for their opinion.
• **Respect yourself:** If you do not respect yourself, others will sense this and treat you accordingly.
• Take care of your appearance by being hygienic. Being poorly groomed usually sends a negative message to others about your self-worth.
• Stand up for your beliefs. Expressing your true feelings- even when they run contrary to the social norm- shows a sense of confidence in yourself. This is difficult to do, but a human with the courage to stand apart from the crowd and think independently is often regarded with respect.

**Do your best at every task.** Even the difficult or menial ones. Establishing your competency or even mastery of a field will help others realize the value of your efforts.

**Keep your word.** A human who honors their promises is considered trustworthy. If you cannot keep your word, gracefully communicate why you can't.

**Be a role model.** Conduct yourself professionally, and hold yourself to high standards. After all, actions speak louder than words. And sometimes, actions can even inspire others.

**Be the change you want to see in the world**-consider volunteering. Most people wait until their retirement to consider what legacy they will build. Start making yours now.

**So look up and keep smiling, the world is all yours!!!**
Introduction

Successful career and life depends on how well an individual balance them to achieve maximum satisfaction in life. The values which an individual associate to career/ life based on their judgment help them to choose the appropriate careers or to involve in hobbies or other activities. The value here means the things that you believe as important in the way you live and work. We are often focused on one area of life at the expense of another. We are more successful when we are in balance with every area of lifelike career, family, friends, finance, leisure, health and spirituality. Work life balance brings satisfaction and peace of mind to an individual.

Work-life balance is particularly important for women due to the multiple responsibilities they need to handle in everyday life. Women are often blessed with the inherent abilities to perform multiple tasks at a time when compared to men. These qualities might have either achieved during the course of life due to necessity or as an inherent ability. Maintaining work life balance is not an easy job. But heart of balancing can be learned. Sometimes we may have work life conflicts. In extreme cases it becomes necessary to sacrifice one for the other. In these cases choosing the priorities through wise decisions becomes important.

Steps to achieve success in career and life

1. Identifying priorities

For this one need to set priorities themselves which one feel important to them. Determining your most important current values (e.g., money, location, service to others, time with family), ranking them and deciding which one you will trade off if faced with a contradiction. It’s important to know what personal values we want to achieve in life before making career choices. This will help to most possible of these values. Making an initial list of values is usually the easy part. The real challenge –is to decide on the choices we have to make in setting our priorities or in deciding which values we will give up or trade off when we face contradictions (Nicholas W. Weiler and Stephen C. Schoonover, 2001).

People often get influenced by the words of parents, mentors, organizations, and others for prioritizing the choices. It is quite natural to think on the way one’s parents want to be. But each individual needs to take decision on what is their ultimate goal in life. Similarly the professional mentors such as teachers, bosses, or experienced co-workers influence persons to make decisions on life. The organizations companies in which one work also influence to act as per the organization’s vision and mission. Friends, siblings, or peers are others who influence a person to decide on their priorities. However it is essential that a person need to stand for the life which really he or she wants. Similarly if a person chooses a
profession which is their passion, there won’t be any boredom and they will be able to face all hurdles. But most of the time there may be other priorities than to stick on to one’s passion.

2. Setting goals and achieving it

Once we have prioritized our work life values we need to set goals to achieve it.

- What career or family goals I want to achieve in a period
- How much money I need to invest or save
- How much time I need to achieve the career and family goals.
- What are the skills required to achieve my goals

To achieve the goals management of time, money and improving skills are important.

2(a). Time Management: Time management in an important aspect to improve the work life balance and quality of life. Time management will help to accomplish more at a short period of time. Keep a check on how your time was spending last week. Eliminate all time wasters and delegate whatever things which are not aligning with the set priorities. Concentrate one thing at a time. Devote full attention to the thing which you are doing so that each one can be achieved at a stipulated time. Schedule a target for each day and see that it is achieved (www.briantracy.com).

Some of the tips for time management

- Stop doing non-priority tasks. Delegate them, outsource them, or eliminate them
- De-clutter your home and office. Get rid of everything you haven’t worn, used, or referred to in more than a year.
- Introduce at least one timesaving strategy into your life each week, eg: paying bills online, organizing things at home/ workplace, introducing technology for personal of professional effectiveness.
- Cut in half the time you spend watching TV. Choose the programs you want to watch.
- Keep track on spending habits for at least one month. Stop buying things you don’t need. Draw up a personal budget and stick to it.
- Start scheduling personal activities into your planner, such as recreational activities, physical fitness, and movies.
- Don’t save money if it means wasting time. Time is more valuable than money. (http://bookboon.com)

2(b). Money management: Money even though cannot buy all the happiness in life, is able to solve at least 50 % of the issues in life. Proper planning of money, developing discipline in spending and saving habits are as important as earning. The monetary balance will help to improve the quality of present and future life.
Tips for money management
- Prepare a budget for every month.
- Try to identify the items on which excessive spending occurs.
- Find ways to cut short unwanted expenditure.
- Calculate how much you can save every month by cutting the unwanted expenditure.
- Start saving at a young age even with small amounts.

2(c). Improving technical and life skills: Improving professional and life skills makes a person successful. The skills in career can be improved through professional training. Identify what specific combinations of skills (e.g., intellectual, technical, interpersonal, physical, artistic, computational, etc.) are required to improve the efficiency in professional and personal life. Life skills are abilities for adaptive and positive behavior that enable us to deal effectively with the demands and challenges of everyday life. They are a set of human skills acquired via teaching or direct experience that are used to handle problems and questions commonly encountered in daily human life. Some of the important life skills identified through delphi method by WHO (1997) are:
- Decision making
- Problem solving
- Creative thinking
- Effective communication
- Interpersonal relationships: In order to broaden your network of contacts, you must network continually, at every opportunity. There seems to be a direct relationship between the number of people you know and how successful you are.
- Self-awareness/mindfulness
- Assertiveness
- Empathy
- Coping with stress, trauma and loss
- Resilience

Practical exercise on managing time to improve the quality of life

Ask the participants to write on their daily activities on a sheet of paper with approximate time spend during last week/month. Ask them to identify the unwanted activities and time spends on each activity per day. Count the hours which they waste every day on unproductive activities and arrive at how much days wasted every month/year. Ask them to find strategies to eliminate the unwanted activities and to prepare a time budget.
Aswathy N.

The most important day in your life is when you find out why
Making a Carrier Choice: From Confusion to Confidence
Grinson George
Senior Scientist, CMFRI, Cochin
Email: grinsongeorge@gmail.com

There are few elementary points which can help to identify the salient points in rightly choosing your careers. There are basically two defined classes of career a person can achieve:

- **“Best” Career**
  - Based on external factors
  - Driven by societal interpretation of a job
  - Be ready for a Mid-career crisis!!!

- **“Fulfilling” career**
  - Based on intrinsic factors
  - Lifelong satisfaction

Causes of confusion in selecting a career is due to the following factors:

- “Best” Vs “Most Fulfilling”
- Societal Vs personal interpretation
- ‘Common sense’ criteria are based on external factors – salary, place, company

**“Best” Career:** This is mostly based on external factors, driven by societal interpretation of a job and the selected persons have to be ready for a Mid-career crisis.

**“Fulfilling” Career:** The career based on intrinsic factors with a lifelong satisfaction.

In a career selection we have to measure three aspects- skills, interest and market as shown in the figure below:

An intelligent career oriented person will have to ideally spot the red part. I am illustrating the figure with a real life time study in the next section addressing the situation existing in engineering science today in our country and state.
The Issue in present day society is that of **Wrong career choice**.

- Ramans and Ramanujams are in Banks as POs and Clerks
- 300 applications for every clerk post advertised by SBI – most are BE/MBAs
- <15% of the engg graduates are truly passionate to take up a career in their specialization in engg.
- Most of today’s teachers never dreamt of being a teacher

**What are the possible Current Interventions?**

**Government** – Can come up with some new plans and they are summarized below:
- R&D Spend to be doubled
- National Science and Engineering Research Board being created (annual budget 1000 crores)
- Innovation in Science Pursuit for Inspired Research (INSPIRE)
- 5 Indian Institute of Science Education and Research (IISER) – where 50% do integrated PG

**Private**- sector can come up with rewards to those who can really put efforts in research and development. For example, INFOSYS Prize – Mini Nobel for Indians; 50 lakhs for each discipline in Science.

**But there are limitations of Government role.** Government can pay for the brick and mortar for the institutions. But “building institution”....IT IS YOU AND I...

**For a “fulfilling” career...?**

- Know the job?
- Collect the job profile/nature of work OR Know yourself?

I am giving few examples for you to assess your job aptitudes.

**What describes you the best?**

**First Case**

- I like doing things very systematically
- I enjoy new recipes for cooking
- I love mathematics (marks no issue)
- I ask questions to my teacher
- I can do repetitive work for a long time
- I don’t mind if I get dirty, while at work.
- I play sports/games regularly
- I am a problem solver among friends
- I replace tube light / water line myself

**Engineering and Technology- Quality control / Civil / Mechanical/ Software**
Second Case

- I like to try new products / services
- I love working with computers
- I enjoy discussing with people
- I easily convince people
- I have many close friends.
- I don’t hesitate to talk to girls.
- I enjoy watching advertisements.
- I don’t get angry at people so easily
- I love competition.

Business/ Banking- Marketing / Economist/ Accountant / Auditor

Third Case

- My hobby is photography/ gardening
- I like travelling
- I would like to get answers to all doubts myself
- My hobby is reading books (any kind)
- I can work for long hours
- I love Discovery channels, etc
- I can work without immediate results
- I can enjoy when alone also
- I don’t argue with others

Scientific Research/ Scientist / Wild Life / Marine Biologist / Ecologist

Fourth Case

- I keep myself clean
- I enjoy helping people.
- I love children and I care for them.
- I am friendly and outgoing.
- I am with good sense of humor.
- I attend to elders / sick very kindly
- News related to loss of life disturbs
- I am a member of Scout/ NCC
- I don’t get angry on people so easily
The most difficult thing is the decision is to act, the rest is merely tenacity.

Human Services Doctor/ Lawyer/ IAS/ IPS/ Politics/ Teaching

Exercise Correct Course Option

Studies the course wholeheartedly
Develop

Find job and starts working satisfactorily

Exercise Incorrect Course Option

Casual Approach
Re-visit
Decides to change career
Completes the course

Just completes and joins any job
Serves for livelihood - no satisfaction
Wastes few years.
Serves Happily in the new area
Joins job for livelihood
Starts hunt afresh
IAS / CA after MBBS, BE

FAILS: Works with dejection and frustration
SUCCESS: Starts desired career very late

Conclusion

While choosing a career – listen to your mind and conscience... NOTHING else. Set ambitions matching to your mental makeup and then think big / try to do the impossible. There are elaborate theoretical texts available for future reading. But the present chapter will give you some insights on developing yourself in mind and knowledge for achieving the most fulfilling career.
The world is moving beyond the parameters of Intelligence Quotient (IQ) and Emotional Quotient (EQ) in measuring individuals. The Passion Quotient (PQ) is gaining ground in the current world due to its closeness to measure people having high degree of creativity, innovativeness and leadership traits. PQ brings out best out of the ordinary. While cultured, PQ can be helpful in cultivation of passion and makes a person passionate about doing things more actively and responsively. This book helps in developing a matrix of passion, which an individual can effectively follow in order to set and achieve the goals in his/her professional, entrepreneurial and social life.

Key Concepts

Deep love for your work is called passion, which is the most important strength of human beings and sets apart great from the good ones. Therefore it is not the intelligent quotient (IQ), but your passion Quotient (PQ) that will take you to pinnacle of success. As field marshal Foch said "the most powerful weapon on earth is human soul on fire."

Human emotions cannot be measured accurately; PQ cannot be assigned a number or figure as in case of IQ. PQ is notional, indicative and representative in nature. Passion generates creativity and creativity needs passion. Passion can fire up that creative genius which all of us possess.

Introduction

Passion quotient is part of a formula put forth by renowned New York Times and Foreign Affairs columnist and triple Pulitzer Prize winning author, Thomas Friedman. According to Friedman, passion and curiosity are key components for education in a world where information is readily available to everyone and where global markets reward those who have learned how to learn and are self-motivated to learn. Friedman's proposed formula is Curiosity quotient plus Passion quotient is greater than Intelligent Quotient. Friedman states, "Give me the kid with a passion to learn and a curiosity to discover and I will take him or her over the less passionate kid with a huge IQ every day of the week." IQ "still matters, but CQ and PQ matter even more." Friedman further states that "it is more important to be passionate and curious than to be merely smart."

How do you measure PQ?

The litmus test for identifying your passion

a) If it is your passion, it beckons you. A cricketer will be attracted to the pitch-If s/he sees a bunch of kids playing on the street, s/he will want to bowl a delivery or face one If it beckons you, it is passion.
People with great passion can make the impossible happen

- It gives you satisfaction
- It doesn't matter what problems are thrown your way, you will find satisfaction in that activity
- You will have absolutely no difficulty in learning the task
- Once someone teaches you something, you take to it like fish to water. A famous choreographer once mentioned that Madhuri Dixit was the easiest person to train. Why was that so? Because Madhuri was evidently passionate about dancing!
- You do it effortlessly
- If you are really passionate about something it doesn't take a lot of efforts for you to accomplish the task. Look at Sachin Tendulkar playing cricket or Mary Kom boxing, they make it look effortless.

**How does passion help you to do better in life?**

- It is a source of tremendous energy
  Jackie Chan is a one man industry who writes, directs and acts in his film. He lives and breathes cinema all the time - because he loves it. Shah Rukh Khan is called a powerhouse of energy because he is passionate about acting.
- Becomes your inner calling
  Mother Teresa worked passionately for the poor because she 'felt' for the poor and the sick. Such people work selflessly and look for no financial rewards. Many young people leave their well-paid jobs to start a meaningful NGO. The bottom line is they want to do it.
- Makes you walk that extra mile
  It lets you perform and deliver beyond your ordinary capacity. Since you love it, it comes naturally to you. "Helps you identify your Goal Passion has been instilled in us by nature to remain 'on track' - like an inner compass. It gradually pushes you to be what you ought to be.

**Passion, potential purpose and perseverance**

There are several cricketers and boxers who haven't reached the heights of Tendulkar and Kom. Does it mean they were less passionate than the two stars? Having passion and having potential go hand in hand. If you are passionate about something, you will naturally have the potential to do it. But know that isn't enough. If it is unable to give your life a purpose, if you are unable to persevere like these achievers did, all your passion and potential comes to naught. Know that without perseverance none of anything matters.

- Stay hungry but don't be foolish
  If you are considering a shift in your career, don't just jump into it! Test the waters first. If you want to be a photographer, try selling a few prints. If you want to be an author, try getting your work published. Work hard; strive; put everything you have in it but don't give up your job until you know you can make it. Do a 'test drive'. Don't jump simply because you think you are passionate about it.

- Have a safety net
  If you need to survive in this world, you ought to acquire good qualifications. Because if your passion doesn't help you earn a square meal, you always have a decent job to go back to. There is no shame in having a safety net.
Keep the flame on
In times of EMIs and home loans, you cannot throw caution to the wind. But that shouldn't mean you give up your dream. Don't let the flame die; keep chipping at what you are passionate about every day for some time. It will not only keep you sane but also help you be in touch with what you love.

a) Age is no bar
Know that you can discover your passion when you're 20 or even 60. Keep looking for it; you never know when you will find it.

b) Be passionate but not obsessive
There is a thin line between being passionate and being obsessive. If you get obsessed, you will lose your sense of balance. Learn to walk that line; learn to strike a balance. Most importantly, learn to disconnect.

Practical Session
Exploring passion through creativity

This highly creative representational approach to self-expression/introduction is far more liberating, stimulating and engaging than verbal methods such as conventional verbal self-introduction, or interviewing each other, which are commonly used in group introductions. If using the activity to explore issues of mutual awareness, strengths, life-aims, Johari Window, or personality, etc., then allow more time for the creative stage (5 mins at least) and an average of at least 2 mins per person for the review/discussion (plus 5 mins if Option 2 preparation). In this 'bigger exercise' situation it's important not to cut people off if they begin to release tensions and want to expose important feelings and thoughts, etc. This gives a total time of at least 20-25 minutes for a group of eight people.

Preparation:

Option 1 - The facilitator must prepare a big box of 'bits and pieces' from which each delegate can select/assemble/combine a creative symbolic representation of him/herself. What the facilitator puts into the box can be very random indeed, for example:

- magazines with lots of pictures
- pairs of scissors
- nuts and bolts, and other small mechanical components
- small children's toys (especially models, tools, and symbolic items)
- playing cards
- coins
- junk from the kitchen drawer
- pebbles, fir cones, conkers, and other 'natural' things
- modeling clay
- paper, pens, pencils
- sticky tape, string, stapler, fixings
- takeaway menus
- cloth, ribbon
People with great passion can make the impossible happen

- small electrical components
- other random symbolic things

This list is not fixed or complete - it's just examples. Resist guessing what the delegates will find interesting - be as random and adventurous as you can be in compiling the box contents. Remember - and emphasise - that the exercise is symbolic. To avoid a rugby scrum spread contents of the box of bits on a table to make it easier for people to look and select.

Option 2 - Alternatively (less dynamic, but virtually zero preparation for facilitator) this method does not require a prepared 'box of bits and pieces'. Instead ask the delegates to draw or write 5-10 things on separate pieces of card (or paper) - about postcard size - and these cards, put into a central pool, or ideally tacked to a wall, or spread on the floor/table, will collectively equate to the 'box of bits and pieces'. Ensure cards can be clearly understood. Make available extra blank cards and pens for delegates who need them in the next creative representational stage. In prompting delegates what to draw/write, describe these things as: "symbols of what's important in life", or similar. This option 2 of the exercise produces a slightly different activity compared with Option 1, but in essence the process and methods and possible outcomes are the same.

Creative representational stage - Ask delegates each to use whatever bits and pieces they want to create a symbolic representation of him/herself. Depending on the context/aims of the session, the facilitator can give guidance as to whether this representation is of 'self', 'dreams', 'strengths', 'challenges', - or whatever suits the group development purpose. This flexibility applies to using the activity for simple personal introductions or as a bigger exercise. Or the facilitator may choose to leave the nature of self-expression completely open to the delegates' interpretation.

Review - This next stage if for delegates to present themselves ("This is me") using their creative representations. Depending on your precise purpose of the activity, control timings tightly if the exercise is for a simple personal introductions session, or allow more time for explanations and discussion if there is a wider purpose. Consider that the nature of the exercise is liberating and may cause delegates to 'open up' more than happens in conventional verbal introductions. If serious issues emerge then make a note of them, make a time to return to them, and deal with them later, individually or in the group, as appropriate.

The method of presentation is flexible - most obviously it can be on a table-top, or by tacking cards to a wall. You can ask that people take turns to present/explain themselves/their representations to the group, or for very large groups encourage more casual walking around and discussing with each other what the representations mean.

There is no right or wrong answers. A perfectly acceptable representation would be merely to hold up a single nut or bolt, and say "I am an engineer." Alternatively if a delegate chooses to create a 3D model of Africa, or a street, a school, a zoo, a hobby, a holiday, a garden shed, or the Starship Enterprise (subject to available time and materials) then any of this is perfectly fine too. It's about liberating and sharing people's self-expression, followed by whatever suits your session aims.
1. ActivityCorner - Lessons Learnt

i) Who put forth the PQ in terms of an equation?
ii) How do you measure PQ?
iii) How does passion help you to do better in life?
People with great passion can make the impossible happen
Problem Solving
Deepa P.N.
Upper Division Clerk, CMFRI, Cochin
Email: deepapmanoj@gmail.com

Man needs his difficulties because they are necessary to enjoy success
- Abdul Kalam

Meaning

It is the process of working through details of problem to reach a solution. Problem solving may include mathematical or systematic operations and can be a gauge of an individual’s critical thinking skill. Problem solving refers to a state of desire for reaching a definite 'goal' from a present condition either is not directly moving toward the goal, or needs more complex logic for finding a missing description of conditions or steps toward the goal.

- Stop talking about your problems and start thinking about solutions
- A problem is a chance for you to do your best
- Problems are nothing but wake-up calls for creativity
- Most people spend more time and energy going around problems and then in trying to solve them.
- A systematic approach to defining the problem (question or situation that presents uncertainty, perplexity or difficulty)
- Creating vast number of possible solutions without judging these solutions.

In problem solving there are four basic steps,

1. Define the problem
2. Generate alternative solutions
3. Evaluate and select an alternative
4. Implement and follow up on the solution

Define the Problem

Diagnose the situation so that your focus is on the problem, not just its symptoms. These steps support the involvement of interested parties, the use of factual information, comparison of expectations to reality and a focus on root causes of a problem.

Generate alternative solutions

- Postpone the selection of one solution until several alternatives have been proposed.
- A standard allows us to evaluate the different intended results offered by alternatives.
- When you try to build toward desired results, it’s very difficult to collect good information about the process.
• Considering multiple alternatives can significantly enhance the value of your final solution. Once the team or individual has decided the “what should be” model, this target standard becomes the basis for developing a road map for investigating alternatives.

• Brainstorming and team problem-solving techniques are both useful tools in this stage of problem solving.

• Many alternative solutions should be generated before evaluating any of them.

• A common mistake in problem solving is that alternatives are evaluated as they are proposed, so the first acceptable solution is chosen, even if it’s not the best fit.

• If we focus on trying to get the results we want, we miss the potential for learning something new that will allow for real improvement.

**Evaluate and select an alternative**

• Skilled problem solvers use a series of considerations when selecting the best alternative. They consider the extent to which:

• A particular alternative will solve the problem without causing other unanticipated problems.

• All the individuals involved will accept the alternative.

• Implementation of the alternative is likely.

• The alternative fits within the organizational constraints

**Skills used in problem solving**

• Making judgments

• Analytical skills

• Decision making

• Collecting information

• Planning

**Problem solving strategies**

• **Brainstorming**: Suggesting a large number of solutions or ideas and combining and developing them until an optimum solution is found

• **Lateral Thinking**: Approaching solutions indirectly and creatively

• **Research**: Employing existing ideas or adapting existing solutions to similar problems

• **Divide and Conquer**: Breaking down a large, complex problem into smaller, solvable problems

• **Root Cause Analysis**: Identifying the cause of a problem

• **Trial and Error**: Testing possible solutions until the right one is found

• **Monitoring and Sending Feedback**: The last stage is about reviewing the outcomes of problem solving over a period of time, including seeking feedback as to the success of the outcomes of the chosen solution. The final stage of problem solving is concerned with checking that the process was successful. This can be achieved by monitoring and gaining feedback from people affected by any changes that occurred. It is good practice to keep a record of outcomes and any additional problems that occurred.
• **Cultivate your own attitude**

  Generally there are three types of people:
  1. Optimist
  2. Pessimist
  3. Realist

  Locks are never manufactured without a key. Similarly, God never gives problems without solutions. Only we need to have patience to unlock them.

**Promise Yourself...**

• To be so strong that nothing can disturb your peace of mind. To talk health, happiness and prosperity to every person you meet’.
• Take the help or right persons whom you trust and who can really help you.
• Don’t get disappointed on problems....
• Keep knocking at doors....
• To avoid obstacles give attention to the manner of interaction with others
• Avoid acting before others...
• Be sincere ....
• Smile towards problems...
• If you get struck, get away from your desk. Take a walk, take a bath, draw, listen to music, meditate, exercise, whatever you do, don’t joint stride there scowling at the problem
• We always hope for the easy fix; the one simple change that will erase a problem in a stroke. But a few things in life work this way. Instead success requires making a hundred small steps to go right – one after other, no slip ups, no goofs, and every one pitching in.
• Be confident...
• Do your duty at your level best...
• success will follow you
• Love your life...... All the best.....
Either you run the day, or the day runs you
Time plays an important role in our life. God has designed the timeframe for everyone. From the moment the life evolves till its end time acts as a vital factor. Any human being can succeed in life only by organizing their life according to the importance of each activity. Time never stops for anyone. It's an ongoing process; we all are a part of it. So the maximum utilization of time is the key to success.

As the saying goes "Time is like a river - you cannot touch the same water twice because the flow that has passed will never pass again". Time flows like water; we are changed by events as is our environment. It's an illustration that the past is gone and cannot return. If we take it a step further, it illustrates that our present actions are irrevocable and so we should be careful of what we do or say. Your work is to discover your world and then with all your heart give yourself to it. We cannot make our days longer so we should strive to make them better.

**Importance of planning and managing time**

- Time is limited. If you want to rise through the ranks, you have to acknowledge the importance of finding a way to manage this limited resource. Everyone has the exact same amount of time each day. Time not well used cannot be retrieved.
- Time management will help you set up your priorities. When you learn to take control of your time, you improve your ability to focus. And with increased focus comes enhanced efficiency, because you don't lose momentum. You'll start to breeze through tasks more quickly.
- Good time management skills are the ability to make better decisions. When you feel pressed for time and have to make a decision, you're more likely to jump to conclusions without fully considering every option. That leads to poor decision making. Effective time management can eliminate the pressure that comes from feeling like you don't have enough time.
- Time management allows you to take control of your life rather than following the flow of others.
- Once you learn how to manage your time, you no longer subject yourself to that level of stress. Besides it being better for your health, you have a clearer picture of the demands on your time. You're better able to estimate how long a given task will take you to complete, and you know you can meet the deadline.
- Everyone needs time to relax and unwind. Unfortunately, though, many of us don't get enough of it. Between jobs, family responsibilities, errands, and upkeep on the house and the yard, most of us are hard-pressed to find even 10 minutes to sit and do nothing. Having good time management skills helps you find that time.
- When you practice good time management, you leave no room for procrastination. The better you get at it, the more self-discipline you learn.
is a valuable skill that will begin to impact other areas of your life where a lack of discipline has kept you from achieving a goal.

Always remember that you can never buy time as it is distributed equally to all in the form of 24 hours a day. Secondly, you can never stop time nor hold it up to take a bit longer, it goes on. Finally, you cannot save it to be used up at another time of your convenience. But you can live and to live well we should make the most of our time.

As the old Irish text quotes:

“Take the time to work, for it is the price of success.
Take the time to think, it is the source of strength.
Take the time to play; it is the secret of youth.
Take the time to read, it is the seed of wisdom.
Take the time to be friendly, for it brings happiness.
Take the time to dream, for it will carry you to the stars.
Take the time to love; it is the joy of life.
Take the time to be content, it is the music of the soul.”

Every moment of your life is infinitely creative and the universe is endlessly bountiful.

“Time is valuable. Enjoy every moment of life.”
Creativity is the process of bringing something new into being. It is the act of turning new and imaginative ideas into reality. It’s about using your whole brain, not just one side or the other. If you have ideas, but don’t act on them, you are imaginative but not creative. Creativity involves two processes: thinking, then producing. Creativity adds to everyone’s personal and professional bottom line and is where innovation and excellence begins.

Creativity is a function of knowledge, curiosity, imagination, and evaluation. The greater your knowledge base and level of curiosity, the more ideas, patterns, and combinations you can achieve, which then correlates to creating new and innovative products and services. But merely having the knowledge does not guarantee the formation of new patterns. The bits and pieces must be shaken up and iterated in new ways. Then the embryonic ideas must be evaluated and developed into usable ideas. In other words, there really is a process.

Everyone has substantial creative ability, come up with brilliant ideas, think differently and have super-productive and effective days. Creative thinking is not a talent. It is a skill that can be learnt and developed during the course of life. Creativity begins with a foundation of knowledge, learning a discipline, and mastering a way of thinking. You learn to be creative by experimenting, exploring, questioning assumptions, using imagination and synthesing information. Learning to be creative is akin to learning a sport. It requires practice to develop the right muscles, and a supportive environment in which to flourish.

To excel in life we need to have ideas. Ideas can be considered as an asset you need and there is no limit to what you can do with your creative thinking both in your personal and professional life. We think and do things in our life through creative ideas. Even at home and at office to do any work we try to identify the most ideal way things can be done within the short limited time. Without creativity, there would be no progress and we would be forever repeating the same patterns. When you think creatively you are exploring many new ideas.

An idea is to be performed and it should in turn be advancement for our career goals. Coming up with an idea is only half of the story, we should make ideas happen. Our passion for doing new things based on our knowledge and experience and the method we use to implement our ideas are equally correlated to each other. As a first step of passion we should have a desire to create, the sportive spirit to face challenging situations, our curiosity to know more and more, hard work on our goals, identifying the way to implement our idea, a clear cut objective, collecting, organizing, placing, filter priorities, creative plus realistic balance to identify the sweet spot.
Look at problems from a fresh perspective to find unorthodox solutions. Every innovation requires creativity. The key metric in both creativity and innovation is value creation. Creative thinking focuses on exploring ideas, generates possibilities, and looks for many right answers rather than just one.

**Creativity requires the following:**

1. Mechanism of our brain – Thinking is a voluntary action which combines intelligence, critical and creative thinking,
2. Generating new ideas by combining, changing or reapplying existing ideas.
3. The ability to accept change
4. The realization that there is always room for improvement.

A creative person will be curious to learn new things, seeks problems, enjoys challenge, optimistic, able to suspend judgment, imaginative sees problems as opportunities, and doesn’t give up easily.

**Creative Methods**

Evolution - Every problem that has been solved can be solved again in a better way.
Synthesis - Two or more existing ideas are combined into a third, new idea.
Revolution - Sometimes the best new idea is a completely different one.
Reapplication - Look at something old in a new way
Changing Direction - The goal is to solve the problem, not to implement a particular solution

To help you master that process, you first must understand three important levels of creativity, which are discovery, invention, and creation.
#1. Discovery: The lower level of creativity is discovery. Just as the name implies, it’s when you become aware of or stumble upon something—discover it. For example, there is art called “discovered art.” It might be a rock with a unique shape or a piece of wood with an interesting pattern. If you have ever purchased a piece of natural stone or wood art, that art was discovered art. Many inventions start with a discovery.

#2. Invention: A higher level of creativity is invention. For example, Alexander Graham Bell invented the telephone. But you have to ask yourself, “Would the telephone have been invented without Bell?” The answer is yes. Eventually the telephone would have been invented because the science was there. It might have taken longer, but it would have happened. So while invention is higher than discovery, it’s something that is going to happen. If you don’t invent it, someone else will.

#3. Creation: Creation is the highest level of creativity. For example, the stage play Othello is genuinely a creation. Elizabethan drama would have gone on without Shakespeare, but no one else would have written Othello. Similarly, there are things that only your organization can create! The key is tapping in to what those things are. Here’s an example of how this could play out in your company. While at a conference you might discover a tool, a technology, or a process that you didn’t know before. You purchase the tool for your staff, and that discovery helps everyone work better. After some time, that discovery may also spur an innovative idea of how to apply the discovery. You may then use that innovative idea as an inspiration that yields something never seen before, something created by your company that helps you and your customers. That’s how the three levels of creativity can work together.

Realize that creativity and innovation are different. Creativity refers to generating new and novel ideas. Innovation refers to the application of an idea and, in many cases, is a collaborative enterprise. So in other words, innovation is applied creativity. Or if I put my creative speaker hat on, I might say, “Creativity is a bioelectrical thunderstorm that precipitates an inescapable notion.”

### 10 Strategies for Increasing your Creativity and Innovation

Now that you understand the various levels of creativity, you can implement some strategies that will boost your company’s ability to create and innovate.

1. Truly creative people have developed their ability to observe and to use all of their senses, which can get dull over time. Take time to “sharpen the blade” and take everything in.
2. Innovation is based on knowledge. Therefore, you need to continually expand your knowledge base. Read things you don’t normally read.
3. Your perceptions may limit your reasoning. Be careful about how you’re perceiving things. In other words, defer judgment.
4. Practice guided imagery so you can “see” a concept come to life.
5. Let your ideas “incubate” by taking a break from them. For example, when I’m working on a big business project, one of the best things I can do to take a break from it is play my guitar or the flute for a few minutes, or take a ride on my motorcycle. It shifts my brain into another place and helps me be more innovative and creative.

6. Experience as much as you can. Exposure puts more ideas into your subconscious. Actively seek out new experiences to broaden your experience portfolio.

7. Treat patterns as part of the problem. Recognizing a new pattern is very useful, but be careful not to become part of it.

8. Redefine the problem completely. One of the lines I’ve been sharing for the past few decades is: “Your problem is not the problem; there is another problem. When you define the real problem, you can solve it and move on.” After all, if you had correctly defined the real problem, you would have solved it long ago because all problems have solutions.

9. Look where others aren’t looking to see what others aren’t seeing.

10. Come up with ideas at the beginning of the innovation process ... and then stop. Many times we come up with several ideas and start innovating, and then we come up with more ideas and never get a single idea done. At some point you have to turn off the idea generation part of the process and really work on the innovation and execution part in order to bring a project to life.

There are negatives attitudes that block creativity like I can’t do it, It can’t be done, I’m not creative, what will people think, I might fail. But we should always remember that life is about creating yourself. There is never one good solution. There are always solutions.

“Creativity is contagious, pass it on” - Albert Einstein
“Education is not the learning of facts but training the mind to think”
Albert Einstein

Introduction

Women are the foundation of society and breeders and teachers of the next generation. We comprise half of the population of the world, and thus should be equals in every step with men. In order to do so, logical, analytical thinking (devoid of emotional drivers and personal pride) is crucial for a society to function healthily. To incline women to realize the benefits being more curious and analytical about the decisions that is made for them by men in their lives. If women remain as a mass of silent sufferers instead of individual thinkers who challenge status quo, then lack of societal respect for and protection of women’s personal decision-making in regard to unwanted pregnancies, style of dress, a their right to choose their partners, etc. will continue. Here lies the relevance of critical thinking that will allow them to become the experts in all fields.

We tend to receive knowledge passively at many stages of education, although we can be highly critical in other aspects of life. Critical thinking and analysis is an everyday activity, even if we don’t think of it as that. Every time you have to make a decision, the process you go through involves critical thinking, and this process can become almost automatic.

**Definition:** Critical thinking is the ability to think clearly and rationally about what to do or what to believe.

A person with a good memory and who knows a lot of facts is not necessarily good at critical thinking. A critical thinker is able to deduce consequences from what he knows, and he knows how to make use of information to solve problems, and to seek relevant sources of information to inform him.

**Difference between Thinking and Critical thinking**

**Critical thinking** is controlled, purposeful and more likely to lead to obvious beneficial results.

**Thinking** is basically any mental activity; can be aimless and uncontrolled; it may serve a purpose but aren’t aware of its benefits; we might not remember our thoughts at all.
The importance of critical thinking

- **It is a domain-general thinking skill:** The ability to think clearly and rationally is important whatever we choose to do. Being able to think well and solve problems systematically is an asset for any career.

- **Important in the new knowledge economy:** The new economy places increasing demands on flexible intellectual skills, and the ability to analyse information and integrate diverse sources of knowledge in solving problems. Good critical thinking promotes such thinking skills, and is very important in the fast-changing workplace.

- **Enhances language and presentation skills:** Thinking clearly and systematically can improve the way we express our ideas. In learning how to analyse the logical structure of texts, critical thinking also improves comprehension abilities.

- **Promotes creativity:** Critical thinking plays a crucial role in evaluating new ideas, selecting the best ones and modifying them if necessary.

- **Crucial for self-reflection:** In order to live a meaningful life and to structure our lives accordingly, we need to justify and reflect on our values and decisions. Critical thinking provides the tools for this process of self-evaluation.

**Skills:** The list of core critical thinking skills includes observation, interpretation, analysis, inference, evaluation, explanation, and metacognition. An individual or group engaged in a strong way of critical thinking gives due consideration to establish for instance

- Evidence through reality
- Context skills to isolate the problem from context
- Relevant criteria for making the judgment well
- Applicable methods or techniques for forming the judgment
- Applicable theoretical constructs for understanding the problem and the question at hand
Procedure

Critical thinking calls for the ability to:
- Recognize problems, to find workable means for meeting those problems
- Understand the importance of prioritization and order of precedence in problem solving
- Gather and marshal pertinent (relevant) information
- Recognize unstated assumptions and values
- Comprehend and use language with accuracy, clarity, and discernment
- Interpret data, to appraise evidence and evaluate arguments
- Recognize the existence (or non-existence) of logical relationships between propositions
- Draw warranted conclusions and generalizations
- Put to test the conclusions and generalizations at which one arrives
- Reconstruct one's patterns of beliefs on the basis of wider experience
- Render accurate judgments about specific things and qualities in everyday life
The Six Levels of Thinking

Bloom’s *Taxonomy of Educational Objectives* explains that the process of thinking actually involves several levels.

1. Gathering knowledge consists of acquiring basic pieces of information
2. Comprehending and confirming involves looking at the meaning of the knowledge that has been gathered and drawing conclusions from it.
3. Applying entails using what has been learned in new situations.
4. Analyzing involves thinking about a whole in terms of its various parts.
5. Synthesizing consists of putting parts together to form a whole.

Bloom’s Taxonomy (Revised)

- Can the student create a new product or point of view?
  - assemble, construct, create, design, develop, formulate, write
- Can the student justify a stand or decision?
  - appraise, argue, defend, judge, select, support, value, evaluate
- Can the student distinguish between different parts?
  - appraise, compare, contrast, criticize, discriminate, distinguish, examine, experiment, question, test
- Can the student use information in a new way?
  - choose, demonstrate, dramatize, employ, illustrate, interpret, operate, schedule, sketch, solve, use, write
- Can the student explain ideas or concepts?
  - classify, describe, discuss, explain, identify, locate, recognize, report, select, translate, paraphrase
- Can the student recall or remember the information?
  - define, duplicate, list, memorize, recall, repeat, state

Someone with critical thinking skills is able to do the following:
- Understand the logical connections between ideas
- Identify, construct and evaluate arguments
- Detect irregularities and common mistakes in reasoning
- Solve problems systematically
- Identify the relevance and importance of ideas
- Reflect on the justification of one’s own beliefs and values
Practical Session by Engaging Trainees: Discuss on the following

- The Impact of Social Media in Our Daily Lives What is your thoughts?
- Do you consider alcohol abuse a problem on your campus?
- Why do you think women are often unwilling to report sexual harassment and/ or assault cases?

Activity Corner

- Difference between critical thinking and creative thinking?
- Which are the processes of thinking?
- Which are the critical thinking skills?

Summary

Finally... Critical Thinking

- Help us acquire knowledge, improve our theories, think and argue independently, explore issues in depth, and strengthen arguments.
- Help to evaluate and improve our creative ideas.
- Helps you develop your own opinions.
Critical thinking is to make your thinking better.
Relevance

The major goal of the session is to enlighten the most essential requisite of positive attitude development among the trainees and thereby bringing about attainment of personal effectiveness with a successful life.

Key concepts dealt: Attitude, Behaviour, and Effectiveness.

Effectiveness refers to ‘doing the right thing’ and efficiency refers to ‘doing things rightly’. Both appear to be synonymous but possess a lot of differences. Any way for human beings, we normally use the terminology of effectiveness. Here are some glimpses of personal effectiveness. Have a glance of the following remarks and the corresponding persons who really created a difference and made their presence remarkable due to their personal effectiveness.

- A small boy—the fifth amongst the seven siblings of a poor father, as selling newspapers in a small village to earn his living. He was not exceptionally smart at school but was fascinated by religion and rockets. The first rocket he built crashed. A missile built crashed multiple times and he was made a butt of ridicule. He was the person to have scripted the space Odyssey of India single-handedly and later who became the honorable Indian President...... He was Dr. A.P.J Abdul Kalam.

- A man failed in business at age 21; was defeated legislative race at 22; failed again in business at 24; Overcame the death of his sweetheart at 26; Met with a nervous breakdown at 27; Lost congressional race at 34; Lost senatorial race at 45; failed in vice-president contestation at 47; Lost senatorial race at 49; finally won to be President of United States at 52 ..........and he was ............Abraham Lincoln

- A candidate for a news broadcasters post was rejected because of his voice. He also told that with his obnoxiously long name, he would never be famous............He is Amitabh Bachan

- When a gentleman invented a communications machine in 1876, it did not ring off the hook with calls from potential backers. After making a demonstration call, President Rutherford Hayes said, “That’s an amazing invention, but who would ever want to see one of them?” He said this to a person who made maximum inventions in the world and was none other than..........Alexander Graham Bell

- A 4 year old girl, the 20th of 22 children, contracted double pneumonia and scarlet fever at a very early age, which paralysed her left leg. Thereafter at 9 years of age she removed her leg braces and started walking without them. At 13, she decided to become a runner but kept failing miserably in all races that she entered in. She kept trying in spite of several detractors and finally started winning every race she entered and became the winner of 3 Olympic gold medals. She is ..........................Wilma Rudolph
A school teacher scolded a boy for not paying attention to his mathematics and for not being able to solve simple problems. She told him that he would not become anybody in life. His mother however believed in him and coached him Maths. The boy went on to become ..........Albert Einstein

These above motioned personalities were the ones who never failed, but who never quitted and proved themselves to be personally effective. The average life span of a human being is 70 years i.e. 26, 500 days and in this period he consumes 60 tons of food and he breaths 23,800 times a day on an average. After finishing every breath we have to realize we are approaching graveyard. So can’t we think of something productive to be done by creating a difference to improve our personal effectiveness? The most important prerequisite for improving personal effectiveness is the necessity for a self-change.

As we all know, Education is a social process or growth in the senses of producing desirable changes in the behavioral components of human behavior, The behavioral components include knowledge, skill and attitude. For a self-change, 3 things need to be changed inevitably and they are our attitude, thinking and behavior. Components of education are teaching and learning. How we are learning? We know it is by sensory techniques. It has been proved that the comprehension though learning is like this. Reading 10 %, Hearing 20 %, Seeing 30 %, Seeing and Hearing 50 % and Doing 90 %.

**How to be positive in a tough work environment**

In the surrounding environment, we have to beware of a couple of bullets. They are Negative work environment, other people’s behavior, Negative world view, changing environment, past experience and Determination theory. Let’s look into each of these bullets.

**Negative work environment**

In a negative work environment, we can encounter these sorts of experiences.

- Dog eats dog . . . everyone fighting to get ahead
- No one appreciates your contributions
- Too much work . . . not enough help
- Deadlines are unrealistic
- Longer hours . . . additional work
- Budget Constraints
- Competition is eating us alive
- Poor management / direction
- Job insecurity
- Donkey Works
Other people’s behavior

We can observe these types of personalities around us. Bulldozers, Complainers, Gossipers, Patronizes, Whiners, Snipers, Backstabbers, Controllers, Snuffers, Exploders, Hypocrites etc. who make out daily routine miserable.

Changing environment

There is a widely accepted quotation that “The only person who always likes change is a wet baby”. This is essentially because of the following aspects concerned with change. The change challenges our paradigms. It alters the way we think. It makes life more difficult for a while. It causes Stress. But we have to realize and accept an inevitable truth that Change is an ongoing fact of life.

Past experience

The past experience also might have created a story in our mind. This story will lead to another story and that will lead to another one which in turn makes everything a confusing mesh, which won’t make realize the difference between fact and interpretation. Past is only to be refereed for future prospects and never live in the past.

Negative world view

A recent Statistic says crime down 20% in America is being reported up to 600%. Because the trend is to create sensationalisation. Look at what you are looking at! People are bothered on sensational news as the general view of the world itself has become negative. The front page of the newspapers gives the indication that to what extent people are bothered on sensational items.

Determination theory

The determinism theory makes us conclude certain items that it is none of our faults and we find excuses of our own mistakes with justification that those are due to these genetic, psychic or environmental aspects.

GENETIC: My Grandparents did it to me. (Inherited traits)
PSYCHIC: My Parents did it to me. (Upbringing)
ENVIRONMENTAL: My Teacher, My Spouse, My Boss, the Company, the Economy, etc..is doing this to me. (Surroundings)

Life’s Little Question

“Are some people just born positive thinkers ..........or is it their CHOICE?” We have two luggages here. Our task is to choose the Choose the Right Luggage: We have to either dodge bullets or wear the bullet proof armor. The problem with dodging bullets is ‘You’re definitely going to get hit! Choice 2 is wearing a bulletproof armor. Wearing the bulletproof armor comes from ‘SELF CHANGE’. So while putting on the armor. We have to change 3 Things! Attitude, Behaviour and Thinking.
**How to Change Your Attitude**

Now comes the relevance of the major crux of the topic: the ‘Attitude.’ Attitude is the positive or negative affect towards a psychological object. Attitude change happens personally from the inside out. So we have to accept our responsibility that I am responsible for who I am, for what I have and for what I do. Second step is to take control over our ownerships, values, mission and discipline.

**How to Change Your Thinking**

Changes in thinking come from observing logically in every situation. For that we have to observe our thinking and manage our self talk. Henry Ford’s quotation is ‘If you think you Can, or you think you Can’t...you’re right’. When you get up in the morning, just feed your sub-conscious mind that, this is going to be a wonderful day!. Automatically it can be ensured that entire activities will lead to a positive mental stage bringing about a fruitful day. Instead, when you get up and feed your sub-conscious mind that this is going to be a crappy day!, entire activities will become negative leading to a totally embarrassing situation.

**How to Change Your Behavior**

Behaviour changes take true assessment, determination & discipline. For this we have to go for a paradigm shift from the normal reactive behaviour to a proactive/responsible behaviour. Reactive behaviour is just the normal stimulus- response behaviour. But in Proactive behaviour, in between the stimulus and response there is ‘our choice’. Untiring perseverance is required to change our habits and behaviour. Four unique human endowments are Self-Awareness, Imagination, Conscience and Independent Will.

**Steps towards Changing Behavior**

This can be explained with an example of learning Car Driving.

1. Unconscious Incompetence: A boy in his childhood doesn’t not what a car is and what driving is. He is unconscious and incompetent to drive a car.
2. Conscience Incompetence: As the boy grows, he knows what a car is. But not competent to drive.
3. Conscience Competence: Slowly when he learns driving skill, he is conscious about car driving and is very careful in driving without any distraction as he is consciously competent.
4. Unconscious Competence: In the final stage after expertise in car driving, he drives systematically while he talks or wave as if he is unconsciously competent in car driving. Out entire deeds and activities should reach to this stage for personal effectiveness to emerge as a new personality.

So influence your environment by adding positive behavior

- Replace the bad habits!
- Spread a SMILE around
- Sprinkle some “positive” on the “negatives”
- Focus on the good of each day
• Stay out of the “feeding frenzies”
• Say “please” and “thank you”
• Practice EMPATHY
• Evaluate YOUR behaviour
• Never miss an opportunity to complement
• Before you say anything to anyone, ask yourself three things
  1. Is it true? 2. Is it harmful? 3. Is it necessary?
• Keep promises
• Have a forgiving view of people
• Keep an open mind with changes
• Count to 100 if necessary
• See criticism as opportunity to improve
• Cultivate your sense of humour

Have a look at a very interesting quotation ‘Watch your definitions……they become thoughts, Watch your thoughts......... They become words, Watch your words ………. they become actions, Watch your actions…………they become your destiny.’

The choice is yours, i.e with a bad attitude, we can never have a positive day and with a positive attitude, we can never have a bad day.

Choose POSITIVE Living. When you have two choices in a natural motivator’s case study.

"Each morning I wake up and say to myself, I have two choices today. I can choose to be in a good mood or I can choose to be in a bad mood.”

“I always choose to be in a good mood.”

“Each time something bad happens, I can choose to be victim or I can choose to learn from it”.

“I always choose to learn from it.”

‘Every time someone comes to me complaining, I can choose to accept their complaining or I can point out the positive side of life’. ‘I always choose the positive side of life’.

So ‘Life is all about choices. When you cut away all the junk every situation is a choice”.

• You choose how you react to situations.
• You choose how people will affect your mood.
• You choose to be in a good mood or bad mood.
• It's your choice how you live your life.

I chose it, because I chose it ......Be happy.........

These positive changes in thinking, attitude and behaviour are inevitable for leadership. Leadership is to be observed in a broader perspective compared to
management. Because management consists of planning, organizing, leading and controlling and is obvious that leadership is one of the functions of management. It is the degree to which a person can influence other people's behaviour in a desirable way. Inculcating this leadership quality is of paramount significance for personal effectiveness. For that a paradigm shift to a proactive behaviour is mandatory. In the proactive model, our choice is there between the stimulus and response and this freedom to choose is based on our self awareness, imagination, conscience and independent will.

**Here are some of the habits of highly effective people.**

- **Being Proactive**: Proactive people take responsibility for their own lives. They determine the agendas they will follow and choose their response to what happens around them. On the contrary, Reactive people don't take responsibility for their own lives. They feel victimized, a product of circumstances, their past, and other people. They do not see as the creative force of their lives.

- **Beginning with the End in Mind**: These people use personal vision, correct principles, and their deep sense of personal meaning to accomplish tasks in a positive and effective way. They live based on self-chosen values and are guided by their personal mission statement. But those beginning with no end in mind, lack personal vision and have not developed a deep sense of personal meaning and purpose. They have not paid the price to develop a mission statement and thus live life based on society's values instead of self-chosen values.

- **Putting First Things First**: These people exercise discipline, and they plan and execute according to priorities. They also “walk their talk”. On the other hand, those putting second things first are crisis managers who are unable to stay focused on high-leverage tasks because of their preoccupation with circumstances, their past, or other people. They are caught up in the “thick of thin things” and are driven by the urgent.

- **Thinking Win-Win**: These people have an abundance mentality and the spirit of cooperation. They achieve effective communication and high trust levels in their emotional bank accounts with others, resulting in rewarding relationships and greater power to influence. But those thinking Win-Lose or Lose-Win, have a scarcity mentality and see life as a zero-sum game. They have ineffective communication skills and low trust levels in their emotional bank accounts with others, resulting in a defensive mentality and adversarial feelings.

- **Seeking First to Understand, Then to Be Understood**: Through perceptive observation and empathic listening, these non-judgmental people are intent on learning the needs, interests, and concerns of others. They are then able to courageously state their own needs and wants. But those seeking first to be understood, put forth their point of view based solely on their auto-biography and motives, without attempting to understand others first. They blindly prescribe without first diagnosing the problem.

- **Synergizing**: Effective people know that the whole is greater than the sum of the parts. They value and benefit from differences in others, which results in creative
cooperation and team-work. Ineffective people believe the whole is less than the sum of the parts which ultimately results in compromise, fight or flight. They try to “clone” other people in their own image. Differences in others are looked upon as threats.

- **Sharpening the Saw**: Effective people are involved in self-renewal and self-improvement in the physical, mental, spiritual, and social-emotional areas, which enhance all areas of their life and nurture the other six habits. Ineffective people fall back, lose their interest, and get disordered and they wear out the saw. They lack a program of self-renewal and self-improvement and eventually lose the cutting edge they once had.

**Practical Exercise:**

A practical exercise on filling a schedule can be advocated which can make a true assessment of the score on Personal Effectiveness based on the remarks of trainees.
Winning isn't everything, but wanting to win is
Communication
And
Audio Visual Communication
Communicative English
Rahul G. Kumar
NBFG, CMFRI
Email: cichlidiot@gmail.com

Communicative English emphasizes the ability to communicate the meaning of the message, instead of concentrating on grammatical perfection. This module will introduce participants to the use of English in everyday situations and is intended to encourage the use of English in their daily lives.

Communicative English covers 5 major areas;
1. Personal: Talking about yourself; introductions, storytelling, character.
2. Interpersonal: Talking to others, asking simple questions, giving simple answers.
4. Referential: Talking about events, other people.
5. Imaginative: Expressing creativity and artistic ability.

Introduction

The purpose of language is to communicate i.e., to transfer ideas, thoughts and feelings from one person to another. English is, today, the most widely spoken, and understood, language around the world, especially in the business world. Communicating effectively in English is, therefore, a valuable skill in the workplace. With its high levels of literacy and a non-discriminatory attitude towards women, Kerala has the potential to produce highly skilled workers to meet workplace requirements across the country and beyond. The state is known for the quality and competence of its women in professional fields such as teaching and nursing the world over. The challenge now is to train workers, who may not have had the benefit of a technical education, with the soft skills necessary to achieve success in a competitive marketplace. Opportunities exist, for candidates willing to apply themselves, in fields such as the hospitality and tourism industry, in customer service and in sales. By providing an introduction to communicating effectively in English, this workshop hopes to help participants take their first steps towards a fulfilling career and self-sufficiency.

What is Communicative English?

The Communicative approach is intended to effectively convey the speaker's meaning, instead of focussing on grammar or pronunciation. Thus, the method is based on the concept of using the language rather learning the language. The Communicative English method relies on teaching via active student interaction, using both the learners' personal experiences and situations as well as unrehearsed contexts. The biggest advantage of the communicative method is it encourages the student, even first time learners, to start speaking and using the language. Contrary to a popular misconception, communicative English is not just about conversation, it introduces students to tools that enable them to start speaking the language while encouraging them to study and improve their grasp of grammar and vocabulary. The
biggest disadvantage of the method is students can get lazy and develop bad habits if they do not practice and expand on what is taught in class.

**Personal**

The first lesson will encourage students to introduce and describe themselves in simple language. This will cover general information such as name, native place, school(s) attended etc. Participants will be asked to read out and complete simple sentences;

"My name is ____________________. I was born at ___________________. I went to _______________________________ School. At present, I live at _______________________________ with my_________________________________.

[Mother/father/brother/sister(s)/grandparent(s)/husband/child (ren)]"

The goal of this lesson is to get students to start using the English language. This session will also lead to interactions in future lessons.

**Interpersonal**

The next lesson will encourage students to hold a simple conversation with another person or persons. This will include appropriate greetings, asking questions, making requests and giving directions. Students will be asked to respond to situations requiring the use of "Hello, Good morning/afternoon/evening/night, Please, Thank you, May I..., etc." in person and over the telephone. Students will also be taught the importance of simplicity and clarity in answering questions relating to directions, time etc. The goal of this lesson is to get students used to conversing in simple English, and aid in daily tasks such as answering the phone, interacting with customers, getting and giving directions etc.

**Directive**

Students will be asked to participate in simple scenarios that involve asking others to do things.

"Please sit down. Open the door for me, please. Can you tell me the time?"

This is a continuation of the previous lesson in that it requires interaction, but here, the goal is to get the listener to complete a task.

**Referential**

In this lesson, students will be asked to describe an event from their lives, describe a picture or a short video clip and participate in "what happens next" exercises. The goal of this exercise is to introduce students to the practice being creative and also simultaneously expressing those creative thoughts in English. This will be carried forward in the next lesson as well.

