

**TRAINING MODULES**

(customized for V and VI Semester UG Trainees' SSIT Tumkur)

**Topic wise objectives**

**1. Communication Skills and Professional Ethics**

Topics	Objectives
Communication Skills And Professional Ethics	<p>Students are able to</p> <ol style="list-style-type: none"> <li>1. Understand their own communication style, the essentials of good communication and develop their confidence to communicate effectively.</li> <li>2. Manage stress by applying stress management skills.</li> <li>3. Ability to give contribution to the planning and coordinate Team work.</li> <li>4. Ability to make problem solving decisions related to ethics.</li> </ol>

**2. Aptitude**

Topics	Objectives
Pre-assessment Test And Introduction to Aptitude	<p><b>Pre-assessment Test :</b> To Determine the participants' level of Analytical, Logical and Reasoning Skills, Performance ( Time &amp; Knowledge) Management, Decision making Skills, Thinking Ability (Creativity / Out of Box Thinking).</p> <p><b>Introduction:</b></p> <ol style="list-style-type: none"> <li>a. Directing participants on the entire course of learning programme prior to the commencement of the session action plan.</li> <li>b. Seek to understand participants' goals and expectation from the upcoming session</li> <li>c. Giving participants' birds view on entire session.</li> <li>d. Introducing to Basic Concepts, Procedure and Methods.</li> </ol>

  
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Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.

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### Algebra

a. Equations

- a) Linear
- b) Quadratic

b. Age Problems

c. Direction problems

d. Progression

- a. Develop fluency in computing with all four operations using rational numbers and basic knowledge
- b. Dealing with genre of functions expanding to include polynomial, exponential, rational, and radical examples.
- c. Introducing to level of difficulty 1.

### Modern Math's

a. Permutation

b. Combination

c. Probability

d. Set theory

- a. Learn to reason with Random Experiments and Sample Spaces.
- b. Using tree diagrams to represent outcomes of two or more events and to calculate probabilities of combinations of different events
- c. Different laws and definition of set theories.

### Geometry

- a. Develop skills to analyse two and three dimensional geometric shapes and develop mathematical arguments about geometric relationship, exploring spatial sense and geometrical reasoning
- b. Recognize the workings involved in each geometrical shape and develop problem solving skills
- c. Introducing to level of difficulty 1.

### Reasoning

a. Logical Reasoning

b. Deductive Reasoning

c. Mathematical Reasoning

d. Relationship Reasoning

- a. The ability to understand, learn, think things out in quick and logical manner
- b. Enabling a student to manipulate abstract ideas

### Data Analysis

- a. Enhancing analysing skills.
- b. Building up surveillance skills.
- c. Learning to deal with the given data to analyse future estimation
- d. Designing and plotting data in various graphical representation
- e. Introducing to level of difficulty 1.

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### Semester-wise Module Break-up

Semester	Modules	Duration
V, VI	Communication Skills Professional Ethics	18
	Quantitative Aptitude Reasoning Skills/Verbal Ability Personality Development of Graduates	30
	Technical Skills Technical Internship and Certified Course (optional)	42

### SYLLABUS

#### Communication Skills and Professional Ethics

Sl.No	SESSION DETAILS	Hours
1	<p><b>Communication Skills:</b> Basics, Method, Means, Process and Purpose, Basics of Business Communication, Written &amp; Oral Communication, Listening.</p> <p><b>Communication with Confidence &amp; Clarity-</b> Interaction with people, the need the uses and the methods, Getting phonetically correct, using politically correct language, Debate &amp; Extempore.</p>	6
2	<p><b>Assertive Communication-</b> Concept of Assertive communication, Importance and applicability of Assertive communication, Assertive Words, being assertive.</p> <p><b>Presentation Skills</b> Discussing the basic concepts of presentation skills, Articulation Skills, IQ &amp; GK, How to make effective presentations, body language &amp; Dress code in presentation, media of presentation.</p>	8
3	<p><b>Team Work</b> Team Work and its important elements Clarifying the advantages and challenges of team work Understanding bargains in team building Defining behavior to sync with team work Stages of Team Building Features of successful teams.</p> <p><b>Body Language &amp; Proxemics</b> Rapport Building - Gestures, postures, facial expression and body movements in different situations, Importance of Proxemics, Right personal space to maintain with different people.</p>	8

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<b>5</b>	<b>Quantitative Ability 3</b> Speed Distance and Time, Downstream and Up stream Simple and compound interest and partnerships Clocks and Calendars, Averages, Cubes Questions from Company Papers Will be discussed	<b>3</b>
<b>7</b>	<b>Quantitative Ability 4</b> Basic Terminologies in Algebra, Equations, Simple Equation, Quadratic Equation, Cubic Equation, Functions, Graphs, Maxima n Minima, Age Problems Questions from Company Papers Will be discussed	<b>3</b>
<b>8</b>	<b>Quantitative Ability 5</b> Set Theory, Fundamental way of Counting, Permutations, Combinations and Probability Questions from Company Papers Will be discussed	<b>2</b>
<b>9</b>	<b>Quantitative Ability 6</b> Data Analysis Geometry	<b>2</b>
<b>10</b>	<b>Reasoning Ability 1</b> Logical Reasoning, Deductive Reasoning, Mathematical Reasoning Visual Sequence	<b>3</b>
<b>11</b>	<b>Reasoning Ability 2</b> Coding – Decoding, Brain teasers, Blood Relations Number series, Direction sense problems Alpha numeric problems	<b>2</b>
<b>12</b>	<b>Verbal Ability</b> Vocabulary, Phrases, Essay writing Sentence construction, Sentence correction Synonyms and Anonyms, Verbal Analogies, Homophones Reading Comprehension and Para-jumbles	<b>5</b>
	<b>Post assessment test</b>	<b>1</b>
<b>TOTAL HOURS</b>		<b>30 hours</b>

