



MOODLAKATTE INSTITUTE OF TECHNOLOGY TRAINING AND PLACEMENT CELL

TRAINING AND PLACEMENT CELL

TOPIC 10 Seconds Aptitude Training
Organized On 15 th August to 19 th August 2019
Resource Person Mr. Anijith Shetty Mr. Ramprasad
Contact Details 9019965656/7259903209
Participants Branch/ Section:Final Year BE –(CSE/ECE/EEE) & MBA Students-72

with essential skills and competencies that will enhance their problem-solving abilities and prepare them for success in their academic and professional pursuits.

BRIEF PROFILE OF TRAINER

Mr. Anijith Shetty

Mr. Ramprasad

Training Objectives:

The primary objectives of our aptitude training program for BE students are as follows:

- a. **Enhance Problem-Solving Skills:** To improve students' ability to analyze complex problems, identify issues, and develop effective solutions.
- b. **Foster Critical Thinking:** To promote critical thinking skills, enabling students to make informed decisions and think critically about engineering problems.
- c. **Strengthen Quantitative Proficiency:** To enhance mathematical and quantitative skills that are integral to engineering tasks and coursework.
- d. **Improve Logical and Analytical Reasoning:** To develop logical and analytical reasoning abilities, which are essential for problem-solving and engineering design.
- e. **Prepare for Competitive Exams:** To provide students with the necessary aptitude skills to excel in various competitive exams and entrance tests for higher education and job placements.

Training Details:

The aptitude training program for BE students is structured to cover the following areas:

- a. **Mathematics:** Focuses on fundamental mathematical concepts and problem-solving techniques.
- b. **Logical Reasoning:** Develops logical reasoning abilities through puzzles, patterns, and deductive reasoning exercises.
- c. **Data Interpretation:** Enhances data analysis skills, including interpreting charts, graphs, and statistical data.
- d. **Verbal and Non-Verbal Reasoning:** Strengthens communication and reasoning skills, including reading comprehension and pattern recognition.
- e. **Mock Tests and Practice:** Provides students with ample opportunities to practice and improve their aptitude skills through mock tests and exercises.

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- d. Improve Logical and Analytical Reasoning: To develop logical and analytical reasoning abilities, which are essential for problem-solving and engineering design.
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Importance of this subject along with Real Time Applications :

1. Placement Exams
2. Competitive Exams like GRE, GATE, CAT etc.
3. Problem solving and creative thinking during project work
4. Analyzing, adapting nature for doing innovations
5. Building logic while writing computer programs
6. Helps in logical and analytical thinking. (E.g. to write computer programs)
7. Improves intelligence i.e. IQ, EQ and SQ
8. Improves Memory, Concentration and Calculations.
9. Improves decision making power. You can take better and logical decision on time.
10. It can develop your common sense and presence of mind.

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Outcomes and Benefits:

1. Have strong thinking capability
2. Have problem solving attitude
3. Be Efficiently participating in Campus placement drives
4. Be capable of Scoring high in competitive exams
5. Be confident to take GRE, GATE & other competitive examinations

ORGANIZING COMMITTEE

Prof. Dhanya Shenoy-Dean TPIR

Prof. Prashanth Acharya - Placement Co-ordinator

Prof. Amruthmala-Placement Co-ordinator

Detailed Syllabus :

1. Number System :

Simplification, Speed Math, Squaring and Cubing Techniques, Multiplication Tricks, Divisibility Rules, HCF of numbers, LCM of numbers, applications of HCF / LCM of numbers, Properties of HCF / LCM, Problems on HCF / LCM, Divisibility Rules, Divisibility by Numbers of the form $[10n-1]$ or $[10n+1]$, Factors / Divisors of a Given Composite Number, Number of Divisors, Number of Even & Odd Divisors, Sum of Divisors, Product of Divisors, Number of ways of expressing a given number as a product of two factors, Number of ways of expressing a given number as a product of two Co-Primes, Number of sets of factors which are Co-Prime to each other, Problems solved on Easy, Medium and Difficult Questions.

2. Blood Relation :

Relations defined, Generation Verticals, Family Tree, Single Person Blood Relations, Mixed/Chain Blood Relations, Symbol based Blood Relation Questions, Important Words.

3. Percentages :

Concept Explanation, Quick Calculation of Percentages, Conversion of Fraction to Percentage Table, Successive Percentage, Concept of 'By' & 'To', Percentage Change, Percentage Point Change, Product Constancy, Increased Value & Increase in Value, Percentage Changes in Numerator & Denominator, Successive Percentage, Problems solved on Easy, Medium and Difficult Questions

5. Ratio and Proportions:

Concept Explanation, Duplicate Ratio, Triplicate Ratio, Direct Proportion, Indirect Proportion, Double rule of three or compound proportion, Ratio in investment or partnership, Problems solved on Easy, Medium and Difficult Questions.

6. Number Series :

What are series, Types of Series: Number Series - Missing numbers, incomplete series - odd-even series, primes, Fibonacci series, arithmetic progression, geometric progression, harmonic progression, squares and cubes and operations on them, operations on digits, exponential series, increasing multiplication, hybrid series

7. Alphabetical Series

Missing alphabets, incomplete letter series - series of words, series of letters, arrangement of words/letters, letters marked with corresponding numbers sequence, positions of letters, ranking of the word in dictionary; Mixed Series - Missing numbers and words/letters, complete the series.