**Imaginative**

In this lesson, the students will be asked to talk about imagined scenarios, made up on the spot by themselves. They will also be asked to translate their favourite pieces of literature or music into English. The goal of this exercise is to push the limits of the students' vocabulary and encourage them to expand it.
Practical Sessions

Lesson 1:

Students will be given prompts with simple, incomplete, sentences in English, along with a Malayalam translation. They will be asked to fill in the blanks / complete the sentences.

Lesson 2:

Role playing scenarios involving, students and instructors or groups of students, Students may answer in Malayalam and then translate into English.

Lesson 3:

Role playing scenarios amongst students, Prompts will be given in Malayalam.

Lesson 4:

Images or video clips will be shown and students will be asked to describe the scene, answer questions or discuss what happens next.

Lesson 5:

Students will be asked to narrate a short story or translate a story, a recipe or music into English.

Activity Corner

1. Name the various members of your family and your relation to them (one line per family member)
2. Describe the shortest way to reach the hospital from the railway station, using the given map.
3. Name your three favourite movies from the past year, and reasons for why you like them.
4. Describe your favourite recipe in English. Names for common ingredients are given.
The art of communication is the language of leadership
Definition of Language

The method of human communication, either spoken or written, consisting of the use of words in a structured and conventional way. India is linguistically diverse country. Starting from Jammu - Kashmir in north to Kanyakumari in south and Gujarat in West to Arunachal Pradesh in east, people speak different languages and dialects. As you all know “A different language is a different vision of life”. Hindi language is considered as Official Language of India.

Importance of Hindi Language

- National and Official Language of India
- Most commonly spoken language in India
- Important role in establishing Unity in Diversity
- Second most spoken language in the world after Mandarin

Skill Development is very important for learning language. During the first session of “Official Language” class written skill development was stressed and speaking skill was discussed during the second session.

Speaking Skill Development

The quality of your life depends upon the quality of your communication. Speaking is an interactive process of constructing meaning that involves producing and receiving and processing information. The four language skills of listening, speaking, reading, and writing are all interconnected. Proficiency in each skill is necessary to become a well-rounded communicator, but the ability to speak skillfully provides the speaker with several distinct advantages. The capacity to put words together in a meaningful way to reflect thoughts, opinions, and feelings is important for speaking skill development. For communicating with others good speaking skills is essential. During the second session for improving speaking skills, first a self – introduction in Hindi was shown through PowerPoint presentation which will help them to face an interview. Speaking Sills are essential for career success. In order to familiarize with common words with different meanings in Malayalam and Hindi, examples are shown and copy of the same was distributed.

Written Skill Development

As we all know Hindi is our National Language, Official Language and most popular language also. Popularity of Hindi is increasing day by day through media and movies. Due to the migration of laborers from Hindi speaking belt to South India now a day’s popularity of this language increased in Kerala also. People in Kerala are aware of Hindi, because Hindi is a compulsory language they study in school level.
Writing skill is an important part of communication. Good writing skills allow you to communicate your message with clarity and ease to a far larger audience than through face-to-face or telephone conversations. You might be called upon to write a report, plan or strategy at work. And, of course, a well written CV or Resume with no spelling or grammatical mistakes is essential if you want a new job. During the session commonly used words in Hindi such as fruit’s name, flower’s name and commonly used sentences etc were discussed and copy of the same were distributed to familiarize them with Hindi language. In order to improve their writing skill exercises were given in the class by including Hindi words taught during the class.
### पक्षियों के नाम / Bird’s Name

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<tr>
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<td>मुर्गा</td>
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### जानवरों के नाम / Animal’s Name

<table>
<thead>
<tr>
<th>जानवर</th>
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<tbody>
<tr>
<td>कुत्ता</td>
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<td>चूहा</td>
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</table>
126 The most important thing in communication is hearing what isn’t said
<table>
<thead>
<tr>
<th>अंकः</th>
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<tr>
<td>आठ</td>
<td>दशमांस</td>
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<tr>
<td>दश</td>
<td>चावांस</td>
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### Parts of the Body / शरीर के अंग

<table>
<thead>
<tr>
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</thead>
<tbody>
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<tr>
<td>आँख</td>
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<td>छाती</td>
</tr>
</tbody>
</table>

### Activity Corner

अभ्यास

पूरा करो / कृपया करें

1. मछली ................... में रहती हैं. (वायु, पेड़, पानी, मिट्टी)
2. केला एक भीठा ................... है. (पुष्प, पता, कल, रंग)
3. बोर ..................... है. (गाता, नाचता, उड़ता, तैरता)
4. ........................ सनुद्र की ओर बहती हैं. (जंगल, वायु, तरी, हवा)
5. सूरज ........................ को उठता हैं. (शाम, रात, मध्याहरू, घुड़)
6. गाय ........................ देती हैं. (धाय, तृप्त, पानी, चाश)
7. सीता ........................ से लिखती हैं. (कागज, कलम, केला, पता)
8. मुर्गी ........................ देती हैं. (इंडा, झंडा, अंडा, मोठा)
9. आकाश का रंग ........................ हैं. (लाल, नील, पीला, काला)
10. भारत हमारा ........................................ है. (राज्य, देश, स्थल, जीमीन)
11. .................................. छुट्टी का दिन है. (सोमवार, गुरुवार, मंगलवार, रविवार)
12. हम .................................... से सागान खरीदते हैं. (स्कूल, दुकान, मंदिर, कार्यालय)
13. भारत का देशीय पुष्प ................................. है. (आंग्रेज़, चक्राल, कमल, गुलाब)
14. प्रधान मंत्री की नयी योजना है ........................... (स्वतंत्र भारत, स्वच्छ भारत, स्वस्थ भारत, सुन्दर भारत)
15. केरल का पश्चिम भाग में .................................. है. (बंगाल समुद्र, अरब सागर, पश्चिम समुद्र, इंडियन महा समुद्र)

16. हिन्दी और मलयालम में सामान्य उच्चारित पदों के अर्थ भेद

<table>
<thead>
<tr>
<th>क्रम सं.</th>
<th>शब्द</th>
<th>मलयालम अर्थ</th>
<th>हिन्दी अर्थ</th>
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<tr>
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<td>अनुपाद</td>
<td>Permission</td>
<td>Translation</td>
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<tr>
<td>2.</td>
<td>अनुमोदन</td>
<td>Congratulation</td>
<td>Approval</td>
</tr>
<tr>
<td>3.</td>
<td>अवेशा</td>
<td>Application</td>
<td>Requirement</td>
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<tr>
<td>4.</td>
<td>अवक्षेि</td>
<td>Holiday</td>
<td>Leave</td>
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<td>5.</td>
<td>कलम</td>
<td>Pot</td>
<td>Pen</td>
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<td>6.</td>
<td>शिक्षा</td>
<td>Punishment</td>
<td>Education</td>
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<tr>
<td>7.</td>
<td>नाक</td>
<td>Tongue</td>
<td>Nose</td>
</tr>
<tr>
<td>8.</td>
<td>छोर</td>
<td>Rice</td>
<td>Thief</td>
</tr>
<tr>
<td>9.</td>
<td>आलोचना</td>
<td>Thinking</td>
<td>Criticism</td>
</tr>
<tr>
<td>10.</td>
<td>नीति</td>
<td>Justice</td>
<td>Policy</td>
</tr>
</tbody>
</table>

The most important thing in communication is hearing what isn’t said
Public Speaking Skills
Shyam S. Salim* and Irene Elizabeth Joy
Senior Scientist, SEETTD, CMFRI, Cochin
Email*: shyam.icar@gmail.com

Introduction

Public speaking (sometimes termed oratory or oration) is the process or act of performing a presentation (a speech) focused around an individual directly speaking to a live audience in a structured, deliberate manner in order to inform, influence, or entertain them. Public speaking is commonly understood as the formal, face-to-face talking of a single person to a group of listeners. It is closely allied to "presenting", although the latter is more often associated with commercial activity. Most of the time, public speaking is to persuade the audience.

Relevance

Even if you don't need to make regular presentations in front of a group, there are plenty of situations where good public speaking skills can help you advance your career and create opportunities.

For example, you might have to talk about your organization at a conference, make a speech after accepting an award, or teach a class to new recruits. Speaking to an audience also includes online presentations or talks; for instance, when training a virtual team, or when speaking to a group of customers in an online meeting.

Good public speaking skills are important in other areas of your life, as well. You might be asked to make a speech at a friend's wedding, give a eulogy for a loved one, or inspire a group of volunteers at a charity event.

In short, being a good public speaker can enhance your reputation, boost your self-confidence, and open up countless opportunities.

However, while good skills can open doors, poor ones can close them. For example, your boss might decide against promoting you after sitting through a badly-delivered presentation. You might lose a valuable new contract by failing to connect with a prospect during a sales pitch. Or you could make a poor impression with your new team, because you trip over your words and don't look people in the eye.

Make sure that you learn how to speak well!

Strategies for Becoming a Better Speaker

The good news is that speaking in public is a learnable skill. As such, you can use the following strategies to become a better speaker and presenter.

1. Plan Appropriately

First, make sure that you plan your communication appropriately. Think about how you'll structure what you're going to say. When you do this, think about how
important a book's first paragraph is; if it doesn't grab you, you're likely going to put it down. The same principle goes for your speech: from the beginning, you need to intrigue your audience.

For example, you could start with an interesting statistic, headline, or fact that pertains to what you're talking about and resonates with your audience. You can also use story telling as a powerful opener.

Planning also helps you to think on your feet. This is especially important for unpredictable question and answer sessions or last-minute communications.

2. Practice

There's a good reason that we say, "Practice makes perfect!" You simply cannot be a confident, compelling speaker without practice. To get practice, seek opportunities to speak in front of others. If you're going to be delivering a presentation or prepared speech, create it as early as possible. The earlier you put it together, the more time you'll have to practice.

Practice it plenty of times alone, using the resources you'll rely on at the event, and, as you practice, tweak your words until they flow smoothly and easily. Then, if appropriate, do a dummy run in front of a small audience: this will help you calm your jitters and make you feel more comfortable with the material. Your audience can also give you useful feedback.

3. Engage With Your Audience

When you speak, try to engage your audience. This makes you feel less isolated as a speaker and keeps everyone involved with your message. If appropriate, ask leading questions targeted to individuals or groups, and encourage people to participate and ask questions.

Keep in mind that some words reduce your power as a speaker. For instance, think about how these sentences sound: "I just want to add that I think we can meet these goals" or "I just think this plan is a good one." The words "just" and "I think" limit your authority and conviction. Don't use them. A similar word is "actually," as in, "Actually, I'd like to add that we were under budget last quarter." When you use "actually," it conveys a sense of submissiveness or even surprise. Instead, say what things are. "We were under budget last quarter" is clear and direct.

Finally, avoid reading word-for-word from your notes. Instead, make a list of important points on cue cards, or, as you get better at public speaking, try to memorize what you're going to say – you can still refer back to your cue cards when you need them.

4. Pay Attention to Body Language

Pay attention to your body language: stand up straight; take deep breaths, look people in the eye, and smile. Don't lean on one leg or use gestures that feel unnatural.
If you're nervous, you might talk quickly. This increases the chances that you'll trip over your words, or say something you don't mean. Force yourself to slow down by breathing deeply. Don't be afraid to gather your thoughts; pauses are an important part of conversation, and they make you sound confident, natural, and authentic. Many people prefer to speak behind a podium when giving presentations. While podiums can be useful for holding notes, they put a barrier between you and the audience. They can also become a "crutch," giving you a hiding place from the dozens or hundreds of eyes that are on you.

Instead of standing behind a podium, walk around and use gestures to engage the audience. This movement and energy will also come through in your voice, making it more active and passionate.

5. Think Positively

Positive thinking can make a huge difference to the success of your communication, because it helps you feel more confident. Fear makes it all too easy to slip into a cycle of negative self-talk, especially right before you speak, while self-sabotaging thoughts such as "I'll never be good at this!" or "I'm going to fall flat on my face!" lower your confidence and increase the chances that you won't achieve what you're truly capable of. Use affirmations and visualization to raise your confidence. This is especially important right before your speech or presentation. Visualize giving a successful presentation, and imagine how you'll feel once it's over and when you've made a positive difference for others. Use positive affirmations such as "I'm grateful I have the opportunity to help my audience" or "I'm going to do well!"

6. Cope with Nerves

How often have you listened to or watched a speaker who really messed up? Chances are, the answer is "not very often."

When we have to speak in front of others, we can envision terrible things happening. We imagine forgetting every point we want to make, passing out from our nervousness, or doing so horribly that we'll lose our job. But those things almost never come to pass! We build them up in our minds and end up more nervous than we need to be.

Many people cite speaking to an audience as their biggest fear, and a fear of failure is often at the root of this. Public speaking can lead your "fight or flight" response to kick in: adrenaline courses through your bloodstream, your heart rate increases, you sweat, and your breath becomes fast and shallow.

First, make an effort to stop thinking about yourself, your nervousness, and your fear. Instead, focus on your audience: what you're saying is "about them." Remember that you're trying to help or educate them in some way, and your message is more important than your fear. Concentrate on the audience's wants and needs, instead of your own.
7. Watch Recordings of Your Speeches

Whenever possible, record your presentations and speeches. You can improve your speaking skills dramatically by watching yourself later, and then working on improving in areas that didn’t go well.

As you watch, notice any verbal stalls, such as "um" or "like." Look at your body language: are you swaying, leaning on the podium, or leaning heavily on one leg? Are you looking at the audience? Did you smile? Did you speak clearly at all times? Pay attention to your gestures. Do they appear natural or forced? Make sure that people can see them, especially if you’re standing behind a podium.

Last, look at how you handled interruptions, such as a sneeze or a question that you weren’t prepared for. Does your face show surprise, hesitation, or annoyance? If so, practice managing interruptions like these smoothly, so that you’re even better next time.

SUMMARY

Key Points
Chances are that you’ll sometimes have to speak in public as part of your role. While this can seem intimidating, the benefits of being able to speak well outweigh any perceived fears. To become a better speaker, use the following strategies:

- Plan appropriately.
- Practice.
- Engage with your audience.
- Pay attention to body language.
- Think positively.
- Cope with your nerves.
- Watch recordings of your speeches.

If you speak well in public, it can help you get a job or promotion, raise awareness for your team or organization, and educate others. The more you push yourself to speak in front of others, the better you’ll become, and the more confidence you’ll have.
‘The journey of a thousand miles begins with a single step’-Lao Tzu

Our lifestyles have undergone a sea change with the advancement in technology especially in the field of computers. Computers are an integral part of our lifestyles today and are found at offices, banks, homes, schools, colleges, hotels, shops etc. This advance in technology has made our lives easy and comfortable. For instance, we can execute a number of activities using computer based systems- we can write a draft on word processor and email it, make calculations using an electronic spread sheet and incorporate graphics, create a database of friends with their phone numbers, addresses and e-mail ids etc. This chapter gives overview of components of computer, different types of input and output devices, different types of memory, classification of computer, various computer generations, different types of computer languages and various applications in today's arena.

Computer is an electronic device that takes raw data as input from the user and processes these data under the control of set of instructions (called program) and gives the result (output) and saves output for the future use. The three main building blocks in a computer’s functioning are input, processor and output (fig.1.)

The data is entered through input devices like the keyboard, disks or mouse. These input devices help convert data and programs into the language that the computer can process. The process that the computer does on the input data goes into the main part of the computer called Central Processing Unit (CPU). The processed data is sent to the output device. Output devices translate the processed information from the computer into a form that we can understand.
Computers are useless: they can only give you answers

Components of Computer System

**Input:** This is the process of entering data and programs into the computer system. A large number of input devices are available that can be used to enter information directly into the computer. Most commonly used input devices are keyboard and mouse. Image scanner joystick, light pen, track ball, webcam, audio input device like microphone etc. are some of the devices used to input information to computer.

**Process:** CPU is the brain of the computer. The CPU does the processing of the input data and instructions. It also controls the functions of all the components attached to it. Besides this, CPU is the place where the memory of the computer is present. CPU is made up of Arithmetic & Logic unit, control unit and memory unit.

<table>
<thead>
<tr>
<th>Arithmetic and Logic Unit</th>
<th>Control Unit</th>
<th>Memory Unit</th>
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</thead>
<tbody>
<tr>
<td>• is capable of performing addition, subtraction, division and multiplication as well as operations like comparisons.</td>
<td>• controls all the operations of a computer based on the instructions received from the input devices.</td>
<td>• stores the data and instructions temporarily for processing.</td>
</tr>
</tbody>
</table>

**Output:** This is the process of producing results from the data for getting useful information. Monitors, commonly called as Visual Display Unit (VDU), are the main output device of a computer. Printer is another output device, which is used to print information on paper.

**Memory:** We remember words, faces, names or the lessons we read, because we have a memory. A computer also has a memory. It can remember data and instructions. The data and instructions are stored in its memory. Different types of memory are detailed below.

Primary memory is the internal memory of the CPU. This memory can be quickly accessed by the CPU. Primary memory is of two types – Read Only Memory (ROM) and Random Access Memory (RAM). RAM is the temporary storage memory, which is volatile i.e., when the computer is turned off both data and instructions get lost.
from the RAM. ROM is permanent in nature and non-volatile. As the name suggests, computer can only read the data and instructions from it, but cannot make any changes to it. These instructions remain permanently in the computer, even when the computer is switched off.

Secondary memory refers to storage devices that cannot be accessed directly by the CPU. These storage devices store data and instructions permanently. The input and output can be stored for later use in storage devices. Hard disk, CD-ROM, DVD, flash drive are examples of storage devices.

Cache memory is now part of a computer. It is a high speed memory used for temporarily storing the most frequently used data and instructions. It can be accessed more quickly than a regular RAM in computer.

**Generations of computers**

Using size and features as the bases, computers are classified into various generations. There are totally five computer generations known till date.

<table>
<thead>
<tr>
<th>Generation</th>
<th>Period &amp; Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>1946-1959, Vacuum tube</td>
</tr>
<tr>
<td>Second</td>
<td>1959-1965, Transistor</td>
</tr>
<tr>
<td>Third</td>
<td>1965-1971, Integrated Circuit</td>
</tr>
<tr>
<td>Fourth</td>
<td>1971-1980, VLSI Microprocessor</td>
</tr>
<tr>
<td>Fifth</td>
<td>1980-onwards, ULSI microprocessor</td>
</tr>
</tbody>
</table>

**Types of computers**

Computers can be classified in a variety of ways depending upon their physical size, processing speed, storage capacity, cost and ability to get connected to other computers and input or output devices. Various types of computers are discussed in this section.

**Analogue computers:** The varying quantities like temperature, air pressure, weight etc. are converted by analogue computers into varying voltages and then these voltages become input to the analogue computers. Today analogue computers are used for industrial process control.

**Digital computers:** Computers that process digital signals are known as Digital Computers. The Digital signal is a discrete signal with two states 0 and 1. In practice, the digital computers are used and not analogue. Examples of digital computers are personal computers, supercomputers, mainframe computers etc.
The computer performs its functions based on the instructions given by the user. The set of such instructions written for a particular task is known as a computer program. Program is the set of instructions that tells the computer how to process the data into the form desired by the user. The language in which a computer program is written is known as programming language. Computer can process information only in the form of a series of numbers. So, all information and instructions given to a computer must finally reach it in a special language which consists of numbers only. The language of numbers is called machine language. This was the first computer language. In the first generation of computers, all instructions and data had to be fed in this language. This was an extremely difficult task and could be done by an expert only. Later, a number of other computer languages are developed and used in different generations of computers. Third generations of computer languages are known as high-level languages. Today you do not even need the knowledge of a computer language to work on the computer. The graphic environment makes working on the computer very simple. You only have to select and click icons to start using applications. Computers have now become extremely user-friendly and can be used by anyone with very little knowledge of computers.

**Advantages of computers**

Compared to traditional systems, computers offer many noteworthy advantages. This is one reason that traditional systems are being replaced rapidly by computer-based systems. The main advantages offered by computers are High Accuracy, Superior speed of operation, large storage capacity, User-friendly features, portability and platform independence.
Applications of Computers

Now let us look into some of the applications of computers in today’s arena in various fields.

**Business**: computer is an integrated part in all business organisations and used for Payroll calculations, Budgeting, Sales analysis, Financial forecasting, Managing employees database, Maintenance of stocks etc.

**Banking**: Today banking is almost totally dependent on computer. Banks provide facilities on online accounting facility, which includes current balances, deposits, overdrafts, interest charges, shares, etc. ATM machines are making it even easier for customers to deal with banks.

**Insurance**: Insurance companies are keeping all records up-to-date with the help of computers. Insurance companies maintains a database of all clients with information showing procedure to continue with policies, starting date of the policies, next due installment of a policy, maturity date, interests due, survival benefits, bonus etc.

**Education**: The computer has provided a lot of facilities in the education system. The computer provides a tool in the education system. There are number of methods in which educational institutions can use computer to educate the students. It is used to prepare a database about performance of a student and analysis is carried out on this basis.

**Advertising**: With computers, advertising professionals create art and graphics, write and revise copy, and print and disseminate ads with the goal of selling more products.

Online Shopping - shopping has been made possible through use of computerised catalogues that provide access to product information and permit direct entry of orders to be filled by the customers.

**Health Care**: Computers have become important part in hospitals, labs, and dispensaries. The computers are being used in hospitals to keep the record of patients and medicines. It is also used in scanning and diagnosing different diseases. ECG, EEG, Ultrasounds and CT Scans etc. are also done by computerised machines.

**Engineering Design**: Computers are widely used in engineering purpose. One of major areas is CAD (Computer aided design) that provides creation and modification of images. Some fields are Structural Engineering, Industrial Engineering, and Architectural Engineering.

**Military**: Computers are largely used in defence. Modern tanks, missiles, weapons etc. Military also employs computerised control systems.

**Communication**: Communication means to convey a message, an idea, a picture or speech that is received and understood clearly and correctly by the person for whom it is meant for. Some main areas in this category are: E-mail, chatting, file transfer protocol, video-conferencing.

**Government**: Computers play an important role in government. Some major fields in this category are: budgets, sales tax department, income tax department, computerization of voters lists, weather forecasting etc.
Computer is an electronic machine that can store, organise and find information, do calculations and control other machines.

A computer system exhibits four characteristics: speed, precision, reliability and memory.

Information and the instructions given to the computer are the input. Eg., keyboard, mouse, scanner

Input is processed in the CPU of the computer. CPU is the brain of the computer. It is made up of ALU, memory unit and control unit.

Result obtained by the computer is the output. It is obtained on output devices. Eg., monitor, printer

ROM stands for Read Only Memory and it stores data and instructions permanently.

RAM or Random Access Memory stores data and instructions temporarily.

Devices that store data and programs permanently are called secondary storage devices. Eg., Hard disk, flash drive, CD-ROM, DVD etc.

Computers are classified as Super Computer, Mainframe computer, Minicomputer and Personal Computer.
Introduction to Internet

Internet is a worldwide system of interconnected computer networks. It connects several millions of computers all over the world. There is no central computer. All computers are placed at different places and are connected to each other by phone lines, cables or wireless connections. Any two computers connected to the internet can exchange information. The internet is therefore a very fast and efficient way of sending information. According to recent statistics, there is an estimated 3,179,035,200 internet users worldwide. The number of Internet users represents nearly 40 per cent of the world's population. The largest number of Internet users is in China, followed by the United States and India.

This chapter is organized as follows. It gives an introduction to internet and its applications in day to day life followed by basic requirements for connecting to internet. Subsequently a brief on World Wide Web, Web browsers, search engines, online safety measures are given. Lastly, a step by step procedure for creating e-mail ID is given in the chapter.

Internet has been the most beneficial technology of the modern times which supports us not only in our daily lives, but also our personal and professional lives developments. The internet helps to attain this in several ways. Emails, blogging, chatting are the modern ways of communication. All the information you want regarding anything is now just a click away. E-marketing, e-business, e-commerce and internet shopping are becoming popular really fast. To make sure your search for the required information is fast and smooth, search engines are created, that can open up a diverse range of websites, loaded with information that you may need. The internet is therefore the largest encyclopedia for everyone, in all age categories. Movies, music, videos and games are all available for your entertainment. The top 5 most popular websites in the world are: Google, Facebook, YouTube, Yahoo, and Baidu (basically the Chinese version of Google).
To connect to internet, computer/mobile, communication channel, modem, browser and Internet Service Provider are needed. Computer is the most common device used to access the internet. A communication channel, such as a telephone line, a cable or a wireless signal (WiFi) is required to connect to internet. A modem, which is a hardware device that converts computer information into a suitable form, is needed for sending over the communication channel. It allows us to communicate with other computers.

A software called browser helps to display the text and graphics available in a webpage on your computer. Google chrome, internet explorer, Mozilla Firefox are some of the popular browsers. An Internet Service Provider (ISP) such as BSNL, Idea, Airtel is required to provide connections to homes and offices.

**World Wide Web**

The fastest growing area of internet is World Wide Web (WWW). The web enables you to access information stored in computers connected to the internet. Web consists of millions of websites. Most of these websites are divided into pages called web pages. There is one main page or starting page called as Home page. You can go to any other page in the site from the Home page. The links to other pages are called hyperlinks. They are not limited to pages in the sites you are in. Some hyperlinks on a page may take you to page on another site on another computer. Thus hyperlinks can take you on a worldwide tour of connected pages in different computers containing related information. Moving from one site to another on WWW is called surfing the Net. HTTP protocol (hypertext transfer protocol) is one of the ways to transmit data in the web. It also utilizes special software called browsers to access websites and their graphics, sounds and animations. Google Chrome, Internet Explorer and Mozilla Firefox are popular browsers.

**Searching for information**

The internet provides easy access to new and varied information. Each site on the internet has a unique address. This unique address is known as URL (Uniform Resource Locator). A URL indicates the location of the website on the web. If you want to access the site, type in the URL on the Address bar of the web browser and press Enter. In a few seconds the Home Page of the site will appear on the screen. So the information about the link is provided to the browser by the URL. There are typically four main parts to a URL or web address. Let’s look at the example below.

http://www.cmfri.org.in/

(a) The http:// helps your web browser to locate the webpage or website and to display it for you to see. Most browsers will automatically add this prefix, so you don’t have to worry about typing it every time.
(b) The www stands for World Wide Web. This means that the page you're looking for is somewhere on the World Wide Web. For some websites, it’s not even necessary to type in the “www” part.
(c) The next section, which is “cmfri” in this example, is the name of the webpage or website. It is flanked by dots on either side which separate it from other sections of the web address.
(d) The .org .in here is the top level domain name. A domain name is an identification label that defines a realm of administrative autonomy, authority, or control in the Internet. .org means sites belonging to non-profit organisation, .in means the Internet country code for India. Some common domains are, .com (means that you’re looking at a commercial site, or a site that someone has paid to use) .edu (sites for educational institutions) and .gov (sites sponsored by state or central government).

Sometimes you may not know the URL of any website that provides the information, then special programs called search engines can be used to find out the sites. A search engine searches for the keywords specified by the user. It is especially used to find particular site on the internet. Google is the most popular search engine in the world. 79% of internet users use Google as their search engine, followed by Bing (9%), Yahoo (8%), and Ask.com (1.5%). Google is pretty much simple search box. As you begin typing, Google will begin to autosuggest words or phrases which it thinks you might be searching for. Once you do a search, you’ll be taken to a new page with results for your search keyword(s). For instance, if you do a search for internet, you will see the list of results for the search “internet.” At the top of the page on the far right you will notice it says “Results 1-10 of about...” That means that results displayed on the page right now are just the first 10 of however many total results there were for your keyword.

**Internet Safety**

Worms, trojans, spammers, phishers and viruses are funny-sounding names, but these are part of the dark side of the internet and the consequences aren’t very funny. These are programs designed to infect your computer without your knowledge and they can slow down your computer, spy on you, or possibly even destroy data and cause your computer to “crash” (or stop working). Internet fraud is also something to be concerned about.
Phishing and other scams can cost you time, aggravation, money or even steal your identity. The fact is, the internet can be fun, entertaining, educational, and many other wonderful things, but anyone can be on the internet, and that includes malicious people and criminals as well as good people. In order to be safe online, it's important for you to be aware of the dangers. If you are using a computer, always be sure to run current, updated antivirus software to help protect yourself from the many different types of computer viruses and other malware. You can also help yourself stay protected from viruses by not opening any emails (especially email attachments) that seem strange or are from people you don't know. To protect yourself scam or theft, avoid giving out personal information on the internet, Think carefully before posting pictures or videos of yourself, never give out your passwords and don't befriend people you don't know. Internet safety is an on-going process that you should continue to educate yourself about.

Creating an E-Mail Account

Email, short for Electronic Mail, is a component of internet. It is a fast and economic way of sending messages to individuals and groups of people. Messages can include text, pictures or animations.

This section discusses on creation and accession of an email account, opening and reading of received mails and composing and sending mails. Several sites on the internet allow you to create an email account and send and receive email and attachments for free, for example gmail.com, hotmail.com, rediff.com, yahoo.com. This session focus on the services available through Gmail as it is free and is the most popular email service available today.

E-Mail Address

To send or receive an email, you must have an email address. This address is unique in nature and it has two important parts. The first part is the ‘user name’ and the other is the ‘domain name’. These two are separated by a special symbol @. The domain name can be same for lots of people. For example cmfri@gmail.com and cmfri1@gmail.com are two addresses with the same domain name gmail.com. But the user names cmfri and cmfri1 are different and hence the addresses are different.

Setting up an email account

1. Connect to the Internet by double-clicking the Google chrome, Internet Explorer or Firefox desktop icon.
2. Go to the Gmail site by typing gmail.com into the address bar at the top of the screen, and press the Enter key on your keyboard.
3. You should see a screen that looks like this:
4. Click on the Create an Account link at the bottom of the box and following window will be displayed. Complete all starred information in the form, beginning with the Get Started section. Finally, you have to agree to the Terms of Service. Read through the text, and then click "I Agree." So now you have created an email account and your email address is your Google Login Name followed by "@gmail.com."

Checking Your Email

Once you have set up your email account, you can check your mail anywhere that you can access the Internet. For this follow the steps given below.

1. Connect to the Internet by double-clicking the Google chrome, Internet Explorer or Firefox icon.
2. Go to the Gmail site by typing gmail.com into the address bar at the top of the screen.
3. Type your Google Login Name and Password into the box on the right.
4. The next page will show you the number of new messages in your Inbox.

The inbox is where all of your incoming messages are stored. Click on the subject of the message to open and read it.

Composing and Sending Messages

To create a new message, click the Compose button on the top left side of the screen. Type the email address of the person(s) to whom you wish to send the email in 'To'. Once you have completed your message, send it by clicking on the Send button at the bottom of the window.

Gmail Help

For any help in connection with Gmail, Help link is given at the top right corner of the Gmail page.
Summary

- Internet is a worldwide system of interconnected computer networks.
- Computer/mobile, communication channel, modem, browser and Internet Service Provider are needed to connect to internet.
- A software called browser helps to display the text and graphics available in a webpage on your computer. Google chrome, internet explorer, Mozilla Firefox are some of the popular browsers.
- An Internet Service Provider (ISP) such as BSNL, Idea, and Airtel is required to provide connections to homes and offices.
- WWW enables to access information stored in computers connected to the internet. Web consists of millions of websites.
- Moving from one site to another on Web is called surfing the Net.
- Each site on the internet has a unique address. This unique address is known as URL.
- E-mail is an internet facility that helps to send messages to individuals and groups.
Word, Excel and Power Point

Microsoft Office is a productivity suite which integrates office tools for personal and professional use. It includes a wide range of basic and advanced features that can help you to perform any task in a fast, efficient and productive way. The Microsoft Office suite is an essential collection of desktop applications that includes Word for documents, Excel for spreadsheets, and PowerPoint for presentations. Apart from this, it integrates some other utilities such as Outlook, Access, Publisher and OneNote. With Microsoft Office, you can create impressive projects, from multi-media presentations to multi-page biographies.

Word

Word 2010 is a word processing application in the Microsoft 2010 Office suite that lets you easily create professional-looking documents using various themes, visual designs, formatting tools, and sharing features.

Creating and Opening Documents

Word files are called documents. When you start a new project in Word, you'll need to create a new document, which can either be blank or from a template. You'll also need to know how to open an existing document.

To create a new blank document:
1. Click the File tab.
2. Select New.
3. Select Blank document under Available Templates. It will be highlighted by default.
To open an existing document:

- Click the **File** tab. This takes you to the **Backstage** view.
- Select **Open**. The Open dialog box appears.
- Select your document, and then click open.

**Working with text**

If you're new to Microsoft Word, you'll need to learn the **basics of working with text** so you can type, reorganize, and edit text. You'll need to know how to **insert**, **delete**, and **move text**, as well as how to **find and replace** specific words or phrases.

**To insert text:**

1. Move your mouse to the location where you want text to appear in the document.
2. Click the mouse. The **insertion point** appears.
3. Type the text you want to appear.

**To delete text:**

1. Place the **insertion point** next to the text you want to delete.
2. Press the **Backspace** key on your keyboard to delete text to the left of the insertion point.
3. Press the **Delete** key on your keyboard to delete text to the right of the insertion point.

**To select text:**

1. Place the **insertion point** next to the text you want to select.
2. Click the mouse. While holding it down, drag your mouse over the text to select it.
3. Release the mouse button. You have selected the text. A **highlighted box** will appear over the selected text.

**To copy and paste text:**

1. Select the text you want to copy.
2. Click the **Copy** command on the **Home** tab. You can also right-click your document and select **Copy**.
3. Place your insertion point where you want your text to appear.
4. Click **Paste** command on your **Home** tab. The text will appear.

**To cut and paste text:**

1. Select the text you want to copy.
2. Click the **Cut** command on the **Home** tab. You can also right-click the document and select **Cut**.
3. Place your insertion point where you want the text to appear.
4. Click the **Paste** command on the **Home** tab. The text will appear.
Finding and replacing text

When you’re working with longer documents, it can be difficult and time consuming to locate a specific word or phrase. Word can automatically search your document using the Find feature, and it even allows you to change words or phrases using Replace.

To find text:
1. From the Home tab, click the Find command. The navigation pane will appear on the left side of the screen.
2. Type the text you want to find in the field at the top of the navigation pane.
3. If the text is found in the document, it will be highlighted in yellow, and a preview will appear in the navigation pane.
4. If the text appears more than once, you can click the arrows on the navigation pane to step through the results. You can also click the result previews on the navigation pane to jump to the location of a result in your document.
5. When you close the navigation pane, the highlighting will disappear.

To replace text:
1. From the Home tab, click the Replace command.
2. The Find and Replace dialog box will appear.
3. Type the text you want to find in the Find what field. Type the text you want to replace it with in the Replace with field.
4. Click Find Next and then replace to replace text. You can also click Replace All to replace all instances within the document.

Formatting Text

To create and design effective documents, you need to know how to format text. In addition to making your document more appealing, formatted text can draw the reader’s attention to specific parts of the document and help communicate your message.

Formatted text can emphasize important information and help organize your document. In Word, you have several options for adjusting the font of your text, including size, colour, and inserting special symbols. You can also adjust the alignment of the text to change how it is displayed on the page.

To change the font size:
1. Select the text you want to modify.
2. Click the drop-down arrow next to the Font Size box on the Home tab. A drop-down menu appears.
3. Select the desired font size from the menu. Alternatively, you can type the value you want and then press Enter on your keyboard. You can also use
To change the font:
1. Select the text you want to modify.
2. Click the drop-down arrow next to the Font box on the Home tab. The Font drop-down menu appears.
3. Move the mouse pointer over the various fonts. A live preview of the font will appear in the document.
4. Select the font you want to use. The font will change in the document.

To change the font colour:
1. Select the text you want to modify.
2. Click the Font Color drop-down arrow on the Home tab. The Font Color menu appears.
3. Move the mouse pointer over the various font colors. A live preview of the color will appear in the document.
4. Select the font color you want to use. The font color will change in the document.

Your color choices aren’t limited to the drop-down menu that appears. Select More Colors at the bottom of the list to access the Colors dialog box. Choose the color you want, and then click OK.

To highlight text:
1. From the Home tab, click the Text Highlight Color drop-down arrow. The Highlight Color menu appears.
2. Select the desired highlight color.
3. Select the text you want to modify. It will then be highlighted.
4. To switch back to the normal cursor, click the Text Highlight Color command.

To use the bold, italic, and underline commands:
1. Select the text you want to modify.
2. Click the Bold, Italic, or Underline command in the Font group on the Home tab.

To change text case:
1. Select the text you want to modify.
2. Click the Change Case command in the Font group on the Home tab.
3. Select the desired case option from the list.

To change text alignment:
1. Select the text you want to modify.
2. Select one of the four **alignment options** from the **Paragraph** group on the **Home** tab.
   - **Align Text Left**: Aligns all selected text to the left margin
   - **Center**: Aligns text an equal distance from the left and right margins
   - **Align Text Right**: Aligns all selected text to the right margin
   - **Justify**: Aligns text equally on both sides and lines up equally to the right and left margins

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**How to save documents**

When you create a new document in Word, you'll need to know how to **save** it in order to access and edit it later. Word allows you to save your documents in several ways.

**To use the **Save As** command:**

**Save As** allows you to choose a name and location for your document. It's useful if you've first created a document or if you want to save a different version of a document while keeping the original.

1. Click the **File** tab.
2. Select **Save As**.
3. The **Save As** dialog box will appear. Select the location where you want to save the document.
4. Enter a name for the document, then click **Save**.

   If you're using **Windows 7**, you'll usually want to save files to your **Documents library**, while in other versions of Windows you'll save them to the **My Documents folder**. For more information, check out our lessons on Windows 7 and Windows XP.

**To use the **Save** command:**

1. Click the **Save** command on the **Quick Access toolbar**.
2. The document will be saved in its current location with the same file name.
3. If you are saving for the first time and select **Save**, the **Save As** dialog box will appear.

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**Page layout and formatting**

**Video: Page Layout in Word 2010**

Word offers a variety of **page layout** and **formatting** options that affect how content appears on the page. You can customize
To change page orientation:
1. Select the Page Layout tab.
2. Click the Orientation command in the Page Setup group.
3. Click either Portrait or Landscape to change the page orientation.

To change page size:
1. Select the Page Layout tab.
2. Click the Size command, and a drop-down menu will appear. The current page size is highlighted.
3. Click the size option you want. The page size of the document changes.

Checking spelling and grammar

To make your document appear professional, you’ll want to make sure it is free from spelling and grammar errors. Word has several options for checking your spelling. You can run a spelling and grammar check, or you can allow Word to check your spelling automatically as you type.

To run a spelling and grammar check:
1. Go to the Review tab.
2. Click on the Spelling & Grammar command.
3. The Spelling and Grammar dialog box will open. For each error in your document, Word will try to offer one or more suggestions. You can select a suggestion and click Change to correct the error.
4. If no suggestions are given, you can manually type the correct spelling.

Using shapes

Word’s large shape collection allows you to organize and design the image you want. While you may not need shapes in every document you create, they can add visual appeal. To use shapes effectively, you’ll need to know how to insert a shape and format it by changing its fill color, outline color, and shape style, as well as add 3D effects.

1. Select a shape from the drop-down menu.
2. Click and drag the mouse until the shape is the desired size.
3. Release the mouse button.

To resize a shape:
1. Click the shape to select it.
2. Click and drag one of the sizing handles on the corners and sides of the shape until it is the desired size.
3. To rotate the shape, drag the green handle.
4. Some shapes also have one or more yellow handles that can be used.
to modify the shape. For example, with star shapes you can adjust the
length of the points.

To change the order of shapes:
If one shape overlaps another, you may need to change
the ordering so the correct shape appears in front. You can
bring a shape to the front or send it to the back. If you have
multiple images, you can use Bring Forward or Send
Backward to fine tune the ordering. You can also move a shape in front
of or behind text.
1. Right-click the shape you want to move.
2. In the menu that appears, hover over Bring to Front or Send to
Back. Several ordering options will appear.
3. Select the desired ordering option. The shapes will reorder
themselves.

Text boxes

Text boxes are useful for helping to
organize your document. They are
basically treated the same as shapes,
so when you insert a text box you
can format it by changing its fill
color, outline color, and shape
style, as well as create WordArt and
add 3D effects.
To insert a text box:
1. Select the Insert tab on the
Ribbon.
2. Click the Text Box command in
the Text group. A drop-down
menu will appear.
3. Select Draw Text Box.
Click and drag on the document to create the text box.

MS Excel

Excel is an electronic spreadsheet that
enables you to create worksheets for data
entry, to make calculations and to manage a
database. Excel is also a useful tool when
preparing graphs detailing the results of
your calculations. With Excel, you can
perform many types of financial, statistical
or logical calculations. Excel is easy to use;
it has helpful tools that effectively and
quickly perform calculations that may have
seemed impossible.
Creating and opening
Workbooks

Excel files are called workbooks. Each workbook holds one or more worksheets (also known as spread sheets).

To open an existing workbook:
1. Click the File tab. This takes you to the Backstage view.
2. Select Open. The Open dialog box appears.
3. Select your desired workbook and then click Open.

Introduction to cells and cell content

Cells are the basic building blocks of a worksheet. They can contain a variety of content such as text, formatting attributes, formulas, and functions. To work with cells, you'll need to know how to select them, insert content, and delete cells and cell content.

The cell

Each rectangle in a worksheet is called a cell. A cell is the intersection of a row and a column.

Each cell has a name, or a cell address based on which column and row it intersects. The cell address of a selected cell appears in the name box. Here, you can see that C5 is selected.

You can also select multiple cells at the same time. A group of cells is known as a cell range. Rather than a single cell address, you will refer to a cell range using the cell addresses of the first and last cells in the cell range, separated by a colon. For example, a cell range that included cells A1, A2, A3, A4, and A5 would be written as A1:A5.

To select a cell:
1. Click a cell to select it. When a cell is selected, you will notice that the borders of the cell appear bold, and the column heading and row heading of the cell are highlighted.
2. Release your mouse. The cell will stay selected until you click another cell in the worksheet.

To select multiple cells:
1. Click and drag your mouse until all of the adjoining cells you want are highlighted.
2. Release your mouse. The cells will stay selected until you click another cell in the worksheet.

**Cell content**
Each cell can contain its own text, formatting, comments, formulas, and functions.

- **Text**
  Cells can contain letters, numbers, and dates.

- **Formatting attributes**
  Cells can contain formatting attributes that change the way letters, numbers, and dates are displayed. For example, dates can be formatted as MM/DD/YYYY or M/D/YYYY.

- **Comments**
  Cells can contain comments from multiple reviewers.

- **Formulas and functions**
  Cells can contain formulas and functions that calculate cell values. For example, \texttt{SUM (cell 1, cell 2...)} is a formula that can add the values in multiple cells.

To insert content:
1. Click a cell to select it.
2. Enter content into the selected cell using your keyboard. The content appears in the cell and in the formula bar. You can also enter or edit cell content from the formula bar.

To delete content within cells:
1. Select the cells containing content you want to delete.
2. Click the Clear command on the Ribbon. A dialog box will appear.
3. Select Clear Contents.
   You can also use your keyboard’s Backspace key to delete content from a single cell or the Delete key to delete content from multiple cells.

To delete cells:
1. Select the cells you want to delete.
2. Choose the Delete command from the Ribbon.

To copy and paste cell content:
1. Select the cells you want to copy.
2. Click the Copy command. The border of the selected cells will change appearance.
**Formatting text**

Many of the commands you will use to format text can be found in the Font, Alignment, and Number groups on the Ribbon. **Font** commands let you change the style, size, and color of text. You can also use them to add borders and fill colors to cells. **Alignment** commands let you format how text is displayed across cells both horizontally and vertically. **Number** commands let you change how selected cells display numbers and dates.

*To change horizontal text alignment:*
1. Select the cells you want to modify.
2. Select one of the three horizontal **Alignment** commands on the Home tab.
   - **Align Text Left:** Aligns text to the left of the cell
   - **Center:** Aligns text to the center of the cell
   - **Align Text Right:** Aligns text to the right of the cell

*To change vertical text alignment:*
1. Select the cells you want to modify.
2. Select one of the three vertical **Alignment** commands on the Home tab.
   - **Top Align:** Aligns text to the top of the cell
   - **Middle Align:** Aligns text to the middle of the cell
   - **Bottom Align:** Aligns text to the bottom of the cell.

**Saving workbooks**

When you create a new workbook in Excel, you'll need to know how to **save** it to access and edit it later. Excel allows you to save your documents in several ways.

*Use the Save As command:*
**Save As** allows you to choose a name and location for your workbook. Use it if you are saving a workbook for the first time or if you want to save a different version of a workbook while keeping the original.
1. Click the **File** tab.
2. Select **Save As**.
3. The **Save As** dialog box will appear. Select the location where you want to save the workbook.
4. Enter a name for the workbook, then click **Save**.

**Introduction to worksheets**

Every Excel **workbook** contains at least one or more **worksheets**. If you are working with a large amount of related data, you can use worksheets to help organize
your data and make it easier to work with. When you open an Excel workbook, there are three worksheets by default. The default names on the worksheet tabs are Sheet1, Sheet2, and Sheet3. To organize your workbook and make it easier to navigate, you can rename and even color code the worksheet tabs. Additionally, you can insert, delete, move, and copy worksheets.

**Simple formulas**

Excel can be used to calculate numerical information. We can create **simple formulas** in Excel to add, subtract, multiply, and divide values in a workbook. There are various ways to use **cell references** to make working with formulas easier and more efficient.

A **formula** is an equation that performs a calculation. One of Excel’s most useful features is its ability to calculate using a cell address to represent the value in a cell. This is called using a cell reference.

Creating formulas with cell references

When a formula contains a cell address, it is called a **cell reference**. Creating a formula with cell references is useful because you can update data in your worksheet without having to rewrite the values in the formula.

**To create a formula using cell references:**

1. Select the cell where the answer will appear (B3, for example).
2. Type the equals sign (=).
3. Type the cell address that contains the first number in the equation (B1, for example).
4. Type the operator you need for your formula. For example, type the addition sign (+).
5. Type the cell address that contains the second number in the equation (B2, for example).
6. Press Enter. The formula will be calculated, and the value will be displayed in the cell.

**Basic sorting**

With more than 17 billion cells in a single worksheet, Excel 2010 gives you the ability to work with an enormous amount of data. Arranging your data alphabetically, from smallest to largest, or using other criteria can help you find the information you’re looking for more quickly.

**Sorting** is a common task that allows you to change or customize the order of your spreadsheet data. Custom sorting takes it a step further, giving you the ability to sort multiple levels.

**Filtering data**

Filters can be used to narrow down the data in your worksheet and hide parts of it from view. While it may sound a little like grouping, filtering is different because it allows you to qualify and display only the data that interests you. **Filters** can be
applied in different ways to improve the performance of your worksheet. You can filter text, dates, and numbers. You can even use more than one filter to further narrow your results.

Charts

A chart is a tool you can use in Excel to communicate data graphically. Charts allow your audience to see the meaning behind the numbers, and they make showing comparisons and trends much easier. Excel workbooks can contain a lot of data, and this data can often be difficult to interpret. Excel has various types of charts, so you can choose one that most effectively represents your data.

Types of charts

MS PowerPoint

PowerPoint 2010 is presentation software that allows you to create dynamic slide presentations that can include animation, narration, images, and videos. PowerPoint uses slides to build a presentation. The slides contain the information you want to communicate with your audience. This information can include text, pictures, charts, video, and sound. You can add as many slides as you want to a presentation, and at any time you can view or play back your presentation by selecting one of the slide show play options.

Creating and opening presentations

PowerPoint files are called presentations. When you start a new project in PowerPoint, you’ll need to create a new presentation. To create a new blank presentation:

1. Click the File tab.
2. Select New.
3. Select Blank presentation under Available Templates and Themes. It will be highlighted by default.
4. Click **Create**. A new blank presentation appears in the PowerPoint window.

**To open an existing presentation:**
1. Click the **File** tab. This takes you to **Backstage view**.
2. Select **Open**. The Open dialog box appears.
3. Select your desired presentation, then click **Open**.

**Slide basics**

Every PowerPoint presentation is composed of a series of slides. Slides contain placeholders, which are areas on the slide that are enclosed by dotted borders. Place holders can contain many different items, including text, pictures, and charts. Some placeholders have placeholder text, or text you can replace. They also have thumbnail-sized icons that represent specific commands such as Insert Picture, Insert Chart, and Insert ClipArt.

**Slide layouts**

Placeholders are arranged in different layouts that can be applied to existing slides or chosen when you insert a new slide. A slide layout arranges your content using different types of placeholders, depending on what information you might want to include in your presentation.

**Working with slides**

To insert a new slide:
1. From the Home tab, click the bottom half of the New Slide command to open the menu of slide layout options.
2. Select the slide you want to insert.
3. A new slide will be added your presentation.

To copy and paste a slide:
1. On the **Slides** tab in the left pane, select the slide you want to copy.
2. Click the **Copy** command on the **Home** tab. You can also right-click your selection and choose **Copy**.
3. In the left pane, click just below a slide—or between two slides—to choose the location where you want the copy to appear. A horizontal **insertion point** will mark the location.
4. Click the **Paste** command on the Home tab. You can also right-click and choose **Paste**. The copied slide will appear.

To duplicate a slide:
An alternative to copying and pasting, **duplicating slides** copies the selected slide and—in one step—pastes it directly underneath. This feature does not allow
you to choose the location of the copied slide, nor does it offer Paste Options for advanced users, so it’s more convenient for quickly inserting similar slides.

1. Select the slide you want to duplicate.
2. Click the New Slide command.
3. Choose Duplicate Selected Slides from the drop-down menu.
4. A copy of the selected slide appears underneath the original.

To delete a slide:
1. Select the slide you want to delete.
2. Press the Delete or Backspace key on your keyboard.

To move a slide:
1. Select the slide you want to move.
2. Click, hold, and drag your mouse to a new location. A horizontal insertion point will mark the location.
3. Release the mouse button. The slide will appear in the new location.

Managing slides and presentations

As you add slides to your presentation, PowerPoint offers a variety of views and tools to help you organize and prepare your slide show.

About slide views

It’s important to be able to access the different slide views and use them for various tasks. The slide view commands are located on the bottom-right of the PowerPoint window in Normal view.

Normal view: This is the default view where you create and edit your slides. You can also move slides in the Slides tab in the pane on the left.

Slide Sorter view: In this view, miniature slides are arranged on the screen. You can drag and drop slides to easily reorder them and to see more slides at one time. This is a good view to use to confirm that you have all the needed slides and that none have been deleted.

Reading view: This view fills most of the computer screen with a preview of your presentation. Unlike Slide Show view, it includes easily accessible buttons for navigation, located at the bottom-right.

Slide Show view: This view completely fills the computer screen and is what the audience will see when they view the presentation. Slide Show view has an additional menu that appears when you hover over it, allowing you to navigate slides and access other features you can use during a presentation.

To insert text:
Text can be inserted into both placeholders and boxes text. A placeholder is a kind of text box, but it’s unique because it is part of the slide layout and often contains formatting specific to the slide (a larger font size for the title of your presentation, for example). Inserting an extra textbox allows you to add to the slide layout so you can include as much text as you want.

To resize a placeholder or text box:
1. Click the box you want to resize.
2. Position your mouse over any one of the **sizing handles** that appear on the corners and sides of the box. The cursor will become a pair of **arrows**

3. Click, hold, and **drag** your mouse until the text box is the desired size.

4. Release the mouse button. The box will be resized.

**Formatting text**

You can help your text stand out on the slide by changing its formatting, including font size, color, style and alignment as in Microsoft Word

**Applying a Theme**

A **theme** is a predefined combination of colors, fonts, and effects that can be applied to your presentation to give it a consistent, professional look. PowerPoint includes built-in themes that allow you to easily create professional-looking presentations without spending a lot of time formatting. All of the themes included in PowerPoint are located in the Themes group on the Design tab. Themes can be applied or changed at any time.

*To apply a theme:*

1. Go to the **Design** tab.
2. Locate the Themes group. Each image represents a theme.
3. Click the drop-down arrow to access more themes.
4. Hover over a theme to see a **preview** of it in the presentation. The name of the theme will appear as you hover over it.
5. Click a theme to apply it to the slides.

**Inserting Images**

Adding images to your presentations makes them more interesting and engaging. Pictures, clip art, and screenshots can be inserted into PowerPoint to help you effectively communicate your ideas to your audience.

*To insert an image from a file:*

1. Select the **Insert** tab.
2. Click the **Picture** command in the **Images** group. The Insert Picture dialog box appears.
3. Select the desired image file, then click **Insert**.
4. The picture will appear in your slide.

In a similar manner you can insert clip art and screen shots in your presentation.
Animating Text and Objects

In PowerPoint you can animate text and objects such as clip art, shapes, and pictures. Animation—or movement—on the slide can be used to draw the audience’s attention to specific content or to make the slide easier to read. PowerPoint offers a variety of animations you can use to enhance your presentation. Animations can be used to make text or objects appear on a slide, exit a slide, or emphasize the text or objects already on a slide. You can even use motion paths to create a customized animation.

The four types of animations

There are many different animation affects you can choose from, and they are organized into four types:

- **Entrance:** These control how the object enters the slide. For example, with the Bounce animation, the object will drop onto the slide and then bounce several times.

- **Emphasis:** These animations occur while the object is on the slide and are often triggered by a mouse click. For example, you can set an object to Spin when you click the mouse.

- **Exit:** These control how the object exits the slide. For example, with the Fade animation, the object will simply fade away.

- **Motion Paths:** These are similar to Emphasis effects, except the object moves within the slide along a predetermined path, like a circle.

To apply an animation to an object:

1. Select an object.
2. Click the Animations tab.
3. In the Animation group, click the More drop-down arrow to view the available animations.
4. Select the desired animation effect.

The object will now have a small number next to it to show that it has an animation. Also, in the Slide pane, the slide will now have a star symbol next to it.
Applying transitions

Transitions are motion effects that when in Slide Show view add movement to your slides as you advance from one slide to another. There are many transitions to choose from, each one of which allows you to control the speed and even add sound. A transition can be as simple as fading to the next slide or as complex as a flashy, eye-catching effect. This means you can choose transitions to fit the style of any presentation.

To apply a transition:
1. Select the slide you want to modify.
2. Click the Transitions tab.
3. Locate the Transition to This Slide group. By default, None is applied to each slide.
4. Click the More drop-down arrow to display all of the transitions.
5. Click a transition to apply it to the selected slide. This will automatically preview the transition as well.

Advancing slides

To advance slides automatically:
1. Select the slide you want to modify.
2. Locate the Timing group on the Transitions tab.
3. Under Advance Slide, uncheck the box next to On Mouse Click.
4. In the After field, enter the amount of time you want to display the slide. In this example, we'll advance the slide automatically after 1 minute 30 seconds, or 01:30:00.
5. Select another slide, and repeat the process until all the desired slides have the appropriate timing.