**Technical Modules for Common for all Circuit Branches**

C, C++, Data Structures, SQL	<b>Hours</b>
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Separate Workshops can also be conducted on **IoT, Python, Machine Learning & Artificial Intelligence** based on the requirement of college

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**Seetaram N T**

*Quora most viewed writer on Embedded Systems Profile link:*

<https://www.quora.com/profile/Seetaram-2>

**Work Experience:**

20+ years' experience in IT industry in various Embedded and full life cycle product Development Companies such as Honeywell, Toshiba, Samsung, Voxtron, Inabling, U&I Software

**Technical Skills:**

*Programming Languages:* C,C++, Javascript, nodeJS, Solidity, PHP,html, CSS

*OS:* Linux, QNX, *Windows Technologies:* Embedded, Linux, Blockchain, Ethereum, Hyperledger, IOT applications, Machine learning, Web development

**Domain Knowledge on:**

Airfield Lighting, Home Automation, Video surveillance, Automotive, Communication

**Soft Skills modules expertise:**

Communication and presentation, Technical Training, Leadership and problem solving, Project execution and management

**Certification** Six Sigma Green Belt Certified

**Rakshith Nagarle**

*Key Skills*

- Well acquainted with the upcoming quantitative concepts.
- Short cuts and speed mathematics
- Excellent verbal and written communication skills.

BE : 2007 batch National Institute of Engineering, Mysore.

MS : 2010-2011 Georgia Institute of Technology, USA

*Scoring in competitive Exams:*

CAT 2007 – 97.3 %; 2008 – 98.5 % (Aptitude – 99.9%)

GRE 2009 – 1380 (Aptitude – 790/800)

*Professional Expertise:*

Working as Aptitude Trainer since 2011

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session participants leave with a great sense of satisfaction of having learnt simple and effective methodologies which could be implemented right away.

**Work Experience –**

- 2 years with Motorola – Page Point – Responsibilities – Project Management and Training.
- 16 years with Misys Banking software – Training and Project Management
- Archana has obtained a Bachelor’s degree in Mathematics and Master of Computer Application (M.C.A.),
- Her expertise are well displayed in the programs to name a few; Train the trainer, customer centric programs, Outstanding Presenter, Corporate Etiquette, Align employees to company’s Vision/Values/Belief. She is very keen to motivate women leaders to build a strong Leadership Team. She has conducted numerous Leadership in Women programs for corporates and Educational institutions. Her program ‘Women in Leadership League’ has transformed many women executives to unleash their potential and scale greater heights.
- Archana has specialized in Training Need Analysis (TNA) which has helped the employees in the organization to be aligned with the vision, mission, and belief. She is a certified participant in “Women in Leadership League” program. Certification from Partners in Leadership Inc USA for their Culture Track program. **Master Diploma in Training** from IATD – Bangalore

**TRAINING PROGRAMS**

- Soft skills – Behavioral Skills, Team Management, Customer Services, Selling Skills, Performance improvement, Women empowerment and safety (POSH), Master trainer.
- Campus to Corporate – Workshop for College Students to assist them to be employable and develop entrepreneurial skills.
- Team Bonding – Out door learning.
- Coaching, counseling, Result oriented planning- For C-Level, Board members, Directors.

**Manjula Srikanth**

Soft skills Trainer, NLP Practitioner & Motivational Speaker

Manjula Srikanth is a TTT Certified Corporate Trainer NLP Practitioner and Motivational Speaker with more than a decade of hands-on experience of working in leading multinationals and private sector enterprise. Undergone training on latest behavioural and management techniques from well-known institutes like Franklin Covey South Asia, Peak Performance Trainings, Stimulus Consulting, Laureate Global and Centum Learning & Pegasus Institute of Excellence.

Her core competence is “Motivation” and she strongly believes that mind is the root cause of progress of human beings; success and enlightenment are magnificent fruits of it. Her focus of training is to change the mind-set of people - the way of thinking which will drive a new

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## Ashwini

Mrs. Ashwini is a language and soft skill trainer by choice. Training has been her passion. Being in the training industry since 10 years, she has proven her expertise in designing and presenting a wide variety of training programs like: Personality Development, Communication Skills, and Verbal ability Programs for multiple purposes.

As a woman of experience she analyzes any problem in a systematic way and can solve any complicated problem using her techniques. All her training sessions have an element of fun and enjoyment, maximum take away happens through experiential learnings. She comes up with training models based on creativity and communication, specially customized for corporate. Her training programs are very easily understood.

Excellent time management, prioritizing, organizational and business communication skills at all levels.

### Clients:

Involved in Planning, Designing and Execution of training programs for corporate, she has trained more than 10000 people Communication Skills and Verbal Ability.

### Achievements:

- Secured Seven Gold Medal in English Literature.
- Delivered 500+ hours of training.
- Developed over 50+ Training modules.
- Involved in Planning, Designing and Execution of training programs for corporate.
- Educated more than 1000 students in Communication Skills and Verbal Ability.

## Ganesh Keerthi

Ganesh has completed his Bachelors of Engineering in Electronics and Communication and served as the youngest RJ trainer in Radio One, FM 94.3 and as a columnist in newspapers. As a state level chess player, professional emcee and a corporate trainer with more than 6 years of experience, he is well-known for his company specific training programs in technical and quantitative aptitude modules that include Java, SQL and reasoning skills. He has trained in more than 60 educational institutions across the country since 2011. Ganesh was an integral part of the team which brought in UNO funding to a start-up company, to set-up math-labs in African Nations.

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