8. Profit and Loss :

Concept Explanation, Profit, Loss, Cost Price, Selling Price, Marked Price, Formula, Examples, Tricks, Problems solved on Easy, Medium and Difficult Questions.

9.Direction Sense

Four Main Directions, Four Cardinal Directions, Distance and displacement, Starting and ending points, Referential directions, Directions of shadows, Actual and conditional directions.

10.Average, Mixtures and Alligation

Concept Explanation, Average Formula to calculate the Mean, to determine the Median, to determine the Mode, Average formula for An AP Series, Mixtures &Alligations, Rule of weighted averages, Rule of alligation, Alligation cross, Alligation line, Successive replacement, Problems solved on Easy, Medium and Difficult Questions

11.Clocks :

Angles between the hands, Minute and hour spaces, Time based on coincidence and supplementary angles, Number of times an angle is formed, Duration of rings, Gain or loss of time, Actual time v/s given time, Angle covered for given condition.

12. Calendars :

Leap and non-leap years, Odd/Extra day concept, Odd days table, counting of odd days, Centennial year and non-centennial years, Date to day calculations, Last day of a year, Forward and backward counting of days, Repetition of a calendar year or month.

FEEDBACK

“The training materials and resources provided were well-organized and useful for reference. I found them to be a valuable addition to the learning experience.”





Principal

Principal
Moodlakatte Institute of Technology
Moodlakatte, Kundapura - 576217
Udupi Dist., Karnataka

List of Students Participated

Sr. No	USN	FULL Name
1	4MK13CS008	DIVYA NAIK
2	4MK13CS014	MOHAMMED ASIM
3	4MK14CS003	AMRUTHA NARASIMHA AGNIHOTRI
4	4MK14CS004	BHAKTHI GOPALA SHETTY
5	4MK14CS005	CHAITHRA
6	4MK14CS006	CHAITHRA SHETTY
7	4MK14CS007	CHETHAN B
8	4MK14CS008	KAVANA
9	4MK14CS011	NAGABHUSHAN UDUPA
10	4MK14CS012	NAZIA
11	4MK14CS013	POOJA SHETTY
12	4MK14CS014	POORNIMA P
13	4MK14CS015	PRAJNA SHETTY
14	4MK14CS016	RAJANI
15	4MK14CS017	RAMYA PRABHU
16	4MK14CS018	RESWIN KOSTAS DSOUZA
17	4MK14CS020	SAKSHI SHETTY
18	4MK14CS021	SANDHYA
19	4MK14CS024	SMITA NAIK
20	4MK14CS025	SURAKSHA M HOLLA
21	4MK14CS026	SYEED MOHAMMED BEARY
22	4MK14CS027	VAGEESHPRASAD BAIRETHAYA
23	4MK14CS029	VISHNUMURTHY
24	4MK14CS030	YASHASWINI
25	4MK15CS400	GAYATRI MADEVA DEVADIGA
26	4MK15CS401	SUJAY NAIK
	Electronics & Communication Engineering	
1	4MK12EC006	JAGADISH
2	4MK12EC018	SUPREETH
3	4MK11EC011	PRATAP
4	4MK14EC001	ASHIFA NAZ
5	4MK14EC002	CHANDANA S
6	4MK14EC003	DEEVITHA
7	4MK14EC004	DHANANJAYA
8	4MK14EC006	K P HARISH

9	4MK14EC007	KIRAN V
10	4MK14EC008	PATIL POONAM VIJAY
11	4MK14EC009	PRASANNA GAJANAN BHAT
12	4MK14EC010	PRATHEEKA BALIGA
13	4MK14EC011	ROMITA D ALMEIDA
14	4MK14EC013	SHIVANI J SHETTY
15	4MK14EC014	SHOBHA CHANNAPPA HORTI
16	4MK14EC015	SHRUTHI
17	4MK14EC017	VARALAXMI SHANKAR PATGAR
18	4MK14EC018	BHUVANESHWARI M MARATHI
19	4MK14EC402	SUHASA
20	4MK16EC401	NAGARAJ V BHANDARI
Electrical & Electronics Engineering		
1	4MK14EE001	Anagha Shastri
2	4MK14EE002	R. Rohan
3	4MK14EE003	Sudharshan
4	4MK14EE004	Sukshitha S Poojary
5	4MK14EE005	Umesh S Shetty
6	4MK14EE006	DhanashreeBallal
7	4MK15EE401	Girish C.K
8	4MK15EE403	Suguna V
9	4MK15EE404	Vinay K V
1	4MK16MBA01	Anusha A
2	4MK16MBA02	Archana
3	4MK16MBA03	Avinash
4	4MK16MBA04	Chaithra C
5	4MK16MBA05	Chethana K
6	4MK16MBA06	Deepa K
7	4MK16MBA07	Ganesh B Poojary
8	4MK16MBA08	Gurucharan
9	4MK16MBA09	Kannika B R
10	4MK16MBA10	Krishna
11	4MK16MBA11	Manoj D'souza
12	4MK16MBA12	Poornima Shetty
13	4MK16MBA13	Pradeep Kumar
14	4MK16MBA15	Rajeshwari
15	4MK16MBA16	Ranjitha. A
16	4MK16MBA17	Smitha
17	4MK16MBA18	Swathi