Presentation tools and features

PowerPoint provides convenient tools and features you can use while you are presenting your slide show. Features include changing your mouse pointer to a pen or highlighter to draw attention to items in your slides. In addition, you can jump around to slides in your presentation or access items from your computer desktop if needed.
Saving and printing presentations

When you create a new presentation in PowerPoint, you'll need to know how to save it in order to access and edit it later. PowerPoint allows you to save your presentations in several ways. Once you've created your document, you may want to print it to view and share your work offline. It's easy to preview and print a document in Word using the Print pane.

To use the Save As command:

1. Click the File tab.
2. Select Save As.
3. The Save As dialog box will appear. Select the location where you want to save the presentation.
4. Enter a name for the presentation, then click Save.

To use the Save command:

1. Click the Save command on the Quick Access toolbar.
2. The presentation will be saved in its current location with the same file name.
“Vision is the art of seeing the invisible”
-Jonathon Swift

Visual Communication is the communication through a visual aid and is described as the conveyance of ideas and information in forms that can be read or looked upon. Visual communication relies on vision, and is primarily presented or expressed with two dimensional images, it includes: signs, typography, drawing, graphic design, illustration, Industrial Design, Advertising, Animation colour and electronic resources.

Visual communication takes place through pictures, graphs and charts, as well as through signs, signals and symbols. It may be used either independently or as an adjunct to the other methods of communication.

Visual aids

Visual aids can play a large role in how the audience understands and takes in information that is presented and to bring in variety. There are many different types of visual aids like Objects, Models, Graphs, Maps, Tables, Drawing or Diagrams and Photographs. Photographs are good tools to make or emphasize a point or to explain a topic. Visual aids make presentation interesting by bringing in variety. Multimedia is used everywhere and in every field for every purpose. In the area of education also, the multimedia has a great importance. In schools students learn computers, at the advanced level this knowledge is in the form of professional courses like animation, designing etc. visual image can in many instances be understood by anyone. Some knowledge in these areas will help you to break up the routine when you are bored and stay creative to keep your mind active.

How to take a good photo

Photography begins when you ‘see’ a potential shot. Whether that’s physically looking at a view in front of you or visualizing an image, this is the point when you should start asking yourself questions. What has drawn you to this image? Why do you want...
to capture it? And what is it that you hope to achieve? Thinking the image through before you even reach for your camera will help you decide which lens and focal length you need, the aperture and shutter speed to use and where you need to be to take the shot. It’s all about imagining the picture you want and then working back to determine what you have to do to realize that shot.

What is the need of Photo editing software in Photography?

In Photography photo editing techniques are used to bring out the best in your photos. You can do cropping and straightening a photo, improving its lighting and colour, removing unwanted content, adding special effects, sharpening, and saving. We can make photos special by adding creative effects. Convert a color photo into a customized black and white. Experiment with color tints for an old-fashioned look.

Adobe Photoshop is a raster graphics editor developed and published by Adobe Systems.

Photoshop was created in 1988 by Thomas and John Knoll. Since then, it has become the de facto industry standard in raster graphics editing software. Photoshop has vast support for graphic file formats but also uses its own PSD and PSB file formats which support all the aforementioned features.

Introducing the basics of graphics through Photoshop

Learning Photoshop is a good way to learn imaging concepts. Concepts you learn from working with Photoshop apply to other imaging tools as well (including Photoshop Elements, which has a very similar user interface and features). Photoshop is unlike other common software interfaces which emulate virtual typewriters or graphing paper. Photoshop creates an artist's virtual studio/darkroom. When you open the program you see a toolbox on the left with tools you will use to manipulate your images, and on the right, a white square which is your "canvas" or work area. The gray area surrounding the canvas is not part of your image, but only defines its edges.
Opening a file/Creating a new file

First, you can open the image from the Photoshop file menu. It will be opened in the format it was saved in, so in order to work with it in Photoshop. Another method for getting an image into Photoshop is to copy and paste it into a new file in the application. This is especially useful for saving and altering web graphics or screenshots. Once the image is copied to the clipboard, go to Photoshop and select new from the file menu. A new file dialog will appear asking you to name the file, choose the size, resolution, colour mode, and background. The image size (in pixels) will automatically reflect the size of the image copied to the clipboard. Choose CMYK if this graphic is to be used in print, or RGB for the web. For background, choose transparent (this can always be changed later).

Using the paint brush tool

Select the tool by clicking on the item in your toolbar, as shown below.

Next pick the brush’s size, called the diameter at the top of the screen. Now use the mouse and paint something creative.

Using the text tool to add text

You can add some text to our image by clicking on our Text toolbar item here. After selecting the text tool you can click anywhere on your image and type the word style. Toolbars at the top of the screen have word editing tools like font, size and colour.
Using the move tool

After you finish typing in text, click on the move tool. You can see the move tool circled in the below shot of the toolbar. Use that arrow to click and move your image around.

Notice that the image does not move, it just moves the text. That's because at the moment it's the text layer that is selected.

Image menu

Most basic Photoshop tasks involve the Images menu and the most commonly used items on the Images menu are,

Image Mode

The first item on the image menu is Mode. This is what you use to change the color mode and appearance on the entire image. We discussed RGB, the web mode, and CMYK, the print mode earlier. We have some other choices here, including gray scale and duotone. Some modes' availability depends on the pre-existing color mode.

Adjusting Images

You can see that the adjust option on the images menu give you a lot of different tools for adjusting your image. The most basic types of adjustments you can make
with Photoshop involve colors and brightness. The most simple is the contrast/brightness adjustment. When you select contrast/brightness, you are confronted with a dialog box with a slider for both brightness and contrast. Moving the sliders to the left makes the picture murkier or darker, and moving the sliders to the right brightens and increases the contrast between the dark and light colors in the image. You can play around with both sliders until you get a suitable mix; the change is previewed in the image. This tool is helpful for brightening pictures that were taken in low light. The other adjustments you can make with the options on the adjustments menu are a little more complex, and the best way to learn about them is just to experiment. Because Photoshop allows to preview the adjustments.

**Flattening your image and some background on layers**

Now if you go to above menu, press Layer > Flatten image. All of your layers become merged. No matter how many layers you had, they all become one layer, one image. Use the “arrow” move tool again. Now the whole image moves. Even after the layer is unlocked the image is still in this flattened state and you can’t edit the text or modify the image.

**Resizing your image**

Go to Image > Size and change it. Let’s take a look at this:

![Image Size dialogue box](image)

**Resizing the canvas**

You can do the same thing with the background canvas you are working on. You can enlarge or shrink your workspace. To do this you would go to Image > Canvas Size. Hit this and you will get a similar dialogue box to the image size box. You can see it below. It will not affect your image but if you make the canvas too small some of your image may be hidden. Play around with the size and make your canvas bigger.
Crop function

The Crop function in the image menu is pretty straight forward. Make a selection; go to Image and select crop, and then everything outside you selection disappears. The image size reflects the change.

Layer Management

Layers pane

The layers pane is one of the panes that its best keep visible at all times. If you don't see it when you open Photoshop, go to window>show layers and it will be restored.

The Layers Pane

A note on working with jpeg file copied from other applications: If you've pasted in a jpg image. You'll notice that there is only one layer. If you open a jpg image. This layer will be called "background" and will have a lock icon demonstrating that it is locked. In order to unlock it, double click on the layer name in the payer pane and change the name. The layer is now unlocked. Depending on how you plan to alter this image, it may be a good idea to leave this layer alone, and do your work on other layers.

Adding New Layers

The layers appear in the layers pane as they are organized in the document. To demonstrate this, we'll add a new layer and type a little on it. Go to Layer>and select new layer. Type a name for the layer in the dialog box that appears and hit enter. It should now appear in the layers pane (but since it is currently empty, there will be no sign of it in the image. Select the text tool from the tool bar and click &drag
somewhere on the image (making sure the new layer is still highlighted in blue).

**Selecting Layers**

Select the Type tool and type a little. You can see that the type appears on top of the image now; we'll use these two layers to learn how to use the layers pane.

**Arranging Layers**

Also, you can manually arrange the layers. Click and drag your text layer underneath the original image layer. You'll see that the text no longer appears. That is because it is now located behind the opaque image layer.

**Combining ("Merging") layers:**

Sometimes you'll want to combine the contents of two layers onto one layer. Select the layer you want to be on top of the new merged layer, make sure the other layer you'd like to merger is directly beneath it, and select Merge Down from the Layer menu. The two layers are now one. If you want to merge down an entire file of layers, select "Flatten image" from the layers menu, then all layers will be squashed into one. When you merge or flatten layers that contain text layers, you will be asked whether you’d like to rasterize that text (that is, convert it to an image and lose the ability to edit it). (Copy any layers and hide them before you rasterize and merge. It saves you the work of completely recreating layers if you decide to change text.)

**Ctrl-click for selecting a layer**

To easily select the entire contents of a layer, press ctrl! and click on the preview box for that layer in the layers pane.

**Working With Text in Photoshop**

The tools Photoshop provides for manipulating text are probably its most straight forward features. You just select the **T text tool**, click, and drag, and you are ready to type. Use the options bar to change the style of highlighted text.

**Text styles in the options bar**

When you engage the type tool, what you type automatically **becomes its own layer** and is given what is typed as a layer name. This is a very helpful feature when dealing with multiple text layers. Double click the T to easily edit the text. If you want to merge a text layer with an image layer, the text layer must be rasterized, or converted to an image first. Once this is done, you can no longer edit the text. Unless you are using text in an illustration or altering letters, this may not even be necessary.
Colours and Graphics

The foreground color, which will be applied by tools like the paintbrush, is represented by the top square at in the middle of the toolbar.

Foreground
Background
colours

To change this colour, double click the square. This reveals the color picker, where you can pick a colour with several different methods including RGB values, hexadecimal codes, and by simply selection. If you are making an image for the web, it is best to check the "only web colors" box to ensure that no dithering (reductions in color quality) will take place. Once you have picked your color, click ok, and you are ready to go.

Stroke &Fill

The most basic ways to apply colors to an image are to use Fill and Stroke, both available on the edit menu. Make a selection, and choose fill from the edit menu. A dialog will appear asking you to make some decisions about colors and transparency. Make your selections, and press ok to fill the selection with the chosen color. Stroke operates in much the same manner, though you are given the chance to determine the weight of the lines you create.

Save for Web

When you're working on a .psd, you're likely going to want to eventually to have your file saved as a gif or jpg. In the file menu, you can select "Save for Web," located under save, to do so. When you select it, a new window will open allowing you to make choices about how you want to save and optimize your image. You can select transparency options, matte colours, and file types to apply. This way, you don't need to flatten your .psd just to get a jpg or gif Image.

Playing with filters

To really get a feel for what Photoshop can do, PLAY WITH FILTERS! Just make a selection and try something
from the filters menu. Because you have multiple levels of undo and step backward, you can try some really elaborate combinations of effects.

**Short cut keys used in Adobe Photoshop**

<table>
<thead>
<tr>
<th>Selecting</th>
<th>Layer Shortcuts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Draw Marquee from Center</td>
<td>Alt-Marquee</td>
</tr>
<tr>
<td>Add to a Selection</td>
<td>Shift</td>
</tr>
<tr>
<td>Subtract from a Selection</td>
<td>Alt</td>
</tr>
<tr>
<td>Intersection with a Selection</td>
<td>Shift-Alt</td>
</tr>
<tr>
<td>Make Copy of Selection w/Move tool</td>
<td>Alt-Drag Selection</td>
</tr>
<tr>
<td>Make Copy of Selection when not in Move tool</td>
<td>Ctrl-Alt-Drag Selection</td>
</tr>
<tr>
<td>Move Selection (in 1-pixel Increments)</td>
<td>Arrow Keys</td>
</tr>
<tr>
<td>Restore Last Selection</td>
<td>Ctrl-Shift-D</td>
</tr>
<tr>
<td><strong>Type Shortcuts</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Viewing</strong></td>
<td></td>
</tr>
<tr>
<td>Fit on Screen</td>
<td>Double-click on Hand tool or Ctrl-0</td>
</tr>
<tr>
<td>100% View Level (Actual Pixels)</td>
<td>Double-Click on Zoom Tool or Ctrl-Alt-0</td>
</tr>
<tr>
<td>Zoom in</td>
<td>Ctrl-Space-Click or Ctrl-Plus(+)</td>
</tr>
<tr>
<td>Zoom out</td>
<td>Alt-Space-Click or Ctrl-Minus(-)</td>
</tr>
</tbody>
</table>
Fostering design thinking through mentoring young women is particularly exciting, it helps them to be fresh and active in their mind.
Fisheries Enterprises
And
Employment Opportunities
Today cage culture is receiving more attention by both researchers and commercial producers. Factors such as increasing consumption of fish, some declining wild fish stocks, and a poor farm economy have produced a strong interest in fish production in cages. Many small or limited resource farmers are looking for alternatives to traditional agricultural crops. Aquaculture appears to be a rapidly expanding industry and one that may offer opportunities even on a small scale. Cage culture also offers the farmer a chance to utilize existing water resources which in most cases have only limited use for other purposes.

**Key concepts**

Right choice of site contributes significantly in the success of cage farm. Site selection is vitally important since it can greatly influence economic viability by determining capital outlay, by affecting running costs, rates of productions and mortality factors.

- Site selection is a key factor in any aquaculture operation, affecting both success and sustainability.
- Circular cages of different diameter ranging from 2 m to 15 m, designed for the culture of fishes such as mullet, cobia, pompano, sea bass, pearl spot, and crustacean like lobsters were experimented and demonstrated successfully in India by CMFRI.
- Stocking of right sized fish juveniles in adequate stocking density another factor determines the success of farming. The stocking density and size of stocked fishes varies with different species.
- Proper feeding the quality feeds, periodic monitoring and cleaning of cages contributes immensely to the success of cage farming.
- With proper management of cage erected at an ideal location can yield a production of 20-40kg/m³ with various species of fishes.

Cage aquaculture involves growing fishes in existing water resources while being enclosed in a net cage which allows free flow of water. It is an aquaculture production system made of a floating frame, net materials and mooring system (with rope, buoy, anchor etc.) with a round or square shape floating net to hold and culture large number of fishes and can be installed in reservoir, river, lake or sea. Economically speaking, cage culture is a low impact farming practice with high returns and least carbon emission activity. Farming fish in an existing water body removes one of the biggest constraints of fish farming on land- the need for a constant flow of clean, oxygenated water. Cage farms are positioned to utilize natural currents, which provide the fish with oxygen and other appropriate natural conditions while also removing waste.

In view of the high production attainable in cage culture system, it can play a significant role in increasing the overall fish production in India. Suitable locations in...
Indian’s long coastline, vast brackish water areas available in coastal states and other underutilized water bodies can be better utilized by adopting cage culture. Since the investment is low and requires very little/no land area, this farming method is ideal for small scale fisher folks as an alternative income source. This can take up as an household/women activity since labour involved is minimal and can be managed by a small family. The design of the cage and its accessories can be tailor-made in accordance to the individual farmer’s requirements.

As with any production scheme cage culture of fish has advantages and disadvantages that should be considered carefully before cage production becomes the chosen method.

A potential fish farmer can produce fish in an existing pond without destroying its sport fishing; does not have to invest large amounts of capital for construction or equipment; and can, therefore, try fish culture without unreasonable risks.

Advantages Cage culture does have some distinct advantages which include:
- Many types of water resources can be used, including lakes, reservoirs, ponds, strip pits, streams and rivers which could otherwise not be harvested. (Specific state laws may restrict the use of “public waters” for fish production; check with your state fish and wildlife agency.)
- A relatively low initial investment is all that is required in an existing body of water.
- Harvesting is simplified.
- Observation and sampling of fish is simplified.
- Allows the use of the pond for sport fishing or the culture of other species.
- Cage culture also has some distinct disadvantages.

These include:
- Feed must be nutritionally complete and kept fresh.
- Low Dissolved Oxygen Syndrome (LODOS) is an ever present problem and may require mechanical aeration.
- Fouling of net cage
- The incidence of disease can be high and diseases may spread rapidly.
- Vandalism or poaching is a potential problem.

### Farming of fishes in cages

#### Site Selection

Different criteria must be addressed before site selection for cage culture. The first is primarily concerned with the physicochemical conditions like temperature, salinity, oxygen, currents, pollution, algal blooms, water exchange etc. that determine whether a species can thrive in an environment. Other criteria that must be considered for site selection are weather conditions, shelter, depth, substrate etc. Finally legal aspects, access, proximity to hatcheries or fishing harbor, security, economic, social and market considerations etc. are to be taken care.

#### Cage Size

It is a fact that costs per unit volume decrease with increasing cage size, within the limits of the materials and construction methods used. CMFRI has developed open sea cages of 6 m dia and 15 m dia for grow out fish culture and 2 m dia HDPE cages.
for seed rearing. Ideal size for grow out cage is 6 m due to its easy maneuvering and reduced labour. For fingerling 2 m cages can be used.

**Cage frames and nets**

Different cage materials can be used for cage farmes. Materials commonly used are High Density Poly Ethylene (HDPE), Galvanised iron (GI) pipes, PVC pipes etc. HDPE frames are expensive, but long lasting. Cost effective epoxy coated Galvanized Iron (GI) frames are recommended for Small groups and fishermen. GI frames have less life span compared to HDPE frames.

Nets of varying dimensions and materials were tested for cage culture in India. CMFRI has used braided and twisted HDPE nets for grow out purpose. It can last for two or more seasons. Nylon net can be used economically, but since it is light weight, to hold the shape intact more weight has to be loaded in the ballast pipe. Cost factor has to be taken care while using new netting materials like sapphire or dyneema materials for net cage. The depth of net ranging from 2 to 5 m is ideal. For open sea cage culture, predator net to prevent attack by predatory organisms is essential.

**Potential species and criteria for selection of species for cage culture**

The selection of species for cage culture should be based on a number of biological criteria like omnivore or carnivore, hardiness, fast growing, efficient food conversion ability, availability of eggs and juveniles, and disease resistance. Economic market ability and demand are also taken into consideration.

**Stocking**

Although stocking densities should be determined by species requirements and operational considerations, the influence of stocking densities on growth and production has been determined empirically. The stocking density depends also on the carrying capacity of the cages and the feeding habits of the cultured species. Optimal stocking density varies with species and size of fish.

**Feeds and feed management**

Fresh or frozen trash fish, moist pellet (MP) and floating dry pellets are the common feed for growing fish in cages. Feeding in cages is quite easy compared to that in ponds. The ration can be divided into equal portions and supplied at regular intervals. Feeding can be done either by broadcasting or using feeding trays. Feeds must be complete and provide all the necessary proteins, carbohydrates, fats, vitamins and minerals needed for growth and health. Feeds cannot be allowed to deteriorate during storage.

**Harvest**

Harvest of fish in cages is less labour intensive compared to that in ponds. Cages can be towed to a convenient place and harvest can be carried out. Also based on demand, partial or full harvest can be done. Marketing of fishes in live conditions as a value addition can also be done.
Cage management

Cage culture management must result in optimizing production at minimum cost. The management should be so efficient that the cultured fish should grow at the expected rate with respect to feeding rate and stocking density, minimize losses due to disease and predators, monitor environmental parameters and maintain efficiency of the technical facilities. Physical maintenance of cage structures is also of vital importance. The raft and net-cages must be routinely inspected. Necessary repairs and adjustments to anchor ropes and net-cages should be carried out without any delay. Monthly exchange of net should also be considered, as this ensures a good water exchange in the net, thereby washing away feces, uneaten food and to a certain extent reduce the impact of fouling.

Fouling of cage net

Fouling of cage nets and other structures has been observed at many instances of cage farming. Nets get covered with biofoulers. Fouling by molluscs, especially edible oyster sand barnacles have to be checked before its growth advancement. Algal mats and other periphytons can be removed by introduction of omnivorous grazers in cages. A fouled net will be heavier, thereby increasing drag, and this result in loss of nets and fish.

To avoid/ reduce fouling, net should be changed as and when required, which may vary from 2 to 4 weeks depending on the intensity of fouling. During oyster fouling, net exchange has to be done immediately after the seasonal spat fall. Herbivorous fish such as rabbit fish (*Siganus* spp.), pearl spots (*Etroplus* spp.) and scat (*Scatophagus* spp.) can be used to control biofoulers, but their application on a large scale needs to be assessed.

Disease monitoring

Monitoring of fish stock health is essential and early indications can often be observed from changes in behavior, especially during feeding.

Summary

- Cage culture is the most efficient way of raising fish
- Cage can erected in various suitable water bodies in various sizes and shapes
- Stocking density of fishes in cage depends on the species cultured and growth rate of fishes
- A production of 20-40kg/m³ can achieved in normal conditions from cages
- Identification of ideal site for vital for cage farming
- Proper feeding with quality feeds in of paramount importance for a successful cage farming
- Regular monitoring of net cages and fishes ensures a good harvest from cages.
Supporting and sustaining micro enterprises has always been a challenge for development administration. Financial inclusion has emerged as a strategy to bring the so called excluded people into the mainstream. Financial inclusion is the delivery of banking services at an affordable cost to the vast sections of the disadvantaged and low income groups. Financially excluded sections include marginal farmers landless labourers, migrants, socially excluded groups, senior citizens and women. In order to increase the saving habit of the people bank has introduced several savings bank account facilities. They are:

**Savings bank deposits**

Basic Savings Bank Deposit Account (BSBDA) has been defined by RBI vide its circular dated 10.08.2012.

**Eligibility Criteria:**
- Applicant’s age (between 18 to 60 years)
- Account at least six months old
- Account seeded with Aadhaar

**Its salient features are:**
- There is no requirement of minimum balance.
- The services available include deposit and withdrawal of cash at bank branch as well as ATMs;
- receipt/credit of money through electronic payment channels or by means of collection/deposit of Cheques.
- Maximum of 4 withdrawals a month including ATM withdrawal. No such limit for deposits.
- Facility of ATM card or ATM-cum-Debit card.
- These facilities are to be provided without any extra cost.

**Quantum of Loan:**
- 50% of credit summation during the last six months or
- Average balance for the last four months or
- Rs. 5000/- (whichever is less)

**Recurring Deposit – RD**

- Monthly deposits of Minimum Rs.100/- and in multiples of Rs 10/- No maximum.
- Minimum period 12 months maximum 120 months.
- Nomination facility available and it is advised to avail of the facility.
- Passbooks are issued
- Bhagya Rekha Loan
Eligibility Criteria:
- 60 months RD – Min Rs.400/-
- 36 months RD – Min Rs.600/-
- Loan after 12 months of RD

Quantum of Loan:
- Twice the amount in RD
- Minimum Loan – Rs.5,000/-
- Maximum Loan – Rs.50,000/-

SELF HELP GROUPS

Muhammad Yunus is a Bangladeshi social entrepreneur, banker, economist and civil society leader who was awarded the Nobel Peace Prize for founding the Grameen Bank and pioneering the concepts of microcredit and microfinance.

Eligibility Criteria:

SHG should have been in active existence for at least a period of six months. The groups should have successfully undertaken savings and credit operations from its own sources. The group should preferably have a homogeneous background.

Purpose:
The loan is given to SHGs for meeting the entire credit requirements of SHGs, namely,
- a) Income generation activities,
- b) Social needs like housing, education, marriage, etc., and
- c) Debt swapping.

Quantum:
- Loan amount linked to saving corpus of SHG
- First loan : up to 4 times of saving corpus
- Repeat loans : higher quantum beyond four times of the group’s corpus may be considered
- Maximum loan per SHG member should not exceed Rs.50,000/-
- No security
- No margin
- No processing charges
- No insurance

Pradhan Mantri Jan-Dhan Yojana

Pradhan Mantri Jan-Dhan Yojana (PMJDY) is National Mission for Financial Inclusion to ensure access to financial services, namely, Banking/ Savings & Deposit Accounts, Remittance, Credit, Insurance, Pension in an affordable manner.
RuPay Debit Card

RuPay Debit Card is an indigenous domestic debit card introduced by National Payment Corporation of India (NPCI). This card is accepted at all ATMs (for cash withdrawal) and at most of the PoS machines (for making cashless payment for purchases) in the country. Beneficiary of RuPay Card are required to keep the Card in safe custody. PIN should be changed at frequent intervals and should never be shared with anyone. While using the card at ATM Machine or PoS, PIN should be entered in machine very secretly so that nobody could even guess about the PIN Number. As far as possible, Card should be used at authorized places / centers only. Besides, PIN number should never be written on the Card. The special advantage of this card is it provides accidental insurance cover up to Rs.1.00 lac without any charge to the customer.

Linking Mobile Number with Bank Account

Mobile Number of an account holder is entered in customer's account in CBS System by the Bank on the basis of information given in the Account Opening Form. Also, for existing accounts, banks permit seeding through ATM, SMS from registered mobile, net-banking or on making a request in the branch (there may be variations depending on the bank).

How long the debit card is valid and how to get Debit Card renewed

Debit Card expiry date is mentioned on the Card itself. Account-holder is advised to get issued new card well before expiry date of his/her existing card by giving fresh application to the concerned bank.

PoS Machine

PoS stand for Point of Sale. PoS Machine is a small device installed at almost all Business Centers to facilitate cashless purchases to their customers.

USSD based transaction

USSD is abbreviated form of "Unstructured Supplementary Service Data". USSD based Mobile Banking offers basic Banking facilities like Money Transfer, Bill Payments, Balance Enquiries, Merchant Payments etc. on a simple GSM based Mobile Phone, without the need to download application on a Phone as required at present in the Immediate Payment Service (IMPS) based Mobile Banking. Transactions can be performed on basic phone handsets. The user needs to approach his bank and get his mobile number registered. The bank will issue an MPIN (Mobile PIN) to the user. The user thereafter needs to dial *99# and the menu for using USSD opens. Thereafter customer has to follow selections on the menu to complete the transaction. Charges as applicable by the Telecom Operator (not more than Rs.1.50 per transaction as mandated by TRAI) may be applicable.
I never dreamt about success but I worked for it
**Introduction**

Mari culture of bivalves greater importance in meeting the increasing protein demands of the human population. Bivalve groups such as oyster, mussel and clam are the most important cultivable organisms all over the world. Of these, *P. viridis* and *P. indica* forms the most dominant cultivable species. The Central Marine Fisheries Research Institute (CMFRI) has developed eco-friendly techniques for mussel culture. Recently, CMFRI has taken up efforts to popularize mussel culture in all coastal districts of Kerala.

**Growth**

Green mussel shows a rapid growth rate by length of 8mm-13.5mm per month. Under average culture conditions, green mussel and brown mussel attain a length of 80-88mm with 36.5-40g weight and 65mm with 25-40g in 5 months respectively. The farmed mussels give a better meat yield compared to mussels from the natural bed. The average edible portion of the meat yield is 27.2%-33.3% of the total weight. Growth by length and weight are probably the most important criteria for assessing the success of the culture system. The growth of mussel is influenced by a number of environmental factors such as water quality, food availability, settling density, water current and tidal exposure.

**Reproduction**

Mussels are known to be unisexual. The gonad of mature female can easily be distinguished by its bright orange-red color form that of the male, which is creamy yellow.

<table>
<thead>
<tr>
<th>Stage</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>I (Immature)</td>
<td>Sperm non motile</td>
<td>Ova without any shape</td>
</tr>
<tr>
<td>II (Maturing)</td>
<td>Sperm non motile</td>
<td>Granulation in the ovary</td>
</tr>
<tr>
<td>III (Mature)</td>
<td>Sperm motile</td>
<td>Spherical ova</td>
</tr>
<tr>
<td>IV (Partially spent)</td>
<td>Motile sperm and tissues</td>
<td>Spherical ova and reputed ova</td>
</tr>
<tr>
<td>V (Spent)</td>
<td>Reputed tissues</td>
<td>Reputed tissues</td>
</tr>
<tr>
<td>(Indeterminate)</td>
<td>Differentiation impossible</td>
<td></td>
</tr>
</tbody>
</table>

Mussels attain sexual maturity in two months (15-28mm). Spawning period is prolonged extending from January – September with peak spawning during June – September in Kerala. The four main stages in the reproductive cycle are spent/resting, developing, ripe and spawning. Fertilization is external. After fertilization, it attains pediveliger within 15-35 days. Pediveliger attaches to the settlers with the help of byssus threads and metamorphose to spat. Spat settlement takes place from July to September and attains seeding size in September.

**Condition index**

\*Condition index = (dry meat weight \times 1000)

Volume of shell cavity

**Percentage edibility = \frac{Meat weight \times 100}{Whole mussel weight}**

*Condition index is generally related to the reproductive cycle. Condition of mussel indicates degree of fatness of a mussel or the extent to which the meat fills the cavity. The ideal condition index of mussel is 70-140. This will be high during non-spawning period.

**Percentage edibility, the percentage edibility is high the mussels can be harvested. Percentage edibility varies from 20-45%.

**Mussel seed availability / area suitable for farming in Kerala**

**Location**- Ashtamudi lake, Thangaserry Bay, Azheekode, Maliyankara, Sathar Island, Chettuva, Ponnani, Kadalundi, Dharmaadam, Valapattanam, Padanna, Neelaswaram etc.

**Farming Techniques**

**Site selection**

Open sea and estuarine areas free from strong wave action are suitable for farming. Clear seawater with rich plankton production (17-40\mu g chlorophyll/l) is ideal for mussel culture. Moderate water current (0.17-0.25m/s at flood tide and 0.25-0.35m/s at ebb tide) will bring the required planktonic food and will carry away the
excessive build-up of pseudofaeces and silt in the culture area. The water should have a salinity of 27-35 ppt. and temperature of 26°C - 32°C. Site should be free from domestic, industrial and sewage pollution.

**Open sea farming**

In open sea farming, the depth at the site should be above 5m without strong wave action, less turbulent and with high primary productivity. Long line and raft culture techniques are ideal for open sea farming. Mussels grown on long lines become smothered by naturally settling juvenile mussels and other fouling organisms. Effective utilization of easily available materials for fabrication of long line and raft can be done. Disadvantages of this farming are the poaching and unpredicted climate changes. Protected bays are ideal for mussel farming.

**Estuarine farming**

Compared to open sea, estuarine ecosystems with less turbulent and shallow depth (<4m) are suitable for mussel farming. Culture of mussels on horizontal ropes results in high productivity due to the effective utilization of the primary productivity. Rack culture is ideal for estuarine conditions. Fluctuation is salinity during monsoon season and pollution through domestic and industrial waste are the main constraints in estuarine mussel farming.

**Methods of farming**

**Rack method**

This method is suitable for estuaries and shallow bays. The racks are fabricated placing bamboo/casurinapole vertically and horizontally tying and lashing with nylon/coir ropes. Bamboo or casurina poles are drier driven into the bottom and spaced at a distance of 102m. These stakes are connected horizontally with poles. The horizontal poles should be above the level of water at high tide and seeded ropes are suspended from the same.

**Raft method**

This method is ideal for open sea conditions. Square or rectangular rafts are fabricated with sturdy bamboo or casuarina poles. Buoyancy for the raft is provided by tying 5 barrels of 200 liter capacity one each at the four corners and one in the middle (metal oil barrel painted with anticorrosive paint or synthetic material). Ideal size of the raft 5 X5 m. the raft are Positioned at suitable site in the sea using 50-100kg of iron, granite or concrete anchors. Three seeded rope can be suspended from one meter area of the raft.

**Long –line method**

This method is considered ideal in unprotected open sea conditions. The main line is synthetic rope of 16-20mm diameter. The long-line, which is supported by 200 litters barrels tied to it and spaced at 5m. The long-lines and barrels are anchored in
position at both ends using concrete blocks and nylon ropes. Seeded ropes are suspended in the long-line.

**Horizontal Culture**

This method is ideal in shallow areas with a minimum level of water column. Seeded rope were suspended by tying upward by ropes to horizontal poles; but both the ends will be stretched and tied in vertical poles erected in opposite sides in the farm structure. In the estuaries of Malabar, most of the farmers are following this method.

**Bouchot culture**

Bouchot (stake culture) method was done in the shallow waters of Ashtamudi Lake at Dalawapuram, Kollam with farmer’s participation. Mussel seed (20-25mm) were collected from the estuary and seeded on casuarina poles, bamboo split of one meter length @1.5kg/pole, strip. Production of 12kg/pole, bamboo split was obtained with in a period 3 months.

**Seed collection and seeding on rope**

The site selected for collection of seed should be free from pollutants. Seeds collected from the submerged (sub tidal) areas will be healthier. After removing other organisms and weeds, the seeds were washed thoroughly in sea water. About 500-750g of seed is required for seeding on one meter length of rope. The ideal size of the seed is 15-25mm 1ith 1-2g weight. The length of the rope is decided by considering the depth where the raft/rack is positioned. While suspending the seeded rope on rack it must be tied in such a way that the upper seeded portion of the rope should not get exposed during the low tide.

Nylon rope of 12-14mm or 15-20mm coir rope can be used for seeding. Old cotton net, cotton mosquito net or cheap cotton cloth are used for covering the seeds around the rope. Cotton netting of required width and length is placed on the floor and required quantity of seeds spread over the net from one end to the. The rope is kept above the net and is tightly stitched in such a way that the seeds spread uniformly around the rope. The cloth will disintegrate within 2-3 days. By this time seeds will secrete byssus thread and will get attached itself to the rope. To avoid slipping of the mussels, knots are made on seeded rope at the distance of 25cm. Placing split bamboo pegs in the rope(12-14mm) at regular intervals will also serve the purpose.

**Growth-out-phase**

The Seed, which get attached to ropes, show faster growth in the suspended column water. If the seed is not uniformly attached, crowded portion always show slipping. To avoid slipping, periodical examination of seeded rope and thinning of the same is essential. The ropes also should be suspended in such a way that it will not touch the bottom as well as the seeded portion is not exposed for longer period during low tide. Seeded mussel on the upper portion of the rope shows faster growth due to the abundance of phytoplankton. For better growth the seeded ropes should be spaced at a distance of 25 cm.
In open sea – farming, growth of mussel is very rapid. They attain 80-110 mm in 5-6 months with an average growth of 13.5mm/month and an average weight of 35-45g. This growth is observed in farms at various locations. In estuarine farming, mussels attain 75-90mm in 5 months with an average weight of 35-40g and an average production of 10 -12 kg/m rope.

**Management:** Constant vigil is required to see that the raft/rack is in position. Thinning may be done if necessary to avoid loss of mussel and to provide enough growing space. Periodic removal of fouling organisms like barnacles, tubiculous polycheates and ascidians is to be done for improved growth.

**Diseases and Poisoning**

Mussels are said to be harmful when consumed during periods of re tide (in Malayalam it is called polavellam). This mainly occurs due to dinoflagellates bloom or bloom of diatoms, or cyanobacteria. They will produce potent toxins that can find their way through the food chain to humans, causing a variety of gastro-intestinal and neurological illnesses, such as: paralytic shellfish poisoning, diarrhoeic shellfish poisoning, amnesic shellfish poisoning, neurotoxin shellfish poisoning. Another new toxin identified is yessotoxin, which affects the nervous system.

![Calendar of mussel farming activities in Kerala](image)

**Harvest, product development and marketing**

Harvest will be done when the mussels reach marketable size and condition index is high, i.e., before the spawning and onset of monsoon. Normally harvest season is from April to June. Mussel rope is collected manually and brought to the shore for harvest and washed thoroughly using jet wash to remove grit and silt. The mussels separated from the ropes are maintained in re-circulating seawater for 24 hrs and washed again in fresh seawater. This method of depuration is effective in reducing the bacterial load of the mussel meat by 90%.
Depurated mussels are then mainly sold through local market as live shell-on mussel. At present processing units use only a small quantity of cultured mussel. New strategies need to be developed to fully exploit the domestic market. Meat from depurated mussel can be shucked in fresh condition or after boiling or steaming. Further processing of the mussel meat can be done after blanching in 5% salt solution for 5 minutes.

Products and export

A variety of products have been developed in India from mussel meat. These products have been developed by R&D activities of CIFT, Kochi. In the retail market, few mussel products are available. The latest product in line is the condiment incorporated ready-to-eat fried mussel meat in vacuum packs. For further economic utilization, value added products of mussel like seafood cocktails are prepared and marketed by seafood export firms in India. The export of these items from India is showing an increasing trend.
Nutritional value of 100g heat blanched mussel meat.

<table>
<thead>
<tr>
<th>Composition</th>
<th>quantity</th>
<th>Adult male (%) of daily requirement</th>
<th>Adult female (%) of daily requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy</td>
<td>172 Kcal</td>
<td>2.9</td>
<td>3.8</td>
</tr>
<tr>
<td>Protein</td>
<td>23.8 g</td>
<td>19</td>
<td>24</td>
</tr>
<tr>
<td>Oil (fat)</td>
<td>4.48 g</td>
<td>2.2</td>
<td>2.9</td>
</tr>
<tr>
<td>Omega 3 fatty acids</td>
<td>782 mg</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Cholesterol</td>
<td>27 mg</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Calcium (Ca)</td>
<td>56 mg</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Iodine (I)</td>
<td>0.065 mg</td>
<td>43</td>
<td>43</td>
</tr>
<tr>
<td>Iron (Fe)</td>
<td>7 mg</td>
<td>70</td>
<td>47</td>
</tr>
<tr>
<td>Phosphorous (P)</td>
<td>285 mg</td>
<td>29</td>
<td>29</td>
</tr>
<tr>
<td>Potassium (K)</td>
<td>270 mg</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>Selenium (Se)</td>
<td>0.038 mg</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>Sodium (Na)</td>
<td>410 mg</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Zinc (Zn)</td>
<td>0.95 mg</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Vitamin A (Retinol)</td>
<td>0.05 mg</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Vitamin E (Tocopherol)</td>
<td>1.9 mg</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>Vitamin B1 (Thiamine)</td>
<td>0.009 mg</td>
<td>0.6</td>
<td>0.6</td>
</tr>
<tr>
<td>Vitamin B2 (Riboflavin)</td>
<td>0.28 mg</td>
<td>16</td>
<td>21</td>
</tr>
<tr>
<td>Vitamin B6 (Pyridoxine)</td>
<td>0.19 mg</td>
<td>9.5</td>
<td>12</td>
</tr>
<tr>
<td>Vitamin B12 (Cyanaocobalamine)</td>
<td>0.009 mg</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Niacin</td>
<td>1.4 mg</td>
<td>7</td>
<td>9.3</td>
</tr>
<tr>
<td>Pantothenate</td>
<td>&lt;1 mg</td>
<td>&lt;20</td>
<td>20</td>
</tr>
<tr>
<td>Vitamin C (Ascorbic acid)</td>
<td>4.4 mg</td>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>

Ratio Omega 3 to Omega 6 is 13:5
Source; United State Dept. of Agriculture Handbooks

Overseas markets

Mussels are exploited to different countries in the frozen and dried condition. They are also airlifted in the iced condition to the Gulf countries where mussels are in great demand. There is an increasing demand for mussels in the global markets, especially in UAE, China, Mali, Singapore, Sri Lanka, Australia, Greece, Japan, Lebanon, Mexico, New Zealand, and rep. Korea. The export of mussel products shows an increasing trend.

With globalization, seafood trade will be subjected to increasingly greater regulation, control, issue related to environmentally sustainable practices. Seafood safety would assume greater significance in the future. Eco-labeling and HACCP certification would be made mandatory for all seafood products. Contaminants frequently
monitored include bacterial loads, heavy metals, antibiotics and pesticides, algal blooms for HAB (Harmful Algal Bloom) toxins.

**Economics for a model mussel farm**

Rack and rope culture in estuary Mussel farm 5m x 5m Seeded rope 100 nos.

<table>
<thead>
<tr>
<th>1. Fixed cost (material cost)</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bamboo poles (9= poles + 10 horizontal poles)</td>
<td>19 nos</td>
<td>350</td>
<td>6650</td>
</tr>
<tr>
<td>Nylon rope (3mm/4mm)</td>
<td>1 kg</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>Nylon rope (12mm)</td>
<td>13 kg</td>
<td>250</td>
<td>3250</td>
</tr>
<tr>
<td>PVC pipe (2.5”/3”)</td>
<td>1 m</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>6850</strong></td>
</tr>
</tbody>
</table>

1. Recurring cost (Labour charge)

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stitching charge</td>
<td>100</td>
<td>7</td>
<td>700</td>
</tr>
<tr>
<td>Canoe hire charges</td>
<td>5 days</td>
<td>300</td>
<td>1500</td>
</tr>
<tr>
<td>Labour charges (farm construction, seeding and harvesting)</td>
<td>8 days</td>
<td>850</td>
<td>6800</td>
</tr>
<tr>
<td>Mussel seed (20-25 mm)</td>
<td>150 kg</td>
<td>50</td>
<td>7500</td>
</tr>
<tr>
<td>Cotton netting materials</td>
<td>25 m</td>
<td>40</td>
<td>1000</td>
</tr>
<tr>
<td>Marketing (shell on)**</td>
<td>800 kg</td>
<td>25</td>
<td>20000</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td></td>
<td></td>
<td>1000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>38500</strong></td>
</tr>
</tbody>
</table>

3 Labour charges (Meat shucking)

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depuration charge*</td>
<td>800 kg</td>
<td>6/kg</td>
<td>4800</td>
</tr>
<tr>
<td>Shucking charge</td>
<td>200 kg</td>
<td>30</td>
<td>6000</td>
</tr>
<tr>
<td>Fuel charges</td>
<td></td>
<td></td>
<td>2000</td>
</tr>
<tr>
<td>Marketing</td>
<td>200 kg</td>
<td>40</td>
<td>8000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>20800</strong></td>
</tr>
</tbody>
</table>

**Total financial outlay**

Shell on (1+2+3 *) = 6850+38500+4800 = Rs.50,150
Heat shucked meat (1+2**+3) = 6850+
18500+20800= 46,150

**Except the marketing charge**

* Depuration charge only

<table>
<thead>
<tr>
<th>Total yield</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>Total quantity</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>Shell on</td>
<td>800 kg (8kg/rope)</td>
<td>Rs.100/kg</td>
<td>80,000</td>
</tr>
<tr>
<td>Heat shucked meat</td>
<td>200 kg (25% meat)</td>
<td>Rs.400/kg</td>
<td>80,000</td>
</tr>
</tbody>
</table>

**Net profit**

Shell on = 80,000 – 50,150 = 29,850
Shucked meat = 80,000 – 46,150 = 33,850.
Introduction

Marine ornamental fishes play an important role in the aquarium keeping worldwide due to their attractive colouration, aesthetic beauty which gives pleasure and soothing effect to the eyes and it also helps to relieve stress. The demand for marine ornamental fishes are increasing day by day as aquarium keeping is the second popular hobby after photography among people. Ornamental fish production for the aquarium industry is a multimillion dollar industry in the world. Although most fish kept in aquariums are from freshwater, the acquisitions of marine ornamental fish has greatly increased in recent years and are also popularized through children's movies by starring charismatic colorful fishes and other creatures. Recent advances in fish husbandry and aquarium gadgets and technology have further facilitated the hobby.

India is a repository of more than 200 varieties of marine ornamentals of which more than 50 are very bright and have export potential. Among these, the clown fishes or anemone fishes have always been the most popular and sought after group of marine ornamentals due to their beautiful colour, small size, hardiness, longevity, proclivity to live in association with sea anemone, interesting display behaviour and adaptability to life in captivity.

Anemone fishes or Clown fishes

Clownfish were among the first reef fish species bred successfully in captivity and the breeding under captive condition was real successful. However large scale culturing of clownfish has not always been successful technically due to the less larval survival which usually go through one or many larval stages, start out at a very small size, and are extremely sensitive to external factors.

For the breeding of clown fishes under captive condition, few important steps are to be followed. These include selection of suitable broodstock, setting up the tank, broodstock feeding, maintenance of high water quality, provision of suitable environmental parameters, creating suitable condition for spawning and system for raising the larvae and juveniles.

Collection and transportation of brood stock

For the captive mass production of clown fishes, the basic requirement is to have a sufficient number of brood stocks or breeding pairs which can either be collected form the coral reef habitat or can be purchased from the pet shop depending upon the availability. Invariably the female was somewhat larger than the male. In nature, the clown fishes are showed monogamous pair formation, and these pairs are need to
be collected for brood stock development and breeding programme. In case such mated pairs are not available, the fishes having different size groups can be collected and made to pair under captive condition through pair formation. In order to make breeding pairs form the juveniles groups, many social groups of clown fishes can be collected from the wild and transported to the laboratory in live condition. During transportation, the fishes and sea anemones should be kept in separate plastic transportation bags.

**Pair formation**

For the pair formation, five fishes of each sex of different size groups need to be stocked together along with single host sea anemone in a 500 L FRP tanks fitted with biological filter to reduce the aggression. The pair formation tanks need to maintain in the hatchery where an incident light intensity of 2500 to 3000 lux was available as the sea anemones require sunlight for its better survival under laboratory condition. The fishes and anemones should be fed two times per day with wet feeds such as meat of shrimp, mussel and clam at the rate of 15% of their body weight and live feeds like *Brachionus plicatilis*, *artemia nauplii* and adult *artemia*. Environmental parameters such as temperature 26 to 29º C, salinity 33 to 35 ppt, dissolved oxygen 4.6 to 6.2 ml/L and pH 8.1 to 8.4 are need to be maintained in all the rearing tanks.

**Sex change and pairing**

Generally all clown fish individuals start out as males and change into females when they reach larger sizes or under situation of loss of mate. The male and female form a monogamous pair bond that lasts until one member of the pair dies. If the female dies first, the largest male rapidly changes sex into a female and the second largest or dominant juvenile becomes an active male and that pairs up with the newly transformed female. By utilizing this adaptation, pairs of clown fishes can be developed under captive condition through creating social systems. After a period of 3 to 4 months rearing in the pair formation, in each tank one pair grew ahead of others and became the spawning pair. As the newly formed pairs will be very aggressive and spending time for fleeing the other subordinates rather than reproductive activity, it is very essential to stock each breeding pairs in separate broodstock tanks.

**Tank set up for brood stock**

A clownfish brood stock or spawning tank should be 250 to 500 L capacity with single healthy pair and host sea anemone. An ideal tank would be a 3ft x 2 ft x 2 ft with a layer of coral sand on the bottom, a few live rocks, a healthy anemone, bright lighting and good filtration, preferably an efficient protein skimmer to reduce the ammonia and organic materials from the fish. A trickle filter could be used with regular water changes to keep the nitrates low enough for the anemone to do well. Since the gonad development and spawning of clown fishes are influenced by moon phases, the broodstocks/ spawning tanks need to be kept in an apt place where the fish receive a regular day/night lighting cycle (moon phase). An anemone is generally not required to breed clownfish under captive condition. But generally the clown fish select a nest site adjacent to the sea anemone for deposition of eggs. More over an added benefit of having an anemone is that it may release compounds that helps to
protect the eggs or even chemically induce immunity that clownish have with the anemone. Hence provision of suitable host sea anemone in the broodstock tank will help the fish to feel as comfortable as in the wild and this will however certainly makes the task much easier in the long run.

**Brood stock development and maintenance**

The pairs formed through pair formation should then be transferred to separate glass aquaria for broodstock development. Depending upon the production capacity and seed demand, several pairs can be maintained for commercial hatcheries. The broodstocks need to be fed with wet feeds such as meat of green mussel, shrimp, clam and fish egg mass, and can also be provided formulated feeds enriched with vitamins, minerals and algal powder at the rate of 10% of their body weight and supplied at an interval of every 3 hrs during day time. Apart from these, the broodstocks were also fed with enriched rotifer 800 to 1000 nos/ml and Artemia nauplii (200-400 nos/ml) and adult Artemia (3 to 5 nos/ml) every day. Provision of enriched live feeds which apparently improved egg quality and hatchability than the brooders fed with non enriched live feeds.

**Bio encapsulation of rotifer**

Three litres of enrichment medium has to be prepared using microalgae (*Chlorella salina, C marina, Nannochloropsis oculata* 1x10^6 cells/ml) in five litre capacity circular transparent tubs for enrichment. To this, an emulsion prepared with homogenizing 5 gm of cod liver oil, 0.1% vitamin A, 0.2% vitamin D, 0. 3% vitamin E and 0.1% vitamin K has to be added. The rotifers harvested from the mass culture tank has to be released to this enrichment medium at the rate of 800 to 1000 nos of rotifer per ml along with 50 mg/L of beakers yeast for 12 to 24 hr. The rotifers thus enriched were harvested, washed and used for feeding the fishes.

**Enrichment of artemia**

The *artemia nauplii* (instar II stage) were harvested through 100μ bolting silk cloth after completion of about 16 hours of hatching, and released 200-400 nos/ml to the 5 L plastic circular tub containing 4 L of mixed algal water : *N.oculata, P. lutheri, C. marina* and *C. salina* (10^5 cells/ml), *I. galbana, D. inornata, C. pleoides* (104 cells/ml) for bioencapsulation and maintained optimum environmental parameters. To this, 8 gm of cod liver oil with fat soluble vitamin : 0.2% vitamin A, 0.1% vitamin D, 0. 6% vitamin E and 0.3% vitamin K were added. The artemia were harvested and fed to the fish at 12 to 24 hours of enrichment.

**Feeding with enriched live feeds**

After enrichment, the rotifers and artemia were harvested, washed and released to 4 L of bio-filtered seawater containing mixed culture of micro algae : *N. oculata, P. lutheri, I. galbana, D. inornata, C. pleoides* and *C. marina* (10^4 to 10^6 million cells/ml) in 5 L capacity transparent tub with mild aeration. The enriched rotifer and Artemia were given in split dose (10-11a.m. and 3.0 to 4.0 p.m. daily).
**Water quality maintenance**

The maintenance of high water quality is possibly the critical factor for the breeding of clown fishes or any marine fishes under controlled condition. As a measure for this, the sea water need to be filtered through a series of sand filters before being taken to the rearing tanks. The temperature in all the breeding tanks need to maintained between 26 to 30°C, and level of dissolved oxygen (4.8 to 6.3 ml/L), pH (8.0 to 8.4), salinity (32 to 35 ppt) and the water needs to be recirculated to ensure water movement and provided good water quality with the aid of a specially devised filter system during the period of rearing. Once in a week 25% of the water should be exchanged to avoid stress like a rapid increase in plasma cortical concentration, depression of gonadal steroidogenesis, and subsequent development of gonadal atresia.

**Substrate for egg deposition**

The clownfish have attached eggs and are known to spawn on rough surfaced substrata near to the host sea anemone. Hence it is very essential to provide suitable substratum preferably tiles or earthen pots or shells of edible oyster or PVC pipes for the egg deposition which will also be helpful for the transfer of deposited egg without any mechanical injury to hatching tank.

**Breeding**

After broodstock rearing, each pair will start breeding within a period of 4 to 6 months rearing under captive condition if the brood stocks are provided nutritious food and provided suitable rearing conditions. Few days prior to spawning, the male selected a suitable site near to sea anemone for laying the egg and cleared algae and debris with its mouth and on the day of spawning both the parents spent considerable time for the cleaning of site which indicated that spawning may occur within few hours. Under laboratory condition, the spawning can be obtained between 0500 hrs to 1530 hrs during day time and the spawning lasted for one hr to one and a half hour. Each female lays 300 to 1000 capsule shaped eggs at every 12 to 15 days interval depending on the species of clown fish, size of fish and previous experience. Generally the egg size of clown fishes ranges between 1.5 mm to 3.0 mm in length with a width of 0.8 to 1.84 mm and adhered to the provided substratum with stalk. An average of two spawning per lunar month per pair resulting in an estimated annual fecundity of 7200 to 24000 eggs/breeding pair/year can be obtained under laboratory condition.

**Parental care and egg morphology**

As parental care is inevitable for hatching out of the larvae, the parents should be allowed to remain in the parental tank itself till hatching. During incubation period, both the parents carefully look after the eggs during day time and it involved two basic activities viz. fanning by fluttering the pectoral fins and mouthing to remove the dead or weakened eggs and dust particles. The newly spawned eggs were white to bright orange in colour for initial two days and as the embryo develop; these were turned to black on 3rd to 6th day and later turned to silvery the colour of the larvae’s large eyes on 7th to 8th day of incubation. At this stage the glowing eyes of the...
developing larvae inside the egg capsule was clearly visible when viewed from a short
distance. Male assumed nearly all responsibility of caring for the eggs and spent a
higher percentage of time at the nest than the females, which increased gradually up
to 70% of time as the day of hatching approached. When incubated at a water
temperature range of 27 to 29º C, the hatchling emerged on 8th day of incubation
and peak hatching took place shortly after sunset.

Captive breeding of  *A. ocellaris*

Egg hatching and larval rearing

On the expected day of hatching, two hours before sunset, the eggs along with
substratum were transferred from the parental tank to hatching tanks (100 L) and
provided with complete darkness for accelerating the hatching. The larvae broke the
egg capsule and the hatchling emerged tail first and the hatching occurred soon after
sunset and the peak hatching took place between 1900 to 2030 hrs under darkness.
The newly hatched larvae measured 3 to 4mm in length and each had a transparent
body, large eyes, visible mouth, and a small yolk sac and remained at the bottom of
the tank for a few seconds and soon after became free swimming. The larval period of
clown fishes generally last for maximum of 20 days and then after most of the fry
resembled juvenile adult fish and began to shift from partially pelagic to epibenthic
and started eating minced shrimp, fish flesh, mussel meat, clam meat and formulated
diets.

Larval feeding

The successful feeding strike is low at first feeding but rises rapidly during early
development in clown fishes. At this stage provision of suitable size and nutritionally
adequate enriched feed in high density is one of the important factor for their survival
as the larvae will be able to accept small size organism due to the small mouth gape,
and if they do not encounter and successfully capture food before depleting their
energy reserves, the larvae may starve and it will eventually lead to mortality. More
over many of the larvae had only little quantity of yolk material and it starts feeding
within few hours after hatching. As the mouth gape of clown fish larvae is between 80-123 µ, the larvae need to be fed with live feeds measuring less than 100µ for its active feeding. All the rearing tanks need to be provided 24 hrs light up to 15 days of post hatch (DPH). During this time the larval tank must be kept very clean with the bottom siphoned off dead larvae, detritus and faeces twice a day. This is important because any decaying matter on the bottom will encourage potentially harmful bacterial growth and will lower the oxygen levels and deteriorate the water quality. Water changes will also need to be performed at a rate of at least 25% per day. Feeding schedule of larvae of clown fishes can be performed in two stages: Stage 1: covered the rotifer with algae feeding phase from Day 1st to 8th day. Stage 2: the newly hatched artemia and rotifer with algae feeding phase from 9th to 20th days. For the successful prey capture of larvae, 50-100 numbers ml⁻¹ supper small rotifer (B. plicatilis) having size 60 to 100 µ need to be provided after enrichment with vitamins and fatty acids. As the larvae attains successful prey capture within two days, the density of rotifer in the larval rearing tank need to be reduced to 30-50 nos. ml⁻¹ from 3rd to 8th day. From 9th day onwards the larvae were weaned onto newly hatched Artemia nauplii (5 - 10 nos/ml) along with rotifer (SS and S type) (20-30 nos/ml) whereas algal concentration should be same as the prey capture step till 20th day of post hatch. The clownfish have a larval period between 10 and 20 days. After 20 days of rearing the larvae develop the adult striped colouration and metamorphose to juveniles and shift from partially pelagic to epibenthic and look like miniature adults. From metamorphosis onwards, the clownfish actively swim on the bottom of the tank and settle in the host sea anemone. Up to 20 days, the rearing can be carried out in the same tank and on completion of metamorphosis, the juveniles should be graded into several groups and stocked in separate tanks in which biological filtrations system need to be was provided.

Copepod as a live feed

Survival can be significantly made higher when larvae were fed copepods. The higher omega-3 fatty acids found in copepods appear to be important for survival of larvae under more stressful conditions (Anon. 1984). But mass production of copepod is often collapsed due to several factors. Hence dependence on copepod for larval rearing is unreliable until and unless a copepod mass production technique is standardized.

Rearing conditions

The maintenance of high water quality is possibly the critical factor when larval rearing of clown fishes or any marine fishes is done under controlled condition. As a measure for this, the sea water needs to be filtered through a series of sand filter tanks before being taken to the larval rearing tank. However during larval rearing it was found that the period from 3rd to 8th day of post hatching (dph) was very critical may be due to the alteration or change in feeding (exogenous) whereas once the larvae completed 8 days after hatching, no further mortality was observed. During the larval rearing period, in all tanks, the environmental parameters were maintained to their optimum level with pH ranging from 8.0 to 8.4 water temperature 26 - 30⁰ C, dissolved oxygen 5.5 - 7.8 (mg/L), salinity 33-35ppt, NH₄⁺/NH₃ and NO₂ values at 0 mg per L and NO₃ levels below 0.2 mg /L. Daily the tanks were cleaned with cotton and magnetic tank cleaner to remove the dust and slimy coating forming inside the
tank and one fourth water is replaced with same amount of filtered sea water along with enriched rotifer and artemia and micro algae.

**Light intensity**

Head-butting syndrome was another the critical problem encountered during the larval rearing due to the immature development of the retina and subsequent hitting of larval head to the sides of the tank. In order to reduce this, two major measures have been taken that i) all the 4 sides of the tanks were covered with black cloth or painted black to avoid reflection of the light. ii). a low intensity light needs to be provided by hanging 2 nos. of 60 watt bulb or night lamp at a height of 15-20 cm from the surface of water level in rearing tank for 24 hours from 0 day to 20th day which enabled the larvae to detect and capture its feed and it also helped them to swim towards the surface at night rather than sinking to the bottom which otherwise show high over night mortality. The type of lighting is not critical and can be from any source of light, i.e. fluorescent or metal halide etc. The reason for having a light is that the larvae are visual predators and require light to hunt for their live food prey. In addition to these, all the larval tanks need to be covered with net cloth during the night time to prevent the entry of insects.

**Precautions for larval feeding**

In general, the mortality of larvae were reported due to over eating, intestinal blockage, ingestion of air bubbles or bacterial problems. Though Artemia is in regular use for larval rearing of marine fishes, there is one serious concern with introducing unhatched cysts along with the Artemia nauplii to the larval rearing tank and these cysts are often eaten by the larvae and will cause intestinal blockage. Hence care must be taken to separate all the empty cysts from the newly hatched artemia before being added to the larval tanks. It is also equally important to add newly cultured or hatched live food every day because the nutritional value of the live food that remains in the tank will decrease very quickly. The nutritional quality of rotifer also depends upon the quality of feed offered. Hence every day, after water exchange from the larval rearing tanks, new rotifers and or Artemia must be added. The healthy larvae will appear to have a well rounded body and should be swimming in a close horizontal position. Unhealthy larvae will tend to either buzz around on the surface at a 45 degree angle. For the first two days there will be some losses of larvae, if the larvae have been transferred using the siphon method. From day three to eight the larvae will grow very fast. The densities of live food can be reduced as the larvae have become proficient at food capture.
Juvenile rearing

On 19-20 dph, the larvae became juvenile and shift from pelagic to epibenthic stages, and look like a miniature of adult fishes. The rate at which the young fish grow depends on the size of the rearing tank, stocking density, quality and quantity of food given and the water temperature. As the clownfish exhibit social hierarchy, dominant clownfish will grow faster and will suppress the growth of the fish below. This can largely overcome however by growing the fish up all together in a large tank with sufficient host anemones or culling the juveniles to several groups in different juvenile rearing tanks of size 250 to 1000 L capacity fitted with biological filters. At this stage, the stocking density need to be reduced to 90 -100 numbers of juveniles (size range between 8-10 mm) with single host sea anemone in glass or perspex tank at 100 L capacity for initial 1 to 2 months rearing. During juvenile stages, the fishes show different banding pattern and growth rate, and on attaining a size of 24 to 35 mm in total length (TL), the stocking density need to be reduced to 30 to 50 number with single sea anemone in 100 L tank with 80 L bio filtered sea water until marketing. In the case of each 500 L FRP tanks, 130 to150 juveniles can be reared with 1 to 3 sea anemones.

Juvenile feeding

In the juvenile rearing, a survivability 100% were obtained through feeding with different wet feeds: mussel meat, prawn muscle, fish eggs and minced flesh of trash fish at the rate 15 to 20 % of body weight. Apart from these, artemia nauplii 10-15 numbers/ ml and rotifer (B. plicatilis) 50 - 55 nos./ml were given after enrichment with brown algae (10^4 cells/ml) and green algae (10^6 cells/ml) with cod liver and fat soluble Vitamin A, D, E, K, twice a day which helped to retain the colour of fishes and provided adult artemia ( 2 - 4 nos/ml). Through these feeding schedules, the larvae will attain 10 to 12 mm within 30 days of post hatch and the juveniles reaches 25 mm to 35 mm within 60 days and reaches marketable size within 6 months after post hatch. Once in a week, one third water need to be decanted and refilled with same quantity of filtered sea water in all juvenile rearing tanks. With these feed management procedures, 90-95% of larval survivability can be obtained under captive condition under each spawning.

Quarantine

Newly acquired fish or shrimp may carry disease and may infect valuable, healthy, brood stock. They are therefore kept separately, in a tank or system, for three to four
weeks where they are closely observed and treated with medications for possible disease outbreaks.

**Packing and Transportation**

Fishes are starved for about 2-3 days before being exported. A small amount of fresh water is added to the packing water and chemicals may be added to tranquilize for longer journeys. Packing starts just prior to the transportation. Fishes are packed with oxygen and a little water either singly in double polythene bags to ensure that fish are not stranded without water. Polythene bags are packed in cardboard boxes for short journeys and for long journeys they are packed in Styrofoam boxes with some ice to keep the temperature down. Layers of paper may be inserted between plastic bags in the box to avoid catching sight of aggressive species. Packaging methods have improved considerably over the years mainly due to feedback from the customers and many exporters now guarantee almost 100% survivals for most destinations provided that good connecting flights are available. Regulating the standards of the holding facilities and of standards of packing is important to ensure minimum mortality of fish at holding facilities and in transport.

**Conclusion**

Considering the commercial importance of anemone fishes, it is very essential to develop the breeding techniques for mass scale production under captive condition. In order to produce its seeds, healthy brood stocks need to be reared for pair formation and breeding. As the clown fishes are protandrous and breed two times per month, provision of suitable feed and maintenance of environmental parameters are the important management practices for obtaining consistent breeding under captivity.
The ladder of success is best climbed by stepping on the rungs of opportunity
Introduction

The oysters are highly esteemed sea food and considered a delicacy in USA, Europe, Japan etc. In India there is a growing demand for oyster meat in some parts of the country. It is said that ‘oyster’ is scientifically the best known marine animal. It is one of the most widely cultivated species. As early as the first century BC the Romans were the first to develop simple methods of collecting oyster seeds and growing them for food. The Japanese developed ‘Habitat culture technique’ i.e. Culture in nets fixed to bamboo poles during the seventeenth century and at the turn of the 20th century they evolved off bottom culture, especially hanging methods. These methods yielded good results and were adopted by majority of oyster farmers of Japan as the environmental conditions of the coastal areas were highly favorable for practicing these methods. Until recently, oyster farming has been considered as a traditional practice followed only in the temperate countries. The awareness about the vast potentialities for development of oyster farming in tropics is recent. Serious efforts are now being directed in its development under tropical conditions.

Main areas / locations having rich oyster beds / suitable areas for farming in Kerala are: Ashtamudi and Vembanad lakes, Cochin backwaters, Munambam estuary & nearby areas of Sathar Island, Estuaries and the creeks of Dharmadam, Valapatnam, Nileswaram and Chandragiri,

Oysters & their Biology

The shape of the oyster is extremely variable depending on the environment in which it is grown.

- Smooth and elongated when grown individually on soft substrata.
- Corrugated and circular shell with lower valve deep when grown individually on hard substratum.
- Irregular shape when grown with other oysters.
- Circular / elongated with reduced cupped nature when grown fixed to a firm substratum

Reproduction

In the genus Crassostrea sexes are separate but occasionally hermaphrodites occur. During spawning, ripe eggs and sperms are discharged into the exterior where fertilization takes place. Temperature food availability and salinity are considered as important exogenous factors, in influencing the maturation of gonads. A single female measuring 80-90 mm spawns 10 to 15 million eggs at a time.
**Condition Index**

The condition index of the oysters denotes the quality of the meat and it is useful to determine the best period for harvest. It is also helpful to assess the suitability of a locality for culture. High condition indicates greater proportion of meat in the whole weight of the oyster; those in prime condition are tasty when compared to the flaccid and watery meats of oysters in poor condition.

The soft body of the oyster undergoes changes, which are usually related to the reproductive cycle. During the maturation process the gonad increases in weight resulting in increase in the weight of soft body. Before the commencement of spawning the condition index reaches high value and with the release of gametes, the soft body of the oyster looses weight. The condition factor is studied based on weight, volume of both. The percentage of wet flesh weight in total weight gives the condition.

\[
\text{Condition Index} = \frac{\text{Weight of dry meat weight \times 1000}}{\text{Volume of shell cavity}}
\]

In *C. madrasensis* the condition is considered as high if it is above 140 and poor if it is below 70.

**Seed Collection**

Oyster seed are collected from estuaries by placing suitable collectors called cultch in the water column at appropriate period. During spawning seasons the spat collectors are suspended from racks.

**How to prepare a cultch?**

Cultch is the term used for spat / seed collector. For suspended method of oyster culture cultch made of oyster shells have been found to be ideal. Empty oyster shells are cleaned manually to remove the foulers and then washed to remove silt. A small hole is made on the shell and these are strung on 3mm dia nylon rope with a spacing of 15 to 20 cm between each shell (5 shells per meter rope). Such strings are called ren. The spaced rens can be used as such for grow out system. For seed collection purposes the shells are strung continuously without spacers (10 to 15 shells per meter) and after the attachment of seed they shells can be removed and restrung at the rate of 5 shells per meter which is the ideal density for grow out. If the oysters are to be grown by the tray method then empty shells or lime coated tiles can be placed in the trays for seed collection. Lime coated tiles gave encouraging results and on a single tile, as many as 120 larvae are known to settle.

**When to place the cultch for seed collection?**

One of the main factors that determine the success of the farming operation is the period when the clutches are placed for seed collection. If they are laid in advance of spatfall, they may be covered with silt or settlement of foulers, making them unsuitable for the oyster larvae to settle. The larval period in *C. madrasensis* is 15-20 days. The ideal time for laying the spat collectors in the water is about 7 -10 days after peak spawning (as determined by gonad examination and abundance of early
larval stages in the plankton). Strong currents interfere with larval settlement and may result in poor spat collection.

**Selection of farm site**

For site selection several factors are to be considered

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
<th>Methodology for determination of the parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Salinity (ppt)</td>
<td>10 to 38</td>
<td>By titration or refractometer</td>
</tr>
<tr>
<td>2 Depth (m)</td>
<td>1.5 – 4</td>
<td>By sounding or manual</td>
</tr>
<tr>
<td>3 Temperature °C</td>
<td>23-34</td>
<td>Using thermometer</td>
</tr>
<tr>
<td>4 Dissolved oxygen mg/l</td>
<td>3 – 5</td>
<td>Winkler method or by using probe</td>
</tr>
<tr>
<td>5 pH</td>
<td>6.5 – 8.5</td>
<td>pH meter or pH paper</td>
</tr>
<tr>
<td>6 Turbulence due to wave (m)</td>
<td>&lt; 0.5 to 1</td>
<td>By observation and local enquiry</td>
</tr>
<tr>
<td>7 Water current m/second</td>
<td>1 – 5</td>
<td>Current meter or from literature</td>
</tr>
<tr>
<td>8 Clarity (m)</td>
<td>0.5 – 1.5</td>
<td>By Sechii disc</td>
</tr>
<tr>
<td>9 Availability of seed</td>
<td>Within 100 m</td>
<td>By enquiry / observation</td>
</tr>
<tr>
<td>10 Local market</td>
<td>Average to good</td>
<td>By enquiry / observation</td>
</tr>
<tr>
<td>11 <strong>If free</strong> from various pollution like</td>
<td>Faecal Industrial Agriculture Sewage Retting Oil</td>
<td>By enquiry / observation</td>
</tr>
</tbody>
</table>

Sheltered areas offering protection from strong wave action are preferred. From intertidal region to areas extending upto about 5 m depth can be considered for adopting suitable culture method. Similarly the culture technique is adopted depending upon the type of substratum. On-bottom culture method is substrate-specific while off-bottom method has little to do with the nature of substratum. Large-scale mortalities have been reported in salinities below 10 and above 40 ppt when the natural oyster populations of C. madrasensis were exposed for prolonged periods. The natural populations occur at a temperature range of 21 to 31 °C.

**Farming methods**

They are broadly grouped as bottom (on bottom) culture and off-bottom culture. Raft, rack, long-line and stake are used in the various off-bottom culture practices.
The off-bottom culture methods are advantageous over the bottom culture in the following respects.

1. Relatively rapid growth and good meat yield.
2. Facilities three-dimensional utilization of the culture area.
3. The biological functions of the oyster such as filtration feeding etc. are carried out independent of the tidal flow.
4. Silting and predatory problems are negligible.

**On bottom culture**

The oysters are grown either in the intertidal or subtidal area directly on hard substratum. For intertidal culture a minimum of 16 hours submergence is suggested to ensure adequate food supply. Oyster seed attached to the collectors are planted on the bottom and allowed to grow for the market. The disadvantages of this method are increased exposure to benthic predation, siltation and low production. In U.S.A. the production is estimated at 5 t/ha/year and in France 7.5 t/ha/year. This method is yet to be experimented in India.

**Rack and Ren Method**

It is also called ren method. The racks are constructed in 1 to 2.5 m, depth. There are several variations in the types of racks. The single beam rack consists of a beam placed and secured to the top of posts driven into the bottom. A series of single beams are placed in a row. The crossbeam rack is constructed by placing cross bar on top of single posts and two long beams are secured on the end of cross beams. In the farm, the shell strings are suspended from racks. The mortality (including those fallen) is about 45%.

**Rack and Tray Method**

The nursery-reared single spat (cultch-free) measuring about 25 mm are transferred to trays of size 40 x 40 x 10 cm at a density of 150 to 200 oysterlings/ tray. The tray is knitted with 2 mm synthetic twine of appropriate mesh and is suspended from rack. Once the oysters reach 50 mm length they are segregated and transferred to rectangular tray of size 90 x 60 x 15 cm these trays are placed on the racks. Each tray holds 150 to 200 oysters. The average growth rate of the oyster is 7 mm/month and at the end of 12 months the oysters attain an average length of 85 mm in Tuticorin. The production is estimated at 120 t/ha/year. Compared to the string method, this method gives production but the production cost is high.

**Stake culture**

A stake is driven into the substratum and on the top end one nail and on the sides two nails are fixed. The nail holds in position a shell with spat attached. The stakes are placed 60 cm apart. In this method, the nursery rearing of spat is carried on the same stake. For about two months the spat on the top end of the stake are covered by a piece of velon screen. Once the oysters attain 25-30 mm the velon screen is removed and in another 10 months they reach the marketable size. The growth rate
of the oysters in this method is the same as that of the oysters raised by the string method. The production is estimated at 20 t/ha/year.

Farm Management
Periodic checking of the farms is essential. The main points to be checked are replacement of broken farm structure and re suspending loosened rens which touch the estuarine bottom. High mortality rates have been observed when the rens fall on the ground. To tide over these problems periodic checking is essential. Predaters and foulers are also a menace to oyster farmers. Crabs, fishes, starfishes, polychaetes and gastropods are the predators of oysters. Barnacles are fouler that settles on the wooden structures, trays and oysters. It competes for food with the oysters. It also increases the weight of the ren causing damage to the farm structure. Large scale mortalities of oysters due to the diseases caused by the fungus Perkinsus marinus, and the protozoan parasite Minchinia nelsoni, have been reported from temperate countries. Oysters in the natural bed at Tuticorin have been observed to be infected by P.marinus.

Harvest of oysters
The oysters are harvested when the condition is high. Along Kerala harvest is ideal during May in Vembanad and Chettuva estuary and during August – October in Ashtamudi Lake. Generally high condition index is obtained when the gonad is ripe prior to spawning. Harvesting is done manually.

Depuration
Oysters, like other filter-feeding bivalves, accumulate pathogenic organisms in their body. Members of the Salmonella group cause typhoid fever, while coliforms and vibrios cause gastroenteritis. By depuration the bacterial load is brought down to permissible levels, also faeces, sand particles and silt are removed from the alimentary canal of oysters.

The oysters are placed for 24 hours in cleaning tanks under a flow of filtered seawater. About 10-20% of the seawater is continuously replaced. At the end of 12 hours the water in the tank is drained and oysters are cleaned by a strong jet of water to remove the accumulated faeces. The tanks are again filled with filtered seawater and the flow is maintained for another 12 hours. Then the tanks are drained and flushed with a jet of filtered sea water. The oysters are held for about one hour in 3 ppm chlorinated seawater, and then washed once again in filtered seawater before marketing.

Transport and storage
Oysters kept under moist and cool conditions survive for several days. However it is desirable that they reach the consumer within three days of harvest. Studies indicate that oysters packed in wet gunny bags are safely transported for 25-30 hours without mortality and in good condition.
Shucking
The removal of the meat from the oyster is called shucking. A stainless steel knife is used for the purpose. To render shucking easy, oysters are subjected to a wide range of treatments such as exposure to week hydrochloric acid, heat cold, vacuum, microwaves and lasers. Freezing the oysters, or immersing them in hot water are the two methods commonly followed. However in India steaming the oysters for 5 to 8 minutes has been found to be ideal to make the oysters open the valves.

Processing
Oysters are eaten in fresh condition in the half shell in many countries. The oysters are processed in several ways.

Frozen oysters
After depuration whole oysters (shell-on) are frozen by spreading them in a single layer of trays in an air blast freezer with polypropylene film stretched over each tray. Frozen whole oysters packed in polythene bags remain in good condition for six months in cold storage at 25 o C. The liquid within the shell acts as a glaze to protect the meat from dehydration.

Canned oysters
Oyster meat is chilled, washed and blanched in 3% brine containing 0.1% citric acid for 4 to 5 minutes. The balanced meat is packed in cans, and hot 2% brine with 0.1% citric acid is added to the cans. The cans are seamed, sterilized at 115 o C for 25 minutes and immediately chilled and stored.

Smoked oysters
The meat is washed, treated with 5% brine for 5 minutes, drained, dipped in edible oil, spread in a single layer on a nylon wire mesh, drained again and loaded into a smoking chamber. The meat is held in dense smoke and maintained at a temperature of 40 o C for 30 minutes and later at 70 o C for 90 minutes. The smoked oysters are filled in cans with hot refined oil. The cans are seamed, sterilized at 115°C for 25 minutes and immediately chilled and stored.

Oyster stew
Oyster which are too large or badly cut while shucking or those in low condition, are prepared as for canning but are chopped into small pieces and added to milk and spices.
POST-HARVEST FLOWCHART

OYSTER and MUSSEL

Jet Washing

Desanding (Depuration) Envisaged

Heat Shucking

Grading
Counts 150 - 300 / kg

Fresh Live Oysters (Envisaged)

Packing in polybags

Immediate local markets

Icing

Freezing

Canning

Smoking

External Markets
Metro Cities

Immediate local markets

Cold chain Markets
Govt Marketing Agencies
Super markets
Byproducts and utilization
The two shell valves constitute about 85% of the total weight of oyster and contain 52-55% calcium oxide. They are used in the manufacture of calcium carbide, lime, fertilizers and cement. They are useful spat collectors in oyster culture. The shells are broken to pieces and used as poultry grit.

Quality of Oyster Meat and Shell
Oyster meat is relished in most nations. The proximate composition of the oyster meat and the medicinal values attributed to it are given below.

- Oyster meat consists of 52% protein, 14% glycogen and 11% fat
- Oyster powder contains wide range of minerals and vitamins and the amino acid taurine, which has complex medical properties.
- Oyster powder has shown good results in skin care, numerous heart ailments, blood pressure, liver problems, arthritis and rheumatism, diabetes, water retention, premenstrual tension etc.

<table>
<thead>
<tr>
<th>Rack and ren method</th>
<th>Oyster farm</th>
<th>Ren</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>5x5 m</td>
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**Fixed Cost**

1. Fixed cost (Matrial coast

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Rate/unit</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>Bamboo poles (16 poles +14 horizontl poles)</td>
<td>30nos</td>
<td>320</td>
<td>9600</td>
</tr>
<tr>
<td>Rop (Farm costruction) 3mm</td>
<td>2 kg</td>
<td>250</td>
<td>500</td>
</tr>
<tr>
<td>Rope (Ren making )3mm</td>
<td>6kg</td>
<td>250</td>
<td>1500</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
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### 2. Recurring Cost

<table>
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<th>Unit</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell</td>
<td>1500 nos</td>
<td>50 pais</td>
<td>750</td>
</tr>
<tr>
<td>Ren making</td>
<td>300 nos</td>
<td>2</td>
<td>600</td>
</tr>
<tr>
<td>Farm construction</td>
<td>2 labours</td>
<td>850</td>
<td>1700</td>
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<tr>
<td>Installation of spat setters</td>
<td>1 labour</td>
<td>850</td>
<td>850</td>
</tr>
<tr>
<td>Harvesting</td>
<td>4 labours</td>
<td>850</td>
<td>3400</td>
</tr>
<tr>
<td>Canoe hire charges</td>
<td>5 days</td>
<td>250</td>
<td>1250</td>
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<tr>
<td>Depuration charges</td>
<td>1500 kg</td>
<td>7</td>
<td>10500</td>
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<tr>
<td>Fuel charges **</td>
<td>1 cylinder</td>
<td>2000</td>
<td>2000</td>
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<tr>
<td>Shucking charges **</td>
<td>105 kg</td>
<td>50</td>
<td>5250</td>
</tr>
<tr>
<td>Single oyster declumping</td>
<td>3000</td>
<td>1</td>
<td>3000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>29300</strong></td>
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### 3. Marketing expense

<table>
<thead>
<tr>
<th>Item</th>
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<th>Unit</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Live oyster</td>
<td>3000</td>
<td>5</td>
<td>15000</td>
</tr>
<tr>
<td>Heat hucked meat **</td>
<td>105</td>
<td>50</td>
<td>5250</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>20250</strong></td>
</tr>
</tbody>
</table>

**Total financial outlay**

| Shell on                            | 3000     | 20   | 60000 |

---

Edible Oyster Farming in India

Training Manual on Theeranaipunya - Equipping Fisherwomen Youth for Future
Vidya R.

210 The bigger the challenge - the huge the opportunity to grow

<table>
<thead>
<tr>
<th>Shucked meat</th>
<th></th>
<th>105 kg</th>
<th>500</th>
<th>52500</th>
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</table>

<table>
<thead>
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<th>Profit</th>
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<tbody>
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<td>12100</td>
<td></td>
</tr>
<tr>
<td>Shucked meat</td>
<td></td>
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<td>6350</td>
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</table>

Some useful information for planning oyster culture in Kerala

<table>
<thead>
<tr>
<th>Ideal location</th>
<th>Estuaries with salinity 10 to 32 ppt</th>
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<tbody>
<tr>
<td>Duration of culture</td>
<td>6 to 8 months</td>
</tr>
<tr>
<td>Season for culture</td>
<td>Post and premonsoon (November to May)</td>
</tr>
<tr>
<td>Source of Seed</td>
<td>Natural oyster beds</td>
</tr>
<tr>
<td>Method of seed collection</td>
<td>By placing ren during post monsoon period</td>
</tr>
<tr>
<td>Ideal grow out structure</td>
<td>Rack</td>
</tr>
<tr>
<td>Material necessary for oyster farming</td>
<td>3mm nylon rope</td>
</tr>
<tr>
<td></td>
<td>Empty oyster shells</td>
</tr>
<tr>
<td></td>
<td>Bamboo / casuarina poles</td>
</tr>
<tr>
<td>Source of funding</td>
<td>Subsidy given by FFDA/ADAK</td>
</tr>
<tr>
<td>Market</td>
<td>As Fresh oysters locally</td>
</tr>
<tr>
<td></td>
<td>Or to IFP, Cochin as heat shucked meat</td>
</tr>
<tr>
<td>Disease problems</td>
<td>Till now no reports</td>
</tr>
<tr>
<td>For training for farmers/officials</td>
<td>CMFRI, Kochi.</td>
</tr>
<tr>
<td>Pl. contact -</td>
<td></td>
</tr>
</tbody>
</table>

The bigger the challenge - the huge the opportunity to grow
Value addition is the most talked about word in food processing industry, particularly in export oriented fish processing industry because of the increased realization of valuable foreign exchange. Value can be added to fish and fishery products according to the requirements of different markets. These products range from live fish and shellfish to ready to serve convenience products. There is great demand for seafood/seafood based products in ready to eat “convenience” form marketing of value added products is completely different from the traditional seafood trade. Market surveys, packaging and advertising are a few of the very important areas, which ultimately determine the successful movement of a new product. Most of the market channels currently used is not suitable to trade value added products. Appearance, packaging and display are all important factors leading to successful marketing of any new value added product. The retail pack must be clean, crisp and clear and make the contents appear attractive to the consumer. The consumer must be given confidence to experiment with a new product launched in the market. Packaging requirements change with product form, target group, market area, species used and so on. The latest packaging must also keep abreast with the latest technology.

Chilled fish

Chilling is an effective way of reducing spoilage by cooling the fish as quickly as possible without freezing. Immediate chilling of fish ensures high quality products. Chilled fish is another important value added item of international trade. Chilled fish fetches more price than frozen fish. It is generally accepted that some tropical fish species can keep for longer periods in comparison to fish from temperate or colder waters. Up to 35% yield of high value products can be expected from fish processed within 5 days of storage in ice, after which a progressive decrease in the utility was observed with increase in storage days. Modern packaging techniques viz., vacuum packaging, modified atmospheric packaging and active packaging significantly enhances the shelf life of chilled fish products.

Frozen fish fillets

Freezing and storage of whole fish, gutted fish, fillets etc. are methods for long-term preservation of these species. Many varieties of fresh water fishes like rainbow trout, shell fishes, catla, rohu, tilapia fillets can be frozen for domestic market and export to developed countries in block frozen and IQF forms. Fish fillets can also be used for the production of ready to serve value added products such as fish in sauce and fish salads.
Specialty products

Stretched shrimp (Nobashi)

Increasing the length of peeled and deveined shrimp and minimizing its curling by making parallel cuttings at the bottom and applying pressure using simple mechanical devices is a new technique adopted by the seafood processing industry in recent years. Increasing the length by about 1-2 cms depending on the size of the shrimp is possible by this method. The stretched shrimp will have better appearance compared to conventional PD shrimp and it also fetches higher unit price. The stretched shrimp because of its increased surface area will have more pickup of coating during battering and breading and also good appearance. Shrimp is washed in chilled water containing 5-ppm chlorine, beheaded, deveined, using bamboo stick and peeled keeping the last segment and tail intact. The tail is then trimmed and the shrimp is stretched using a metallic stretcher after making 2-3 parallel cuttings at the bottom side. Stretched shrimps are then packed in thermoformed trays under vacuum and frozen at -40°C.

Barbecue

Shrimp is washed in chilled water containing 5-ppm chlorine, beheaded, deveined, peeled and again washed in chilled water. Bamboo stick is then pierced into the meat from head portion to tail. It is then packed in thermoformed trays under vacuum and frozen at -40°C.

Sushi (Cooked butterfly shrimp)

Shrimp is washed in chilled water containing 5ppm chlorine, beheaded, deveined and again washed in chilled water. Bamboo stick is then pierced between the shell and the meat from head portion to tail and then cooked in 1% brine for two minutes at 100°C. The cooked shrimp is then cooled in chilled water, bamboo stick removed and then peeled completely, including the tail fans. The ventral side is then gently cut down lengthwise completely using a sharp scalpel. The cut surface is then gently opened up to form the butterfly shape, packed in thermoformed trays under vacuum and frozen at -40°C.

Skewered shrimp

The process is similar to that of barbecue, but piercing is carried out in such a way that 4-5 shrimps are arranged in a skewer in an inverted “U” shape. It is then packed in thermoformed trays under vacuum and frozen at -40°C.

Shrimp head-on (centre peeled)

Shrimp is washed in chilled water containing 5 ppm chlorine, peeled at the centre keeping the head and the last two segments intact, deveined, and the tail is trimmed. It is again washed in chilled water packed in thermoformed trays under vacuum and frozen at -40°C.
Shrimp head-on cooked (centre peeled)

Shrimp is washed in chilled water containing 5 ppm chlorine, deveined and then cooked in 1% brine for two minutes at 100°C. It is immediately cooled in chilled water and peeled keeping the head and the last two segments intact. The tail is trimmed and again washed in chilled water. It is then packed in thermoformed trays under vacuum and frozen at -40°C.

Battered and breaded products

The most prominent among the group of value added products is the battered and breaded products processed out of a variety of fish and shellfish. Battered and breaded items are included in the value added products because the process of coating with batter and bread crumbs increases the bulk of the product thereby reducing the cost element. The pick-up of coating on any product can be increased either by adjusting the viscosity of batter or by repeating the process of battering and breading. As a convention 50% fish portion is expected in any coated product.

Coated products viz., fish fingers, squid rings, cuttlefish balls, fish balls and prawn burgers form one of the major fish and shellfish based items of trade by the ASEAN countries.

The production of battered and breaded fish products involves several stages. The method varies with the type of products and pickup desired. In most cases it involves seven steps. They are portioning/forming, pre-dusting, battering, breading, pre-frying, freezing and, packaging and cold storage.

The first commercially successful coated product is ‘fish finger; or ‘fish stick’. Later several other products particularly the coated fish fillet, fish portions, fish cakes, fish medallions, fish nuggets, breaded oysters and scallops, crab balls, fish balls, coated shrimp products, coated squid rings etc. became prominent in most of the developed countries with the advent of the fast food trade. The present day production of coated seafood items involve fully automated batter and breading lines which start from portioning and end with appropriate packaging of the product.

A variety of battered and breaded products can be prepared from shrimp, squid, clams, fish fillets, minced meat from low cost fish etc. A brief profile of some important battered and breaded products is given below.

Fish finger or Fish portion

Fish fingers, or portions or sticks are regular sized portions cut from rectangular frozen blocks of fish flesh. They are normally coated with batter, and then crumbed before being flash fried and frozen. They may be packed in retail or catering - size packs. The typical British fish finger normally weighs about 1 oz. (28 g) of which up to about 50% of the total weight may be batter and crumbs. Food Advisory Committee of the UK government has recommended a minimum fish content of 55% for battered and 60% for the fingers coated with breadcrumbs.
Shrimp products

Battered and breaded shrimp can be prepared from wild as well as from farmed shrimp in different styles and forms. The most important among them are butterfly, round tail-on, peeled and deveined (PD), nobashi (stretched shrimp) etc. The products from farmed shrimp have indicated longer shelf life, 16-18 months compared to those from wild variety 12-14 months at –20 ºC.

Fish fillets

The brined fillets are battered and breaded. Fillets from freshwater fish are also used for the production of coated products. The only problem noticed in this case is the presence of fin bones; its complete removal is still a major hurdle.

Squid products

Squid rings and stuffed squid are the popular coated products processed out of squid. Cleaned squid tubes are cut in the form of rings of uniform size, cooked in boiling brine (3%) for 1-2 minutes followed by cooling, breading and battering. The coated rings are flash-fried, cooled, frozen and packed. Stuffed squid is generally processed out of small size animals. The cleaned tubes are filled with a stuffing mixture prepared using cooked squid tentacles, potato, fried onion, spices etc. It is then battered, breaded and flash-fried.

Clam and other related products

Meat shucked out from depurated live clams after boiling is blanched in boiling brine, cooled, battered, breaded, flash-fried and packed. Other bivalves such as oyster, mussels etc. can also be converted into coated products by the same method.

Fish cutlet

Cooked fish mince is mixed with cooked potato, fried onion, spices and other optional ingredients. This mass is then formed into the desired shape, each weighing approximately 30g. The formed cutlets are battered and breaded.

Fish balls

Fish balls are generally prepared from mince of low cost fish. Balls can be prepared by different ways. The simplest method is by mixing the fish mince with starch, salt and spices. This mix is then made into balls, cooked in boiling 1 % brine. The cooked balls are then battered and breaded.

Crab claw balls

Swimming legs of crab may be used for this purpose. Crab claws are severed from the body, washed in chilled portable water and the shell removed using a cracker. The leg meat is then removed and mixed with 2 % starch based binder. This is then stuffed on the exposed end of the claw. Alternatively the body meat mixed with the binder also can be used for stuffing. The stuffed claw is then frozen, battered and breaded and flash fried. The coated products are packed in thermoformed containers with built in cavities.

Ready to serve fish products in retortable pouch

Ready to serve fish products viz. curry products, in retortable pouches are a recent innovation in ready to serve fish products for local market. The most common retortable pouch consists of a 3 ply laminated material. Generally it is polyester/aluminium/cast polypropylene. These products have a shelf life of more than one year at room temperature. As there is increasing demand in National and International market for ready to serve products the retort pouch technology will have a good future. The technology for retort pouch processing of several varieties of
ready to serve fish and fish products has been standardized at CIFT and this technology has been transferred successfully to entrepreneurs.

**Extruded products**

Fish based extruded products have got very good marketing potential. Formulation of appropriate types of products using fish mince, starches etc., attractive packaging for the products and market studies are needed for the popularization of such products. However, technological studies involving use of indigenously available starches like cassava starch, potato starch, cornstarch and the associated problems need thorough investigation. Such products can command very high market potential particularly among the urban elites. The technology can be employed for profitable utilization of bycatch and low value fish besides providing ample generation of employment opportunities.

**Curing**

The traditional methods of processing fish by salting, drying, smoking and pickling are collectively known as curing. Cured fish consumption is more in areas where the availability of fresh fish is comparatively limited, namely interior markets and hilly areas. This is also the cheapest method of preservation, since no expensive technology is used. In India roughly 20% of the fish caught is preserved by curing. Considerable quantities of cured fish are also exported, mainly to Singapore, Sri Lanka and to the Middle East. Simple sun drying was the widely practiced traditional method of fish preservation. By this, preservation was achieved by lowering of water content in the fish, thereby retarding the activity of bacteria and fungi. The heat was able to destroy the bacteria to a certain extent. Later on, a combination of salting and drying or salting, smoking and then drying were developed.

**Methods of Drying**

There are basically two methods of drying fish. The common one is by utilizing the atmospheric conditions like temperature, humidity and airflow. This is traditional sun drying. The other is dehydration or artificial drying, by using artificial means like mechanical driers for removal of moisture from the fish under controlled conditions. Sun drying depends heavily on the natural weather conditions since the fish is dried by heat from the sun and the air current carries the water away. Here there is no control over the operations and many a time the losses cannot be substantiated. Hence it is necessary that the operations be controlled to get a product, which has an extended shelf life, but at the same time the texture, taste and flavour is maintained. It is here that artificial driers where processing parameters are controlled gain a lot of importance. Such processes are carried out in a controlled chamber or area. Such products have advantages over sun-dried products since they have better keeping quality and longer shelf life.

In mechanical driers, removal of water from the fish is achieved by an external input of thermal energy. This is an expensive method since there is need for fuel for heating and maintenance of the temperature. The drying chamber consists of a long tunnel in which the washed and cleaned fish is placed on trays or racks. A blast of hot air is passed over the material to be dried. After the required degree of drying the product is removed from drier and packed.
Salting

This is one of the oldest methods of preservation of fish. Salting is usually done as such or in combination with drying or as a pretreatment to smoking. During salting osmotic transfer of water out of the fish and salt into the fish takes place, which effect fish preservation. It is based on different factors like diffusion and biochemical changes in various constituents of the fish. Salting amounts to a process of salt penetration into the fish flesh. Penetration ends when the salt concentration of the fish equals that of the surrounding medium. Loss of water during salting limits bacterial growth and enzyme activity, thus preserving the fish. The high salt content prevents the growth of normal spoilage microflora in the fish; but halophiles, which can survive 12-15% of salt, will survive.

Preparation of some popular products

Pickled products

Fish pickle makes use of the non-fatty variety of low cost fish having good meat content. Major ingredients are: fish, garlic, green chilly, ginger, chilly powder, turmeric powder, gingery oil/ground nut, salt, vinegar and sugar. The method of preparation of pickle is simple; the preservative being oil, salt and vinegar. The traditional packing is in glass bottles. Modern packing materials suitable for packing fish pickles have also been identified. Pouches and stand packs made of 12 micron polyester laminated with 118 micron LD/HD co-extruded film can be used for packing pickles.

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish (dressed and cut into small pieces)</td>
<td>1 kg</td>
</tr>
<tr>
<td>Mustard (shell removed)-Optional</td>
<td>10 g</td>
</tr>
<tr>
<td>Green chilly</td>
<td>50 g</td>
</tr>
<tr>
<td>Garlic</td>
<td>200 g</td>
</tr>
<tr>
<td>Ginger</td>
<td>150 g</td>
</tr>
<tr>
<td>Chilli powder</td>
<td>50 g</td>
</tr>
<tr>
<td>Turmeric powder</td>
<td>2 g</td>
</tr>
<tr>
<td>Gingelly oil/ground nut</td>
<td>200 g</td>
</tr>
<tr>
<td>Vinegar</td>
<td>400 ml</td>
</tr>
<tr>
<td>Salt</td>
<td>60 g</td>
</tr>
<tr>
<td>Sugar (optional)</td>
<td>10 g</td>
</tr>
<tr>
<td>Cardamom, clove &amp; cinnamon (optional)</td>
<td>1.5 g</td>
</tr>
</tbody>
</table>

Process

Mix the dressed fish with salt at the rate of 3% by weight of fish and dry in the sun/dryer for 2 to 3 hours and then deep fry the fish in oil and keep apart. Then fry mustard, green chilli, ginger and garlic in oil. When frying is adequate add turmeric powder, followed by chilli powder under a low flame and immediately remove from the flame and mixed with fried fish and allowed to cool. Vinegar and salt were added and mixed thoroughly and adjust to a slightly salty taste. Finally sugar was added and mixed thoroughly. Stored the pickle in a clean container for at least 2 overnights.
for maturing and fill in glass bottles or acid resistant packets (12 μ polyester with 250 gauge LDHD polythene co-extruded film pouches)

**Fish Soup Powder**

Fish soup powder can be formulated from any type of fish having very low fat content. Soup powder prepared from different food materials like vegetables, meat, egg are in use in different parts of the world. These are dry products rich in dietary constituents like protein and minerals. The soup powder prepared out of miscellaneous fish is also a rich source of animal protein and other nutritional factors.

*Ingredients used for the preparation of fish soup powder*

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooked fish meat</td>
<td>750 g</td>
</tr>
<tr>
<td>Salt</td>
<td>170 g</td>
</tr>
<tr>
<td>Fat</td>
<td>120 g</td>
</tr>
<tr>
<td>Onion</td>
<td>750 g</td>
</tr>
<tr>
<td>Coriander</td>
<td>12 g</td>
</tr>
<tr>
<td>Tapioca starch</td>
<td>250 g</td>
</tr>
<tr>
<td>Milk powder</td>
<td>100 g</td>
</tr>
<tr>
<td>Sugar/glucose</td>
<td>30 g</td>
</tr>
<tr>
<td>Pepper powder</td>
<td>15 g</td>
</tr>
<tr>
<td>Ascorbic acid</td>
<td>1.5 g</td>
</tr>
<tr>
<td>Carboxy methyl cellulose</td>
<td>3 g</td>
</tr>
<tr>
<td>Monosodium glutamate</td>
<td>5 g</td>
</tr>
</tbody>
</table>

**Method of preparation**

Minced fish can be conveniently used for the preparation of soup powder. If whole fish is using it has to be cooked first and the meat is separated from the bones and skin. Cooked pressed meat is the basic raw material for the preparation. Fry the onion till it becomes light brown. Grind the cooked fish, fried onion and other ingredients in a wet food grinder till it becomes a fine paste. Spread the paste in aluminum trays lined with polyethylene sheet and dried in an electrical drier at 50ºC to reduce the moisture content to 8%. Dried material is then pulverized in a mechanical pulveriser. Milk powder is added and packed in airtight containers or laminated polyethylene bags. It has a shelf life of about 8 months at ambient temperature.

**Preparation of soup**

One-teaspoon full (5 g) of powder is made into a paste with 10 ml cold water. This is added to 90 ml boiling water. Continue boiling for 2 minutes. The soup is ready for use.

**Fish flakes or wafers**

Fish wafers are partially deodorized thin flakes of cooked fish meat homogenized with starch and salt. On frying the wafers swell to two to three times of its initial size.
and become crisp and delicious. It is an ideal snack. Fish mince and starch are the base material for the preparation of wafers

**Ingredients used for the preparation of fish flakes**

<table>
<thead>
<tr>
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<th>Qty</th>
</tr>
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</tr>
<tr>
<td>Refined tapioca starch</td>
<td>2 kg</td>
</tr>
<tr>
<td>Corn starch</td>
<td>1 kg</td>
</tr>
<tr>
<td>Common salt</td>
<td>5%</td>
</tr>
<tr>
<td>Water</td>
<td>3.5 l</td>
</tr>
</tbody>
</table>

**Process**

The cooked fish meat is homogenized in a wet food grinder. Starch, salt and water are added and continued grinding till they become a fine paste. Small portions of the homogenized mass is poured on to flat aluminum trays and spread to a film of 1 to 2 mm thickness. The material is cooked in a steam chamber for 2 to 3 minutes to gelatinise the starch. After this the film become firm and it can be cut into desired shapes. The gelatinized flakes are dried in an electrical drier at 45-50ºC or it can be sun dried. Fry in edible oil and serve hot

**Fish paste**

Fish paste is a high value convenience food popular in South East Asia prepared by mixing fish and salt and allowing it to ferment. This results in the formation of either a paste or a liquid, which is separated from the residue and is used as a flavoring agent. Fish paste can also be prepared without fermentation. Frozen fish paste is not relished because during storage, texture and spread ability are adversely affected.

Fish paste is prepared by finely grinding textures cooked fish meat, gelatinized, starch, sugar, milk powder, colouring matter and flavour (Table 5). It was packed in flexible pouches made of co-extruded polypropylene, heat processed in air steam pressure in an autoclave and stored at ambient temperature. The shelf life is 36 weeks. It become unacceptable due to changes in texture and spread ability. The proximate composition of fish paste is given in Table 6.

**Recipe of fish paste**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish mince</td>
<td>78</td>
</tr>
<tr>
<td>Fat</td>
<td>8</td>
</tr>
<tr>
<td>Starch</td>
<td>8</td>
</tr>
<tr>
<td>Sugar</td>
<td>2.25</td>
</tr>
<tr>
<td>Milk powder</td>
<td>2.50</td>
</tr>
<tr>
<td>Salt</td>
<td>1.25</td>
</tr>
<tr>
<td>Poly phosphate</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Microbiological studies showed that the product is bacteriologically safe for human consumption. Studies showed that the fish paste is acceptable as bread spread or
similar types of products. The large quantity of low value fish with low fat and white flesh available in India can be used for making good quality fish paste.

**Fish Noodles**

This is a product similar to ordinary noodles available in the market, but contains 21% protein. Surimi is used as the base for the production of fish noodles Table 7). Cooked surimi is kneaded with salt and maida. The mix is passed through the extruder. Gelatinised noodles is dried under sun or in an electrical drier at 50ºC to a moisture level of 8%. The dried noodle is packed in airtight containers or polythene bags. The product has very good rehydration property.

**Ingredients used for the preparation of fish noodles**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooked fish mince</td>
<td>800 g</td>
</tr>
<tr>
<td>Maida</td>
<td>1200 g</td>
</tr>
<tr>
<td>Salt</td>
<td>60 g</td>
</tr>
<tr>
<td>Water</td>
<td>1-2%</td>
</tr>
</tbody>
</table>

Just like the noodles available in the market only two minutes cooking is required for the preparation of fish noodles.

**Fish Processing Machinery**

Traditionally, fish processing and value addition has been a labour intensive activity. However, the implementation of HACCP concept in fish processing sector has led to the mechanization and automation of operations reducing the manual labour in operations. Moreover labour shortage in this sector has made the mechanization “a necessity” rather than an option. Many of the fish processing equipment are manufactured in China and European Union. Indigenous fish processing equipment are seldom available. The Central Institute of Fisheries Technology (ICAR), Cochin has recently designed and developed a commercial scale meat bone separator which was found to be efficient for the separation of mince from Indian Major Carps. A variety of fish dryers have been developed in the recent past for hygienic drying of fish. CIFT has developed different models of low cost dryers, solar dryers with backup systems suitable for inland regions for the production of quality dry fish. One notable achievement is the development of an eco-friendly hybrid solar dryer which combine solar energy and LPG. It has the cost advantages of solar dryer with the reliability of LPG backup system during unfavorable weather conditions. CIFT has designed and developed a fish decaling machine for removing the scales of fishes in batches. The operation of the machine can be extended for removal of scales from all types of marine as well as fresh water fishes. There needs to be more inputs in design and development of low cost machineries for economically efficient fish processing operations in the Country.
You create your own opportunity
Backyard Chicken Farming:
For Income, Health and Happiness
M.A. Pradeep* and S.R. Krupesha Sharma
Central Marine Fisheries Research Institute, Kochi 682018, Kerala, India
Email*: drpradeepma@gmail.com

Chicken

Chickens (*Gallus gallus domesticus*) are gregarious, omnivorous, ground-dwelling birds that in their natural surroundings search among the leaf litter for seeds, invertebrates, and other small animals. They seldom fly except as a result of perceived danger, preferring to run into the undergrowth if approached. With a population of more than 19 billion in 2011, there are more chickens in the world than any other species of bird or domestic animal. They are one of the most common and widespread domestic animals and is the second most widely eaten type of meat globally. Chicken along with eggs, provides nutritionally beneficial food containing high-quality protein accompanied by a low proportion of fat.

Origin

The modern breeds of chicken (*Gallus gallus domesticus*) is supposed to be evolved in India from Red Jungle fowl (*G. gallus*), whose original habitat is South and Central India, the Himalayan Terrain, Assam, Burma, Ceylon, Sumatra and Java. Domestication of chicken is believed to have taken place between 7,000 and 10,000 years ago. Apart from *G. gallus* scientists have identified three closely related species that might have bred with the red junglefowl.

Chicken rearing in India and Kerala

Kerala was considered to be one of the major sources of poultry meat and egg and the state was exporting large quantities of egg, meat and fowls to other neighboring countries and states until 1970, all through backyard rearing with indigenous breeds.
of fowls. With the advent of commercial layer poultry farming in other states, this position is reversed. Now Kerala has to import at the rate of 4 lakh eggs a day for internal requirements from neighboring states like Tamil Nadu, Karnataka and Andhra Pradesh.

Chick eggs come second only to mother’s milk in terms of nutritive value. As per the ICMR recommendations, the average per capita egg consumption should be 180 and meat 11Kg. The per capita consumption of eggs in Kerala is only 74 and meat 1.4Kg. Hence there is an urgent need of scaling up production. In Kerala even now 80% of egg production comes from backyard poultry. Fairly significant proportion of landless and marginal farmers makes out their living from poultry and other small ruminants. Besides subsidiary income generation, rural backyard poultry provides nutrition supplementation in the form of valuable animal protein and empowers women.

**Backyard poultry Farming**

Backyard poultry rearing requires hardly any infrastructure setup. Besides targeted egg production, it is a potent tool for upliftment of the poor. It has a very positive impact to improve the socio-economic factors of the socio economically backward people. Backyard poultry production can cater to the nutritional requirements of the family as well as cater to a niche market, thus providing a source of subsistence income.

Backyard poultry can be taken up by every household as a subsidiary occupation, as a source of additional income or to cater to the egg and meat requirements of the family by taking up colored bird units ranging from 10-20 birds per family in their backyards. Such units require very little hand feeding and can give a fairly handsome return with bare minimum night shelter.

Commercial Poultry Production in Kerala is not feasible owing to various reasons. For Kerala to be self-sufficient in poultry egg and meat, the only alternative is strengthening of Backyard Poultry Production, which was once Kerala’s own method of bulk and quality egg production at bare minimum cost.

**Chicken varieties suitable for Backyard Rearing**

**Native (Desi) Chicken**

Native chicken have undergone natural selection and are best adapted for the local climatic conditions, they can survive on kitchen and agricultural wastes and survives well on scavenging and left over feed. They are hardy and resistant to many diseases. They survive well from predators. Native hens are good brooders and have good mothering ability. Native chickens are capable of self propagation; they can set their own nest, lay eggs in nest, brood and take care of their young ones. But native chicken are low on productivity, so to increase productivity improved varieties of chicken need to be reared.
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Breed</th>
<th>Home Tract</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ankaleshwar</td>
<td>Gujarat</td>
</tr>
<tr>
<td>2</td>
<td>Aseel</td>
<td>Chhattisgarh, Orissa and Andhra Pradesh</td>
</tr>
<tr>
<td>3</td>
<td>Busra</td>
<td>Gujarat and Maharashtra</td>
</tr>
<tr>
<td>4</td>
<td>Chittagong</td>
<td>Meghalaya and Tripura</td>
</tr>
<tr>
<td>5</td>
<td>Danki</td>
<td>Andhra Pradesh</td>
</tr>
<tr>
<td>6</td>
<td>Daothigir</td>
<td>Assam</td>
</tr>
<tr>
<td>7</td>
<td>Ghagus</td>
<td>Andhra Pradesh and Karnataka</td>
</tr>
<tr>
<td>8</td>
<td>Harringhata Black</td>
<td>West Bengal</td>
</tr>
<tr>
<td>9</td>
<td>Kadaknath</td>
<td>Madhya Pradesh</td>
</tr>
<tr>
<td>10</td>
<td>Kalasthi</td>
<td>Andhra Pradesh</td>
</tr>
<tr>
<td>11</td>
<td>Kashmir Favorolla</td>
<td>Jammu and Kashmir</td>
</tr>
<tr>
<td>12</td>
<td>Miri</td>
<td>Assam</td>
</tr>
<tr>
<td>13</td>
<td>Nicobari</td>
<td>Andaman &amp; Nicobar</td>
</tr>
<tr>
<td>14</td>
<td>Punjab Brown</td>
<td>Punjab and Haryana</td>
</tr>
<tr>
<td>15</td>
<td>Tellichery</td>
<td>Kerala</td>
</tr>
<tr>
<td>16</td>
<td>Mewari</td>
<td>Rajasthan</td>
</tr>
</tbody>
</table>
Improved Varieties

Vanaraja

Vanarajaisa dual-purpose variety for free range farming in rural and tribal areas. Males weigh about 1.2 to 1.5 kg at 10 wks and females lay about 120-140 eggs in lying year. The bird is hardy and has better immune competence. Because of its multi coloured plumage and brown eggs, it is well accepted by the rural people across the country.

Gramapriya

Gramapriya is alayer type varietydeveloped for free range farming in rural and tribal areas. The bird has the production potential of 230-240 eggs in a year and can lay 160-180 eggs in free-range conditions with minimum supplementary feeding. The males weigh around 1.2 to 1.5kg at 15 wks of age and suitable. The bird has coloured plumage and lays bigger (57-59g) and brown eggs. It is hardy and livability is high.

Giriraja

Giriraja breed of chicken suited for mixed and backyard farming developed by Karnataka Veterinary, Animal, and Fishery Sciences University in Bangalore, India. Females lay 130-150 eggs per year, with each egg weighing 52-55 grams. The eggs have a good hatchability (80-85 per cent), and enable farmers to raise their own stock. Their shells are brown in colour and thicker than that of other commercial eggs. The bird’s exhibit better growth compared to local varieties, they can be raised as free-roaming birds and can be fed with locally available materials. Being good scavengers, they feed on a variety of insects and green foliage. They can also be fed on farm and kitchen waste. The birds are resistant to many diseases, an exception being Ranikhet disease.

Swarnadhara

Swarnadhara is a hybrid chicken breed developed at department of Avian Production and Management (DVPM), Hebbal, Bangalore. It is a Hardy bird having high egg production potential along with better growth compared to other local varieties and are suited for mixed and backyard farming. The bird can be reared for
its eggs and meat. Hens attain a body weight of about 3 kg and the cocks about 4 Kg by 23rd week. They lay about 180-190 eggs in a year. The eggs have good hatchability (80-85 per cent) and enable the farmers to raise their own stock. A day-old chick weighs about 35-40 gm. The eggshell is brown in colour and thicker than that of other commercial eggs and does not break easily. The birds are only layers and not brooders (that is, they only lay eggs and do not incubate them). The eggs have to be hatched by local brooder hens. For backyard rearing, a flock of five hens and one cock can be ideally grown. They can be raised as free roaming birds and can be fed with locally available materials, being good scavengers; they feed on a variety of insects and green foliage. They can also be fed on farm and kitchen wastes. The birds have a high longevity, they are sturdy and resistant to major infections except new castle disease.

**Gramalakshmi and Gramasree**

These two varieties have a high production potential along with better growth rate suited for mixed and backyard farming developed by College of Veterinary and Animal Sciences, Mannuthy. Gramalakshmi birds are white in colour with black speckles throughout the body while Gramasree birds are dark brown with a sprinkling of black, and grey on different parts of the body. The hens attain a body weight of 1.4 kg in five months and start laying eggs after 160 days. The males attain a body weight of 1.5 kg in three months and are popular for their meat, which is low in fat content compared with present day broilers. Both the varieties lay about 200 eggs each year with each egg weighing about 50 gms. The eggshell is brown in colour and thicker than that of other commercial eggs and does not break easily. It can be stored for 8-10 days at room temperature. The birds are hardy and require little care and can be reared in the open. They can be fed on farm and kitchen waste. In addition, they have to be provided with a special protein feed to meet their high production requirement. These varieties have lost their brooding character so native broody hens should be used to brood eggs laid by these birds.

**Athulya**

High producing heat tolerant Athulya strain (ILM-90) of layer chicken is developed for high egg production with desirable egg weight at college of veterinary and animal sciences, Mannuthy. Athulya is a white coloured bird that attains maturity at an early age of 123 days. It produces 280-290 eggs an year.
ORNAMENTAL POULTRY BREEDS

Apart from keeping for meat and eggs, chickens are also kept as ornamental pets. Some ornamental breeds of chicken even fetch more than 10,000 rupees per bird. Some popular ornamental chicken breeds are given below

Phoenix

The Phoenix is an ancient Japanese breed of chicken. Phoenix is a remarkably beautiful chicken breed with long tail and is kept primarily for its exhibition and aesthetic purposes. It lays medium sized white legs, but not frequently enough to call it a utility trait.

Frizzle

The Frizzle is a breed of chicken with characteristic curled or frizzled plumage, they are the best birds to have as pets, are popular due to their sweet personality and fantastic mothering qualities. The Frizzles are fun to look at and their feathers are very soft.

Silkie

The Silkie is a breed of chicken named for its typically fluffy plumage, which is said to feel like silk. The breed has several other unusual qualities, such as dark blue flesh and bones, blue earlobes, and five toes on each foot (most chickens only have four). They come in several colors (red, gold, blue, black, white, and partridge). In addition to their distinctive physical characteristics, Silkies are well known for their calm, friendly temperament. Among the most docile of poultry, Silkies are considered an ideal pet. Hens are also exceptionally broody, and make good mothers. Though they are fair layers themselves, laying about three eggs a week, they are commonly used to hatch eggs from other breeds and bird species.
Golden Sebright and Silver Sebright

They are very small birds and have a sweet nature, they are excellent flyers. Their voice or cry is somewhat higher-pitched. They lay a small white egg.

Polish

The Polish (Also called the Poland) is a European breed of chicken known for its crest of feathers and v-shaped comb.

Kadaknath

Kadaknath is an Indian breed of chicken local to the Madhya Pradesh, where it is known as "Kali masi" ("fowl having black flesh") because the bird is black inside – out – skin, feathers, legs etc. The Kadaknath is popular mainly for its adaptability, and the good-tasting black meat, which is believed to infuse vigor. Its colour stems from the deposition of melanin pigment. Due to the meat's alleged medicinal properties, it is in high demand. The bird is high in iron and amino acids and low in fat. It tolerates extreme heat and cold climatic conditions and requires minimal management inputs. The breed is disease resistant and is valued for the quality and flavour of its black meat.

Housing and Management

In backyard Poultry rearing particular attention may be given to these important aspects namely,

i. To give better ventilation in the night shelter.
ii. Timely preventive vaccinations and deworming.
iii. To provide some amount of balanced feed rather than leaving the birds entirely for scavenging.
Given below is a all-purpose premix developed at College of veterinary and animal sciences, Mannuthy exclusively for the use of backyard poultry. Fairly good egg production can be achieved by providing 50 per cent of daily requirement of feed in the form of balanced feed/commercial feed.

**Concentrate mixture for backyard poultry**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Premix I (%)</th>
<th>Premix II (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groundnut cake (expeller)</td>
<td>52</td>
<td>60</td>
</tr>
<tr>
<td>Gingelly oil cake</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>Unsalted dried fish</td>
<td>20</td>
<td>32</td>
</tr>
<tr>
<td>Broken rice/wheat/dried tapioca</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Mineral mixture for poultry</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

(Source: Kerala Agricultural University)

**Disease Management**

In addition, strict sanitation, good litter management and adequate floor space will help to check the occurrence of diseases.

**Vaccination programme for layer type chicken**

<table>
<thead>
<tr>
<th>Age</th>
<th>Disease</th>
<th>Vaccine</th>
<th>Route</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 1 day</td>
<td>Marek's</td>
<td>HVT vaccine</td>
<td>I/M</td>
</tr>
<tr>
<td>2. 5-7 days</td>
<td>RD</td>
<td>Lasota/F</td>
<td>Occulonasal</td>
</tr>
<tr>
<td>3. 10-14 days</td>
<td>IBD</td>
<td>IBD Live</td>
<td>Drinking water</td>
</tr>
<tr>
<td>4. 24-28 days</td>
<td>IBD</td>
<td>IBD Live</td>
<td>Drinking water</td>
</tr>
<tr>
<td>5. 8th week</td>
<td>RD</td>
<td>R2B/RDVK</td>
<td>S/C</td>
</tr>
<tr>
<td>6. 16-18 week</td>
<td>RD</td>
<td>Killed/Live</td>
<td>S/C</td>
</tr>
</tbody>
</table>

(Source: Kerala Agricultural University)

**Deworming**

Birds should be dewormed starting from 7th week and repeated at 3-week intervals so as to give a total of 4 deworming. Piperazine compounds, albendazole, mebendazole etc. can be used against round worms. Against tape worms, Niclosamide, Praziquintel, Albendazole can be used. While medicating through drinking water, it should be done by mixing the required quantity of medicine in the quantity of water that chicks normally consume in 4 hours’ time (say approximately 6 litres per one hundred, 6 week-old chicks, per day). Additional water should be given only when all the medicated water is consumed by the chicks.
Ectoparasites

On the slightest indication of ectoparasites, the birds should be dusted or dipped and houses fumigated. The following may be used for dusting and dipping, while dipping care should be taken to avoid head dipping. Dipping should be avoided on rainy days.

1. Tick tox – synthetic pyrithrine compound. Dose – as per manufacturer’s instructions
2. Butox – Deltamethrin compound. Dose – as per manufacturer’s instructions

In addition to these, general measures of sanitation such as keeping young stock away from adult stock, keeping the poultry houses and equipments clean, prohibiting visitors into the poultry house, proper disposal of dead birds, prevention of entry of rodents and other birds into the pen and periodical culling will greatly help in checking diseases.
Woman Rights and Empowerment

“When you educate a boy, you educate one individual, when you educate a girl you educate a nation” - Larry Summers

Relevance

Women Empowerment itself elaborates that Social Rights, Political Rights, Economical stability, judicial strength and all other rights should be also equal to men and women. It is the increasing and improving of the social, economic, political and legal strength of the women, to ensure equal-right to women, and to make them confident enough to claim their rights. It is ironical that a country, which has recently acclaimed the status of the first Asian country to accomplish its Mars mission in the maiden attempt, is positioned at the 29th rank among 146 countries across the globe on the basis of Gender Inequality Index. There has been improvement in the position of women, but their true empowerment is still awaited. True empowerment happens when women are educated and financially independent.

Key Concepts

- **Education** - Education is the basic right and an essential tool for achieving equality, development and growth of future generations.

- **Equality as enshrined in the constitution** - Right to equality under Article 14 of the Indian Constitution guarantees to all Indian women equality before law; Equal pay for equal work under Article 39(d), Maternity Relief under Article 42, allows provisions to be made by the state for securing just and humane condition of work and maternity relief for women.

- **Dowry Prohibition Act, 1961** prohibits the request, payment or acceptance of a dowry. Asking or giving dowry can be punished by imprisonment as well as fine.

- **Protection of Women from Domestic Violence Act, 2005**, provides for a more effective protection of the rights of women who are victims of domestic violence. A breach of this Act is punishable with both fine and imprisonment.

- **Sexual Harassment of Women at Work Place (Prevention, Prohibition and Redressal) Act, 2013**, enacted to ensure safe working spaces for women and to build enabling work environments that respect women’s right to equality of status and opportunity. An effective implementation of the Act will contribute to the realization of their right to gender equality, life and liberty, equality in working conditions everywhere.

- **Compulsory registration of marriage**

- **Authorities under different Acts**: where women can approach for the redressal of their grievances.
1. Introduction

Based on the ideas championed by our founding fathers for women empowerment, many social, economic and political provisions were incorporated in the Indian Constitution. Women in India now participate in areas such as education, sports, politics, media, art and culture, service sector and science and technology. But due to the deep-rooted patriarchal mentality in the Indian society, women are still victimised, humiliated, tortured and exploited in different places including one’s own home. Even after almost seven decades of Independence, women are still subjected to discrimination in social, economic and educational field. Though remedies are available under various laws, many are ignorant of these. Social stigma is another issue, which prevents women from exercising their rights.

2. Importance/Advantages

1. Better opportunities to education and work
2. Enabling woman to take decisions in terms of education, career, family and other things
3. Helping to be assertive
4. Being part of nation building, law making process etc.
5. Benefit to self and the families
6. Having access to resources and information for the protection in cases of infringement of rights
7. Positive attitude to bring about a change
8. Develop new skills for group power and self-improvement
9. Overcoming stigma and staying focused on increasing positive self-image.
10. Eradicate extreme poverty and hunger.
11. Promote gender equality and empower women.
12. Reduce child mortality.
13. Improve maternal health
14. Combat HIV/Aids, malaria and other diseases

How to achieve

- **Human Rights or Individual Rights:** A woman is a being with senses, imagination and thoughts; she should be able to express them freely. Individual empowerment means to have self-confidence to articulate and assert power to negotiate and decide.

- **Social Empowerment:** A critical aspect of social empowerment of women is promotion of gender equality. Gender equality implies a society in which women and men enjoy the same opportunities, outcomes, rights and obligations in all spheres of life.

- **Educational Empowerment:** It means empowering women with the knowledge, skills and self-confidence necessary to participate fully in the development process. It means making women aware of their rights and developing a confidence to claim them.

- **Economical and occupational empowerment.** It implies a better quality of material life through sustainable livelihoods owned and managed by women. It means reducing their financial dependence on their male counterparts by making them a significant part of human resource.
• **Legal Women Empowerment**: It suggests the provision for an effective legal structure, which is supportive of women empowerment. It means addressing the gaps between what the law prescribes and what actually occurs. Also it covers how to address the issues legally and which authority to approach in case of their needs.

• **Political Women Empowerment**: It means existence of a political system favouring the participation in and control by the women of the political decision-making process and in governance.

**Practical Session**

Divide the trainees into small groups

**Role-play**

1) Actions you can take against harassment at workplace.
2) Harassment at home. How would you deal with?
3) At home, your brother is treated better than you, given more opportunities of development. How would you react?
4) You are denied a job opportunity because the company prefers only male workers.

What would be your reaction to it?

**Activity Corner - Lessons learnt**

- What is gender equality?
- Which law in India protect women from harassment at work places?
- How do you distinguish between “welcome” behaviour and “unwelcome” behaviour?
- What are the remedies available to women against violence at home?
- What are the benefits of women empowerment?
- You have filed a complaint in a police station against harassment to the nearest police station. The police is not taking any action against the offender.

What is the remedy available to you?

**Summary**

- What is empowerment
- Why it is important
- Rights of women and protection available under Indian law
- Benefits of educating and empowering women
- Disadvantages of not having education and equality
- How to achieve social, economic and political equality.
Women empowerment is the pivotal tool for development
Alternate Livelihood Options
Mathew A.K.
Project Coordinator, IRTC, Palakkad
Email:mathewirtctmc@gmail.com

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Alternate Livelihood Options

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Be the game changer
Alternate Livelihood Options

Training Manual on Theeranaipunya - Equipping Fisherwomen Youth for Future

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1. Be the game changer
2. Mathew A.K.
Management Strategies
Management can be defined as planning, organizing, leading, and controlling of human and other resources to achieve organizational goals effectively and efficiently. Managing a business requires knowledge, dedication, organizational skills and ingenuity. The overall vision for the business may be to address a need, provide a service or create something new. Generating revenue is a given goal for businesses, so the vision statement should be broader than a statement about profits.

The process of managing a business comprises several intertwined elements by which the goals and objectives of the organisation are achieved. These elements or functions include, promoting and marketing the product produced by the firm; making the product available to prospective consumers through proper distribution channels; managing the accounts and finances of the firm; protecting its intellectual property, etc. It also involves creating harmony among the working of various departments and divisions of the firm. Managing human resources and managing relationship with the customers are the most important elements in the whole process of business management. An entrepreneur with good managerial skills can convert the disorganised resources of men, money, material and machinery into a productive business enterprise.

“Good management is the art of making problems so interesting and their solutions so constructive that everyone wants to get to work and deal with them.”

– Paul Hawken (an American entrepreneur, environmentalist, and author)

While managing the start-up stage of a business, three basic activities are there to be carried out;

1. Decide whether the featured business operates in the Primary, Secondary or Tertiary sectors of industry
2. Discuss whether this business operates in more than one sector
3. Discuss/research and suggest reasons why they may do this?

Managing business is a skill that can come from experience or from training in a prior company, and it can even be self-taught from the Internet by smart entrepreneurs, just like they learned the skill of establishing a company, negotiating a contract or filing a patent. They key concepts of managing a business can be summarised as follows:

a) Planning – The ability to plan, to think through what needs to be done, in advance and on paper, is a critical skill that largely determines entire future of a business. The concept of management is determining what is to be done instead of how it is to be done. In large businesses, effective manage business skills requires planning. Planning is essential for developing a firm’s potential. However, many small businesses do not recognize the need for long-range plans, because the small number of people involved in operating the business implies equal responsibility in the planning and decision-making processes.
Nevertheless, the need for planning is as important in a small business as it is in a large one.

b) Organization—Organization/Organizing means bringing together the necessary resources, assembling the right people, and assigning work to specific people to be accomplished at specific times to specific standards of performance. The effectiveness of a particular organizational form depends on a variety of internal and external events for example:

- Competitors (number or activity)
- Technology (internal or external)
- Regulatory environment
- Customer characteristics
- Supplier characteristics
- Economic environment
- Key employees
- Growth
- Strategy (including new products and markets)

c) Focus – The focus must be on high productivity. For growth and success of a business, it is necessary to continually look for ways to increase output while lowering costs. The three R’s for attaining higher productivity are reorganization, reengineering and restructuring. No entrepreneur is born with these skills.

d) Concentration - Concentrate on the important tasks. A successful management never forget to concentrate on their most important task and stay with it until it is done.

e) Concentration - Concentrate on continuous improvement. No business that is static can grow or survive. Continuous improvement requires strategic planning to set new objectives and work toward them. Every growth company needs to innovate continually, maybe spending 20 percent of your revenues on research and development.

f) Constraints and conflicts - Identify constraints and their source. Constraints follow the 80/20 rule – eighty percent are from inside, and 20 percent are from the outside. The best managers are the most creative in overcoming constraints. Another key to successful management lies in controlling conflict. Conflict cannot be eliminated from either the business or the interpersonal activities of the enterprise. A measure of the organization’s success is the degree to which conflict can be exposed and the energies associated with it channelled to develop the firm. Although establishing policies and procedures represents the tangible aspect of organization and management the mechanisms to tolerate and embody challenges to the established operation serve as the real essence of a firm that will survive and prosper.

Managing a business effectively is the key to the establishment and growth of the business. The key to successful management is to examine the marketplace environment and create employment and profit opportunities that provide the potential growth and financial viability of the business. Despite the importance of
management, this area is often misunderstood and poorly implemented, primarily because people focus on the output rather than the process of management. In short, managing a business can be picturised as follows.

![Diagram of managing a business process](image)

Effective communications also play an integral role in managing and operating any successful business. With open communications changes and their effects on the organization are quickly shared.

To sum up, Managing business is a dynamic and an on-going process which continues to operate so long as there is an organised action for the achievement of group goals. It is to direct the resources and the efforts of the business toward opportunities for economically significant results.
I am not a product of my circumstances but my decisions
Introduction

The concept of microenterprise and microfinance was pioneered in 1976 by Nobel Prize recipient Muhammad Yunus, founder of the Grameen Bank (Bank of the Poor), in Bangladesh. The bank was established for the purpose of making small loans to the poor—predominantly women—to help them obtain economic self-sufficiency. Micro-enterprise projects are aimed at improving the status of poor through income generating activities and social development activities. Income generating activities therefore are not an end in itself, but a means to achieve the overall goal of improved status of persons’ lives. A business is "any venture which involves production of goods and/or services to obtain profit." Four types of business in rural areas are:

a. Production: producing goods for selling, e.g. aquaculture, growing fruits and vegetables, sheep rearing
b. Processing/manufacturing: converting raw materials into finished product, e.g. processing of fish into value added products, fruits into jams
c. Trading: buying and selling of the same product(s), e.g. grocery shop, market stall
d. Services: Main line of business is providing a service e.g. hire services, beauty parlour

Micro-Enterprise

Microenterprises contribute significantly to economic growth, social stability and equity. The sector is one of the most important vehicles through which low-income persons can escape poverty. With limited skills and education to compete for formal sector jobs, they find economic opportunities in microenterprise as business owners and employees. Although capital requirements of a micro-enterprise may be low, to the poor it is considered high. Therefore, the risk of undertaking micro-enterprise is not low. For the poor it is very hard to recover from failure of the micro-enterprise. The main differences between micro-enterprises and other enterprises are:

1. Level of capitalization
2. Number of people involved
3. Ownership

Characteristics of Micro-Enterprise

a. small level of capitalization
b. initiated and managed by a household or few individuals
c. self-employment (owner is manager and worker)
d. simple technology and equipment
e. utilization of local resources/raw materials
f. transactions are often informal (no written agreement, based on personal contacts)
g. ease of entry

The role of micro-enterprise in rural development

The main role of micro-enterprise development is "Improving the Socio-economic Status of households through Income generating and Social Development Activities". Encouraging rural population to engage in micro-enterprise, means encourage initiative, risk taking, decision making and income earning. They are able to participate in socioeconomic activities in their communities. Limited technical, literacy and business skills are other major reasons for low status of rural population. Micro-enterprises undertaking requires relatively simple technology and management. When they are engaged in micro-enterprise they can gradually improve their skills. In the case of women, they have a high burden and sometimes many children. Microenterprises usually are household based and women can choose an enterprise which they can combine with their other chores. Employment in other enterprises would not contribute as much to improving women’s status, because women would be employees rather than managers. As a consequence, they are not able to experience the personal changes which have been enumerated above. Lack of funds is an obstacle to develop micro-enterprises. As a group, they can mobilize resources through savings from which members can borrow for micro-enterprise development.

Group members can study together and share experiences, e.g. on technical and financial matters, market information, etc. Through these group activities member's skills improve faster and to a higher extent. As a group, micro-entrepreneurs can be more organized and can use group strength in addressing constraints. For example, the group can arrange training, can buy inputs or run facilities together, can negotiate with buyers, mobilize support from village leaders, etc.

Causes of success or failure of a micro-enterprise

In general, the poor cannot take unnecessary risks. Their resources and conditions are such that they do not have enough to be able to incur losses. If their venture fails, they lose more than their material resources. It erodes their self-confidence. Furthermore, the poor have some kind of distrust of external assistance. When they fail in projects with external assistance, this could reinforce their lack of confidence in external agents.

Business cycle and aspects

Resources and conditions of poor who participate in micro-enterprise are such that they do not have enough to be able to incur losses. If their venture fails, they lose more than their material resources. It erodes their self-confidence and they will be even more dependent on others than before. The supporting institution therefore has to make sure that sufficient safeguards are provided so that success and not failure results. Providing capital funds alone is not enough. To be able to provide adequate assistance we need to have a thorough understanding of the factors that cause success or failure of a microenterprise.
External and internal factors affecting the success or failure of a micro-enterprise

A. Internal factors are those that are within the control of the entrepreneur. These include the knowledge, skills, attitude and resources of the entrepreneur. If the factors contribute to the success of the enterprise they are called "strengths" or positive internal factors. When internal factors are an obstacle to success, they are called "weaknesses" or negative internal factors.

B. External factors are those that are outside the control of the entrepreneur. These include the market situation, economic situation of the community, the weather, etc. External factors that contribute to the success of the enterprise are called "opportunities" or positive external factors. When external factors may become obstacles to the success are called "constraints".

Analysis of the factors affecting the success or failure of a business serves as a guide to determine:

- What external factors (constraints) must be avoided or need to be resolved
- What external factors (opportunities) facilitate the success of the micro-enterprise
- What internal factors (weaknesses) should be improved
- What internal factors (strengths) must be capitalized on

This helps to identify what actions need to be taken by either the supporting organization or the micro-entrepreneur.

Stages in micro-enterprise development

Opportunity scanning

B. Business planning

- production
- marketing
- finance
- organization

C. Implementation

- production
- marketing
- finance
- organization

D. Evaluation

Once an enterprise has started (one business cycle) there are three choices:

- to continue with the existing business
- to cease to operate the existing business
- to open a new business
Common weakness and constraints of micro-enterprises

### Planning stage

<table>
<thead>
<tr>
<th>Stage</th>
<th>Internal (weakness)</th>
<th>External (constraint)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing</td>
<td>No thorough market investigation due to lack of information</td>
<td>Information not available to micro-entrepreneur</td>
</tr>
<tr>
<td>Production</td>
<td>Limited technical skill</td>
<td>Government service in enhancing skill is limited to certain groups</td>
</tr>
<tr>
<td>Financial</td>
<td>Lack of capital</td>
<td>No access to credit</td>
</tr>
<tr>
<td>Organization and management</td>
<td>Limited skill in estimating income, shortsightedness, low business consciousness</td>
<td>Lack of information/education</td>
</tr>
</tbody>
</table>

### Implementation stage

<table>
<thead>
<tr>
<th>Stage</th>
<th>Internal (weakness)</th>
<th>External (constraint)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing</td>
<td>• Lack of market information</td>
<td>• Market fluctuation/price control</td>
</tr>
<tr>
<td></td>
<td>• No contract/ lack of negotiation skills</td>
<td>• Information not available</td>
</tr>
<tr>
<td></td>
<td>• Inability to adjust to market changes</td>
<td></td>
</tr>
<tr>
<td>Production</td>
<td>• Problems with quality of products</td>
<td>• No adequate training and advisory services available</td>
</tr>
<tr>
<td></td>
<td>• In-efficient production</td>
<td></td>
</tr>
<tr>
<td>Financial</td>
<td>• No record keeping</td>
<td>• Lack of training programs in household budgeting and financial recording</td>
</tr>
<tr>
<td></td>
<td>• No profit/loss statement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Mixed accounts of the project with other projects/household accounts</td>
<td></td>
</tr>
</tbody>
</table>

### Marketing strategies for micro-enterprise

The product or the services of micro-enterprises are generally marketed locally. Mouth publicity is the main means to enhance business. Due to the shift in the technology and the taste in the customer preferences, the micro-enterprises need to adapt these new innovative practices for promoting and expanding their business. Implementation of the few innovative practices can help the micro-enterprise to fasten their decision-making process and get closer to being customer oriented.

1. **Direct- Marketing**

This is the most effective tool for micro-enterprise as this is the direct channel to reach and deliver goods and services to customer without using marketing middleman and avoiding unlikely costs. Effectiveness of direct marketing can be enhanced by using direct mails, bulk SMS, telecalling.
2. Events

Organizing, sponsoring and participating in various events like fairs, exhibitions, school and college promotion, flash-mob, etc., will be a good platform for micro-enterprise where they can have direct interaction with their target customers. Events provide an opportunity to induce the feelings for the product and give a real-time experience.

3. Advertising

It is an indirect approach and has a long term perspective, like brand image and brand recall. Being flexible and selective in nature, it is the best medium for micro-enterprise for advertising their products. Local newspapers, local radios, paper inserts, local magazines, and outdoor medium such as pamphlets, posters, banners, hoardings etc are the conventional mediums through which the micro-enterprise can reach the target customers effectively and efficiently in minimum cost. Due to high competition, co-branding is also in practices nowadays, where two entrepreneurs either promote their products together in a single medium or they pool their resources to promote each other's products which can be termed as barter advertising.

4. Sales promotion

It makes the consumer to take a favorable purchase decision by providing one or other kind of direct inducement like discount, price off, gift, coupon etc. It is a short-term and direct approach and expects an immediate response in terms of sales. Free samples, premiums, exchange offers are effective method of sales promotions in the introduction stage of any micro-enterprise.

5. Website

The importance and benefits of internet in today's competitive era is well acclaimed. This promotional tool is efficient, cost effective and its reach is unassuming and overwhelming. Micro-enterprise can create their own website and promote their products and services at a global level. Social media now a days is also one of the most effective and affordable ways to be in touch with customers.

6. CSR

Since the 1990s, environmental and social factors have become increasingly important strategic considerations for enterprises of any size. To be in the good books of the existing and potential customers, micro-enterprise too should continuously do activities related to social cause. Some common practices which a small enterprise can adopt are:

- Say no to Poly bags
- Minimizing pollution level
- Maintaining the quality of the product and checking on regular basis.
Issues in marketing

Out of several problems faced by micro-enterprise, the absence of adequate marketing facilities is one of the major concerns. Almost all types of enterprises face marketing problems, but the micro-enterprise face greater difficulty in the marketing and distribution of their products. Some of these are:-

- Micro-enterprise tends to face tough competition from the products and sales/marketing strategies of large scale enterprises. They face the difficulty in terms of cost, quality, standards, popularity, meeting ever-changing demands/preferences of consumers, etc.
- They lack their own marketing distribution network.
- Most of the micro-enterprise are unaware of the modern marketing and business strategies. As a result, they are unable to cope quickly with changing market scenarios. Though the products they produce has huge market potential but they unable to opt for efficient marketing techniques.
- They lack effective sales promotion because of the lack of funding and resources. They cannot afford to spend much on advertising, sales promotion, market analysis, etc.
- They find it difficult to sell their output at a profit because of higher cost of production and non-standardized quality of products.
- They also have to sell their products at a loss because they cannot bargain with the big buyers and requirement for the urgent need of working capital.

Thus, it is right to say that most of micro-entrepreneurs do not correctly understand as to what kind of products are actually needed by the market, how big/small is the market, when the products are needed and how to deliver such products. All these problems keep them mainly isolated from the market trends and conditions and, thus, tend to restrict their operation.

Modern tools in marketing

The micro-enterprise cannot generate revenue by selling same old products to the same old market in the same old way. There is vast possibility of changing marketing practices. There are many innovative marketing techniques, which can be considered for micro-enterprises.

WWW as a Promotional Tool: Last two decades has shown the Indian business houses that, what an impact an internet can make it to their business. Generating own website and promoting your products and services on globe is now cost-effective.

Customer Relationship Management (CRM): The importance of CRM is known fact to each and every enterprises. As now all the entrepreneurs know that 80 percent of their business comes from their 20 percent loyal customers.
**Digital Advertising:** There is a large number of ways of advertising on the internet and it is expected that advertising will grow exponentially in this connection. The activates can be video recorded and uploaded in the internet, which intern will help the potential industrial buyers to understand the functioning of the micro-enterprises.

**Mobile applications as a Service tool:** Mobile applications can be used as the service tool, the regular updating of payments, receipts, and other business related information will help the customers in meeting their commitments without overlooking at them.

**Improving feedback mechanism:** Marketing function totally depends on your customer information. Micro-enterprise should know exactly who are our end users, why do they purchase our products, when do they purchase in a year, how we can motivate them to do repeat purchase. They need to redouble their efforts at dialogue through social media, internet (Website) and get direct feedback from customers or clients.

**Generate new sparks (Idea):** Micro-enterprise should not relay on their small marketing channels, rather than they need to include even each customer to give their valuable ideas to improve their products.

**Cluster Approach:** Micro-enterprise need to adopt cluster approach to face the competition. This approach depends on the mutual understanding of members. The cluster member must be involved in complementary product rather than competitive products to ensure the working of this approach. The formal way of establishing the cluster will enhance the market capabilities of the micro-enterprise and it gives the cluster members more bargaining power. By this approach the micro-enterprise can get better results and facilities from the Government and they can do co-branding to reach potential customers.
Success is the sum total of all efforts - repeated day in and out
Performance Appraisal of Female Employees / Managers in Fish Business
Mini Sekharan N.
Assistant Professor, School of Industrial Fisheries, CUSAT
Email: minisekharan@yahoo.com

Introduction

Fish business generally carried out by women are culture of food fish and marketing, pre-processing and marketing of captured fish, value addition of fish and marketing, preparation of ready to cook food products and marketing, marketing of ready to eat seafood products, ornamental fish culture and marketing, etc. Business is a dynamic activity and therefore it must have competent, devoted employees and manager. A manager is a person in an organisation who is responsible for the work performance of one or more other persons. The manager’s role is to help the organisation achieve a high level of performance through the utilisation of its human and material resources. Essential managerial skills are technical, human and conceptual. Technical skills include ability to use tools, techniques and specialised knowledge. Human skills include ability to work effectively in interpersonal relationships. Conceptual skills include ability to see the organisation as a whole and solve problems to the benefit of the total system.

Workers/employees are the real asset of enterprise and the basic resource of any business organisation. They use material resources such as information, equipment, and facilities to produce a good or service and must be skilled, trained and motivated to perform well. Only if the employees perform well organisation perform well. A business enterprise must maintain a personnel record and maintain a systematic performance appraisal.

Management Functions

Four important management functions are Planning, Organising, Directing and Controlling.

Controlling is the fourth of the management functions. The control process begins with planning and clarification of performance objectives. Controlling can be facilitated by systems of performance appraisal, pay and rewards, employee discipline and management by objective (MBO). Process of monitoring performance and taking corrective action is the responsibility of all managers in organisations.

The four elements of control process are,
1. Establish performance objectives and standards
2. Measure actual performance
3. Compare actual performance with objectives and standards
4. Take necessary action

NEED FOR ACTION = DESIRED PERFORMANCE - ACTUAL PERFORMANCE
What is Performance Appraisal?

Performance appraisal is an important means for controlling individual behaviour in organisations. Performance appraisal is a process of formally evaluating performance and providing feedback. Initial clarification for objectives and standards are set for performance appraisal. The Performance appraisal facilitates the identification of discrepancies between objectives and results as well as what actions may be necessary. Performance appraisal can be done at the individual, group or total organisational level. A manager can use variety of methods to carryout performance appraisal. Performance appraisal has to be constructive and effective.

Importance /Objectives of Performance Appraisal

1. **Understanding the worth of employees**
   Personal appraisal measures the ability and the physical performance of the employees. It enables the management in understanding the utility of the employee for the business.

2. **Improving the performance of the employees**
   The performance appraisal reveals the weakness of the employees as regards their behaviors and performance. Effective measures are suggested to the employee for the improvement. The employee adopts remedial measures and improves his performance.

3. **Helping employees in knowing their current status**
   Performance appraisals enable employees in understanding their present performance and evaluate him.

4. **Boosting employees morale**
   Employees morale is boosted when he finds that his plus points are not unnoticed and he will suitably rewarded for his excellent performance.

5. **Determination of reasonable remuneration of employees**
   Employee’s remuneration is related to their performance. It helps in determining reasonable wages and salaries of employees.

### Table 1. Benefits of Performance Appraisal System

<table>
<thead>
<tr>
<th>The benefits to the individual</th>
<th>The benefits to the supervisor</th>
<th>The benefit to the organisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Understanding - performance clarifies past achievement, the methods of evaluation, and future expectations.</td>
<td>Understanding - performance appraisal helps identify what support people need</td>
<td>Performance - performance appraisal helps improve the predictability of desirable performance</td>
</tr>
</tbody>
</table>
performance appraisal is a reminder that one's concerns, ideas, needs and plans should be communicated to the supervisors.

HR planning-performance appraisal helps identify staff replacement and training needs.

Personal administration-performance appraisal provides information that can be store and used for decision making on matters such as promotion, termination or transfers.

Confidence-performance appraisal is a reminder that performance is taken seriously by higher management.

Confidence-performance appraisal is a way of letting people know how well they have done and what is expected of them in the future.

Training and development-performance appraisal provides information about personal strength and weakness that can be used to plan training and development programmes.

**Methods of Performance Appraisal**

A more widely used classification of appraisal methods into two categories is traditional methods and modern methods. While traditional methods lay emphasis on the rating of the individual's personality traits, such as initiative, dependability, drive creativity, integrity, intelligence, leadership potential, etc.; the modern methods, on the other hand, place more emphasis on the evaluation of work results, i.e., job achievements than the personal traits. Modern methods tend to be more objective and worthwhile. The various methods included in each of the two categories are listed in Table 2.

**Table 2 Methods of Performance Appraisal**

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Traditional Method</th>
<th>Modern Appraisal Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Ranking method</td>
<td>MBO (Management by Objective)</td>
</tr>
<tr>
<td>2.</td>
<td>Paired Comparison</td>
<td>360 degree appraisal</td>
</tr>
<tr>
<td>3.</td>
<td>Grading</td>
<td>Behavioural Anchored rating scale (BARS)</td>
</tr>
<tr>
<td>4.</td>
<td>Rating scale method</td>
<td>Assessment centre</td>
</tr>
<tr>
<td>5.</td>
<td>Critical incident method</td>
<td>Cost Accounting Method</td>
</tr>
<tr>
<td>6.</td>
<td>Checklist method</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Graphic scale method</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Confidence report</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Forced distribution method</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Forced choice method</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Essay method</td>
<td></td>
</tr>
</tbody>
</table>
Traditional Methods

Ranking Method
It is the oldest and simplest formal systematic method of performance appraisal in which an employee is compared with all others for the purpose of placing order of worth. The employees are ranked from the highest to the lowest or from the best to the worst.

Paired Comparison
In this method, each employee is compared with other employees on one-on-one basis, usually based on one trait only. The rater is provided with a bunch of slips each coining pair of names, the rater puts a tick mark against the employee whom he insidiers the better of the two. The number of times this employee is compared as better with others determines his or her final ranking.

Grading Method
In this method, certain categories of worth are established in advance and carefully defined. There can be three categories established for employees: outstanding, satisfactory and unsatisfactory. There can be more than three grades. Employee performance is compared with grade definitions. The employee is, then, allocated to the grade that best describes his or her performance.

Modern Methods

MBO (Management by Objective)
Planning and controlling are directly intertwined in Management by Objectives (MBO) a technique that involves participatory objective setting and performance review between supervisor and subordinate. MBO helps direct behaviour towards important objectives and control results. Because it involves the element of participation it allows a good deal of self-control to be exercised.
The concept of MBO involves a formal agreement between supervisor and subordinate concerning

(1) The subordinates performance objectives for a given time period
(2) The plan through which they will be accomplished
(3) Standards for measuring whether or not they have been accomplished
(4) Procedures for reviewing results

The 360 degree appraisal

The 360 degree method of performance appraisal is used to make the appraisal process more transparent, objective and participative. It introduced the concepts of self-appraisal subordinates appraisal, peer appraisal and appraisal by customers. It is called a 360 degree method because it involves the evaluation of an employee by persons above him, below him and alongside him. Structured questionnaires are used to collect information from the seniors, subordinates and peers. The employee to be evaluated thus acquires a central position and everyone around him participates in the appraisal process in the 360 degree method. The following four are the main components of 360 degree appraisal- Self appraisal, appraisal by supervisors, appraisal by subordinates, peer appraisal, potential appraisal.
(BARS) Behaviourally Anchored Rating Scales

The problem of judgmental performance evaluation inherent in the traditional methods of performance evaluation led to some organisations to go for objective evaluation by developing a technique known as “Behaviourally Anchored Rating Scales (BARS)” around 1960s. BARS are descriptions of various degrees of behaviour with regard to a specific performance dimension. It combines the benefits of narratives, critical incidents, and quantified ratings by anchoring a quantified scale with specific behavioural examples of good or poor performance. The proponents of BARS claim that it offers better and more equitable appraisals than do the other techniques of performance appraisal we discussed so far.

Developing BARS typically involves five steps-

1. Generating Critical Incidents,
2. Developing Performance Dimensions,
3. Reallocating Incidents,
4. Scaling Incidents,
5. Developing Final BARS Instrument.
If you can’t measure then you can probably manage it too
Customer Needs and Customer Satisfaction
Ramees Rahman M.* and Safeena P.K.
Senior Research Fellow, SEETTD, CMFRI
Email*: rameezrahmanm@gmail.com

Introduction

Customer needs and customer satisfaction can be considered as something that is at the centre of every successful business. Every business needs a reason for their customers to buy from them and not their competitors. This is called a Unique Sales Proposition (USP). Your USP can be identified by completing the phrase "Customers will buy from me because my business is the only...". Your USP can change as your business or your market changes, and you can have different USPs for different types of customer. Any USPs is important because they are driven by what the customer looks for when making a buying decision. It’s very important to review our USP as well as the competitor’s USP to win the market.

Customer

A customer can be defined as the person/organization who buys goods & services. He is the most important asset of any organization. Customers will expect to be given accurate and reliable information about products and services. Customer service is an organization’s ability to identify and supply their customers’ wants and needs. How important a customer is to a business can be well identified with help of some famous quoting.

“There is only one boss. The customer and he can fire everybody in the company from the chairman on down simply by spending his money somewhere else”- Sam Walton (founder of wal-mart).

“The purpose of a business is to create and keep a customer” – Peter Ducker (an Austrian-born American management consultant, educator, and author)

Customer Needs

Customer needs can be defined as the problems that customers intend to solve with the purchase of a good or service. Steve Jobs, CEO of Apple Inc., once said, “Get closer than ever to your customers. So close that you tell them what they need well before they realize it themselves”. Knowing the customer and his needs is most important for a successful business. The more you know about your customers, the more effective your sales and marketing efforts will be. Customer needs can be assessed by analysing the factor such as who they are, what they buy, and why they buy it. The major heads that a business firm has to be aware about its customers can briefly pointed as follows:

1. **Who they are**: A firm must be aware of the gender, age, marital status and occupation of the customers, if it is the firm should be aware of the selling its product directly to individuals. The firm should be aware of the size and kind of business, If it is selling to other businesses
2. **What they do**: It’s worth knowing the occupations and interests of the customers as well as the aim of the businesses, to which the product is sold.
3. **Why they buy:** If you know why customers buy a product or service, it's easier to match their needs to the benefits your business can offer.

4. **When they buy:** A business can massively increase its chances of success if it approaches a customer just at the time they want to buy.

5. **How they buy:** For example, some people prefer to buy from a website, while others prefer a face-to-face meeting.

6. **How much money they have:** A business can be more successful if it can match its offering to what it knows its customer can afford.

7. **What makes them feel good about buying:** If you know what makes them tick, you can serve them in the way they prefer.

8. **What they expect of you:** For example, if your customers expect reliable delivery and you don't disappoint them, you stand to gain repeat business.

9. **What they think about you:** If your customers enjoy dealing with you, they're likely to buy more. And you can only tackle problems that customers have if you know what they are.

10. **What they think about your competitors:** If you know how your customers view your competition, you stand a much better chance of staying ahead of your rivals.

The requirements of a customer can be further categorised into three:

- **Normal Requirements** – requirements typically what one gets by just asking customers what they want.

- **Expected Requirements** – these are the obvious / compulsory requirements. For example, if meal is served hot, customers barely notice it. If it's cold or too hot, dissatisfaction occurs. Expected requirements must be fulfilled.

- **Exciting Requirements** – These are beyond the customer's expectations. If provided, customer would be excited. If not, they would hardly complain.

**Customer satisfaction**

Customer satisfaction can be defined as a marketing term that measures how products or services supplied by a company meet or surpass a customer's expectation. According to J. Willard Marriott, the founder of Marriott corporation, “Customer needs may vary, but their bias for quality never does”.

Customer satisfaction can be used as a metric to manage and improve the businesses and hence it is very important for the marketers and business. It can also be defined as "the number of customers, or percentage of total customers, whose reported experience with a firm, its products, or its services (ratings) exceeds specified satisfaction goals".

The top six reasons which makes customer satisfaction much important can be briefly explained as follows:

1. **It's a leading indicator of consumer repurchase intentions and loyalty:** Customer satisfaction is the best indicator of how likely a customer will make a purchase in the future. Asking customers to rate their satisfaction on a scale of 1-10 is a good way to see if they will become repeat customers or even advocates.
Any customers that give you a rating of 7 and above, can be considered satisfied, and you can safely expect them to come back and make repeat purchases. Customers who give you a rating of 9 or 10 are your potential customer advocates who you can leverage to become evangelists for your company. Scores of 6 and below are warning signs that a customer is unhappy and at risk of leaving. These customers need to be put on a customer watch list and followed up so you can determine why their satisfaction is low. Hence, satisfaction is one of the leading metrics businesses use to measure consumer repurchase and customer loyalty.

2. **It’s a point of differentiation:** Businesses who succeed in the cut-throat environments of a competitive market are the ones that make customer satisfaction a key element of their business strategy. Companies who offer amazing customer experiences create environments where satisfaction is high and customer advocates are plenty.

3. **It reduces customer churn:** An Accenture global customer satisfaction report (2008) found that price is not the main reason for customer churn; it is actually due to the overall poor quality of customer service. By measuring and tracking customer satisfaction you can put new processes in place to increase the overall quality of your customer service.

4. **It increases customer lifetime value:** A study by Info Quest found that a ‘totally satisfied customer’ contributes 2.6 times more revenue than a ‘somewhat satisfied customer’. Furthermore, a ‘totally satisfied customer’ contributes 14 times more revenue than a ‘somewhat dissatisfied customer’. Satisfaction plays a significant role in how much revenue a customer generates for your business. Successful businesses understand the importance of customer lifetime value (CLV). If you increase CLV, you increase the returns on your marketing dollar.

5. **It reduces negative word of mouth:** Customer satisfaction is tightly linked to revenue and repeat purchases. What often gets forgotten is how customer satisfaction negatively impacts your business. It’s one thing to lose a customer because they were unhappy. It’s another thing completely to lose many other customers because of some bad word of mouth. To eliminate bad word of mouth you need to measure customer satisfaction on an ongoing basis.

6. **It’s cheaper to retain customers than acquire new ones:** This is probably the most publicized customer satisfaction statistic out there. It costs six to seven times more to acquire new customers than it does to retain existing customers. Some major customer retention strategies such as blogs (to educate customers), email (to send special promotions), customer satisfaction surveys, Delight customers by offering personalized experiences, etc can be carried out.

**How to increase customer satisfaction?**

In a business world where customer acquisition costs are sky-rocketing, small and medium businesses must focus on building a customer experience to increase customer satisfaction. Some of the ideas are pointed below:
a. Treat your customers like they are your boss:

- Thank all your customers for their business
- Go out your way to help customers
- Try to impress your customers as if you want a pay raise
- Think about your paycheck every time you talk to a customer
- Keep your promises and integrity
- Focus on measuring customer satisfaction

b. Build customer loyalty to increase customer satisfaction: According to Jeffrey Gitomer, the eminent American author and business trainer, ”Customer satisfaction is worthless whereas Customer loyalty is priceless5. Businesses should focus their efforts on creating loyal customers that are sticky and not easily influenced by competitors.

c. Avoid making these customer retention mistakes: No business is immune to unhappy customers. In fact, even companies with the best customer service in the world will still lose up to 9% of their customers to competitors by ignoring customer feedback, taking customer feedback to personally, or using long, boring customer feedback surveys.

d. Set customer expectations early: Setting expectations too high, making ridiculous promises to push a deal over the line, etc are the common mistakes that kills the customer satisfaction. There’s no better feeling than as a customer to have your expectations exceeded.

e. Learn how to survey your customers the right way: A customer feedback survey is the best way to find out how satisfied your customers are, find ways to improve your product or service, and identify customer advocates who really love your product. A quick and relevant survey will help increase survey response rates.

f. Tap into social media to track and monitor customer satisfaction so you can keep your customers happy: Social media provides a great opportunity to increase customer satisfaction. Use social media monitoring tools to keep track of positive and negative feedback, and resolve them accordingly. It can also be used to monitor brand mentions and sentiment, as a customer support channel, and to hold Q&A sessions with customers.

Conclusion

Understanding the customer’s situation and need together with the right offering of products leads to high customer satisfaction and in turn a better running business. Bridging the gap between a firm’s internal quality improvements and external measures of customer needs and satisfaction is an important aspect for the success of a business. In view of these facts, it is not surprising that there is much importance in understanding the link between customer needs and customer satisfaction which affects the profitability of a business.
Customer Relations
Ajith Thomas
Associate Professor - Marketing, Saintgits Institute of Management, Kottayam
Email: ajitht@duq.edu

Goal and Relevance

Customer relations refer to the way a business communicates and interacts with the public to gain and retain customers. It is necessary for a business to cultivate good customer relations to attract and keep a loyal base of customers.

Cost of Customer Acquisition vs Customer Retention?

“Conventional business wisdom contends that it costs 10 times as much to obtain a new customer as it does to retain an existing customer.” John L. Daly (2002), Pricing for Profitability: Activity-Based Pricing for Competitive Advantage John Wiley and Sons ISBN 0471221597 p85.

“Attracting a new customer can cost as much as 15 times more than retaining an existing customer.” Terry Gillen (2005), Winning New Business in Construction Gower Publishing Ltd. ISBN 0566086158 p89.

"Research shows that it can cost up to 30 times as much to get a new customer as it does to keep an existing one. It pays to stay very close to your customers, so you know their exact needs, today and tomorrow. Your aim is to be irreplaceable as their supplier.” Mike Johnston, The Chartered Institute of Marketing.

Key Concepts

- Paradigm shift in the idea of selling and customer relationships is solicited in this training.
- Ideas for selling and customer relations.

Introduction

Be a great sales person by being an expert; gain that knowledge about the product.

- Go out and find this information, talk to experts.
- Take the accountability for yourself for selling, irrespective whether the company has a training program or not. Talk to customers what they liked about your product.

Substance of the topic

- Selling is 20% sales skills and 80 % strategy - Mindset
- Sharing experiences and selling to benefit them; Selling is not pressurizing
- Emphasize the benefits of the product; help them to get a benefit
Your most unhappy customers are your biggest source of learning

- Delete the old model of selling (negative)
- Customers are smart today
- How do we become good at selling?
  - Know your product/understand the product
  - Who is your target audience
  - Sequence/process we will follow
  - Break it up into smaller process – pre approach, approach and closing.
- People wants to buy
- Help them understand what they want to buy
- Lot of information in front of them; clear the path for them after finding the need.
- Provide insight to the customer (beyond the obvious).
- Educate and enlighten them
- Connect with the client
- Learn to sell what you have; if they don’t buy that is not your right target market.

Here are 6 ideas to build customer relationships:-

1. Follow up with the customer after the sale.
2. Send an email newsletter or offer subscriptions to your company blog. Present information your customers need to achieve their goals. Don’t say, “Buy my stuff.” Offer a case study in which your services helped a customer achieve a business goal—make more sales, save money, or increase employee productivity.
3. Arrange phone calls, Skype calls or even a Google Hangout with customers periodically to learn more about their businesses. The more you know, the more you can help with your services and products.
4. Offer special webinars or reports just for existing customers. Context is the key here. Tips for driving safely in the rain make sense when coming from an auto repair shop or tire store.
5. Celebrate customer appreciation days. Invite customers to your office to welcome the New Year, celebrate a holiday, or when your business has reached a milestone. It doesn’t have to be expensive. It just has to be heartfelt.
6. Ask for feedback and welcome all comments...even the negative ones. Use customer feedback to fix problems and identify successes. Sometimes you can’t respond directly but do so whenever you can. Don’t let a problem sit in the room like a giant elephant. That drives customers away.

Source: Keep it simple, stay in touch, Follow the rule – (Your front-line staff will treat your clients the way you treat them; treat your team the way you want your clients treated), pay attention, Care for customers, Be consistent and say thank you.

Practical Session

- Think of 3 things that you enjoyed in the coffee shop regarding the service in the shop and write an appreciation letter praising or thanking the shop owner. – 10 minutes and 10 min. Discussion.
Activity Corner

✓ Role play of customer relations.
✓ Eye, smile, speak enthusiastically, stay connected.

Quotes

✓ "Your most unhappy customers are your greatest source of learning." - Bill Gates, Microsoft
✓ "Get closer than ever to your customers. So close that you tell them what they need well before they realize it themselves." - Steve Jobs, Apple
✓ "It is not the employer who pays the wages. Employers only handle the money... It is the customer who pays the wages." - Henry Ford, Ford Motor Company
✓ "We see our customers as invited guests to a party, and we are the hosts. It’s our job to make the customer experience a little bit better." - Jeff Bezos, Amazon.com
✓ “The best way to find you is to lose yourself in the service of others.” - Mahatma Gandhi
Your most unhappy customers are your biggest source of learning
The personal time management skills are to build a stronger foundation for your success. One skill at a time. With good time management skills you are in control of your time and your life, of your stress and energy levels. You make progress at work. You are able to maintain balance between your work, personal, and family lives. You have enough flexibility to respond to surprises or new opportunities.

What is Personal Time?

Who does your time belong to? When you wake up tomorrow, you’ll start with exactly 24 hours of personal time. However, most of us have traded part of our 24 hours for benefits. If you work or go to school, you have traded part of your time for education or pay. Personal time is what we call “free time” or the time we haven’t already bartered away.

How do we spend our time?

The average person spends the following amount of time in an average day:

1. 8.5 hours sleeping.
2. 1 hour devoted to personal care.
3. 2.5 hours on household chores (cooking, cleaning, gardening, shopping, etc)
4. 8.5 hours at work and/or school related activities on weekdays and (4 to 5 hours on the weekend).
5. 3 hours caring for others, either those who live with us (children and spouses) or those outside of our homes (elderly relatives, volunteer work).

If you add up the numbers, you’ll see that “free time” is really at a premium!

Respecting Priorities

We all have many things to do. How do you decide what to do first? A very common answer is to start from what is most urgent or from what feels most comfortable. This is what you often do automatically, if you don’t learn to prioritize. The truth is that the most important things are typically not urgent, and the urgent things are often not that important for your long-term success. Without solid prioritizing skills you rarely have time for what is most important, you are getting stuck where you are.

Always prepared for unplanned

In personal time management, you always face some unexpected events or unpredictable delays that leave less time to the planned activities than you initially planned. The more clear priorities you have each day, the more prepared you are for such unpredictable situations. Instead of being totally kicked out of the planned way,
you simply sacrifice a few of lower priority tasks, and you are still getting most out of your time. You know that you are prepared and you do your best.

**Ability to say NO**

With all good intentions of people around you, if they get a chance to put their own problems on your shoulders, they will do so. Your ability to say no is an important component of your time management skills. It determines how much of your time will be wasted on solving someone else’s problems. That does not mean you have to be too selfish. You just need to see the line between helping people and simply being used by them.

**Merits and Measures of Personal Time Management**

Most of us do want to be more effective and efficient in our use of time. We want to be more organized; more accomplished, and feel better about how we manage time, one of our most precious resources. We want to move away from missed deadlines, late nights trying to finish things we have procrastinated about for months, lost opportunities, and strained relationships with people we care about. The following steps for effective time management can provide a guide for putting your intentions into action, lowering your stress, and helping you achieve your goals.

1. **Identify your personal and work-related priorities.**

This is a key step in the process. Think carefully about outcomes that are important to you. Write them down, being as specific as possible. Specify exactly what you want to accomplish and by when. If you have multiple priorities in the same area (personal or professional), try to select only one or two initially, or try to rank them as to importance. Trying to work on too many at the same time will increase, rather than lower, your stress level.

**ABC analysis:** allows you to prioritize your tasks into 3 categories.

- A- Tasks that is important and urgent.
- B- Tasks that is important but not urgent.
- C- Tasks that is not important and not urgent.

By prioritizing your tasks into three categories you will get an excellent overview of all your tasks, their importance and urgency.

2. **POSEC method**

POSEC is an acronym that stands for prioritizing by Organizing, Streamlining, Economizing and Contributing, which shall help you to focus our attention on your daily responsibilities. The POSEC method can be summarized as a method to break the main goals into smaller sub goals and tasks, which makes it easier to address one sub goal after another until the main goal is finally accomplished.

The POSEC method is comprised by the following stages:

- Prioritize responsibilities accordingly to your goals and the available time
• Organize what needs to be achieved regularly to maintain success (financial security)
• Streamline tasks you are not fond of, but have to be done (work)
• Economize tasks you would like to perform that are not urgent/important (pastime)
• Contribute to others. (“Giving something back”, social obligations)

The advantages of the POSEC method are that it does not only focus on prioritizing tasks at the workplace but also helps you to prioritize pastime activities and social obligations. In contrast to this is it a disadvantage for people that want to prioritize their tasks and duties at work in a very precise way.

3. **Translate your priorities into concrete goals, with component activities.**

Break each goal into its component activities; identify what steps are needed to achieve the goal. Identify the requirements and resources you need related to each activity step. This helps you organize for success and have what you need to move forward towards goal attainment. Pinpointing resources is especially important if accomplishment of your goal requires the cooperation or assistance of other people.

4. **Consider your monthly calendar or planning notebook a timesaving device.**

Keep it with you and use it to schedule important activities, due dates, deadlines, and appointments. Consistent use of your calendar will provide you with a visual reminder and help you keep track of your commitments. Periodically review your calendar to assess your progress in accomplishing the steps to your goals. Highlight important dates with a marker; this will keep them visible and can serve as a colorful reminder of your planned steps towards goal attainment.

5. **Eliminate distractions**

Distractions of all kinds will decrease your concentration and interrupt you from performing your tasks. In order to manage your time efficient you need to eliminate distractions that prohibit you from performing your tasks or delay the completion of projects. Distractions vary from the internet, emails or the telephone up to multiple tasks that are performed simultaneously (multi-tasking).

6. **Eliminate tasks**

Every once in a while you might notice that you are performing tasks that have absolutely no outcome and are not even important. Sometimes you might have even “created” your very own tasks that no one else is performing and that don’t need to be performed to accomplish your goals. You should try to eliminate as many of these tasks as possible, as these are simply a waste of time.
7. **Identify your own barriers to effective use of time.**

Discovering the motivation for your resistance to time management may assist in understanding your behavior, or lack of it. Is the task to be done boring? Do you really want to do it? Do you feel "too controlled" by the use of a calendar or planner? Reflecting on your own thoughts and feelings about using time may help identify areas you may want to explore further, especially if you aren't satisfied with your achievement of personal or professional goals.

8. **Strive for a balance between "doing" and "being."**

Remember to plan some "fun time" in your schedule. With better time management strategies, you can be more productive, experience improved relationships, and enjoy more "good times" with a minimum of anxiety and stress. Doing "more" is not the ultimate goal of effective time management. More is not necessarily better, and cramming your schedule full of "to do" items doesn't necessarily lead to higher life satisfaction.

9. **Monitoring**

Monitoring helps you to find out how much time you spend for different tasks and - which is more important - it lets you realize how much time you spend with ineffective activities. You can monitor yourself by creating an activity report where you note down your activities, the time that it took and the importance of these activities. As soon as you have monitored your own behavior for a few days you can start analyzing it and if necessary reduce or eliminate unimportant activities.

10. **Time Management Tools**

Modern software applications that allow us to manage time have become very popular with the technological development. These time management tools vary from simple reminders and calendars that can be used with PDAs, mobile phones and smart phones up to software products that were developed for the computer. However, the more complicated and precise such an application becomes, the more time intensive and the less useful they will probably be.

**Practical Session:- Game**

*Jar of Life*

Things required: - Jar, pebbles, sand, small balls or pieces of rock, water

**Lessons Learnt**

- What is personal time management?
- How to achieve personal time management?
- How can we measure personal time?
- What are the different skills to utilize personal time?
Summary

With good personal time management skills:

- You are in control of your time and your life, of your stress and energy levels.
- You make progress at work.
- You are able to maintain balance between your work, personal, and family lives.
- You have enough flexibility to respond to surprises or new opportunities.

Quote :-

“Until we can manage our personal time, we can manage nothing else. Remember nobody is not too busy, it's all about ones priorities”
Become a priority in your life
Relevance

Have you been stressed in the past, any time? The answer I got from most participants, when I asked this question, was “yes”.

Stress is your body's way of responding to any kind of demand, is a common definition. Most of us feel stressed at one time or another. Whether we talk of job related pressures or any sort of tension induced by personal relationships and family problems, stress affects all of us. There are many day-to-day situations that can bring stress in our lives.

Avoiding these situations may prove to be an impossible task. The solution, therefore, lies in knowing how to manage stress. If not managed properly, stress can have a very negative impact on our mental and physical health.

Key Concepts:

What is stress?

Stress is the way we respond to pressure or to demands that are being made of us. Situations which evoke strong emotions such as anger, fear, depression, sadness, and sometimes even happiness produce stress. Stress occurs when the demands made on a person exceed (or they feel they exceed) their ability to cope.

Common symptoms of stress:

- Tight muscles
- Headaches
- Inability to concentrate
- Fatigue
- Compulsive behavior (recurrent, unwanted thoughts (obsessions))
- Health problems
- Irritability
- Sleep disturbances
- Irrational behavior

Eustress: Eustress means beneficial stress. The term was coined by endocrinologist Hans Selye, consisting of the Greek prefix eu-meaning "good", and stress, literally meaning "good stress". A psychological term that refers to the good form of stress that helps an individual or business grow and remain healthy. A business might find it desirable to add types of eustress to its work environment to promote higher performance and the pursuit of excellence within its workforce.
**Wheel of life:**

Ask participants to review the 8 areas on the Wheel of Life. The Wheel must, when put together, create a view of a balanced life for them. If necessary they can split categories to add in something that is missing for them. They can also re-label an area so that it is more meaningful for them. Common categories are:

1. Family/Friends
2. Partner/Significant Other/Romance
3. Career
4. Finances
5. Health (emotional/physical/fitness/nutrition/wellbeing)
6. Physical Environment/Home
7. Fun/Recreation/Leisure
8. Personal Growth/Learning/Self-development
9. Spiritual wellbeing (not necessarily religion – can be sense of self)
10. Others could include security, service, leadership, integrity, achievement or community.

**Strategies to manage stress:**

*Kelly McGonigal: How to make stress your friend?*

McGonigal is a Stanford University psychologist who explains that while we have all spent the last 30 years thinking that stress, and its physical manifestations, were unhealthy; that’s actually not exactly the case. Over the course of her talk at TED, she discusses three studies that shed new light on the stress response, and how to reprogram our thoughts about it to make us healthier.

*Change your beliefs*

The first study follows groups of people who experience varying levels of stress over several years, and then tracks death records. Not only does it show that the people that believe stress can kill, die at a much higher rate; but also it shows that the people who are under more stress, but don’t believe or know about its “negative” effects are actually healthier and more likely to live long happy lives. She explains that it has been shown that the dangerous part of the physical stress responses is in the vascular constriction that occurs while the heart is pumping at an increased rate. This vascular constriction however, has only been documented in people who already believe that stress is dangerous.

So what does this teach us? We need to change our beliefs about stress, that’s for sure. Kelly suggests to go after what it is that creates meaning in your life and then trust yourself to handle the stress that follows.

*Stress facilitates social connection*

The physical stress response has been shown to release the neuro-hormone oxytocin. Heard of it? If you have, it was probably in reference to cuddling, and the happiness response our brain has to physical and social connections. Studies show that not only
does the stress response itself NOT cause dangerous vaso-constriction, but also that; it allows for and increases the release of oxytocin. Kelly comments “When oxytocin is released in the stress response, it is motivating you to seek support. Your biological stress response is nudging you to tell someone how you feel instead of bottling it up. Your stress response wants to make sure you notice when someone else in your life is struggling so that you can support each other. When life is difficult, your stress response wants you to be surrounded by people who care about you”.

**Show you care**

The final research presented by her, followed about 1,000 adults in the US, and watched both how they described their level of stress, and whether or not they spent time helping people, whether it be friends, family, or community members. It also tracked death records of the folks in the study. The results are: For every major stressful life experience, like financial difficulties or family crisis, that increased the risk of dying by 30 percent. But that wasn’t true for everyone. People who spent time caring for others showed absolutely no stress related probability in dying.


**Discussion topic: How do I plan to manage stress?**

**Relevance to you...**

- Knowing yourself
- Exit from your body and see yourself from outside
- Controllable and uncontrollable factors in your life
- How is study of stress relevant to you?

**Substance of the Topic**

How to relive stress?

1. Relaxing Walks
2. Creative Hobbies
3. Sacred Space
4. Breathe!
5. Share with others
6. Do something for yourself
7. Keep a journal
8. Don’t take work home
9. Turn off the TV
10. Get out into nature
11. Stepping out of the loop
12. Avoid conflict
13. Relax
14. Health through Nutrition
15. Sleep
16. Be motivated by stress
17. Don’t lose hope
18. Remember to laugh & play!
Practical Session

- Statue game
- Two truths and one lie game
- Animal Charades
- Meditation
- Story telling

Activity Corner

- Lessons learnt - discussion
- How did I benefit from this session

REFERENCES:

- http://www.businessdictionary.com/definition/eustress.html#ixzz3yEWgtY5z
- https://www.youtube.com/watch?v=RcGyVT AoXEU

QUOTES

Nobody can hurt you without your permission – Mahatma Gandhi.

Annexure 1:
YOUR NAME: ___________________       DATE: _________________
**WHEEL OF LIFE INSTRUCTIONS**

The 8 sections in the Wheel of Life represent balance.

- Please change, split or rename any category so that it’s meaningful and represents a balanced life for you.
- Next, taking the centre of the wheel as 0 and the outer edge as 10, rank your *level of satisfaction* with each area out of 10 by drawing a straight or curved line to create a new outer edge (see example).
- The new perimeter of the circle represents your ‘Wheel of Life’. Is it a bumpy ride?

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**The Wheel of Life Exercise – Coach Instructions**

**Notes:**

- This exercise will help clarify priorities for goal-setting, allowing the client to plan so that their life is closer to their definition of balance.
- Balance is personal and unique to each individual – what may be balance for some may be stressful or boring for others.
- Balance must be assessed over time. So, a regular check on how balanced the client is can highlight useful patterns and help them learn even more about ourselves. You can do this with them, or recommend they do it for themselves.
- Another option with this exercise is that they can ask someone who knows them well to complete the scores for them. It can be helpful sometimes to see an outside perception of your life ‘balance’. Note: This must be someone they trust AND whose opinion they value.

**Detailed Instructions:**

1. Ask participants to review the 8 areas on the Wheel of Life. The Wheel must, when put together, create a view of a balanced life for them. If necessary they can split categories to add in something that is missing for them. They can also re-label an area so that it is more meaningful for them. Common categories are:

   a) Family/Friends
   b) Partner/Significant Other/Romance
   c) Career
   d) Finances
   e) Health (emotional/physical/fitness/nutrition/wellbeing)
   f) Physical Environment/Home
   g) Fun/Recreation/Leisure
   h) Personal Growth/Learning/Self-development
   i) Spiritual wellbeing (not necessarily religion – can be sense of self)
   j) Others could include security, service, leadership, integrity, achievement or community.
2 Ask them to think about what success feels like for each area.
3 Now ask them to rank their level of satisfaction with each area of their life by drawing a line across each segment. Place a value between 1 (very dissatisfied) and 10 (fully satisfied) against each area to show how satisfied they are currently with these elements in their life.
4 The new perimeter of the circle represents their 'Wheel of Life'. You can ask them, "Is it a bumpy ride?"
5 Now, looking at the wheel here are some questions to ask the client and take the exercise deeper:

a. Are there any surprises for you?
b. How do you feel about your life as you look at your Wheel?
c. How do you currently spend time in these areas?
d. How would you like to spend time in these areas?
e. Which of these elements would you most like to improve?
f. How could you make space for these changes?
g. Can you effect the necessary changes on your own?
h. What help and cooperation from others might you need?
i. What would make that a score of 10?
Relevance

Everyone wants success in life. If you have an idea about different strategies of success, this will help your journey to the success. Successful persons achieved their success because they knew how to proceed in their journey to success. Success strategies enable the trainees to crystallize their goal and achieve it through conscious effort.

Key Concepts

Success: - The achievement of something desired, planned or attempted.

Strategies: - A plan of action resulting intended to accomplish a specific goal. It is a way of describing how you are going to get things done.

Positive thinking: - Positive thinking is a mental attitude in which you expect good and favorable results. In other words, positive thinking is the process of creating thoughts that create and transform energy into reality.

Introduction

“If you want to shine like a Sun, first burn like a Sun” - A.P.J Abdul Kalam
In the modern era everyone is in pursuit of success. All the human beings want success in life. Success is the result of the effort one puts in to achieve what he likes. Success gives confidence in life. If you go through the life history of successful people you can notice that their success is the result of a systematic life. Success doesn’t happen all on a sudden. It is the result of the efforts and hard work that one is putting in. When one gets the desired result he gets satisfaction. This is the state of mind that gives pleasure and peace. If a woman know the secret of success it is easy for her to lead the family towards success. If all the persons knew how to be successful, that nation can attain greater heights.
A proper success strategy is essential for achieving success in life. A strategy is a plan of action resulting intended to accomplish a specific goal. It is a way of describing how you are going to get things done. Applying techniques and success strategies are the best ways to discover and stay focused on your life's journey. The following points will help you in attaining success.

Set the goal first

Success is a journey to a destination. First of all you must set the goal for your journey. What is important for a person may not be important for another person.
You must prioritize what is important in your life. We should always stick on to the set goal. This will help you to keep focused on life which is essential for a successful life.

**Positive thinking**

Always think positively. Try to find out the positive aspect of every person or incident that you come across. It gives lots of energy to you. A positive person anticipates happiness, health and success, and believes he or she can overcome any obstacle and difficulty. With a positive attitude we experience pleasant and happy feelings. This brings brightness to the eyes, more energy, and happiness. Our whole being broadcasts good will, happiness and success. Even our health is affected in a beneficial way. We walk tall, our voice is more powerful, and our body language shows the way we feel.

People are more disposed to help us, if we are positive, and they dislike and avoid anyone broadcasting negativity. Negative thoughts, words and attitude, create negative and unhappy feelings, moods and behavior. When the mind is negative, poisons are released into the blood, which cause more unhappiness and negativity. This is the way to failure, frustration and disappointment.

In order to turn the mind toward the positive, some inner work is required, since attitude and thoughts do not change overnight.

1. Read about positive attitude, think about its benefits, and persuade yourself to try it. The power of your thoughts is a mighty power that is always shaping your life.
2. Use your imagination to visualize only favorable and beneficial situations.
3. Use positive words in your inner dialogues, or when talking with others.
4. Smile a little more, as this helps to think positively.
5. Once a negative thought enters your mind, you have to be aware of it, and endeavor to replace it with a constructive one.

**Happiness**

Our daily decisions and habits have a huge impact upon both our levels of happiness and success. Scientifically, happiness is a choice. It is a choice about where your single processor brain will devote its finite resources as you process the world. If you scan for the negative first, your brain literally has no resources left over to see the things you are grateful for or the meaning embedded in your work. But if you scan the world for the positive, you start to reap an amazing advantage.

According to Shawn Achor, a decade of research in the business world proves that happiness raises nearly every business and educational outcome: raising sales by 37%, productivity by 31%, and accuracy on tasks by 19%, as well as a myriad of health and quality-of-life improvements. The greatest advantage in the economy is a happy workforce.

We are taking many things for granted. Try to find happiness in the small things in life. Following tips will help you in this regard.
• Write down three new things you are grateful for each day.

• Write for two minutes a day describing one positive experience you had over the past 24 hours.

• Exercise for 10 minutes a day

Value of time

Time is one of our most important resources. Effective time management is a skill. If a person wants to succeed, he must realize the value of time. Lost time means lost opportunity. The first two crucial steps in taking control of time are

• Establishing goals
• And following a schedule.

Punctuality is a habit where an individual does things on time. It is one of the secrets for success and one of the hallmarks of leaders. Punctuality means being systematic maintaining everything in orderly manner and completing the task and being available on time. Punctuality is all about doing things timely and being aware of the importance of time. It helps in managing one’s own time thereby respecting others’ as well.

Hard work

You do not come across success just by hoping for it. To achieve true success, you need the strength of mind and body to struggle and work hard to reach your fullest potential. You need the right attitude, self-discipline and the ability to put your goal before your own needs, if you are really driven towards reaching success. Intense hard work along with great skills shall help you win one success after another. There shall be innumerable obstacles strewn in your path towards success, however, what makes a man truly worthy of the success that he attains is the ability to keep struggling until he can reach his goal. Giving up after a few failed attempts makes you a loser.

A truly successful man will keep trying and keep struggling until he perfects his art. Thomas Edison failed approximately 10,000 times while he was working on the light bulb and yet he never dreamed of giving up – this is the hard work and the determination that marks a true success.

The Mantras to success comprise of 5 ‘S’

1. Struggle: - One’s success is determined by how well one bears his/her struggles in life. When one is faced with challenges, s/he learns to be a fighter. A fighter will survive and come out victorious at all cost.

2. Survive: - It is the hope that helps an individual to survive while struggling to achieve the unexpected. Individuals who succeed in the longer run are the people, who have valued each small lesson they have learnt in the process.
3. **Sustain**: - The most important step towards success is sustaining after one’s survival. Building a strong base will strengthen one’s standing in the long run. The continuous process of betterment can well define sustainment.

4. **Strive**: - To strive continuously towards your goals and against all odds is not a small act. It requires the strength of character and faith in one’s own abilities. Many individuals give away because of the continuous process of striving.

5. **Success**: - Having struggled to survive led an individual to sustain to strive to achieve the unexpected. The world terms the unexpected as ‘Success’! Define success according to self and not how the world wants it to be. Always be ready to struggle with passion, survive against all odds, sustain through one’s small victories and strive for the ultimate. Success will always be there waiting for the “Successful”!

**Case study**

**Nicholas James "Nick" Vujici**, born 4 December 1982 is a Serbian-Australian Christian evangelist and motivational speaker born with Phocomelia, a rare disorder characterized by the absence of all four limbs. As a child, he struggled mentally and emotionally as well as physically, but eventually came to terms with his disability. He presents motivational speeches worldwide which focus on life with a disability and finding hope and meaning in life.

During secondary school, Vujicic was elected captain of Runcorn State High School in Queensland and worked with the student council on fundraising events for local charities and disability campaigns. When he was seventeen, he started to give talks at his prayer group and later founded his non-profit organization, Life without Limbs.

Vujicic has written that he keeps a pair of shoes in his closet due to his belief in miracles. In 1990 he won the Australian young citizen award for his bravery and perseverance. In 2005 he was nominated for the Young Australian of the Year Award.

Vujicic graduated from Griffith University at the age of 21 with a Bachelor of Commerce degree, with a double major in accountancy and financial planning. Subsequently he became a motivational speaker, travelling internationally and focusing on teenage problems. Having addressed over three million people in almost 57 countries on five continents. Vujicic promotes his work through television shows and through his writing.

After sowing an inspirational video of Vujicic, participants are asked to share their views on it.

**Activity Corner**

1. List out five things that you give importance in your life.
2. Write down two positive things that happened in your life.
3. What are your suggestions to bring happiness in life?
Successful Career and its Attributes
Sandhya Sukumaran
Senior Scientist, Marine Biotechnology Division, CMFRI, Kochi
Email: sandhyasukumaran@yahoo.com

Everyone wants to succeed in life and career and a few people only will realize their wish. But there is no short cut to success as it could only be realized through sustained efforts and hard work.

So to begin with we shall see the tips to a successful career.

Tips to a successful career

1. Set priorities and goals

It is very important to set your priorities. Think deeply and decide about what you want to achieve. Discuss with your peers and make an appropriate decision. Probably at this stage you can set 2-3 achievable goals. Once the goals are set, plan it accordingly. Make a daily plan and fix priorities for each day. The most important and urgent ones should be mentioned at the top.

2. Have adequate focus

You should be mentally and physically ready for the goal. All distractions should be blocked so that you get adequate time to focus on your tasks and career. It needs a single minded devotion.

3. Enhance and broaden your skills

It is the most important step to reach into a successful career. You should be able to judge yourself and identify the weak points. Update your knowledge and skills. You should aim at continuous improvement of your skills and be ready to learn anything new from any source. Attend any kind of conferences, seminars, read books and be an eternal reader.

4. Improve socialization skills

Socialization is an important step in improving your personality traits. You should be an active listener first and should show some interest and enthusiasm in knowing the other person. You should try to know more about them so that you will get adequate attention and respect.

5. Know about yourself; your merits and demerits

You should be aware of your strengths and weaknesses. Be confident enough to claim a promotion or position if you feel you deserve it.
6. **Accept challenge**

Accepting challenges will help you to discover different facets of your personality. You may be able to realize your hidden talents. Step away from your comfort zone and explore new horizons. If you are settling into a routine and playing safe all the time you are not going to get beyond that and will never get ahead in your career. 'If you always do what you've always done, you'll only get what you've already got'.

7. **Improve your communication skills**

You should be able to communicate effectively which is the most essential step to a successful career. Listening to other's viewpoints, giving constructive suggestions and feedback, persuading effectively and asking for help and information are some of the important traits of an effective communicator.

8. **Avoid gossips inside the organization**

We should avoid gossips about colleagues and the boss. Keep respect and work sincerely for the organization.

9. **Find time to relax**

Find time to do a hobby or anything which can make us happy. Take time off from your work. This will boost your productivity.

10. **Have satisfaction and enjoyment**

If you are unable to find satisfaction and enjoyment in what you are doing, avoid doing it and find some alternative. Never hang on it. You will be a total failure.

Every human being has two sides on their personality; one side will ask us to advance further and the other side will ask us to pull back. We can cultivate any of these and that determine what we become ultimately. Hence training is important, as proper training enables us to cultivate the best trait and thus we could also succeed in life. But you cannot wait for others to assist you towards it. Achievement and advancement in our career is about gaining self-control and will power, setting firm resolutions and making a commitment to conquer your weakness and bad habits. You should always try to improve regardless of your position in the organization. Success is attained by excessive learning and using that knowledge to set firm goals and then trying to see that the accomplishments are taken till the end. Instead of focusing on problems, focus on solutions. We may not be able to visualize a solution immediately, but it does not mean it is not there. It is best to make use of our subconscious voice to gain answers and move beyond your horizon instead of listening to our own inner voice which says that a particular goal or aim can’t be achieved. People who have a strong sense of self-worth think that they will be able to handle any hurdles that arise in pursuit of their goals. Those who are willing to pay the price will succeed. We develop ourselves when faced with a difficult situation, which requires effort and utilization of our faculties. We should also learn to get rid of distractions, focus on our priorities. We should not concentrate on easy things first; rather it will be good to prioritize commitments which provide the highest
Successful Career and its Attributes

return. Try to understand what will be of value to you, the type of job you want, type of people that you would like to be around, money that you want to make and the type of knowledge that you wish to gain. When you interact with people with sincere caring, positivity and understanding you get back cooperation and friendship. You may look for the good in every one. When we focus on the positive traits we win their trust and loyalty. We should surround ourselves with can-do people. This will improve our chance for success. Never make friendship with people who try to hinder our ambition and creativity. When we interact with people with positive attitudes we catch their ambitious attitudes and beliefs. Successful people are good fighters and they will hang on something after others let it go. Resiliency is an important attribute on the road to achievement. Problems should be viewed as temporary and surmountable so as to meet hurdles. Those who are less successful at work see the smallest set-backs as tragedies and quit the scene. If you choose a career that is enjoyable, you will be able to give your best to the job and money and success will follow. When you are able to find pleasure in your work, you achieve more and happiness only will breed creativity and ambition. So those who are contented with their work will give out maximum. If you aim for something great, remember that it cannot be achieved alone. When you listen to other people's viewpoint with sympathy and appreciation you will be successful in gaining their trust.

Planning for a successful career

Career planning should be done regularly so as to move forward in our jobs and careers and hence you should start as early as possible. It should be taken as an enjoyable activity which is liberating and fulfilling and it helps you to achieve your goals in your career. It should be taken as a rewarding and positive experience. Career planning should be done annually. Block all distractions and focus on your career and think what you really want to get out of your career and life. When career planning is done annually, you feel more secure in career choice and you will be prepared for any uncertainties that lie ahead in your jobs and career. Once it is done, take time off to review and reflect on the path; whether it was the correct decision. Also think of the things that you could have done differently. Your attitudes, likes, dislikes, needs and wants might have changed and hence move on with the new passion. Even after the review and self-assessment, if you find that you wish to continue with the same decision, and then your choice was correct. Sometime your hobbies could be made to transform into a career which will give you dedication and success. Keep a record of accomplishments in work so that a powerful resume is always ready in hand. Identify the transferable skills in you which would be valuable for many other jobs. Information about trends in career and job is also important and vital for long-term success. Once you gain knowledge about career trends, you can concentrate on developing a unique set of accomplishments, skills and education. Exploring new education and training opportunities also leads to power and success. We should never miss an opportunity to learn and grow more as a person and hence always find new training opportunities.

Conclusion
A successful career is a culmination of hard work, good attitude, will power and resilience. Hence building these capacities will ensure your success.
Whether you think you can or you think you can’t, you’re right
Introduction

SWOT analysis (strengths, weaknesses, opportunities, and threats analysis) is a framework for identifying and analyzing the internal and external factors that can have an impact on the viability of a project, product, place or person. SWOT analysis guides to identify the positives and negatives inside an institution / organization / group (S-W) and outside of it, in the external environment (O-T). Developing a full awareness of a situation can help with both strategic planning and decision-making. The technique is credited to Albert Humphrey of the Stanford University, USA and was originally developed in the 1960s for business and industry, but it is equally useful in other arenas, and even personal growth. SWOT is not the only assessment technique you can use, but is one with a long track record of effectiveness. The strengths of this method are its simplicity and application to a variety of levels of operation. The technique that enables a group / individual to move from everyday problems / traditional strategies to a fresh perspective.

Analyzing internal and external environment

![Diagram of SWOT Analysis]

Figure 1: Depiction on the dimensions of SWOT
As depicted in Figure 1, **Strengths and Weaknesses** are considered *internal* factors—that can be controlled internally. How the market or business is managed controls whether it is a strength or weakness. Similarly, **Opportunities and Threats** are considered *external* factors—over which the members of the organization/group have little control. Accordingly, it is the job of the manager of the group/organization to **respond** appropriately.

**Strengths**

- Characteristics of the business or a team that give it an advantage over others in the industry.
- Positive tangible and intangible attributes, internal to an organization.
- Beneficial aspects of the organization or the capabilities of an organization, which includes human competencies, process capabilities, financial resources, products and services, customer goodwill and brand loyalty.
- Examples - , Well-known brand name, , Lower costs [raw materials or processes], Superior management talent, Better marketing skills, Good distribution skills, Committed employees.

**Weaknesses**

- Characteristics that place the firm at a disadvantage relative to others.
- Detract the organization from its ability to attain the core goal and influence its growth.
- Weaknesses are the factors which do not meet the standards we feel they should meet. However, sometimes weaknesses are controllable. They must be minimized and eliminated.
- Examples - Limited financial resources, Limited distribution, Higher costs, Out-of-date products / technology, Weak market image, Poor marketing skills, Limited management skills.

**Opportunities**

- Chances to make greater profits in the environment - External attractive factors that represent the reason for an organization to exist & develop.
- Arise when an organization can take benefit of conditions in its environment to plan and execute strategies that enable it to become more profitable.
- Organization should be careful and recognize the opportunities and grasp them whenever they arise. Opportunities may arise from market, competition, industry/government and technology.
- Examples - Rapid market growth, Changing customer needs/tastes, New uses for product discovered, Economic boom, Sales decline for a substitute product.

**Threats**

- External elements in the environment that could cause trouble for the business - External factors, beyond an organization’s control, which could place the organization’s mission or operation at risk.
SWOT Analysis for Assessing Entrepreneurship Readiness

- Arise when conditions in external environment jeopardize the reliability and profitability of the organization’s business.
- Examples - Entry of foreign competitors, Changing customer needs/tastes, Rival firms, adopt new strategies, Increased government regulation, Economic downturn.

Aims of SWOT Analysis

The following are the main aims of SWOT analysis;

i. To help decision makers share and compare ideas.
ii. To bring a clearer common purpose and understanding of factors for success
iii. To organize important factors linked to success and failure in the business world.
iv. To provide linearity to the decision making process allowing complex ideas to be presented systematically.

When to use SWOT?

A SWOT analysis can offer helpful perspectives at any stage of an effort. It may be used for the following purposes;

- Explore possibilities for new efforts or solutions to problems.
- Make decisions about the best path for your initiative. Identifying your opportunities for success in context of threats to success can clarify directions and choices.
- Determine where change is possible. If you are at a point of making a decision, an inventory of your strengths and weaknesses can reveal priorities as well as possibilities.
- Adjust and refine plans mid-course. A new opportunity might open wider avenues, while a new threat could close a path that once existed.
- SWOT also offers a simple way of communicating and is an excellent way to organize information you have gathered from studies or surveys.

How to conduct SWOT Analysis?

Conducting a SWOT analysis involves three main steps, viz., (i) Analyzing internal and external environment, (ii) Performing SWOT analysis and document and (iii) Preparing action plans.

As indicated earlier, analyzing internal and external environment involves developing a clear understanding on the various decisive factors that could influence the success or failure of an endeavor. These factors could be later identified as strength, weakness, opportunities and threats based the nature in which they interact with the task on hand as well as the stakeholders involved. The second step is actually carrying out the analysis. This involves the following specific activities;

- Establishing the objectives for which the SWOT analysis is carried out – This could be wide/narrow, general/specific.
- Select contributors – Expert opinion may be required for SWOT.
Leadership is the capacity to translate vision into reality

- Allocate research and information gathering tasks – This may be carried out in two stages - explorative and detailed.
- Creating a workshop environment that enables free flow of information among the people involved.
- Listing strengths, weaknesses, opportunities and threats.
- Evaluating listed ideas against objectives – sorting and grouping ideas in relation to the stated objectives.
- Carry the findings forward by making sure that SWOT analysis is used in subsequent planning. It is also helpful to revisit the findings at suitable intervals.

The third main step involves preparing the action plans. The action plans are subsequently categorized into (i) Things that must be addressed immediately (ii) Things that can be handled now (iii) Things that should be researched further and, Things that should be planned for future.

**Pitfalls of SWOT Analysis**

- SWOT can be very subjective. Two people rarely come up with the same version of a SWOT. It can only be used a guide but not as a prescription.
- May cause organizations to view circumstances as very simple due to which certain key strategic contacts may be overlooked.
- Categorizing aspects as strengths, weaknesses, opportunities and threats might be very subjective as there is great degree of uncertainty in real world.
- To be effective, SWOT needs to be conducted very regularly. The pace of change makes it very difficult to anticipate developments.
- The data used in the analysis may be based on assumptions that subsequently prove to be unfounded (good and bad).
- It lacks detailed structure, so key elements may get missed.
Time Management Resources and Priorities
Mary Matilda
Principal, Maharajas College
Email: metildamary@yahoo.com

Time is an important resource to be managed. Because of lack of time management skills most of the people complain about time.

- I need more time
- I want to enjoy my life more. I am always running around. I never have time for myself
- My friends and family want more of me- but how do I give it to them.
- I am always in crisis because I procrastinate, but I procrastinate because I am always in crisis.
- I have no balance between my personal life and work. It seems like when I take time one for the other, it just makes matters worse.
- There is too much stress!
- There is too much to do- and it is all good. How do I choose?

We always listen to such statements from various people. If we don’t understand the basic problem for time mismanagement we may not be able to practice effective time management. This session on time management will help the participants

(i) To understand the causes of time mismanagement based on the time management matrix by Steven Covey.
(ii) To have a discussion on time cheaters in participant’s personal life
(iii) To have awareness for role prioritization
(iv) To have discussion on effective time management.

The following time management matrix will give us the major cause of our time mismanagement.

**Time Management Matrix**

<table>
<thead>
<tr>
<th>URGENT</th>
<th>NOT URGENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>II</td>
</tr>
<tr>
<td>III</td>
<td>IV</td>
</tr>
</tbody>
</table>

The above matrix says that all activities we do can be categorized into four quadrants on the basis of the two characteristics of the activities namely importance and urgency.

Quadrant I represent things that are both “urgent “and “important”. We need to spend time in quadrant I.
Quadrant II includes activities that are “important, but not urgent”. This is the quadrant of quality. Here we do our long range planning, prevent problems, empower others, broaden our minds and increase our skills through reading and continuous professional development. Ignoring this quadrant feeds and enlarges quadrant I, creating stress.

Quadrant III includes activities which are urgent but not important. This is the quadrant of deception. The noise of urgency creates the illusion of importance. But the actual activities, if they are important at all are important to some one else. Many phone calls, meetings and drop in visitors fall into this category. Both society and family members struggle with a lot of expectations on women too much to do in too little time. So women spend a lot of time in quadrant III meeting other people’s priorities and expectation thinking that they are in quadrant II.

Quadrant IV is reserved for those activities that are neither important nor urgent. This is also known as quadrant of waste.

There are various time cheaters which compel us to be in quadrant III. A list of time cheaters and the ways to beat them are given in the following list.

Time cheaters come in all shapes and sizes. They can be physical and mental, created by you or imposed upon you by other people. The important thing is to become aware of them and then you can learn to deal with them.

**10 STEPS TOWARDS BETTER TIME MANAGEMENT**

- Develop a personal sense of time.
- Identify long term goals.
- Make middle-term plans.
- Plan the day.
- Make the best use of your best time.
- Organize your office work.
- Manage meetings.
- Delegate effectively.
- Make use of your committed time.
- Manage your health.

Assertive communication is an effective way to solve many problems related to time mismanagement. We are unable to stick on to our priorities mainly because of our inability to say no to the unwanted requests. The clarity in communication will be helpful for delegating effectively.

**Videos to illustrate**

1. How time mismanagement causes stress
2. Value of time
3. Exercise on role Prioritisation.
Conflict Management
Reeja Fernandez* and Anish Varghese
Senior Research Fellow, SEETTD, CMFRI
Email*: reejafernandez@gmail.com

Importance

Conflict happens all the time. It is the part of everyday life and it can happen to anyone on all age groups. Many of us face some form of conflict on a daily basis. It could be something as simple as what to eat for breakfast or much more complicated, like an argument between two coworkers. People have different preferences, habits, and opinions—sometimes those differences create conflict. People often feel reluctant to get involved in a conflict situation. Unfortunately, conflicts are rarely self-healing conditions. Because of the increasing diversity of life, we’re seeing more conflict than ever before. Conflict can be a positive or negative experience. What makes the difference is the ability to deal with and resolve conflict which is important in this present world.

Key Concepts

Conflict: An active disagreement between people with opposing opinions or principles.

Conflict Management: It is the ability to be able to identify and handle conflicts sensibly, fairly, and efficiently.

Conflict Management Techniques

A) Collaborating: -Collaboration works by integrating ideas set out by multiple people.
B) Compromising: - The compromising strategy typically calls for both sides of a conflict to give up elements of their position in order to establish an acceptable, if not agreeable, solution.
C) Accommodating: - The accommodating strategy essentially entails giving the opposing side what it wants.
D) Competing:- Competition operates as a zero-sum game, in which one side wins and other loses.
E) Avoiding:- The avoidance strategy seeks to put off conflict indefinitely. By delaying or ignoring the conflict, the avoider hopes the problem resolves itself without a confrontation.
Introduction

Conflict is a fact of personal life. The study of conflict can assist in the renegotiation process, letting you see which styles backfire, which ones work best, and how much productive power you have available. Conflict management is the process of limiting the negative aspects of conflict while increasing the positive aspects of conflict. Therefore the art of managing conflict is inevitable for a woman who does multi-tasking i.e., managing the day to day activities of a house and the job positions which they are into.

Factors Affecting Conflict

- Personality traits affect how people handle conflict.
- Threats from one party in a disagreement tend to produce more threats from the other.
- Conflict decreases as goal difficulty decreases and goal clarity increases.
- Men and women tend to handle conflict similarly. There is no ‘gender effect’.

Symptoms of Conflict

- Tensions
- No desire to communicate
- Work not done properly
- Disastrous meetings
- Anger occurs quickly and easily
- Failing productivity
- Slipping morale
- Absenteeism
- Accidents
- Escalating costs
- Slamming doors
- Shouting
- Bad times

Common ways of dealing with conflicts within a group

1. Avoiding - withdraw from the conflict situation, leaving it to chance.
2. Harmonizing - generally cover up the differences and claim that things are fine.
3. Bargaining - negotiate to arrive at a compromise, bargaining for gains by both parties.
4. Forcing - push a party to accept the decision made by a leader or majority.
5. Problem solving - confront differences and resolve them on a collaborative basis.

Conflict Management Techniques

Which one is the best in a given situation will depend on a variety of factors, including an appraisal of the levels of conflict.
**Collaborating**

I win, you win  
*Symbol: Owl*  
*Fundamental premise:* Teamwork and cooperation help everyone achieve their goals while also maintaining relationships  
*Strategic philosophy:* The process of working through differences will lead to creative solutions that will satisfy both parties’ concerns  
*When to use:*  
- When there is a high level of trust  
- When you don’t want to have full responsibility  
- When you want others to also have "ownership" of solutions  
- When the people involved are willing to change their thinking as more information is found and new options are suggested  
- When you need to work through animosity and hard feelings  
*Drawbacks:*  
- The process takes lots of time and energy  
- Some may take advantage of other people's trust and openness

**Compromising**

You bend, I bend  
*Symbol: Fox*  
*Fundamental premise:* Winning something while losing a little is OK.  
*Strategic philosophy:* Both ends are placed against the middle in an attempt to serve the "common good" while ensuring each person can maintain something of their original position.  
*When to use:*  
- When people of equal status are equally committed to goals  
- When time can be saved by reaching intermediate settlements on individual parts of complex issues  
- When goals are moderately important  
*Drawbacks:*  
- Important values and long-term objectives can be derailed in the process  
- May not work if initial demands are too great  
- Can spawn cynicism, especially if there’s no commitment to honor the compromise solutions

**Accommodating**

I lose, you win  
*Symbol: Teddy Bear*  
*Fundamental premise:* Working toward a common purpose is more important than any of the peripheral concerns; the trauma of confronting differences may damage fragile relationships  
*Strategic philosophy:* Appease others by downplaying conflict, thus protecting the relationship.
When to use:
- When an issue is not as important to you as it is to the other person
- When you realize you are wrong
- When you are willing to let others learn by mistake
- When you know you cannot win
- When it is not the right time and you would prefer to simply build credit for the future
- When harmony is extremely important
- When what the parties have in common is a good deal more important than their differences

Drawbacks:
- One's own ideas don't get attention
- Credibility and influence can be lost

Competing
I win, you lose
Symbol: Shark
Fundamental premise: Associates "winning" a conflict with competition
Strategic philosophy: When goals are extremely important, one must sometimes use power to win.
When to use:
- When you know you are right
- When time is short and a quick decision is needed
- When a strong personality is trying to steamroller you and you don't want to be taken advantage of
- When you need to stand up for your rights

Drawbacks:
- Can escalate conflict
- Losers may retaliate

Avoiding
No winners, no losers
Symbol: Turtle
Fundamental premise: This isn't the right time or place to address this issue
Strategic philosophy: Avoids conflict by withdrawing, sidestepping, or postponing
When to use:
- When the conflict is small and relationships are at stake
- When you're counting to ten to cool off
- When more important issues are pressing and you feel you don't have time to deal with this particular one
- When you have no power and you see no chance of getting your concerns met
- When you are too emotionally involved and others around you can solve the conflict more successfully
- When more information is needed

Drawbacks:
- Important decisions may be made by default
- Postponing may make matters worse
5 Tools for conflict resolution

1. Stop, Cool off, and take a deep breath.
2. Listen, to each other. Find out what you both need.
3. Talk, share your feeling using I statements.
4. Empathies, Really try to understand how the other person feels.
5. Plan, Brainstorm solutions and agree on a plan.

Four R’s in conflict management

- **Reasons**: - Explore the reasons and causes for the conflict.
- **Reactions**: - Encourage the reactions to the conflict to identify destructive reactions that they should correct and constructive reactions that they should foster.
- **Results**: - Identify what might happen if the conflict is unresolved and how team members can constructively work together to resolve it.
- **Resolution**: - Have the team decide upon the approach that will most effectively resolve the conflict.

Successful conflict resolution depends on your ability to:

- Manage stress while remaining alert and calm. By staying calm, you can accurately read and interpret verbal and nonverbal communication.
- Control your emotions and behavior. When you’re in control of your emotions, you can communicate your needs without threatening, frightening, or punishing others.
- Pay attention to the feelings being expressed as well as the spoken words of others.
  Be aware of and respectful of differences. By avoiding disrespectful words and actions, you can resolve the problem faster.

Unhealthy responses to conflict are characterized by:

- An inability to recognize and respond to matters of great importance to the other person.
- Explosive, angry, hurtful, and resentful reactions.
- The withdrawal of love, resulting in rejection, isolation, shaming, and fear of abandonment.
- The expectation of bad outcomes.
- The fear and avoidance of conflict.
Activity corner

(I) Have participants pair up. Provide each person with a copy of the handout. Allow 10 to 15 minutes for partners to interview each other. Follow with a group discussion of the interviews and then go over the discussion questions.

Conflict—How Do You See It?

a) How do you define conflict?
b) What is your typical response to conflict?
c) What is your greatest strength when dealing with conflict?
d) If you could change one thing about the way you handle conflict what would it be? Why?
e) What do you do when someone avoids conflict with you?
f) What are some reasons you choose to avoid conflict?

Discussion Questions

a. Were your partner’s perspectives different from your perspective?
b. What were some things you learned by considering another’s perspective?
c. Is conflict good or bad?
d. What are some ways in which conflict is detrimental to the team?
e. What are some ways in which conflict enriches the team?

Procedure

Break large groups into smaller teams of four to seven participants (having at least three small teams’ works best). Give each person a sheet of paper and have participants write down one thing that is making them nervous or concerned about applying their newfound skills in their everyday lives. Collect the sheets of paper, then shuffle them and pass them out again. Have each small team brainstorm ways to overcome the challenges identified (make sure they write down their ideas on the original paper). After five minutes, have the teams pass their sheets of paper to another team to brainstorm. Three rounds are usually sufficient. Then have the teams present their concerns and solutions to the large group.

Discussion Questions

1. How do you feel now about your concerns?
2. What insight did you gain by problem-solving your issues?
3. In what way did this activity make you more confident about using your new skills?

Four Word Exercise

Ask each person to write down 4 words that come up for them when they think of the word or concept being explored. They should not consult with others; just write down their own ideas. For example, if the word being explored is 'conflict' someone may have written:

War - Argument - Disagreement – Fight
Next, ask the members of the group to form pairs.

In the pairs, there will now be 2 people with 8 words between them which represent, 'conflict'. Ask them to agree on 4 words to keep from the 8 original words, and therefore they will also have to eliminate 4 words. This can lead to a lot of discussion about the words and the reasons why they chose them. Through doing so they will come to understand each other's reasons for the words they chose and how they understand the original word or concept. Their decision to keep or eliminate a word will need some form of decision making and the means by which this happens can, in itself, be of interest later in the exercise. So now the pair has 'their' 4 words for the word or concept being explored. (In the case of a group of 3 they will have reduced their original 12 words down to 4)

*This further discussion of the original word, this time with each pair bringing their learning's and insights from their own discussion, creates even deeper exploration of the word or concept.*
Life is 10% what happens to me and 90% of how I react to it.
Studies show that women feel intimidated and tongue tied in groups with men. This programme which is exclusively meant for women would give them an appropriate platform to express their great ideas and share their opinions in the group made of almost like-minded individuals. This would make them aware about the importance of working in a group and the easiness with which their achievements are made handy while working in a group. The schedule would help them in acquiring the skills necessary to intervene and improve individual and group performance, and in identifying and analysing the social processes that impact on group development and performance.

**Key Concepts:**

A group may be defined as two or more individuals who are connected to one another by social relationships. There are many approaches that deal with group formation and group dynamics, of which social identity approach is the most prominent one. The approach revolves around the concept that “an individual’s identity has two components: personal identity and social identity, a social groups can act as critical source of information about individual identity”. There are studies which show that groups being instrumental in shaping a society. The memberships in a group are highly rewarding, since it involves interpersonal happiness and strivings for goal. These interpersonal relationships are intimate, enduring and sometimes sustaining. That’s why it said that group formation starts with psychological bond.

**Introduction:**

The social process by which people interact with each other in small groups can be called group dynamism. A group has certain common objectives and goals and members are bound together with certain values and culture.

**Characteristics of group**

1. **Influential and synergic**: The group can influence the thinking of its members. The members are always influenced by the interactions of other members in the group. Even the attitude, perceptions, and ideas of members depend on group dynamism.
2. **Leader dependent performance**: A group with a good leader performs better as compared to a group with weak leader.
3. **Job satisfaction**: Group dynamism can give job satisfaction to the members.
4. **Team spirit**: The group can also bring team spirit among the members.
5. **Cohesiveness**: If the group works as a cohesive group, the cooperation and convergence can result in maximization of productivity. Group dynamism can reduce the labour unrest and labour turnover due to emotional attachment among the group members.

**Advantages and disadvantages of a group**

The advantages of joining a group are sense of security, have a status, develop Self-esteem, power and goal achievement. Small groups are disadvantageous with less number of ideas and less effectiveness, whereas large groups are affected with problem of communication and coordination and conflicts.

**Conditions for a group to be successful**

1. **Being a real team**: which results from having a shared task, clear boundaries and stability in group membership.
2. **Compelling direction**: This results from a clear, challenging and consequential goal.
3. **Enabling structure**: which results from having tasks which have variety, an adequate group size, talented group members, and strong norms that specify appropriate behavior
4. **Supportive context**: such as reward systems that reward performance and cooperation
5. **Expert coaching**: which occurs on the rare occasions when group members feels they need help with task or interpersonal issues.

**Steps towards formation of a group**

1. **Forming**: This represents a time where the group is just starting to come together and is characterized with anxiety and uncertainty. Members are cautious with their behavior, which is driven by the desire to be accepted by all members of the group.
2. **Storming**: The storming stage is where conflict and competition are at its greatest. This is because now that group members have an understanding of the task and a general feel for who they are as a group and who group members are, they feel confident and begin to address some of the more important issues surrounding the group.
3. **Norming**: Once a group receives the clarity that it so desperately needs, it can move on to the third stage of group development, known as the norming stage. The norming stage is the time where the group becomes a cohesive unit.
4. **Performing**: The performing stage is marked by high productivity. Group members are unified, loyal and supportive. Competence in all members is seen, allowing for a high level of autonomy in decision making.
5. **Adjourning**: At this stage, the groups disperse after their targets are achieved.
Group Structure

The group dynamics depends on various capacities enjoyed by individuals in group (Group structure). Group Structure refers to the pattern of interrelationship that exists among the group members, and makes the group functioning orderly and predictable. Four important aspects of group's structure are:

- **Role**: The typical part played by an individual group member in accordance with the expectations of other members from him.
- **Norms**: The rules and mutual expectations that develop within the group. This refers to the generally agreed upon rules that guide the group members behaviour.
- **Status**: The relative prestige or social position given to groups or individuals by others.
- **Group Cohesiveness**: The degree of attraction of the group members for each other and the 'we-feeling' among the members.

Types of groups

A variety of groups are formed by interactions between people such as:

- **Primary groups**: are characterized by small size, face to face interaction and intimacy among members of group. eg: family, neighbourhood group.
- **Secondary groups**: characterized by large size, individual identification with the values and beliefs prevailing in them rather than cultural interaction. eg: occupational association and ethnic group.
- **Task groups**: are composed of people who work together to perform a task but involve cross-command relationship.
- **Social groups**: refers to integrated system of interrelated psychological group formed to accomplish defined objectives. Eg: political party with its many local political clubs.
- **Reference groups**: one in which they would like to belong.
- **Membership groups**: those where the individual actually belongs.
- **Command groups**: formed by subordinates reporting directly to the particular manager are determined by formal organizational chart.
- **Functional groups**: the individuals work together daily on similar tasks.
- **Problem solving groups**: it focuses on specific issues in their areas of responsibility, develops potential solution and often empowered to take action.

Activity Corner - Tower Making

Materials required: Newspaper, Roll tape, Stop Watch, Measuring Tape

Activity: The group is divided into small sub groups of 4-5 members. The newspaper stack is placed in the corner of the room. The members have to collect the newspapers and then each group has to make a tower with these newspapers and tape roll. The group which makes the tower with maximum height wins the game.
Lessons Learnt

1. Which is the role that you adopt in your group?
2. How did you select the leader in your group?
3. Which is your type of group?
Interpersonal Relationship
Empathy in Life
Bindu Sanjeev
Personal Assistant, PME, CMFRI
Email:binducmfri@gmail.com

Hello.....there

You must have heard of different feelings like happiness, sadness, anger, anxiousness but have you ever heard of the term called ‘EMPATHY’. Ok let me ask you; do you ever cry or get emotional while watching movies. Well I certainly do. How many of you get emotional do you ever realized what feeling you experience that time. That is feeling called Empathy.

What is Empathy?

It is defined as:

Standing in someone else’s shoes and seeing through someone else’s eyes.

Why do we need empathy?

It is a heart to heart connection. It is a bases for living a life with meaning in relationship with others ...it makes us a better person by being empathetic towards others which help us to reach out which I am sure you would agree with me it’s a wonderful thing.

Empathy is a quality, one has within. Are they born with that quality or one need to develop it?

How can we foster empathy in ourselves?

Now look at the statement closely. In anything I do or say, am I doing or saying it in a way in which the other person is most responsive in listening to me. That is the attitude one must have to be a person with empathy. I will show a small simple concept called POLE. This will help us to cultivate empathy very easily.

P - Putting you in the other’s person’s shoes. Reflecting on what the other person says helps you to show that you are more understanding. Say something like I am sorry to hear your loss. I know it is very difficult for you.

O- Offering personal support. Offering personal support goes beyond words. It enhances repo by letting other the person knows that u want to help. I want to help you. Is there anything I can really help you with.
Empathy is the most important quality of the human civilization

**L-** Listen with your heart. Listening attentively to what the other person is saying will let the person know that he/she is not left alone. It will give assurance that you are there to listen and to help.

**E-** Eliminate distraction. Put the book down, turn off the TV focus your attention completely to what the person is saying. Pay attention not to the spoken words alone but to the emotions behind.

You also need to know that empathy has nothing to do with giving in or not being asserted. You can be empathetic and validate to what the other person say and still have a different opinion.

Let's look at another term which is very similar to Empathy

**Sympathy and Empathy**

People often get confused with SYMPATHY&EMPATHY and I was one among them

**Sympathy & Empathy** are both acts of feelings however, the two separate terms with very clear distinctions. **Empathy** is a deeper emotional experience, it involves understanding of what others are feeling, and sharing another’s suffering and feeling sorry with the person.

And **Sympathy** is, acknowledging what others are feeling, recognizing what others are suffering and feeling sorry for the person.

Do you think empathy can be related to a physical feeling?

How was it felt, is it warmth or relax?

If you closely monitor empathy is a pure feeling of warmth. Because you see with another’s eye, listen with another’s ears and feel with another’s heart. Thank people for their big and small effort. Remember every word of acknowledgement will make the person feel better and better.

Let me share with the techniques to imbibe the values of empathy, the stars method. We can practice the ability to feel what others feel by pasturing stars method. It’s simple, the ability to feel what other people feels by sharing experience, trust people, pay attention to the conversation, respect, respond and support the person.

If you are an empathetic person you would have said the following statements at least thrice in your lifetime.

1) Are you alright
2) I understand how you feel
3) I am sad that you are hurt
4) Is really where I can help you? You have done a brilliant job and I am very happy for you

If you think you have not used these statements yet, make sure you do, use them to make a difference in other people’s life and yours. So at any point of time if you want to check whether you are an empathetic person or not, ask yourself questions like:
• Am I looking at the person speaking to me
• Am I listening without interrupting
• Am I giving my full attention by not getting distractive
• Am I actually attempting to understand my friend’s point of view
• Am I showing facial expression stating understanding of my friend’s feelings

If you are, you are the most empathetic person anyone can ever interact with.

And finally, what benefit do you get by being an empathic person: You become a better person, people will start liking and respecting you.

Remember, when you do something every day it will become your second habit and then your behavior.

* Treat others the way you wanted to be treated. *
Empathy is the most important quality of the human civilization
Goal Setting

Rajool Shanis C.P.
Technical Assistant, NBFGR, CMFRI
Email: rshanis@gmail.com

Importance

Goal-setting is a powerful technique for helping a person develop a solid foundation for future planning and organization. By knowing what he/she wants to achieve in life, a person may know where they want to concentrate and what to improve. Everyone has dreams. These dreams may be for a college degree, a better life for loved ones, financial security, or the acquisition of material items such as a new car or home. Goal setting is the first step toward turning a dream into a reality. This important process provides focus and identifies specific steps that need to be accomplished. It is also a common practice used by successful individuals and organizations. A goal is a target. Think of a goal as a reward at the top of a ladder. Studies by Edwin A. Locke (2006) and his colleagues have shown that more specific and ambitious goals lead to more performance improvement than easy or general goals.

Setting goals is a fundamental component to long-term success. The basic reason for this is that you can't get where you are trying to go until you clearly define where that is. Research studies show a direct link between goals and enhanced performance in business. Goals help you focus and allocate your time and resources efficiently, and they can keep you motivated when you feel like giving up. Goals help employees stay aware of what is expected from them and leave little room for people to hide behind the curtain of unspecified expectations. Furthermore, setting and achieving goals translates to feelings of success for both individuals and companies, which in turn spurs greater productivity and confidence.

Significance

Men and women process goals differently. Women care about their goals more than men. Women tend to develop a greater emotional connection to their goals than men. This increased heartfelt connection helps women stick to their goals when the going gets tough. But women are more likely to procrastinate than men. Women feel less urgency to achieve their goals than men. This lack of urgency can result in procrastination and even goal failure. This can solve by attach a greater sense of urgency to your goals by setting more urgent deadlines, establishing immediate rewards, and limiting choices to override any tendencies towards procrastination. Ask yourself “What must I have accomplished today in order to keep on track to achieve my goals,” to reach higher levels of focus and urgency. Next, accomplish at least one thing each day that pushes you closer to your goals. Or, try setting a deadline at the same time you set a goal to help fight the temptation to put off taking action.
Types of goals

Goals that can happen quickly are called short-term goals. Goals that take a long time to achieve are called long-term goals. Short-term goals are achieved within a year's time and are needed to reach long-term goals. Long-term goals are set to be achieved in five to ten years. More difficult goals typically take longer to achieve. Goals provide focus; increase self-concept; and help overcome procrastination, fear, and failure.

There are several types of goals that you can establish for yourself depending on your life's purpose and direction.

- **Personal Goals** - Self Growth is important for our psyche. Find out how you can set your own personal development goals including hobbies/recreation, friendship goals and family goals.

- **Financial Goals** - Find out how to set financial goals so you can achieve financial security to provide for your family and for your own satisfaction and happiness.

- **Career Goals** - Good career goals are essential for your financial security and your own personal happiness. Find out how to get the most out of your career.

- **Social Goals** - More often your success will be measured by what you do for the society rather than your personal achievements. As a human being it is your responsibility to give back to society more than what you receive from it. Any goals that you set for this purpose are Social Goals.

- **Health Goals** - Find out how to set Health goals to maximise your enjoyment of life – lose weight, get fit, gain energy – it’s all possible if you set goals.

The best goals are **SMART** goals. This means that they should be Specific, Measurable, Achievable, Realistic/relevant, and Timely.

**Specific:** Your goal must be clear and well defined. Vague or generalized goals are unhelpful because they don't provide sufficient direction. Remember, you need goals to show you the way. Make it as easy as you can to get where you want to go by defining precisely where you want to end up. A specific goal will usually answer the five 'W' questions:

- **What:** What do I want to accomplish?
- **Why:** Specific reasons, purpose or benefits of accomplishing the goal.
- **Who:** Who is involved?
- **Where:** Identify a location.
- **Which:** Identify requirements and constraints.
**Measurable** - Measurable goals mean that you identify exactly what it is you will see, hear and feel when you reach your goal. Establish concrete criteria for measuring progress toward the attainment of each goal you set. When you measure your progress, you stay on track, reach your target dates, and experience the exhilaration of achievement that spurs you on to continued effort required to reach your goal. A measurable goal will usually answer questions such as:
- How much?
- How many?
- How will I know when it is accomplished?

**Achievable/Attainable** – When you identify goals that are most important to you, you begin to figure out ways you can make them come true. You develop the attitudes, abilities, skills, and financial capacity to reach them. You begin seeing previously overlooked opportunities to bring yourself closer to the achievement of your goals. You can attain most any goal you set when you plan your steps wisely and establish a time frame that allows you to carry out those steps. Goals that may have seemed far away and out of reach eventually move closer and become attainable, not because your goals shrink, but because you grow and expand to match them. When you list your goals you build your self-image. You see yourself as worthy of these goals, and develop the traits and personality that allow you to possess them.

**Realistic** - To be realistic, a goal must represent an objective toward which you are both willing and able to work. A goal can be both high and realistic; you are the only one who can decide just how high your goal should be. But be sure that every goal represents substantial progress. A high goal is frequently easier to reach than a low one because a low goal exerts low motivational force. Some of the hardest jobs you ever accomplished actually seem easy simply because they were a labor of love.

**Timely** – A goal should be grounded within a time frame. Make a tentative plan of everything you do. Everybody knows that deadlines are what makes most people switch to action. So install deadlines, for yourself and your team, and go after them. Keep the timeline realistic and flexible, that way you can keep morale high. Being too stringent on the timely aspect of your goal setting can have the perverse effect of making the learning path of achieving your goals and objectives into a hellish race against time – which is most likely not how you want to achieve anything. T can also stand for Tangible – A goal is tangible when you can experience it with one of the senses, that is, taste, touch, smell, sight or hearing. When your goal is tangible you have a better chance of making it specific and measurable and thus attainable.

**The Ten Commandments of Goal-Setting (By Gary Ryan Blair)**

1. **Thou Shall Be Decisive**
   The difference between what one person and another achieves depends more on goal choices than on abilities. The profound differences between successful people and others are the goals they choose to pursue. Individuals with similar talents, intelligence, and abilities will achieve different results because they select and pursue different goals.
2. **Thou Shall Stay Focused**  
   Focus creates a powerful force: goal power. The moment you focus on a goal, your goal becomes a magnet, pulling you and your resources toward it. The more focused your energies, the more power you generate. There is a seismic shift in performance that takes place when you move from decisiveness to focus.

3. **Write Down Thy Goals**  
   Writing challenges thought. When you write a goal, you actually see what you're thinking. You have a target to aim for... something that takes shape and grows legs. By writing your goals, you take a step toward achieving them.

4. **Thou Shall Plan Thoroughly**  
   You can virtually guarantee your success in any endeavour if you know who you are, what you want, where you are going, how you will get there, and what you will do once you arrive. Planning before you act helps you to do things better, faster, and cheaper.

5. **Thou Shall Involve Others**  
   Nobody goes through life alone. Establish your own "Personal Board of Directors", people whose wisdom, knowledge and character you respect to help you achieve your goals.

6. **Thou Shall Welcome Failure**  
   People are naive about the benefits of failure. Wrongly founded assumptions about failure replace potentially accurate assessments of what is necessary to achieve success.

7. **Thou Shall Take Purposeful Action**  
   Success is not a spectator sport - achievement demands action. You cannot expect to arrive at success without having made the trip. The acid test of goal setting is purposeful action.

8. **Thou Shall Inspect What Thou Expect**  
   The purpose of measuring performance and inspecting expectations is to improve performance. Therefore inspect frequently and closely, it's an insurance policy on your success.

9. **Thou Shall Reward Thyself**  
   A reward provides an effective but uncomplicated means of reinforcing the actions most important to success. Rewards are reminders of our potential for achievement. We should reward ourselves daily for small accomplishments; this simple act becomes fuel for future achievement.

10. **Thou Shall Maintain Personal Integrity**  
    Personal integrity means maintaining a commitment to your commitment. Set your goals; promise yourself that you will achieve them. Eliminate wiggle room and excuses.

Goal Setting is definitely an on-going process that is accomplished over time. When we first sit down and start to define goals it can seem like a difficult and daunting task but over time it begins to get much easier. Patience is required. All goals due in the next year should be reviewed at least once a week and daily if possible. The great thing about frequent review is that this forces us to make big decisions and determine priorities in our life. We should keep watch for goals that aren’t being achieved on time or for goals on which we keep extending the deadline.
Activity Corner

Use this worksheet to identify the specific SMART criteria you will use to write your goal statement

<table>
<thead>
<tr>
<th>What is your basic goal?</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Is it measurable? How will I measure progress? (How many? How much?)</td>
</tr>
<tr>
<td>3. Is it attainable? (Can this really happen? Attainable with enough effort? What steps are involved?)</td>
</tr>
<tr>
<td>4. Is it realistic? (What knowledge’s, skills, and abilities are necessary to reach this goal?)</td>
</tr>
<tr>
<td>5. Is it time bound? (Can I set fixed deadlines? What are the deadlines?)</td>
</tr>
</tbody>
</table>
Setting goals is the first step in bringing invisible to visible
How to Handle Criticism?
Sunil P.V.* and Manjusha U.
Technician, SEETTD, CMFRI, Cochin
Email*: sunilcmfri@gmail.com

Any fool can criticize, condemn, and complain but it takes character and self-control to be understanding and forgiving—Dale Carnegie

Introduction

Compared to all other nations Constitution of India guarantees to all its citizens the right to freedom of speech and expression. People's everyday lives are shaped through language and communication. They choose what to do with their time based on opinions and ideals formed through the discourse they are exposed to and Criticism is an inevitable part of the environment that surrounds us.

Criticisms is painful and praise means good for both men and women. What other people think affects women more dramatically though. Women are relationship oriented. When people don’t like what they are up to, it can feel like disharmony or a break in their relationships, which they deeply value. Women pick up more information about what others think. A host of studies show women are more adept at reading facial expressions and body language than men. For most of history, women couldn’t protect themselves through legal, political, or financial means. Research shows that when women get negative feedback, it tends to be more personal than the feedback men get. It can also be more angry and even violent or vulgar, especially in our internet age.

It is true that we face criticism in our day to day life and when somebody criticizes, it feels bad and depressing. Nobody likes being criticized but, unfortunately it is a fact of life. To be able to respond to criticism with nobility and detachment is an important life skill, which few people have. If we respond to criticism without careful consideration, it can easily lead to unnecessary suffering.

Dealing with criticism positively is an important life skill. At some point in your life you will be criticized, perhaps in a professional way. Sometimes it will be difficult to accept – but that all depends on your reaction. You can either use criticism in a positive way to improve, or in a negative way that can lower your self-esteem and cause stress, anger or even aggression.

Definition: Criticism is the study, evaluation, and interpretation of literature, artwork, film, and social trends. The expression of disapproval of someone or something on the basis of perceived faults or mistakes.
The words "critic" and "critical" existed in the English language from the mid-16th century, and the word "criticism" first made its appearance in English in the end of 16th century (primarily literary criticism) on Samuel Johnson’s contemporary Alexander Pope’s Essay on Criticism.

**Advantage and disadvantage of criticism**

- When people criticize, it can have a fruitful, enriching and constructive effect on the recipient, because new ideas and viewpoints may be generated in trying to solve a problem.
- People can also be hurt by criticisms, when they experience the criticism as a personal attack.
- At some point in your life you will be criticized, perhaps in a professional way. Sometimes it will be difficult to accept – but that all depends on your reaction. You can either use criticism in a positive way to improve, or in a negative way that can lower your self-esteem and cause stress, anger or even aggression.
- Criticism is a form of communication. If someone has a criticism on what you're doing for them – that means an opportunity to learn more about the person who you're working for and how to convert them into a satisfied customer or audience member. Feedback helps make your product stronger.
- Some individuals are critical by nature and do not always realise that they are hurting the feelings of another person.

**Dealing with criticism- Procedure**

1) **Change Your Perspective**

   a) **Know the difference between destructive and constructive criticism.** Constructive criticism is, ideally, meant to help you. Destructive criticism is only intended to cause hurt. You have to know where the feedback is coming from and understand the intentions of the person who is giving it to you. If it's a teacher or a superior, then chances are the person only wants you to perform better; but when it's coming from a supposed friend, or even an enemy, then you have to wonder whether or not the person has your best interest in mind.

   b) **Accept that you're not perfect.** Nobody’s perfect, so if you think you’re perfect, then you're nobody. Okay, but seriously: every person has flaws, and if you don't see any of yours, then you're not analyzing yourself as closely as you should.

   c) **Don't take it personally.** If your boss says you've been a little less productive than usual lately, it's not because he thinks you're fat and lazy; it's because he wants you, his employee, to step up your game. If the criticism is constructive, then it's intended to guide you and to help you improve as a
person, not to bring you down and make you feel inadequate. If your teacher has given you rather critical feedback on a paper, it’s not because she thinks you’re stupid or annoying in class; it’s because she thinks you have some work to do when it comes to making an argument.

d) **Work on being less sensitive.** If you always find yourself crying, getting defensive, and feeling generally upset when someone gives you what was supposed to be helpful feedback, then you have to start thickening your skin. Think about where the message is coming from. Control your emotions.

**II) Dealing with Constructive Criticism**

Constructive criticism is designed to point out your mistakes, but also show you where and how improvements can be made. Constructive criticism should be viewed as useful feedback that can help you improve yourself rather than put you down. When criticism is constructive it is usually easier to accept, even if it still hurts a little. In either scenario always try to remember that you can use criticism to your advantage.

a) **Understand what you're really being told.** If you want to deal with criticism, then you have to understand the message behind it. Then you have to break it down so you can start figuring out what to do next. Sometimes, you may be focused on the hurtful aspects of the feedback and your pride may be too wounded for you to see what is right in front of you.

b) **See if there's some truth to it.** If the feedback is coming from a person who has your best interest in mind, then you have to consider the possibility that there really is some truth to those words.

c) **Make a game plan for addressing it.** You've got to write down the thing you need to work on, and make a plan for addressing it. This can take a long time, and it's never too late to start. Once you come up with a plan, a way of adjusting your expectations and actions, you can begin to address the criticism and become a better person.

d) **Thank the person for being honest (if he's also being kind).** If you have received some criticism that was delivered in a friendly and helpful way, or just in a way that was meant to be honest and clear, then take the time to thank the person and to say that you appreciate the fact that the person told you something that can make you an even better friend, girlfriend, student, or professional. Thanking people who give you honest criticism is also a sign of maturity. Suck it up and say "thank you" even if you're gritting your teeth.
e) **Stop making excuses.** If you get defensive and make excuses, then the person won't be able to finish telling you exactly what he or she means, and you won't get the information you need to really improve. It's natural that we feel defensive and get the feeling that we can do no wrong, but it's important to hear people out before you cut them off to prove you're perfect.

f) **Remember that constructive criticism can make you a better person.** Sure, it's tough to deal with even the most well-meaning criticism, especially if you're convinced you're perfect and that you can do no wrong. But if you're so invested in being an awesome person, then remind yourself that being aware of your flaws and shortcomings and making a plan for addressing them will make you an even more amazing person.

### III) Dealing with Destructive Criticism

a) **Understand the person's true motives.** If you have recognized the criticism as completely destructive and hurtful, then you can think about why the person might have said such a thing to make yourself feel better.

b) **Look for the grain of truth.** Okay, so maybe the criticism was delivered in a way that was completely mean, unnecessary, and hurtful, and most of the things that were said were way off base.

c) **Remember that words can never hurt you.** Remind yourself that criticism only consists of a bunch of words.

d) **Stay confident.** Maintain your confidence. No matter what people are saying about you, you have to stay strong, remember who you are, and not let other people influence your own self-worth. Being confident doesn't mean thinking that you're flawless, but it does mean loving who you are and how you look.

e) **Keep doing what you're doing.** If the criticism has no basis whatsoever, then the best thing you can do is to ignore it completely. Don't feel bad if you're not able to push all of these negative words aside right away. It takes practice to stop caring about what people think.

**Activity Corner**

Make a list of your 10 biggest flaws. Can you think of 10 things that need improvement? This exercise isn't meant to make you feel bad about yourself; it's only meant to make you see that you have room for improvement.

**Summary**

We all make mistakes all the time, it is human nature. As we go through life we have plenty of opportunity to learn and improve ourselves. Therefore, no matter what kind of criticism is aimed at you, analyse it to find something you can learn from it. If people formulate their criticism in the right way, it is more likely that other people will accept it. If the criticism is badly expressed, people might reject it, not because it is wrong in itself, but because they do not like being talked to in that way.
Tips

- If the criticism is faulty, ignore what has been said or contact the person who sent the criticism.
- Criticism means constructive advice pointing out your faults.
- You should be polite with people so that they will not use harsh words all the time.
Stop letting people mean to you poke the mind feelings and emotions
One of the most important skills that you need to develop for success in life is to influence people. By influencing people you help people to do better and encourage them to see things from a different viewpoint.

**Important traits to influence people**

There are certain traits that are important in influencing people.

**Be outgoing**

You should have a friendly and outgoing personality and this will have an influence on the people around you. People will respond to those who are comfortable with them and thus follow their lead. But you should never treat them as someone lower than you. Everyone should be treated like a friend.

**Smile**

Everyone appreciates a smile. People will feel that you are approachable and trustworthy.

**Ask questions**

It is important to engage other people in conversations. Show an interest in them and they will become more open and responsive. Simply ask for a help or help them with something they are struggling with.

**Plan activities**

You should take the initiative and organize a group trip. This will help you make them friends and show them that you like them and include them.

**Demonstrate interest in others**

In order to make a good impression, you need to show an active interest in the person you're talking to. Listen to what they are saying. A good listener learns a lot about people. Ask stimulating questions about the other person's interests and opinions. Respond to their questions with a sense of the topic. Responding correctly will generate a sense of trust and create a bond between you.
**Address people by name**

People are more likely to respond when they hear their name, as the use of their name makes your message more personal to them. By remembering to use someone's name, you will seem like an interesting person who pays close attention to details. It is the same as remembering their birthday, so take notice in what they have to say about themselves.

**Be an active participant in discussions**

Building a relationship with someone is a two way process. It’s about response and trust. You shouldn’t use a conversation as a vehicle for forcing your ideas and opinions on others. Equally, you shouldn’t get out of a conversation either; nobody wants to feel like they’re talking to themselves.

**Talk about the interests of others.**

Encouraging someone to talk about the things they are passionate about is another great way to demonstrate an interest in others. It is also one of the best ways to get to know someone, a vital component in building a relationship. When you speak about the topic they love, people will open up. Never try to overpower the other person by talking too much about your own interests.

**Respect the opinions of others.**

It is important to always respect other people’s opinions, even during a disagreement. You do not need to agree with the other person, but you should allow them to express their opinions and beliefs without contradicting or belittling them. Relationships are built on trust and mutual respect, so it is important to recognize and accept your differences.

**Secure your place within a social circle.**

Establish your place within a social circle by becoming friends or respected acquaintances with as many people within that circle as possible. This will increase your influence and power over that circle as a whole. When your friends introduce you to a new group of people never look bored. Instead you should seize the opportunity, interact with them and try to understand them. You should also try to speak to people within the circle you don’t normally hang out with. Try to become friends with them for their own sake. Host a party or group activity of some kind and invite as many friends, acquaintances and friends of friends as possible.

**Admit your mistakes first and foremost.**

If you are wrong, be sure to admit it quickly and emphatically. The quick way to generate animosity is by failure to admit your mistakes when you are obviously at fault. So if you want to build credibility and respect, be sure that you are quick to admit your errors as soon as you realize them. People will admire your honesty and honesty inspires trust.
Point out mistakes in a helpful, indirect way.

If it is necessary to point out someone else's mistakes, make sure to do it in a constructive, positive way. The last thing you want to do is make another person feel small or stupid. If you are humble and matter-of-fact with your correction, you will find that your comments are more likely to be heard and taken to heart. Never correct someone in front of another person. Keep it between the two of you.

Establish your expertise.

If you have extensive knowledge on a given topic, it is worthwhile making this fact known, especially if that knowledge could potentially be used to help someone else. Don't brag about your knowledge or talk about it endlessly. This will make you seem like a know-it-all and will discourage people from asking you about for help. Make your expertise known and let people know you are happy to help, if needed.

Live a clean life worth looking up to.

If you want to influence people, it is important that you live the kind of life that people can respect and look up to. You need to live life to the full and be the best person you can be. Some ways to achieve this include:
- Holding a good job.
- Taking care of your appearance.
- Eating healthily and staying fit.
- Avoiding drug and alcohol abuse.
- Having interests and hobbies
- Respecting others.

Demonstrate a willingness to learn.

Although having firm opinions and beliefs is an admirable trait, it is also important to keep an open mind and to be willing to try new things and learn from your experiences. Strive to broaden your horizons. Engage in stimulating and thought-provoking discussions, read books and newspapers, travel as much as possible. You should be a yes person. If somebody offers to teach or show you something new, take them up on it.

Take a friendly approach.

Always begin in a friendly manner if you are trying to influence others to your way of thinking. Avoid being bossy or demanding. Start by asking questions that they will quickly say yes to, in order to get cooperation.

Sympathize with opposing beliefs.

Try to understand where the other person is coming from. Ask yourself, what motivates them to do certain things? Again, it’s about reciprocity; if you respect others' beliefs, they will appreciate you and your beliefs as well. By sympathizing with beliefs that you disagree with, you can help establish an air of open-mindedness which will help increase your influence.
Plead a noble case.

People are more likely to change their behaviors, if the change will benefit society as a whole, rather than just you.

Avoid giving orders.

Never give orders (even with the word please). This makes the other person feel like you don’t respect them or care about their input and might lead them to deliberately ignore or do the opposite of what you want. Instead, ask questions or make subtle suggestions.

Praise others

Praise is the best motivator for behavior, so be generous with your praise. However, don’t give praise just to give it, this will come off as being insincere. It means more to the recipient if it’s about something they recognize as praiseworthy.

Make others feel as though the idea belongs to them

This is very important to influence others to your way of thinking. People can be critical of others’ ideas, but if it’s their idea, they will be much more in favor of it. Give the other person lots of hints and clues, but let them reach the conclusion themselves. If you want your partner to take you away for the weekend, make comments about needing a break from reality, wanting to spend some quality time together etc.

Let others save face.

Helping others to save face is a good way of building trust. By saving them from an embarrassing situation, the other person will feel grateful towards you and might even feel like they owe you a favor. You may pretend that nothing happened. Help to deflect attention away from the person after an embarrassing occurrence. For example, if somebody says something they’re not supposed to or accidentally cause offense, you can help by quickly changing the subject.

“We never know which lives we influence, or when, or why.”
-Stephen King
How to Overcome Barriers

Jenny C.M.
Assistant Administrative Officer, CMFRI, Kochi
Email: jennyvelayudhan@gmail.com

Women are not born, but made. What better than India to exemplify this statement by Simone de Beauvoir. This lecture intends to discuss the issues women folk face in present scenario. The trainees aged between 18-35 can share their ideas about life and their ambitions. They can recollect the hindrances they face in day today life. They can make a self-analysis and reach a conclusion on problems they face. Then they can reach new horizons by remolding themselves if needed. Through interaction with fellow trainees they might have understood the common difficulties they face. They can offer helping hand to others who really need help.

Key Concepts

Acquiring knowledge-When we talk about empowerment, primarily we talk about education to women. Only education is needed for empowerment?

What is empowerment?

Empowerment is the process of enabling or authorizing individual to think, take action and control work in an autonomous way. It is the process by which one can gain control over one’s destiny and the circumstances of one’s lives. Empowerment includes control over resources (physical, human, intellectual and financial) and over ideology (beliefs, values and attitudes). It is not merely a feel of greater extrinsic control, but also grows intrinsic capacity, greater self-confidence and an internal transformation of one’s consciousness that enables one to overcome external barriers to accessing resources or changing traditional ideology.

What is education?

Vaguely speaking Education is an effort of the senior people to transfer their knowledge to the younger members of society. It is thus an institution, which plays a vital role in integrating an individual with his society and in maintaining the perpetuation of culture.

There was a time when people thought that it was not necessary to educate girls. Now we have begun to realize that girls’ education is essential. The modern age is the age of awakening of girls. They are trying to compete with men in all spheres of life. There are many people who oppose girls’ education. They say that the proper sphere of girls is the home. So, they argue that the money spent on girl’s education is wasted. This view is wrong, because girl’s education can bring about a silent resolution in the society.
What is Self Confidence?

Self-confidence is the belief in oneself and abilities, it describes an internal state made up of what we think and feel about ourselves. This state is changeable according to the situation we are currently in and our responses to events going on around us. It is not unusual to feel quite confident in some circumstances and less confident in others. It is also influenced by past events and how we remember them; recalling a former success has a very different outcome in terms of our confidence levels than thinking about an occasion when we failed.

Whether the present social systems develop self confidence in women?

Even though efforts are made by law makers and executive to empower women, the attitude of the society is not changed. Without change in the basic attitude of the society women empowerment and developing self-confidence is not possible. For e.g. The Indian constitution Art.19 gives freedom of movement in anywhere in India. Generally Women never execute this rights and majority avoid travel during night. The basic freedom allotted to Indian citizen is not enjoyed by women.

How to overcome these barriers?

Only through education and developing self-confidence women empowerment is possible.

Introduction

Indian women are completely devoted to their families. They’re preached in the names of Goddess Saraswati, Goddess Durga, Parvati & Goddess Kali. In the modern time, women in India were given freedom & right such as freedom of expression & equality as well as the right to be educated. Various prestigious positions at this period were held by women. They’re enjoying the ‘ladies first’ facility in different fields. However, some problems such as dowry, domestic violence, sex selective abortion, female infanticide are still prevalent.

Most women are given a chance of finishing their education to the degree level. They are discouraged from getting married and raising a family when they are young. Because women empowerment will lead to an improvement of the socio-economic conditions of the society in a number of ways. The women empowerment programmes of the Department of Social Justice cover welfare and support services, training for employment and income generation, awareness generation and gender sensitization. All these efforts are directed to ensure that women are empowered both economically, socially and thus became equal partners in the development of the state along with men. There are number of women education grants that offer help to women from poor background in order to give them a chance to be educated.

There’re various scholarships that benefits women in India to achieve their career by going back to school or various training institutions where they can further their education.(eg: Single Girl Child scheme of GOI) Also, many NGO’s in India offer support to women in order to benefit them in education. The government of India is
also setting aside funds that are used to empower women & other initiatives that will empower them. Women who have the desire to improve their lives are allowed to take these grants from the government and NGO's to empower themselves with the help of their spouses or without for single mothers to get education to the degree level, post graduates, PHD just to mention a few. These grants for women get most supports from different companies after realizing that women can perform better than men if they are well educated and equipped. Eg: Kudumba Shree SHGs

**EMPOWERING WOMEN IN BUSINESS**

The government of India set aside some reasonable amount of money which women who have business ideas can borrow in order to start businesses. Women are encouraged to start small business in order to have their own source of income thus they become independent. Various non-governmental organizations also offer financial support to women in India and encourage and teach them how they can be making their own money by starting various business activities. The status of the women in India has greatly improved and there are many women who are holding high position in the government offices. This has proved that women can be even better than men if they are given an opportunity. Women are given equal opportunity like their male counterparts by the government.

*It is impossible to think about the welfare of the world unless the condition of women is improved. It is impossible for a bird to fly on only one wing." — Swami Vivekananda.*

**Mother and Child Tracking System (MCTS)**

The Mother and Child Tracking System, launched in 2009, helps monitor the health care system to ensure that all mothers and their children have access to a range of services, including pregnancy care, medical care during delivery, and immunizations. The system consists of a database of all pregnancies registered at health care facilities since 1 December 2009, and all births since 1 December 2009.

The Ministry of Women and Child Development is implementing various schemes for women’s economic empowerment namely, Rashtriya Mahila Kosh (RMK), Support to Training & Employment Programme for Women (STEP), Priyadarshini besides National Mission for Empowerment of Women (NMEW) and Indira Gandhi Matritva Sahyog Yojana (IGMSY).

**Women Related Schemes / Programmes - CENTRAL**

- AnganwadiKaryakatriBimaYojana
- Udisha TrainingProgramme
- Ujjawala
Women Related Schemes / Programmes- STATE

* “Mangalya” - Scheme for Widow Remarriage
* Flagship Programme for Gender Awareness
* Flagship Programme on Finishing School for Women
* Educational Assistance to Children of Women Prisoners
* Implementation of Domestic Violence Act
* Implementation of Dowry Prohibition Act
* Vocational training to Inmates of Women Welfare Institution through STED
* Nutrition Supplement to HIV Affected Women and Children
* Benefits to Anganwadi Workers and Helpers through Welfare Fund
* Financial Support to Pregnant & Lactating Mothers for Ensuring Better Childcare during Pregnancy and After Delivery.
Relevance

In the globalized era, it is important to equip the job seekers with maximum qualities that they can acquire which will make them fit for competition. Instructional and non-instructional responsibilities explain what is expected from an employee in his particular position in an organization. Knowing these responsibilities will enable the prospective employees to perform in a better way which will be beneficial for the organization. This session intends to provide an understanding of various instructional and non-instructional responsibilities of an employee.

Key Concepts

**Responsibility:**- Responsibility may be defined as an individual's obligation to carry out assigned duties.

**Instructional responsibilities:**- Instructional responsibilities are the specific responsibilities of a job. For a teacher instructional responsibility is to teach.

**Non-instructional responsibilities:**- Non instructional responsibilities are the responsibilities other than the specific responsibility expected from a person in his specific position. For a teacher non instructional responsibility includes super vision of students before, during and after schools, in-service meetings, mentoring etc.

**Social responsibility:**- Social responsibility is the responsibility of all the individual and organization towards society.

Introduction

A proper working environment is essential for increasing the productivity in any occupation. To ensure a conducive environment, it is essential that all the members perform their responsibility in the most effective manner. For a workplace to function, both employees and employers must live up to their responsibilities. While some of these responsibilities are formal and easy to understand or enforce, others are more difficult to conceive and enact. By understanding workplace responsibilities and working to meet them in all areas, a workforce can keep its members safe and productive. Instructional and non-instructional responsibilities explain what is the specific responsibility of a particular job and also what are the other responsibilities associated with the job. An understanding of these responsibilities enables the prospective employees to perform their function in an efficient way. This information is highly useful for women who are multi takers. An idea about these responsibilities will enable the women to proceed with a proper vision.

Every individual have many responsibilities in their different capacities. A proper knowledge of these responsibilities will enable the person to perform these duties in
its best way. Responsibility may be defined as an individual's obligation to carry out assigned duties. Define these assigned duty is the most important prerequisite for carry out the work. If one can have a clear idea of what is to be done then half of the work is done.

Instructional and non-instructional responsibilities enable one to define his various responsibilities in his capacity. Instructional responsibilities are the responsibilities specific to a job. Instructional responsibility of a teacher is to teach. Non-instructional responsibilities are the responsibilities other than the specific responsibility expected from a person in his specific position. This is what is expected from an individual other than his routine work which is essential for the betterment of the organization where he is working.

Take the example of a teaching profession. What are instructional responsibilities of a teacher? Instructional responsibilities are the specific tasks involved within an instructional program that are teacher’s responsibility to execute. Following are the important **instructional responsibilities** of a teacher.

- Meet all classes at the place and times specified. If unable to do so, notify your immediate supervisor or division office.
- Be well prepared for each class session.
- Attend orientation/semester start-up meetings.
- Prepare and distribute a course syllabus for each course to be taught.
- Maintain accurate class rolls.
- Be familiar with the contents of handbooks, instructional resources, guides, and other items of information which are distributed for faculty use.

Instructing students is the primary mission of the school system. Generally, in order to carry out the responsibilities of the school system, teachers and other employees may also be required to perform certain non-instructional and extracurricular duties. Assigned additional duties are considered part of all employees’ responsibilities. Non-instructional duties refer to those duties that are not directly involved with the instructional program or the implementation of the Common course, but that all teachers are expected to do.

**Non-Instructional Duties that the teachers are expected to perform include the following:**

- Conference with administration
- Supervision of students before, during, and after school
- Faculty meetings/Staff meetings
- Parent Teacher Conferences
- Open House
- Back-to-School Night
- In-service Meetings
- Actively serve on one school committee.
- To maintain an open classroom, understanding that the school has many visitors and that classrooms reflect who we are and what we do.
- To exemplify the best ideals of the teaching profession.
Responsibility in the Workplace

First you need to understand what responsibility in the workplace means. Without showing responsibility in the position you hold now, you won’t likely be granted additional responsibilities until you are able to demonstrate the ability to do so. There are different types of workplace responsibility.

- **Job Responsibility**

Some of an employee's more basic and important responsibilities involve meeting job expectations and fulfilling daily work duties. As a related workplace responsibility, employers must find ways to communicate what each worker's job entails. Formal job descriptions spell out employees responsibilities clearly and in written form for future reference. Performance evaluations ensure that employees are living up to their work responsibilities, or provide discipline or training when they aren't.

- **Self-Responsibility**

Another type of workplace responsibility is self-responsibility, which refers to each employee taking responsibility for his own actions outside of normal job duties. Self-responsibility is related to accountability, which requires workers to accept blame for their errors or omissions and acknowledge the successes and contributions of others. Accountability is especially important among business leadership to establish a positive workplace culture. Workers are responsible for dealing with their colleagues and superiors honestly and with integrity.

- **Mutual Responsibilities**

An extension of self-responsibility in the workplace is the list of mutual responsibilities that all members of a workforce share and have to one another. Workers are responsible for reporting illegal or suspicious behavior and policy violations. Everyone who works for a business has the responsibility of living up to the corporate code of ethics.

- **Responsibility for Safety**

Employers have legal responsibilities to provide safe work environments for their employees. Workers also bear some of the responsibility for a safe workplace. This includes reporting safety violations, following prescribed safety methods and using safety equipment as directed. Employers are also responsible for providing safety training to employees whose job duties require it.

- **Social responsibility**

Social responsibility means that all people and organizations have a responsibility to society. It is an ethical framework which suggests that an entity, be it an organization or individual, has an obligation to act for the benefit of society at large. Social responsibility is a duty every individual has to perform so as to maintain a balance between the economy and the ecosystems.
There are basic responsibilities like:

- Showing up for work on time and putting in expected hours
- Making appropriate choices – such as how you dress and how you interact with others
- Being reliable – your boss, the people you work with, and clients should be able to rely on you on a daily basis, especially during peak or urgent periods.

In addition, to show you truly fulfill the responsibilities of your position you should be able to:
- Meet deadlines (or complete work prior to deadline)
- Meet or exceed each of your current job goals.
- Quantify and present your successful results

With these responsibilities in mind an employee can excel in his work and reach greater heights.

**Practical Session**

Participants are asked to take a chit from the box where the name of different occupations is written. They are asked to form the group based on the occupation in the chit in such a way that one occupation form one group. Then the group members are asked to sit together and assume the role of the person in their chit. Each group is asked to write down the instructional and non-instructional responsibilities of their job. Finally group leaders of each group present their responsibilities.

**Activity Corner**

1. What is the difference between instructional and non-instructional responsibilities?
2. What are the different types of workplace responsibilities?
3. What do you mean by social responsibility?

**Summary**

- Each job has specific instructional and non-instructional responsibilities.
- Instructional responsibilities are the specific responsibility of a job. For a teacher instructional responsibility is to teach.
- Non instructional responsibilities are the responsibilities other than the specific responsibility expected from a person in his specific position.
- There are various types of workplace responsibilities like job responsibility, individual responsibility, Mutual responsibility, Social responsibility etc.
- A proper knowledge of these responsibilities will enable the person to perform these duties in an efficient way.
- A proper knowledge of these responsibilities will enable the person to perform these duties in an efficient way.
Humans are unaware of the deleterious effects that excessive worrying can cause to their lives. In their panic to conquer more heights, they completely ignore the fact that in the long run, a life without worries is one of the greatest blessings that a person can possess. The present article is an attempt to understand more about worrying and how worrying can be a potential threat towards healthy living. It also deals with a book review of “How to Stop worrying and Start Living” by Dale Carnegie one of the renowned writers in public speaking.

**What is Worrying?**

Worry refers to the thoughts, images and emotions of a negative nature in which mental attempts are made to avoid anticipated potential threats.

**What Happens With Excessive Worrying?**

With excessive worrying, our mind and body go into overdrive as we constantly focus on "what might happen." Chronic worrying can affect our daily life so much that it may interfere with our appetite, lifestyle habits, relationships, sleep, and job performance. Many people who worry excessively are so anxiety-ridden that they seek relief in harmful lifestyle habits such as overeating, cigarette smoking, or using alcohol and drugs.

**Can Excessive Worry and Anxiety Cause a Stress Response?**

Stress comes from the demands and pressures we experience each day. Long queues we experience at various places, rush hour traffic, a phone ringing nonstop, or a chronic illness are all examples of things that can cause stress on a daily basis. When worries and anxiety become excessive, we trigger the stress response. There are two elements to the stress response. The first is the perception of the challenge. The second is an automatic physiological reaction called the "fight or flight" response that brings on a surge of adrenaline and sets our body on red alert.

**Can Excessive Worry Make Us Physically Ill?**

Chronic worry and emotional stress can cause a host of health problems. The problem occurs when fight or flight is triggered daily by excessive worrying and anxiety. The fight or flight response causes the body's sympathetic nervous system to release stress hormones such as cortisol. These hormones can boost blood sugar levels and triglycerides (blood fats) that can be used by the body for fuel. The hormones also cause physical reactions such as:
When the excessive fuel in the blood is not used for physical activities, the chronic anxiety and outpouring of stress hormones can have serious physical consequences, including:

- Suppression of the immune system
- Digestive disorders
- Muscle tension
- Short-term memory loss
- Premature coronary artery disease
- Heart attack

If excessive worrying and high anxiety go untreated, they can lead to depression and even suicidal thoughts.

Whether or not we become ill depends on how we handle stress. Physical responses to stress involve our immune system, our heart and blood vessels, and how certain glands in our body secrete hormones. These hormones help to regulate various functions in our body, such as brain function and nerve impulses. All of these systems interact and are profoundly influenced by our coping style and psychological state. It is not the stress that makes us ill. Rather, it is the effect of interaction of responses such as excessive worrying and anxiety on our various physiological systems that causes physical illness.

**What Lifestyle Changes Might Help Excessive Worriers?**

Although excessive worrying and high anxiety can cause an imbalance in our body, there are many options that can re-establish harmony of mind, body, and spirit.

- **Talk to your doctor.** Start by talking with primary care physician. Get a thorough physical exam to make sure other health problems are not fuelling our feelings of anxiety. Your doctor may prescribe medication such as anti-anxiety drugs or antidepressants to help you manage anxiety and excessive worry.
• **Exercise daily.** With your doctor’s approval, begin a regular exercise program. Without question, the chemicals produced during moderate exercise can be extremely beneficial in terms of enhancing the function of the immune system. Regular aerobic and strengthening exercise is also a very effective way to train our body to deal with stress under controlled circumstances.

• **Eat a healthy, balanced diet.** Stress and worrying provoke some people to eat too little, others too much, or to eat unhealthy foods. Keep your health in mind when worrying nudges you toward the fridge.

• **Drink caffeine in moderation.** Caffeine stimulates the nervous system, which can trigger adrenaline and make us feel nervous and jittery.

• **Be conscious of your worries.** Set aside 15 minutes each day where you allow yourself to focus on problems and fears -- and then vow to let them go after the 15 minutes is up. Do whatever you can to remind yourself to stop dwelling on worries.

• **Learn to relax.** Relaxation techniques can trigger the relaxation response -- a physiological state characterized by a feeling of warmth and quiet mental alertness. This is the opposite of the "fight or flight" response. Relaxation techniques can offer a real potential to reduce anxiety and worries. They can also increase our ability to self-manage stress. With relaxation, blood flow to the brain increases and brain waves shift from an alert, beta rhythm to a relaxed, alpha rhythm. Practiced regularly, relaxation techniques can counteract the debilitating effects of stress. Common relaxation techniques include deep abdominal breathing, meditation, listening to calming music, and activities like yoga.

• **Meditate.** Daily meditation -- instead of worrying -- may help us move beyond negative thoughts and allow us to become "unstuck" from worries that keep our body on high alert. With meditation, we purposefully pay attention to what is happening at the present moment without thinking of the past or future. Meditation decreases hormones such as cortisol and adrenaline, which are released during the "fight or flight" or stress response.

• **Have a strong social network.** Chronic feelings of loneliness or social isolation are hindrances to effective management of stress. People who are happily married and/or have large networks of friends not only have greater life expectancies compared with those people who do not, but they also have fewer incidences about all types of disease.

• **Talk to a professional therapist.** Psychological counseling can help us develop appropriate coping strategies to deal with issues that trigger excessive worrying. Psychological intervention can give coping methods that we can use either within or outside other treatment programs. The therapist will help us identify what types of thoughts and beliefs cause the anxiety and then work with us to reduce them. Therapy is only successful if we work on getting better.
Fundamental Facts You Should Know About Worry

1. Live in "Day-tight Compartments"
2. How to face trouble
3. Prepare to accept the worst
4. Keep calm and try to make it the best
5. Remind yourself of the exorbitant price you can pay for worry in terms of your health

Basic Techniques in Analyzing Worry

1. Get all the facts
2. Weigh all the facts - then come to a decision
3. Once a decision is reached, act!
4. Write out and answer the following questions
   - What is the problem?
   - What are the causes of the problem?
   - What are the possible solutions?
   - What is the best possible solution?

How to Break the Worry Habit Before It Breaks You

1. Keep busy
2. Don’t fuss about trifles
3. Use the law of averages to outlaw your worries
4. Cooperate with the Inevitable
5. Decide just how much anxiety a thing may be worth and refuse to give it more
6. Don’t worry about the past

Seven Ways to Cultivate A Mental Attitude That Will Bring You Peace and Happiness

1. Fill your mind with thoughts of peace, courage, health, and hope
2. Never try to get even with your enemies
3. Expect ingratitude
4. Count your blessings, not your troubles
5. Find Yourself and Be Yourself (Remember There Is No One Else on Earth Like You)
6. Try to profit from your losses
7. Create happiness for others

The Perfect Way to Conquer Worry

1. Pray

How to Keep From Worrying About Criticism

1. Remember that unjust criticism is often a disguised compliment
2. Do the very best you can

Worrying will never change the outcome
3. Analyze your own mistakes and criticize yourself

**Six Ways to Prevent Fatigue and Worry and Keep Your Energy and Spirits High**

1. Rest before you get tired
2. Learn to relax at your work
3. Protect your health and appearance by relaxing at home
4. Four Good Working Habits That Will Help Prevent Fatigue and Worry
   - Clear your desk of all the papers except those relating to the immediate problem at hand
   - Do things in the order of their importance
   - When you face a problem, solve it then and there if you have the facts necessary to make a decision
   - Learn to organize, deputize, and supervise
5. Put enthusiasm into your work
6. Don't worry about insomnia

It has been found from research that people who spent money more on experiences in life are happier than those who spend money on things. So, let us be wise to choose a life far from worries.
Worrying will never change the outcome
Interpersonal Skills
Shyam S. Salim* and Irene Elizabeth Joy
Senior Scientist, SEETTD, CMFRI
Email: shyam.icar@gmail.com

To effectively communicate and interact with one another, human beings need interpersonal skills. These skills are vital when interacting with other people at an individual or group level. Developing your interpersonal skills enhances your success both personally and professionally. Since employers understand the importance of these skills in teamwork, they are constantly looking for employees with proper interpersonal skills. With these skills, an employee will be in a position to effectively communicate with his or her colleagues, clients and customers in the workplace.

Why Interpersonal Skills?
A good interpersonal skill will allow you to network effortlessly and effectively.

What Are Interpersonal Skills?
- Effectively translating and conveying information.
- Being able to accurately interpret other people's emotions.
- Being sensitive to other people's feelings.
- Calmly arriving at resolutions to conflict.
- Avoiding gossip.
- Being polite.

How to Develop Interpersonal Skills

1. Smile and Be Appreciative

Many people would love to associate with a happy person. To boost your interpersonal skills, it is advisable to smile every once in a while. Additionally, be cheerful about your work and life which also helps to appreciate your colleagues. You may do this by identifying a positive attribute about them and positively commenting on it. Thank your colleagues when they assist you with anything and let your colleagues feel welcome when they seek assistance from you.

2. Listen Actively and Pay Attention To Others

When other people are talking to you, make them feel like you're interested through active listening. For instance, you can demonstrate active listening by restating what the person has said in your own words to show that you understand what they are saying. Your colleagues will be happy to know that you are listening. Regarding attention, acknowledge other peoples' achievements and sympathize with them when they face difficulties like death or illness.
3. Resolving Conflicts

These two can go a long way in improving interpersonal skills. Always strive to create a favorable environment for everyone in the place of work. This may be achieved by treating all the people in an organization equally, following up with requests from your colleagues and avoiding gossip. Resolving conflict also plays a major role in bringing people together. When conflicts arise between your colleagues, solve them in the fairest way. This will earn you admiration and respect.

4. Communicate Clearly and Use Humor

A clear communication will ensure that you avoid misunderstandings. Therefore, mind what you say as well as how you say it. In addition to effectively passing the message, communicating clearly implies that you are intelligent and mature, regardless of your age. Additionally, use humor once in a while. People like someone who makes them laugh. Using humor will help you develop good interpersonal skills and gain people’s affection.

5. Understand Others and Avoid Complaining

It is important to empathize with what others are going through at work. In doing this, you need to employ your emotions and try to put yourself in your colleague’s shoes. Additionally, avoid verbalizing your disappointments which will only serve to fuel conflicts in the organization than bring people together.

How to improve Interpersonal skills?

1. Planning

- Develop a SMART objective (Specific, Measurable, Action-oriented, Realistic, Time-bound).

2. Research

- Research various networking groups and associations to find out which ones will work for you.
- Research your contacts by asking them questions, so you will know with whom you are dealing.
- Research every possible opportunity.
- Keep your eyes and ears on the news, current events, and local developments.

3. Self promotion

- Promote yourself effectively.
- Understand your features and benefits(your strengths and how to use them) and learn how to express them.(Smile and Ask infomercial)
4. **Communications**
   - Communicate effectively.
   - Good communications are invaluable in any situation. Be articulate, concise, enthusiastic, honest and frank. Use language with which you are comfortable but make sure it is powerful. Don’t forget the other side of communicating: listening. This is as important as speaking.

5. **Think Creatively**
   - Solve problems and maximize opportunities with innovative ideas.

6. **Follow through**
   - Follow through on your commitments, both to yourself and others.

7. **Organization**
   - Organize yourself.

8. **Teamwork**
   - Work hard for others and the rewards will come back to you ten times over.

### Activity Corner

![Game Chart](image-url)
This game will be played in teams & each team will have a leader.

**Step 1:** You will be shown a Color chart for a short time and will be asked to remember the colors each number has been given in the chart.

**Step 2:** Now you will be given 5 numbers and each team has to guess the color of the number in the chart.

**Step 3:** Now each team has to decide among themselves & only the Team leader is allowed to make the final decision.

**Step 4:** Once the team leader has written down the colors of all the numbers or if the time is over, The Game ends !.

**Step 5:** The winner will be the team that gets most colors right within the time given or earlier.

This game encourages team discussion & the leaders will have a tough time deciding who is right or wrong. Have fun 😊.

Finding the colour codes

<table>
<thead>
<tr>
<th>Team</th>
<th>Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>7 1 8 14 21 25</td>
</tr>
<tr>
<td>B</td>
<td>3 9 17 24 29 12</td>
</tr>
<tr>
<td>C</td>
<td>4 11 26 19 6 30</td>
</tr>
<tr>
<td>D</td>
<td>3 17 13 22 18 10</td>
</tr>
<tr>
<td>E</td>
<td>2 5 15 28 19 12</td>
</tr>
<tr>
<td>F</td>
<td>4 14 23 16 18 29</td>
</tr>
</tbody>
</table>
SUMMARY
If you have effective interpersonal communication skills, you have

- Appropriate assertion skills
- Active listening skills
- The ability to accept criticism
- Respect for the face and dignity of the other person
Repetition is the mother of skills
Relevance

Balancing work and life is a comfortable state of equilibrium achieved between an employee's primary priorities of their employment position and their private lifestyle. Positive work-life balance is the product of greater flexibility—employees want greater control of their work and their schedules. As with most things in life, moderation is the key. People who are constantly tied to their jobs deal with the symptoms of stress and burnout. Overworked employees are more likely to suffer health problems, more likely to be absent and/or sick, less efficient, less sociable, and overall more difficult to work with. It is in the best interest of both the employee and employer to avoid these pitfalls through smart human resource management.

Introduction

Work life balance is a broad concept including proper prioritizing between “work” (career and ambition) on one hand and “life” (Health, pleasure, leisure, family and spiritual development) on the other. Through a broad lens, we simply define work-life balance as the healthy blend of an employee’s professional and personal responsibilities. It’s about being able to make the two work together over the long term, understanding that on any given day, employees may not fully “balanced” one way or the other. Rather, positive work-life balance means employees have the control and flexibility to be successful on both fronts.

Reasons for Imbalance

- Global Economy
- Longer working hours
- International business
- Competition
- Individual career ambitions.

Solutions

- Prioritize ruthlessly
- Learn how to say NO
- Organize
- Use technology
# How to achieve work life balance

1. **Purpose**
   To focus on how to successfully combine work, family relationships and leisure time into a satisfying life.

2. **Approach**
   - To create a skill set that enhances the ability to evaluate priorities, focus on the big picture and use long range planning.
   - Determining your priorities
   - Prioritizing the tasks and planning the activities can help to take out some free time which can be utilized for other purposes.
   - **TIME MANAGEMENT** is one of the best solutions which can help to reduce the imbalance between the personal and the work life of the employees.

3. Learn how to say **YES** as well as **NO**.
4. Establish your absence as well as your presence.
5. Do a little bit of everything as well as all of one thing.
6. Determine your tasks as well as your priorities.
7. Work until your time is up as well as until your task is done.
8. Bring some of your home to work as well as some of your work to home.
9. Seek to integrate your professional and personal activities as well as to separate work and play.

## ACTIVITY

**Answer these questions**

<table>
<thead>
<tr>
<th>WORK- LIFE HOME</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
</tr>
<tr>
<td><strong>Do you have children</strong></td>
</tr>
<tr>
<td>(If yes, then No. of children)</td>
</tr>
<tr>
<td>Are you presently working</td>
</tr>
<tr>
<td>a. Yes</td>
</tr>
<tr>
<td>b. No</td>
</tr>
<tr>
<td>What are the type of work you do at home</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>How much time you spend on domestic activities</td>
</tr>
<tr>
<td>a. Less than 2 hour’s</td>
</tr>
<tr>
<td>b. 2-4 hours</td>
</tr>
<tr>
<td>c. 4-6 hours</td>
</tr>
<tr>
<td>d. More than 6 hours</td>
</tr>
<tr>
<td>Do you feel you have an organized work style at home</td>
</tr>
<tr>
<td>a. Yes</td>
</tr>
<tr>
<td>b. No</td>
</tr>
<tr>
<td>Do you have elders to look after at your home?</td>
</tr>
<tr>
<td>a. Yes</td>
</tr>
<tr>
<td>b. No</td>
</tr>
<tr>
<td>Do you spend as much time as you’d like with your family</td>
</tr>
<tr>
<td>a. Yes</td>
</tr>
<tr>
<td>b. No</td>
</tr>
<tr>
<td>Do you think your job will make you feel tired to do the things that need attention at home?</td>
</tr>
<tr>
<td>a. Yes</td>
</tr>
<tr>
<td>b. No</td>
</tr>
</tbody>
</table>
Does your spouse help you at your household work?
- a. Yes    b. No

Do you feel you will be satisfied with your personal life and at the same time being employed?

Do you feel you will be able to balance your work life?
- a. Yes    b. No

Do you wake up early in the morning?
- a. Yes    b. No

Do you enjoy getting up late in the morning?
- a. Yes    b. No

Will you enjoy working on holidays?
- a. Yes    b. No

Will you prefer to work a bit late without any extra pay?
- a. Yes    b. No

Do you feel you will miss out quality time with your family and friends because of work pressure?
- a. Yes    b. No

Do you suffer from stress related diseases like hypertension etc.
- a. Yes    b. No

How will the following factors affect you in balancing your work life and family commitments?

<table>
<thead>
<tr>
<th>Factors</th>
<th>Will not Affects</th>
<th>Will Sometimes</th>
<th>Affects Many times</th>
<th>Always affects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work Hours</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overtime</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Work from home after office hours</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Work on holidays</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travelling away from home</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spending time with friends</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Get home on time</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Excessive household work</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Do any study or training you want to do</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Keep healthy and fit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Take part in community activities or fulfill religious commitments</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Take care of family and spend time with them</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Negative Attitude of family / spouse</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Negative Attitude of superior / colleagues</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Tick the factor that motivate you to work

<table>
<thead>
<tr>
<th>Personal Satisfaction</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial Independence</td>
<td></td>
</tr>
<tr>
<td>Support from family</td>
<td></td>
</tr>
<tr>
<td>Constructive Utilization of Time</td>
<td></td>
</tr>
<tr>
<td>Any other, Specify:</td>
<td></td>
</tr>
</tbody>
</table>

Give priorities to the following (1to 5)

- Career
- Health
- Family
- Wealth
- Hobbies

On a scale of 1 to 10 (where 1 means strongly disagree and 10 means strongly agree) express the extent to which you agree with the following statement:

I feel that I will have the right balance between work and life outside of work.

1 2 3 4 5 6 7 8 9 10

Thank you for your time and co-operation - your opinions are highly valued.

Work Life wheel activity

Work Life Balance Wheel Activity: The activity aims to analyse the highs and lows of a person’s life, and helps in attaining a balance. A Wheel (Circle with sections) with essential entities for life, is made.

1. Health
2. Family & Friends
3. Fitness
4. Education
5. Happiness
6. Exploration
7. Relaxation
8. Spirituality Carrier
9. Fun
10. Love life
11. Finances

Now the participant honestly marks a dot at the outer edge of the circle if he feels good about that factor, and marks a dot near the centre of the circle if he feels otherwise. The same is to be done for all the factors. The participant then joins the dots. If a circle is not achieved, and has too many ups and downs, corrective measures need to be taken to balance life.
Final Thought

“Life is all about balance, too much and too little can kill. The best way to balance life is by setting your boundaries in learning to say enough.”

Work Life Balance Wheel
SUMMARY

- Find the right balance that works for you.
- Celebrate your successes and don’t dwell on your failures.
- Life is a process... and so is striving for balance in your life.
- A balanced life style boosts the sense of responsibility and ownership.
- Build better relationship with management.
- Builds confidence.
- Finally work to live, don’t live to work.
All of us have heard of Swami Vivekananda, the wandering monk who lived from 1863 to 1902 was one of the finest minds that our country ever produced. Vivekananda’s spirituality was a reflection of his understanding of life. He viewed life dispassionately and saw divinity in every being. This understanding of the broader meanings of life also made him a champion of women’s rights. He wanted the women to be empowered so that they could deal with their lives themselves. His advice to men was, ``our right of interference is limited entirely to giving education. Women must be put in a position to solve their own problems in their own way. No one can or ought to do this for them. And our Indian women are capable of doing it as any in the world.”

Empowering women may sound simple but is not that easy to execute. It involves a series of interconnected aspects. The solution may differ from case to case depending on the context. It involves two main processes.

1. Creation of the right environment.
2. Women being able to act in such an environment.

While the task of creating the right environment is mostly external, something which has to be done by the society, the second one – viz women being able to act is such an environment – is an individual choice. A woman can choose to act or not to act in a particular situation. But this would require her to make an informed decision. It is this decision making process that we are going to focus in this lecture.

The dictionary meaning of “decision” is “a conclusion or resolution reached after consideration” and decision making is the step by step process through which one reaches such conclusion. What this basically tells us is that ‘decision making’ is a mental process but it depends on several external factors. Let me explain it with a story. There once lived a naughty child. While he was growing up, he happened to notice for the first time a fire burning and wanted to know what it was. His father told him that it produces a lot of heat and advised him to stay away from it lest it burn him.

But the kid wasn’t convinced and decided to try. He tried to touch the fire and got his hands burnt.

So the child made a decision to touch the fire though his father had told him not to and burnt his hands. This means that though he had someone advising him against doing it, his own mind was not mature enough to understand it. This means that the decision making capacity of a person is not only dependent on external factors, but also has to do with the mental maturity of each person.

**Relevance**

Women are roughly 50 percent of the world’s population and have a key role to play in the day to day affairs. Womanhood is a gift of nature and women are blessed with some unique traits. We are called the weaker sex by the West but the truth is they are...
mistaking our kindness as weakness. A woman has to play several roles in her personal and professional life. She is a daughter, a student, a professional, a mother, a wife, an aunt, a teacher, a cop, a minister, a lawyer, a grandmother and what not. The different roles require her to take different decisions depending on the facts and circumstances.

What should I study today, what should I eat today, what should I wear today, what should I say today, what job should I do, am I happy in my job and life, should I marry that particular person or should I marry at all, should I have kids, should I be bothered only about my rights or should I think about others too – these are questions all of us ask ourselves in some point in our lives. The answer to each depends on our decision making capacity. And this capacity matures with time. Looking back at our teens, haven’t we all wondered how silly we were then? What it actually means is that the decision that we made then appears to be immature to us now.

So those aiming for women empowerment should strive to create not only the tangible infrastructure in which women can take their own decisions, but also the intangible infrastructure to groom their minds to be mature enough to take those decisions. The intangible infrastructure begins right at home, with the kind of emotional support you are willing to give your child. Parents are the first teachers and only then comes the school. The girls should also get the right support in school as it where they pick up the basics of social living.

These are days when cases of child sexual abuse are on the rise. Such disturbances can upset the emotional balance of the child and affect their growing up process and make their decision making process clouded.

This is what we say in Malayalam as,

Lack of decision making skills makes one indecisive and fills life with uncertainty which is a huge drain on our faculties. Thus making the right decision not only gives us peace, but also save time.

Let’s for instance take the case of the fishing community. Men go out into sea and bring back the day’s catch. This is either auctioned or sold in markets. But as we know, there are so many middle men and so the seller does not get the right market price. But what if there is a place where you can take your catch directly to and sell to the customers avoiding the middle-men. That will maximise your profit.

In life each action you do is based on the decision you take. You make a lots of decisions everyday. A decision is one when there are different you can do and you pick one of them. Some decisions are easy taken while some decision making is difficult. A decision varies according to the situation you are into. Taking the right decision at the right time is a very crucial activity.
A simple example for a taking a decision making: Ria really wants a new phone. Unfortunately, the one she wants costs Rs. 15000, and she has only Rs. 10000. She wonders how she will get the rest of money.

Step 1: Identify the problem Try to search out actual problem.

Step 2: Identify the problem. Ria does not have enough money to buy the phone.

Step 3: What are your choices?? Think of all the possible solutions.

Step 4: What are your choices?? Come up with list of possible solutions:-
1) Save her money until she’s has got enough money.
2) Borrow money from her parents or friends.
3) Buy a cheaper phone.

Step 5: Consider the consequences of your solutions. List both the negative and positive consequences.

Step 6: Consider the consequences of your solutions.

1) Save her money until she’s has got enough money.
   +VE: She will feel proud about her accomplishments; she will get the phone she really wants
   -VE: She has to wait.

2) Borrow money from her parents or friends.
   +VE: Ria will get the phone right away.
   -VE: She won’t feel independent; friends or parents might say “NO” to her.

Step 7: Consider the consequences of your solutions.

3) Buy a cheaper phone.
   +VE: Ria will get the phone right away.
   -VE: Ria won’t get the phone the phone she really wants.

Step 8: What is important to you??

Step 9: What is important for Ria??....getting the phone she really wants???....Getting the phone right away???....not borrowing money???....After choosing what is important, cross out other solutions.

Step 10: Make the decision.

Step 11: Make the decision. Ria decided to wait in order to save some more money for phone.

Concept of decision making in detail: Approaches to the decision making

Three primary decision making approaches: Avoiding, Problem solving and Problem seeking.

Every decision-making process reaches a conclusion, which can be a choice to act or not to act, a decision on what course of action to take and how, or even an opinion or recommendation. Sometimes decision making leads to redefining the issue or challenge. Accordingly, three decision-making processes are known as avoiding, problem solving, and problem seeking.

Avoiding

One decision-making option is to make no choice at all. There are several reasons why the decision maker might do this:
1. There is insufficient information to make a reasoned choice between alternatives.
2. The potential negative consequences of selecting any alternative outweigh the benefits of selecting one.
3. No pressing need for a choice exists and the status quo can continue without harm.
4. The person considering the alternatives does not have the authority to make a decision.

One example of avoiding a decision occurs routinely at the Supreme Court of the United States (as well as other appellate courts). The Supreme Court will decline to hear a case because, in their judgment, the issues have not been sufficiently considered in lower courts.

**Problem Solving**

Most decisions consist of problem-solving activities that end when a satisfactory solution is reached. In psychology, *problem solving* refers to the desire to reach a definite *goal* from a present condition. Problem solving requires problem definition, information *analysis* and evaluation, and alternative selection.

**Problem Seeking**

On occasion, the process of problem solving brings the focus or scope of the problem itself into question. It may be found to be poorly defined, of too large or small a scope, or missing a key dimension. Decision makers must then step back and reconsider the information and analysis they have brought to bear so far. We can regard this activity as problem seeking because decision makers must return to the starting point and respectively the issue or problem they want to address.

**Making Effective decisions**

1. Perception
2. Priority
3. Acceptability
4. Resources
5. Goals
6. Demands
7. Judgments

**Barriers to decision making:**

- **Hasty:** Making much decision without having much thought.
- **Narrow:** Decision making is based on limited information.
- **Scattered:** Our thoughts in making decisions are disconnected or disorganized.
- **Fuzzy:** Sometimes the lack of clarity on important aspects of decisions causes us to overlook certain important concepts.
Decision making in family:

Making decisions in life can be a difficult task. Throughout your life you will make decisions that will affect your life. In fact, the decisions you make today will not only impact your future, but also other people at the world in which you live.

Decision making involves thinking, talking, and searching for information related to a problem. You gather that help you with the decisions you need to make. When families and individuals know their values, they use them as a guide for all aspects of life. Whether choosing a career, using money, or deciding what to wear, values are the basics for all decisions. Most decisions are not made all at once. Decisions take time to complete.

Types of family decisions:

1. Husband dominated decisions
2. Wife dominated decisions
3. Joint decision making
4. Child dominated decision making
5. Unilateral decision making

1. Husband dominated decisions:
   - Husband takes the purchase decisions
   - Traditionally in products like Automobiles, Alcohol and Insurance.

2. Wife dominated decisions:
   - Wife takes the purchase decisions.
   - Traditionally in products like household maintenance items, food and kitchen appliances.

3. Joint decision making:
   - Both husband and wife make the decision.
   - Traditionally in school choice, vacations and household matters.

4. Child dominated decision making:
   - Child makes the final product decision
   - Traditionally on child related items.

5. Unilateral decision making:
   - Taken by any member of the family.
   - Traditionally on low priced goods and personal care items.

Career decision making:

Career decisions are a lifelong process. It is all about exploring and experiencing the world of work. It is all about understanding abilities, interests, skills, values and combining these to create a meaningful framework for life.

If someone has to join a career course, so many options might be in front of them. They should have the capability to take the right decision. For that they should have
self-awareness about the career and what are the different options for it. That finally leads to the decision on career path.

**Activity Corner:**

Making the crowd into different groups, giving them different topics to discuss:

- a) While going on a road, if you are seeing an accident what u will act first? Whether you will help that person or not??What decision you will take?
- b) If somebody has abused you with bad words on road? What u will do?
- c) While travelling in a bus, if somebody disturbs you what will you do?
- d) Ria really wants a new phone. Unfortunately, the one she wants costs Rs. 15000, and she has only Rs. 10000. She wonders how she will get the rest of money. How you will help Ria to get the phone?
- e) While on the road, how will you react if you happen to see an accident?
- f) Suppose you spot a thief in your house, how will you react?

**Conclusion**

The decisions we take today can make or break our future. It is all about making the right choice - knowing what to do, when and how to do it. It needs no emphasis that this requires a strong will. The strong will make destiny. Indecisiveness can be suicidal.
Selected Bibliography and Further Reading

- Chaos conflict coaching guidelines handbook –ALAN SHARLAND
- Donelson RF 2006, Group Dynamics. Phoenix Color corp. Thomson Higher Education, 10 Davis Drive Belmont, CA 94002-3098 USA.31pp
- Handbook on Sexual Harassment of Women at Workplace
- Jeffrey P. Harrison (2010). Strategic Planning and SWOT Analysis, Essentials of Strategic Planning in Health Care, Chapter 5, Health Administration Press.
- Kerala State Information Technology Mission- Akshaya project- Reference material.
- Life Skills Education for Children and Adolescents in Schools, World Health Organization, 1997

Training Manual on Theeranaipunya - Equipping Fisherwomen Youth for Future
Selected Bibliography and Further Reading

- PQ: How It Matters More Than IQ By Virender Kapoor
- The Greatest Secret of Success: Your Passion Quotient By Virender Kapoor
- Your soul at work, by Nicholas W. Weiler in collaboration Stephen C. Schoonover, M.D.
- www.kirriwhitecoaching.com/2012/09/10/the-importance-of-knowing-yourself/
- www.en.wikipedia.org/wiki/self appraisal
- www.lifehack.org/articles/communication/emotional-intelligence-why-important.html
- www.wisegeek.com/what-is-an-emotional-quotient-eq.htm
- www.experiential-learning-games.com/emotionalintelligence.html
- www.unicef.org/lifeskills/files/5thGrade.pdf
- www.who.int/water_sanitation_health/hygiene/settings/hvchap8.pdf
- www.examiner.com/article/the-importance-of-personal-hygiene
- www.blog.ziffi.com/753/personal-hygiene-sofiya-sujad/
- www.medicalnewstoday.com/articles/150999.php
- www.fao.org/docrep/005/y4168e/y4168e05.htm
- www.wikihow.com/Eat- Properly
- www.lifehack.org/356391/this-why-you-should-sleep-your-left-side-backed-science
- www.waystofreedom.com/insights/food_as_vibration.html
- www.humanresources.com
- www.bookboon.com/blog/2012/12/practical-tips-for-a-better-work-life-balance.
- www.businessballs.com/free-team-building-activities.htm
- www.the-happy-manager.com/articles/importance-of-time-management/
- www.creativityatwork.com/2014/02/17/what-is-creativity/
Selected Bibliography and Further Reading

- www.slideshare.net/usmcyoo/creative-thinking-4858458.
- www.philosophy.hku.hk/think/critical/tests.php
- www.scholastic.com/browse/subarticle.jsp?id=4423
- www.en.wikipedia.org/wiki/Critical_thinking
- www.en.wikipedia.org/wiki/Public_speaking
- www.dce.kar.nic.in/new%20files/Chapter4-9-07.pdf
- www.gcflearnfree.org/computerbasics/1.2
- www.oer.nios.ac.in/wiki/index.php/computer_and_its_components
- www.tutorialspoint.com
- www.en.wikipedia.org/wiki/Internet
- www.lib.unc.edu/cws
- www.prezi.com/rlyzbnscn1/the-internet-is-a-global-system-of-interconnected-computer-n/
- www.nobledesktop.com/shortcuts/photoshopcs5/pc
- www.wikihow.com/Manage-a-Company
- www.alleywatch.com/2013/10/10-keys-to-managing-the-business-after-the-startup/
- www.bizmove.com/general/m6b.htm
- www.educationscotland.gov.uk
- www.hbr.org/1963/05/managing-for-business-effectiveness
- www.yourarticlelibrary.com/organization/group-dynamics-types-formation-of-groups-and-group-cohesiveness/29503/
- www.customerrush.com/6-ideas-to-build-customer-relationships
- www.time-management-guide.com/time-management-skills.html
- www.time-management-guide.com/personal-goal-setting.html
- www.icebreakers.ws/medium-group/newspaper-towers.html
- www.yourarticlelibrary.com/organization/group-dynamics-types-formation-of-groups-and-group-cohesiveness/29503/
- goop.com/why-women-criticize-each-other-plus-ways-to-play-bigger/
- www.webmd.com
- www.enkivillage.com/interpersonal-skills.html
- www.skillsyouneed.com/interpersonal-skills.html
- www.slideshare.net/KanokwanRakdee/interpersonal-skills-23246381
• www.en.wikipedia.org/wiki/Work%E2%80%93life_balance
• www.slideshare.net/muditdeval1/work-life-balance-ppt
• www.slideshare.net/ashgrover/decision-making-ppt
• www.slideshare.net/Aima.Masood/management-presentation
• www.slideshare.net/rainbowlink/family-social-class-life-cycle
• www.wikihow.com/Deal-With-Criticism
• www.en.wikipedia.org/wiki/Criticism
• www.home.snu.edu/~hculbert/conflict.htm
• www.icebreakers.ws/small-group/connecting-stories.html
• www.smallbusiness.chron.com/4-rs-method-conflict-1200.html
• www.smallbusiness.chron.com/5-conflict-management-strategies-16131.html
• www.shodhganga.inflibnet.ac.in
• www.wcd.nic.in
• www.akla.org/commons/files/2013/01/SWOT-Analysis.pps
### List of Participants

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Email</th>
<th>Mobile</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amisha P. Murukan</strong></td>
<td>Pandaraparambil (H) Panambukad Vallarpadam P.O.</td>
<td><a href="mailto:amishamurukan@gmail.com">amishamurukan@gmail.com</a></td>
<td>9048664821</td>
</tr>
<tr>
<td><strong>Anisha V.J.</strong></td>
<td>Vattatheri (H) Edavanakad P.O. Ernakulam,</td>
<td><a href="mailto:suju@gmail.com">suju@gmail.com</a></td>
<td>9846680575</td>
</tr>
<tr>
<td><strong>Asha P.</strong></td>
<td>Pandaraparambil (H) Panambukad Vallarpadam P.O.</td>
<td></td>
<td>9961921446</td>
</tr>
<tr>
<td><strong>Asha Chandran</strong></td>
<td>Pallathuparabil (H) Malipuram P.O. Chapakadappuram</td>
<td><a href="mailto:devikapr35@gmail.com">devikapr35@gmail.com</a></td>
<td>9745639819</td>
</tr>
<tr>
<td><strong>Aswathy A.S.</strong></td>
<td>Choolakal (H) Mulavukad P.O.</td>
<td><a href="mailto:saneesh1989@gmail.com">saneesh1989@gmail.com</a></td>
<td>9746140090</td>
</tr>
<tr>
<td><strong>Aswathy K.M.</strong></td>
<td>Puthiya Road Puthusserymala Thrikkakara P.O.</td>
<td></td>
<td>8111868073</td>
</tr>
<tr>
<td><strong>Athira K.J.</strong></td>
<td>Kollamparambil (H) Malipuram P.O.</td>
<td></td>
<td>9847609134</td>
</tr>
<tr>
<td><strong>Devika P.R.</strong></td>
<td>Pandaraparambil (H) Panambukad, Vallarpadam P.O.</td>
<td><a href="mailto:devikapr35@gmail.com">devikapr35@gmail.com</a></td>
<td>9544715314</td>
</tr>
<tr>
<td><strong>Dhrishya Anilkumar</strong></td>
<td>Plackal (H) Puthuvypu P.O.</td>
<td><a href="mailto:dhrishyaadarsh1994@gmail.com">dhrishyaadarsh1994@gmail.com</a></td>
<td>9846398826</td>
</tr>
<tr>
<td><strong>Dilna K.D.</strong></td>
<td>Kochuthara (H) Nayarambalam P.O.</td>
<td><a href="mailto:dilnadishi@gmail.com">dilnadishi@gmail.com</a></td>
<td>994788092</td>
</tr>
<tr>
<td><strong>Divya C.D.</strong></td>
<td>Pallath (H) Malipuram P.O.</td>
<td></td>
<td>9846095307</td>
</tr>
<tr>
<td><strong>Elizabeth Riya C.J.</strong></td>
<td>Chathanassery (H) Anjuchira, Narakkal,</td>
<td><a href="mailto:riyashilby85@gmail.com">riyashilby85@gmail.com</a></td>
<td>9847973649</td>
</tr>
<tr>
<td><strong>Geethu P.M.</strong></td>
<td>Vettilkarakaranparambil (H) Thundathumkadavu Varapuzha P.O., Pin:683517</td>
<td><a href="mailto:geethusuvil@gmail.com">geethusuvil@gmail.com</a></td>
<td>8111848031</td>
</tr>
<tr>
<td><strong>Greeshma P.K.</strong></td>
<td>Kalathil (H) Narakkal P.O., Pin:682505</td>
<td><a href="mailto:greeshma887@gmail.com">greeshma887@gmail.com</a></td>
<td>7561025495</td>
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## Annexure: I

<table>
<thead>
<tr>
<th>Name</th>
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<th>Email</th>
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<tbody>
<tr>
<td>Hitha P.K.</td>
<td>Pathiyaparambil (H)</td>
<td><a href="mailto:hithasajeed@gmail.com">hithasajeed@gmail.com</a></td>
<td>9645048078</td>
</tr>
<tr>
<td>Honey P.R.</td>
<td>Pulickal (H)</td>
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<tr>
<td>Jeethumol T.J.</td>
<td>Thayattuparambil (H)</td>
<td><a href="mailto:jeethujeeva@gmail.com">jeethujeeva@gmail.com</a></td>
<td>9744774169</td>
</tr>
<tr>
<td></td>
<td>Elankunnapuzha P.O.</td>
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<tr>
<td>Keerthi E.B.</td>
<td>Erezhath (H)</td>
<td><a href="mailto:keerthieb94@gmail.com">keerthieb94@gmail.com</a></td>
<td>9961747898</td>
</tr>
<tr>
<td></td>
<td>Maliankara</td>
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<tr>
<td></td>
<td>Pin:683516</td>
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<td>Email: <a href="mailto:keerthieb94@gmail.com">keerthieb94@gmail.com</a></td>
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<tr>
<td>Krishnendu T.U.</td>
<td>Kalathiparambil (H)</td>
<td><a href="mailto:krishnendukiran1991@gmail.com">krishnendukiran1991@gmail.com</a></td>
<td>9645442374</td>
</tr>
<tr>
<td></td>
<td>Narakkal P.O.</td>
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<td></td>
<td>Pin:682505</td>
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<td></td>
<td>Email: <a href="mailto:krishnendukiran1991@gmail.com">krishnendukiran1991@gmail.com</a></td>
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<tr>
<td>Mary Joseena C.G.</td>
<td>Chullikkaparambil (H)</td>
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<td>Mary Niya S.J.</td>
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<td>Monisha Mohanan</td>
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<td>South paravoor P.O.</td>
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<td>Email: <a href="mailto:monumoniasha1991@gmail.com">monumoniasha1991@gmail.com</a></td>
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<td>Niva A.S.</td>
<td>Arakkaparambil (H)</td>
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<td>Vypin, Pin:682511</td>
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<td>Poojalakshmy K.S.</td>
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<td>Email: <a href="mailto:salini.c.s28@gmail.com">salini.c.s28@gmail.com</a></td>
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<tr>
<td>Shani A.P.</td>
<td>Arakkaparambil (H) Nayarambalam P.O.</td>
<td>Pin:682509 Mobile: 8592046601</td>
<td></td>
</tr>
<tr>
<td>Shyma Sumesh</td>
<td>Konnullilparambil (H) Puthiy Road</td>
<td>Puthusserymala Thrikkakara P.O., Pin:682021 Email: <a href="mailto:shymasumeshsumesh@gmail.com">shymasumeshsumesh@gmail.com</a> Mobile: 9895302003</td>
<td></td>
</tr>
<tr>
<td>Sruthy A.S.</td>
<td>Arakkaparambil (H) Elamkunnapuzha P.O. Vypin Pin:682503 Email: <a href="mailto:sruthyas11@gmail.com">sruthyas11@gmail.com</a> Mobile: 9539992554</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sruthymol K.S.</td>
<td>Kadumundiparambil (H) Panambukad Vallarpadam P.O. Pin:682504 Email: <a href="mailto:molsruthy3@gmail.com">molsruthy3@gmail.com</a> Mobile: 9633825254</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Varsha A.M.</td>
<td>Arakkaparambil (H) Panambukad Vallarpadam P.O. Pin:682504 Email: <a href="mailto:varshamanikyan@gmail.com">varshamanikyan@gmail.com</a> Mobile: 9249509151</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viji P.V.</td>
<td>Padayil (H) Malipuram P.O. Chapakadappuram Pin:682511 Email: Mobile: 8547396884</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vinayamol N.A.</td>
<td>Palakkappilly (H), Cheriyapallamththuruth, N.Paravoor P.O. Pin:683513 Email: Mobile: 8606566554</td>
<td></td>
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### List of Faculties

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abhilash P.R. (Mr.)</td>
<td>Senior Technician (Exhibition Assistant)</td>
<td><a href="mailto:abhilashcmfri@gmail.com">abhilashcmfri@gmail.com</a>, 9946445403</td>
</tr>
<tr>
<td>Rahul G. Kumar (Mr.)</td>
<td>Young Professional</td>
<td><a href="mailto:cichlidiot@gmail.com">cichlidiot@gmail.com</a>, 9020274737</td>
</tr>
<tr>
<td>Ajith Thomas (Dr.)</td>
<td>Associate Professor – Marketing,</td>
<td>ajithtduq.edu, 944635437</td>
</tr>
<tr>
<td>Rajool Shanis (Dr.)</td>
<td>Technical Assistant</td>
<td><a href="mailto:rshanis@gmail.com">rshanis@gmail.com</a>, 8301067538</td>
</tr>
<tr>
<td>Alloycious P.S. (Mr.)</td>
<td>Senior Technician, MFD, CMFRI</td>
<td><a href="mailto:psalloy@gmail.com">psalloy@gmail.com</a>, 9961224269</td>
</tr>
<tr>
<td>Rakhy Shyam (Dr.)</td>
<td>Medical Officer</td>
<td><a href="mailto:rakhshyam@gmail.com">rakhshyam@gmail.com</a>, 9633141473</td>
</tr>
<tr>
<td>Ashalatha (Dr.)</td>
<td>Principal Scientist, Social Science Division</td>
<td>ajithtduq.edu, 944635437</td>
</tr>
<tr>
<td>Ramachandran C. (Dr.)</td>
<td>Principal Scientist, SEETTDCMFRI Kochi</td>
<td>ramachandrancairmail.com, 9446129341</td>
</tr>
<tr>
<td>Aswathy N. (Dr.)</td>
<td>Senior Scientist, SEETTDD, CMFRI Kochi</td>
<td><a href="mailto:aswathy.icar@gmail.com">aswathy.icar@gmail.com</a>, 9496449609</td>
</tr>
<tr>
<td>Ramees Rahman (Mr.)</td>
<td>Senior Research Fellow, SEETTDD, CMFRI</td>
<td><a href="mailto:rameezrahmanm@gmail.com">rameezrahmanm@gmail.com</a>, 9656254515</td>
</tr>
<tr>
<td>Athira N.R. (Ms.)</td>
<td>Senior Research Fellow, SEETTDD, CMFRI Kochi</td>
<td><a href="mailto:aathira31@gmail.com">aathira31@gmail.com</a>, 9446493492</td>
</tr>
<tr>
<td>Reeja Fernandez (Ms.)</td>
<td>Senior Research Fellow, SEETTDD, CMFRI</td>
<td><a href="mailto:reejafernandez@gmail.com">reejafernandez@gmail.com</a>, 9544239929</td>
</tr>
<tr>
<td>Bindu Sanjeev (Ms.)</td>
<td>Personal Assistant, PME, CMFRI</td>
<td><a href="mailto:binducmfri@gmail.com">binducmfri@gmail.com</a>, 9446495155</td>
</tr>
<tr>
<td>Rekha J. Nair (Dr.)</td>
<td>Senior Scientist, Demersal Fisheries Division, CMFRI</td>
<td><a href="mailto:rekhacmfri@gmail.com">rekhacmfri@gmail.com</a>, 9446415736</td>
</tr>
<tr>
<td>Bineesh K.K. (Dr.)</td>
<td>Scientist, PMFGR, NBFG, Cochin</td>
<td><a href="mailto:kkbineesh@gmail.com">kkbineesh@gmail.com</a>, 9037611957</td>
</tr>
<tr>
<td>Remya R. (Ms.)</td>
<td>Research Associate, SEETTDD, CMFRI</td>
<td><a href="mailto:remyarraj@gmail.com">remyarraj@gmail.com</a>, 9400820533</td>
</tr>
<tr>
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</tr>
<tr>
<td>Binsy P.K. (Ms.)</td>
<td>Scientist, Central Institute of Fisheries Technology</td>
<td><a href="mailto:bindujaganath@gmail.com">bindujaganath@gmail.com</a></td>
</tr>
<tr>
<td>Reshma V.G. (Dr.)</td>
<td>Senior Scientist, MBTD, CMFRI, Kochi</td>
<td><a href="mailto:reshjanardhan@gmail.com">reshjanardhan@gmail.com</a></td>
</tr>
<tr>
<td>Binu Kaliyadan (Mr.)</td>
<td>Master Trainer, Corporate Solutions</td>
<td><a href="mailto:binukaliyadan@yahoo.com">binukaliyadan@yahoo.com</a></td>
</tr>
<tr>
<td>Roshan G.S. (Mr.)</td>
<td>Manager (Training), State Bank Learning Centre</td>
<td><a href="mailto:rosh.gsa@sbi.co.in">rosh.gsa@sbi.co.in</a></td>
</tr>
<tr>
<td>Boby Ignatius (Dr.)</td>
<td>Principal Scientist, MBTD, CMFRI</td>
<td><a href="mailto:bobycmfri@gmail.com">bobycmfri@gmail.com</a></td>
</tr>
<tr>
<td>Rosline (Ms.)</td>
<td>Ward Member, Elamkunnappuzha Panchayat, Malipuram</td>
<td><a href="mailto:reshjanardhan@gmail.com">reshjanardhan@gmail.com</a></td>
</tr>
<tr>
<td>Charles George (Mr.)</td>
<td>Secretary, Trade Union Centre of India (TUCI)</td>
<td><a href="mailto:charlestuci@gmail.com">charlestuci@gmail.com</a></td>
</tr>
<tr>
<td>Salini K.P. (Ms.)</td>
<td>Technical Officer, SEETTD, CMFRI</td>
<td><a href="mailto:salinicmfri@gmail.com">salinicmfri@gmail.com</a></td>
</tr>
<tr>
<td>Deepa P.N. (Ms.)</td>
<td>Upper Division Clerk, CMFRI, Cochin</td>
<td><a href="mailto:deepapmanoj@gmail.com">deepapmanoj@gmail.com</a></td>
</tr>
<tr>
<td>Sandhya Sukumaran (Dr.)</td>
<td>Senior Scientist, Marine Biotechnology Division, CMFRI, Kochi</td>
<td><a href="mailto:sandhyasukumaran@yahoo.com">sandhyasukumaran@yahoo.com</a></td>
</tr>
<tr>
<td>Dhanya G. (Ms.)</td>
<td>Technician, SEETTD, CMFRI</td>
<td><a href="mailto:gdhanya06@gmail.com">gdhanya06@gmail.com</a></td>
</tr>
<tr>
<td>Sathiavathy C.R. (Ms.)</td>
<td>Executive Director, Society for Assistance to Fisherwomen</td>
<td><a href="mailto:sathyamthanal@yahoo.co.in">sathyamthanal@yahoo.co.in</a></td>
</tr>
<tr>
<td>Divya P.R. (Dr.)</td>
<td>Senior Scientist, PMFGR, NBFG, Cochin</td>
<td><a href="mailto:divyanbfgr@gmail.com">divyanbfgr@gmail.com</a></td>
</tr>
<tr>
<td>Shinoj P. (Dr.)</td>
<td>Scientist, SEETTD, CMFRI, Kochi</td>
<td><a href="mailto:pshinoj@gmail.com">pshinoj@gmail.com</a></td>
</tr>
<tr>
<td>Grinson George (Dr.)</td>
<td>Senior Scientist, FRAD, CMFRI, Cochin</td>
<td><a href="mailto:grinsongeorge@gmail.com">grinsongeorge@gmail.com</a></td>
</tr>
<tr>
<td>Shoji Joy Edison (Dr.)</td>
<td>Subject Matter Specialist (Agriculture), Krishi Vigyan Kendra, CMFRI</td>
<td><a href="mailto:shojijoy@gmail.com">shojijoy@gmail.com</a></td>
</tr>
<tr>
<td>Name</td>
<td>Position/Title</td>
<td>Institution/Company</td>
</tr>
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<td>-----------------------------------------------------------</td>
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<tr>
<td>Harshakumar P.S. (Mr.)</td>
<td>Consultant</td>
<td>SAF East Kadunagloor</td>
</tr>
<tr>
<td>Shubha Sathyendranath (Dr.)</td>
<td>Head of Remote Sensing and Marine Optics, Plymouth Marine Laboratory, UK</td>
<td></td>
</tr>
<tr>
<td>Jenny C.M. (Ms.)</td>
<td>Assistant Administrative Officer</td>
<td>CMFRI, Kochi</td>
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<tr>
<td>Shyam S. Salim (Dr.)</td>
<td>Senior Scientist</td>
<td>SEETTD, CMFRI</td>
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<tr>
<td>Kripa V. (Dr.)</td>
<td>Principal Scientist</td>
<td>FEMD, CMFRI</td>
</tr>
<tr>
<td>Sivaprasad P.S. (Mr.)</td>
<td>Technical Assistant</td>
<td>Society for Assistance to Fisherwomen</td>
</tr>
<tr>
<td>Madhu K. (Dr.)</td>
<td>Principal Scientist</td>
<td>Mariculture Division, CMFRI</td>
</tr>
<tr>
<td>Smitha K. (Ms.)</td>
<td>PA to SFAO,</td>
<td>CMFRI, Kochi</td>
</tr>
<tr>
<td>Maja Jose (Ms.)</td>
<td>Assistant Director of Fisheries Training, Kadungalloor</td>
<td></td>
</tr>
<tr>
<td>Smitha Kuriakose (Adv.)</td>
<td>M/s Chandrasekharan and Chandrasekharamenon, Advocates, Cochin</td>
<td></td>
</tr>
<tr>
<td>Manjeesh R. (Mr.)</td>
<td>Senior Technician (Computer Application), CMFRI, Cochin</td>
<td></td>
</tr>
<tr>
<td>Somy Kuriakose (Dr.)</td>
<td>Principal Scientist</td>
<td>FRAD, CMFRI</td>
</tr>
<tr>
<td>Manjusha U. (Ms.)</td>
<td>Senior Research Fellow</td>
<td>SEETTD, CMFRI</td>
</tr>
<tr>
<td>Soloman K. (Mr.)</td>
<td>Technical Assistant</td>
<td>SEETTD, CMFRI</td>
</tr>
<tr>
<td>Manu V.K. (Mr.)</td>
<td>Senior Technical Assistant (Programme Assistant - Computer), CMFRI</td>
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<tr>
<td>Somy Kuriakose (Dr.)</td>
<td>Principal Scientist</td>
<td>FRAD, CMFRI</td>
</tr>
<tr>
<td>Mary Metilda (Dr.)</td>
<td>Retd. Principal, Maharajas College</td>
<td></td>
</tr>
<tr>
<td>Thankam Teresa Paul (Ms.)</td>
<td>Scientist,</td>
<td>CIFRI, Cochin</td>
</tr>
</tbody>
</table>
### Annexure: II

<table>
<thead>
<tr>
<th><strong>Mathew A.K. (Mr.)</strong></th>
<th><strong>Uma E.K. (Ms.)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Coordinator,</td>
<td>Assistant Chief Technical Officer (Hindi Translator)</td>
</tr>
<tr>
<td>IRTC, Palakkad</td>
<td>CMFRI, Cochin</td>
</tr>
<tr>
<td>Email: <a href="mailto:mathewirtctmc@gmail.com">mathewirtctmc@gmail.com</a></td>
<td>Email: <a href="mailto:umaek@rediffmail.com">umaek@rediffmail.com</a></td>
</tr>
<tr>
<td>Mobile: 9495111768</td>
<td>Mobile: 9447666518</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Mini K.G. (Dr.)</strong></th>
<th><strong>Vandana (Ms.)</strong></th>
</tr>
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<tbody>
<tr>
<td>Senior Scientist</td>
<td>Technical Assistant (Hindi Translator)</td>
</tr>
<tr>
<td>FRAD, CMFRI</td>
<td>CMFRI, Cochin</td>
</tr>
<tr>
<td>Email: <a href="mailto:mini.anish02@gmail.com">mini.anish02@gmail.com</a></td>
<td>Email: <a href="mailto:vandana.ekpzha@gmail.com">vandana.ekpzha@gmail.com</a></td>
</tr>
<tr>
<td>Mob: 9446067548</td>
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<table>
<thead>
<tr>
<th><strong>Mini Sekharan (Dr.)</strong></th>
<th><strong>Vidya R. (Ms.)</strong></th>
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<tbody>
<tr>
<td>Assistant Professor,</td>
<td>Scientist,</td>
</tr>
<tr>
<td>School of Industrial</td>
<td>MFD, CMFRI</td>
</tr>
<tr>
<td>Fisheries, CUSAT</td>
<td>Email: <a href="mailto:vidya.panicker@gmail.com">vidya.panicker@gmail.com</a></td>
</tr>
<tr>
<td>Email: <a href="mailto:minisekharan@yahoo.com">minisekharan@yahoo.com</a></td>
<td>Mobile: 9961993450</td>
</tr>
<tr>
<td>Mobile: 9895070310</td>
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<table>
<thead>
<tr>
<th><strong>Nikitha Gopal (Dr.)</strong></th>
<th><strong>Vikas P.A. (Dr.)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal Scientist</td>
<td>Senior Technical Officer (SMS-Fisheries),</td>
</tr>
<tr>
<td>Central Institute of</td>
<td>CMFRI, Cochin</td>
</tr>
<tr>
<td>Fisheries Technology</td>
<td>Email: <a href="mailto:vikaspattath@gmail.com">vikaspattath@gmail.com</a></td>
</tr>
<tr>
<td>CIFT Junction, Willington Island</td>
<td>Mobile: 9447993980</td>
</tr>
<tr>
<td>Matsyapuri P.O., Cochin-682029 Kerala</td>
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<tr>
<th><strong>Pearly Antony (Ms.)</strong></th>
<th><strong>Vipinkumar V.P. (Dr.)</strong></th>
</tr>
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<tbody>
<tr>
<td>Assistant Professor,</td>
<td>Principal Scientist,</td>
</tr>
<tr>
<td>St. Teresa’s College,</td>
<td>SEETTD CMFRI</td>
</tr>
<tr>
<td>Ernakulam</td>
<td>Email: <a href="mailto:vipincmfri@gmail.com">vipincmfri@gmail.com</a></td>
</tr>
<tr>
<td>Email: <a href="mailto:pearlyantony@gmail.com">pearlyantony@gmail.com</a></td>
<td>Mobile: 9048540766</td>
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<tr>
<td>Mobile: 9847908330</td>
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<thead>
<tr>
<th><strong>Pradeep M.A. (Dr.)</strong></th>
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<tbody>
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<td>Scientist,</td>
<td></td>
</tr>
<tr>
<td>MBTD, CMFRI, Kochi</td>
<td></td>
</tr>
<tr>
<td>Email: <a href="mailto:drpradeepma@gmail.com">drpradeepma@gmail.com</a></td>
<td>Mobile: 8547118155</td>
</tr>
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</table>
# TRAINING PROGRAMME EVALUATION

**Theeranaipunya - Equipping the fisherwomen youth for the future**

(10 February - 20 April 2016)

<table>
<thead>
<tr>
<th>Name of the trainee</th>
<th>Trainee Code</th>
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<tbody>
<tr>
<td></td>
<td>TEKM-01-</td>
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| Email address | Mob.No: |

| Score: | Pre | Post |

<table>
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<tr>
<th>SL. No</th>
<th>STATEMENT</th>
<th>TEKM -01- POST TRAINING</th>
<th>TEKM -01- PRE TRAINING</th>
</tr>
</thead>
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<td>T</td>
<td>F</td>
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</table>

**SELF-APPRAISAL & NEED ASSESSMENT**

1. Physiological need is the basic need of humans

**UNDERSTANDING AND IMPROVING SELF**
2. Heredity and the environment does not shape our personalities

3. SWOT analysis is a planning method used to evaluate the strength, weakness, opportunities and threat

4. Self-esteem does not allow people to face life with more confidence

5. "To find yourself first learn about yourself."

6. Personality development is the ability of individuals to recognize their own and other people's emotion.


8. Emotional intelligence (EQ) is a better predictor of success than intelligence quotient (IQ).

### ATTITUDE

9. Negative thinking is a mental attitude in which you expect good and favorable results.

### MOTIVATION

10. PQ is otherwise known as Passive Quotient

11. Sphere of 3Ds in the context of motivation (Discipline, Dedication, Determination)
### SKILL DEVELOPMENT


13. Empathy is the ability to understand the emotional makeup of other people.

### PERSONAL HYGIENE

14. Normal blood oxygen levels in humans are considered 95-100 percent.

15. After meals you should not lie down on your back

16. Common cold is caused by virus

17. Exercising regularly will help to reduce fat content in our body

18. Oncology is the study of cancer cells

19. Tulsi is not good for respiratory diseases

20. A normal human possesses roughly 5litre of blood

21. You should not blink your eyes often when working with computer

22. Long sight is otherwise known as myopia

23. Adults need to *drink at least 1.5 litres of water a day.*

24. Using high heeled sandals is not good for health
**LEADERSHIP**

<p>| | |</p>
<table>
<thead>
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<tbody>
<tr>
<td><strong>25.</strong></td>
<td>Sexual Harassment of Women at Work Place Act, 2013, enacted to ensure safe working spaces for women.</td>
</tr>
<tr>
<td><strong>26.</strong></td>
<td>Asking or giving dowry is not punished by imprisonment as well as fine.</td>
</tr>
<tr>
<td><strong>27.</strong></td>
<td>For a doctor instructional responsibility is to teach</td>
</tr>
<tr>
<td><strong>28.</strong></td>
<td>International women’s day celebrated on April 8th</td>
</tr>
<tr>
<td><strong>29.</strong></td>
<td>Failure is the achievement of something desired, planned or attempted.</td>
</tr>
<tr>
<td><strong>30.</strong></td>
<td>Responsibility may be defined as an individual's obligation to carry out assigned duties.</td>
</tr>
<tr>
<td><strong>31.</strong></td>
<td>Stress is not a reason for worry</td>
</tr>
<tr>
<td><strong>32.</strong></td>
<td>Prathibha patil was the first woman prime minister of India</td>
</tr>
<tr>
<td><strong>33.</strong></td>
<td>Interpersonal conflict refers to conflict between two or more nations.</td>
</tr>
<tr>
<td><strong>34.</strong></td>
<td>Women are increasingly represented in the work force, but still they face challenges balancing work and home life.</td>
</tr>
<tr>
<td><strong>35.</strong></td>
<td>Leadership is the ability of an individual or organization to &quot;lead&quot; or guide other individuals, teams, or entire organizations.</td>
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<td></td>
<td></td>
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<tr>
<td>---</td>
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</tr>
<tr>
<td>36.</td>
<td>Global warming causes decrease in temperature</td>
</tr>
<tr>
<td>37.</td>
<td>The social process by which people interact with each other in small groups can be called group dynamism</td>
</tr>
<tr>
<td>38.</td>
<td>The deadliest Tsunami recorded in Kerala took place on 26 Dec 2006</td>
</tr>
<tr>
<td>39.</td>
<td>Leadership, communication and systems are the three most important ingredients to make a great business.</td>
</tr>
<tr>
<td>40.</td>
<td>The social process by which people interact with each other in small groups can be called group dynamism.</td>
</tr>
<tr>
<td>41.</td>
<td>Smaller groups are advantageous than larger groups in group dynamics</td>
</tr>
<tr>
<td>42.</td>
<td>Videoconferencing is not a communication system.</td>
</tr>
<tr>
<td>43.</td>
<td>Public speaking is the formal, face-to-face talking of a single person to a group of listeners.</td>
</tr>
<tr>
<td>44.</td>
<td>Hearing, understanding and judging are not the basic steps in listening process.</td>
</tr>
<tr>
<td>45.</td>
<td>Crossing your arms, avoiding eye contact, or tapping your feet are signs to effective communication.</td>
</tr>
<tr>
<td></td>
<td>Communication is the act of transferring information from one place to another, through vocal, written, visual or non-verbal</td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>47</td>
<td>Creativity do not turn new and imaginative ideas into reality.</td>
</tr>
<tr>
<td>48</td>
<td><strong>COMMUNICATIVE LANGUAGES</strong></td>
</tr>
<tr>
<td></td>
<td>Communicative English helps in grammatical perfection rather than communicating the meaning of the message.</td>
</tr>
<tr>
<td>49</td>
<td>Language does not communicate ideas from one person to another.</td>
</tr>
<tr>
<td>50</td>
<td>Hindi is one of the official languages of the Union of India.</td>
</tr>
<tr>
<td>51</td>
<td>Did Malayalam get Sreshta bhasha padavi?</td>
</tr>
<tr>
<td>52</td>
<td><strong>CAREER GUIDANCE</strong></td>
</tr>
<tr>
<td></td>
<td>Career guidance does not aims to assist the employees informed about career decisions</td>
</tr>
<tr>
<td>53</td>
<td>Career is the position held by an individual throughout his work life</td>
</tr>
<tr>
<td>54</td>
<td>Performance appraisal is a method by which the job performance of an employee is documented and evaluated.</td>
</tr>
</tbody>
</table>
55. Smart work does not save time.

56. The more contacts you have in the marketplace, the more likely it is you will find the job you want.

**CUSTOMER CARE**

57. CRM stands for Coastal Regulation Management

58. Customer feedback does not help to fix problems and identify successes in a business

59. SAF helps in economic empowerment of Fisher men

60. Two ways of understanding customer needs are interviews and surveys.

61. SAF assist the fisher women technically/financially to start new micro enterprises.

62. Monetary management is the process of budgeting, saving, investing and spending the cash usage of an individual or group.

**INTERPERSONAL RELATIONSHIP**

63. Criticism does not give the opportunity to learn and improve from other people’s suggestions.

64. Facilitation is any activity that makes tasks for others difficult.
65. Interpersonal skills (soft skills) are used every day and in every area of our lives.


67. Interpersonal skills are also referred to as: soft skills, communication skills or life skills.

**TIME MANAGEMENT**

68. Time management is the amount of time you spend on which activities

69. Time and tide waits for none

70. Listing duties doesn’t save time.

**FISHERIES ENTERPRISES AND EMPOWERMENT OPPORTUNITIES**

71. Mussels are called Kallumakkaya in malayalam

72. Sathar Island is in Ernakulam district

73. Clown fish is an ornamental fish

74. CMFRI-CENTRAL MARINE FISHERIES REGULATION INSTITUTE

75. SAF was formed in the year 2005

76. Oil sardine/Mathi is the state fish of Kerala
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>77.</td>
<td>Nirbhaya (fearless) is an initiative of the Kerala government, to guarantee security for women and children</td>
</tr>
<tr>
<td>78.</td>
<td>Kudumbashree is a male-oriented, community-based, poverty reduction project of the Government of Kerala.</td>
</tr>
<tr>
<td>79.</td>
<td>Kadal muringa is called oyster.</td>
</tr>
<tr>
<td>80.</td>
<td>Mussel farming is not practiced in Ernakulam district</td>
</tr>
<tr>
<td>81.</td>
<td>Meat chickens, commonly called broilers.</td>
</tr>
<tr>
<td>82.</td>
<td>Poultry farming is the raising of domesticated animals for the purpose of farming meat</td>
</tr>
<tr>
<td>83.</td>
<td>Prime Minister’s Rozgar Yojana (PMRY) is the scheme designed to create and provide self-employment opportunities to educated unemployed youth.</td>
</tr>
<tr>
<td>84.</td>
<td>ICDS stands for Institute for Child Development Services</td>
</tr>
<tr>
<td>85.</td>
<td>Fish farming involves raising fish commercially in tanks or enclosures, usually for food.</td>
</tr>
</tbody>
</table>

**COMPUTER TRAINING**

<p>| | |</p>
<table>
<thead>
<tr>
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<th></th>
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<tbody>
<tr>
<td>86.</td>
<td>Mean and average are different</td>
</tr>
<tr>
<td>87.</td>
<td>Range is not the minimum and maximum values in a sample</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>88.</td>
<td>Median is the middle value of a group of measurement.</td>
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<tr>
<td>89.</td>
<td>Ms Word helps in slide-based presentation.</td>
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<tr>
<td>90.</td>
<td>JPEG used in image file formats.</td>
</tr>
<tr>
<td>91.</td>
<td>Ctrl+A is used to select all contents of the page</td>
</tr>
<tr>
<td>92.</td>
<td>Word /excel/PowerPoint comes together in Ms Office</td>
</tr>
<tr>
<td>93.</td>
<td>Google is not a search engine</td>
</tr>
<tr>
<td>94.</td>
<td>MS excel helps in calculations in computer</td>
</tr>
<tr>
<td>95.</td>
<td>Powerpoint has rows and columns to organize data manipulations.</td>
</tr>
<tr>
<td>96.</td>
<td>WWW is World Wide Web</td>
</tr>
<tr>
<td>97.</td>
<td>Ctrl+ C is used to paste the copied contents of the page</td>
</tr>
<tr>
<td>98.</td>
<td>HTML is Hypertext Markup Language</td>
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<tr>
<td>99.</td>
<td>Ctrl+V is used to copy contents of the page</td>
</tr>
<tr>
<td>100.</td>
<td>Monitor is the heart of the computer</td>
</tr>
</tbody>
</table>

Signature: 11.03.2016  
Cochin

Signature: 10.02.2016  
Cochin
Theeranaipunya – Equipping the fisherwomen youth for the future

PARTICIPANTS EVALUATION PROFORMA

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<td>1.</td>
<td>Name (IN BLOCK LETTERS)</td>
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<tr>
<td>2.</td>
<td>Designation</td>
</tr>
<tr>
<td>3.</td>
<td>Age</td>
</tr>
<tr>
<td>4.</td>
<td>Address</td>
</tr>
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**General impression**: Please tick (✓) in the appropriate column you consider best

<table>
<thead>
<tr>
<th></th>
<th>Very well satisfied</th>
<th>Partially satisfied</th>
<th>Partially dissatisfied</th>
<th>Dissatisfied</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>How satisfied are you with the general arrangement of the training programme?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>How satisfied are you with the extent of laboratory facilities which were available for the training programme?</td>
<td></td>
<td></td>
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<tr>
<td>3</td>
<td>How helpful is your participation in decision making and planning of such a programme in future?</td>
<td></td>
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<tr>
<td>4</td>
<td>How satisfied are you with the behavior and style of your teachers?</td>
<td></td>
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</table>
**Given below are some of the important areas------------------please tick (✓) one that interests you most (in a score from 1 to 5) – 5- Most interested**

<table>
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<th>Area</th>
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<th>Interest</th>
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<tbody>
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<td>Discover and Empower yourself</td>
<td>Career planning</td>
<td>Self-Image, Self Defense and Self Esteem</td>
<td>Stress Management</td>
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<tr>
<td>SWOT</td>
<td>Success strategies</td>
<td>Personality Development</td>
<td>Work Life Balance</td>
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<td>Emotions and Passions</td>
<td>Listening Skills</td>
<td>Attitude and attainment</td>
<td>Group Dynamics</td>
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<td>Values for successful career and life</td>
<td>Health and Habits</td>
<td>Motivation</td>
<td>Interpersonal Skills</td>
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<td>Creativity and Creative thinking</td>
<td>Women rights and empowerment</td>
<td>Decision Making</td>
<td>Time Management</td>
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<td>Public Speaking</td>
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</table>

**Given below are the major areas of talks and practicals covered in Theeranaipunya Training Program**

**Please rate the theory and practical sessions as, (Poor -1, average -2, good - 3, very good- 4, and excellent -5)**

<table>
<thead>
<tr>
<th>SL NO</th>
<th>Lecture</th>
<th>Faculty</th>
<th>Content</th>
<th>Presentati on</th>
<th>Discussi on</th>
<th>Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Icebreaking</td>
<td>Dr Shyam S Salim</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Self-appraisal &amp; Need assessment</td>
<td>Dr Shyam S Salim</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Discover yourself</td>
<td>Mr Binu Kaliyadan</td>
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<td>4.</td>
<td>Empower yourself</td>
<td>Mr Binu Kaliyadan</td>
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<td>5.</td>
<td>Self-Image ,Self Defense and Self Reverence</td>
<td>Dr Rekha G Nair</td>
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<td>6.</td>
<td>SWOT of fisher woman</td>
<td>Dr Shinoj. P</td>
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<td>7.</td>
<td>Building Self : Confidence and Competence</td>
<td>Dr Shoji Joy Edison</td>
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<td>8.</td>
<td>Self Esteem</td>
<td>Ms Maja Jose</td>
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<td>9.</td>
<td>Personality Development</td>
<td>Dr Nikitha Gopal</td>
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<td>10.</td>
<td>EQ ( Emotional Quotient)</td>
<td>Dr Shyam S Salim and Ms Nivedita Shridar</td>
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<td>11.</td>
<td>Attitude and attainment</td>
<td>Dr Vipinkumar V P</td>
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<td>Know your Aptitude</td>
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<td>13.</td>
<td>Values for a successful career and life</td>
<td>Dr. Aswathy N</td>
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<td>14.</td>
<td>Motivation</td>
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<td>Sphere of 3Ds (Discipline, Dedication, Determination)</td>
<td>Dr Grinson George</td>
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<td>Talent development Strategies</td>
<td>Dr. K.K. Bineesh</td>
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<td>18.</td>
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<td>Creative thinking</td>
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<td>Mrs Manjusha U</td>
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<td>Ms Deepa P N</td>
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<td>Empathy</td>
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<td>24.</td>
<td>Decision making</td>
<td>Ms Dhanya G</td>
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<td>25.</td>
<td>Good manners</td>
<td>Dr. Reshma V G</td>
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<td>26.</td>
<td>Personal Hygiene</td>
<td>Dr Rakhy Shyam</td>
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<td>27.</td>
<td>Health and habits</td>
<td>Ms Smitha K</td>
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<td>Indigenous knowledges</td>
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<td>29.</td>
<td>Leadership - Qualities, Skills</td>
<td>Dr V Kripa</td>
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<td>30.</td>
<td>Work Life Balance</td>
<td>Dr. Shyam S Salim</td>
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<td>31.</td>
<td>Conflict Management</td>
<td>Mrs Reeja Fernandez</td>
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<td>32.</td>
<td>Women Empowerment</td>
<td>Dr Shubha Sathyendranath</td>
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<td>33.</td>
<td>Stress management</td>
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<td>34.</td>
<td>Instructional and Non instructional Responsibilities</td>
<td>Mrs Pearly Antony</td>
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<td>35.</td>
<td>Success Strategies</td>
<td>Mrs Pearly Antony</td>
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<td>36.</td>
<td>Panel session: Interaction with successful fisherwomen</td>
<td>Ms. Rosline</td>
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<td>Effective communication means and methods</td>
<td>Dr. Vipin Kumar V P</td>
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<td>38.</td>
<td>Creativity</td>
<td>Dr. Aswathy N</td>
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<td>Imparting Audio visual skills</td>
<td>Mr. Abhilash PR, Mr. N.K. Harshan, K.M David</td>
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<td>42.</td>
<td>Group dynamics</td>
<td>Ms. Thankam Teresa Paul</td>
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<td>43.</td>
<td>Communicative English</td>
<td>Mr. Rahul. G. Kumar</td>
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<td>Other languages - Official language</td>
<td>Ms. E.K Uma/Ms. Vandana</td>
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<td>Career planning</td>
<td>Dr. Grinson George</td>
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<td>46.</td>
<td>Successful career and its attributes</td>
<td>Dr. Sandhya Sukumaran</td>
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<td>Performance appraisal</td>
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<td>Good working habits and Smart work</td>
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<td>Alternate livelihood option</td>
<td>SAF Faculty- Mr. Mathew A.K</td>
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<td>Customer Relationship</td>
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<td>Analyzing customer needs and customer satisfaction</td>
<td>Mr. Rameez Rahman</td>
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<td>Microenterprises: Marketing skills and strategies</td>
<td>Mr. P.S. Sivaprasad</td>
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<td>Monetary management</td>
<td>Mr. P.S Harshakumar</td>
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<td>Interpersonal skills</td>
<td>Dr. Shyam. S. Salim</td>
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<td>55.</td>
<td>Life beyond barriers</td>
<td>Mrs. Jenny C M</td>
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<td>How to handle Criticism</td>
<td>Mr. Sunil P V</td>
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<td>How to influence people</td>
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<td>Stop worrying and Start Living</td>
<td>Remya Rajesh</td>
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<td>62.</td>
<td>Time Management, Resource and priorities</td>
<td>Dr Mary Metilda</td>
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<td>Time saving techniques through communication</td>
<td>Dr Mary Metilda</td>
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<td>Personal Time Management Skills</td>
<td>Ms Athira N R</td>
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<td>65.</td>
<td>Time bounded planning towards success</td>
<td>Mr Soloman K</td>
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<td>66.</td>
<td>Fisher Community welfare</td>
<td>Mr Charles George</td>
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<td>67.</td>
<td>Woman rights and empowerment</td>
<td>Ms Smitha Sinjo</td>
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<td>Micro level women and child development programmes</td>
<td>Ms Bindu Antony</td>
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<td>69.</td>
<td>Managing Business</td>
<td>Dr. Aswathy.N</td>
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<td>Financing women businesses</td>
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<td>Ornamental fish culture</td>
<td>Dr Rema Madhu</td>
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<td>Value added fish products</td>
<td>Bindu CIFT</td>
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<td>Dr. Vikas. P.A</td>
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<td>74.</td>
<td>Cage aquaculture</td>
<td>Dr Boby Ignatius</td>
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<td>Mussel farming</td>
<td>Mr P.S. Alloysious</td>
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<td>76.</td>
<td>Oyster farming</td>
<td>Ms Jenni.B</td>
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<td>Backyard Poultry farming</td>
<td>Dr Pradeep M A</td>
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<td>Basic Statistics and Computational Skills</td>
<td>Dr. T.V. Sathianandan</td>
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<td>Introduction to Computers</td>
<td>Dr. Mini. K.G</td>
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<td>Internet and creating E mail address</td>
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<td>82.</td>
<td>Practical session</td>
<td>Mr Manu V.K and Mr. Manjeesh</td>
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Could you satisfy yourself with the amount of participation in most of the discussions towards the end of lectures? (Tick the reasons)

| Yes always |  |
| Yes, but not only sometime |  |
| No. if no, then please indicate the reasons: |  |
| Lack of time |  |
| There was nothing important to discuss |  |
| Questions were embarrassing to speakers |  |
| Any other (Please specify) |  |

Please spell out most important purpose of attending this Theeranaipunya Training Program

| (i) |  |
| (ii) |  |

How was the daily programme? Tick the appropriate one:

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If you think that some more topics and/or techniques should have covered in the Theeranaipunya Training Program, then please list the topics and techniques that could be added

(i) 

(ii) 

(iii) 

Were you satisfied with the duration of the Theeranaipunya Training Program? -

Yes / No

What is your overall opinion about the Theeranaipunya Training Program?
About CMFRI
The Central Marine Fisheries Research Institute, Kochi (CMFRI) is a reputed ICAR organization which deals with various issues pertaining to fisheries and fisher folk. The Institute’s multidisciplinary approach to research in marine capture and culture fisheries has won its recognition as a premier institute comparable to any well-established marine laboratory in the world. The Socio - Economic Evaluation and Technology Transfer (SEETT) Division is essentially involved in research on socioeconomics which consists of both Fisheries Economics and Fisheries Extension. The division also initiated transfer of technology programs, empowerment of fisher folk and conservation of resources by conducting exhibitions, demonstrations, interactive meetings, trainings and campaigns.

About SAF
Society for Assistance to Fishermens (SAF) was registered under Travancore Cochin Literary and Charitable Societies Act on 1st June 2005 with the mandate to work for the empowerment of fisherwomen across Kerala state. The pre-cursor to the formation of SAF was the Tsunami calamity of December 2004. Tsunami left behind huge and widespread destruction in the nine coastal villages of Kerala. 25 lakhs coast-dwelling people were affected by the tragedy. Besides the loss of hundreds of human lives, fishermen families also suffered loss of their houses, boats, crafts and other personal possessions. In order to provide relief and rehabilitation to the affected, Government of Kerala devised and implemented two programmes - the Tsunami Rehabilitation Programme (TRP) (supported by the Asian Development Bank) and Tsunami Emergency Assistance Programme (TEAP). Later, additional assistance was brought in through the Prime Ministers National Relief Fund (PMNRF).