



**St. MARTIN'S ENGINEERING COLLEGE**  
**UGC Autonomous**  
**NBA & NAAC A+ ACCREDITED**  
Dhulapally, Secunderabad - 500100.



## **TRAINING AND PLACEMENT DEPARTMENT**

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### **Campus Recruitment Training for B. Tech IV year Students @ SMEC**

It is **St. Martin's Engineering College's** customary to conduct **Campus Recruitment Training (CRT)** every year for B. Tech III year students to enhance their skills in alignment with industry requirements. SMEC offers top-notch training, utilizing the Knowledge of experienced industry professionals. This training covers essential areas such as Coding proficiencies demanded by Multinational Corporations, Communication skills, Logical thinking, Problem solving, Interview preparation, Resume building and understanding employer expectations.

The CRT (Quantitative Aptitude and Verbal Reasoning) sessions are conducted for all Departments, as follows:

#### **Topics Covered:**

1. Time and work, different model questions on time and work
2. LCM and HCF and different model questions
3. Dates and calendars and various problems on Calendars

**Day:** Tuesday

**Date:** 22-10-2024

**Timings:** 6:30 PM to 8:30 PM

**Venues:** Online (Microsoft Teams)

In today's online session, the trainers covered essential aptitude topics starting with time and work, where they discussed different model questions to help students understand various approaches to solving problems related to time management and task completion. The session also focused on LCM (Least Common Multiple) and HCF (Highest Common Factor), with detailed explanations and example questions to reinforce understanding. Additionally, students worked through problems on dates and calendars, learning to solve a range of questions involving day and date calculations, an important area for competitive exams. Day 2 of the Aptitude and Reasoning session was successfully completed with active student participation, guided by the diligent monitoring of the faculty.

## Talks by Industry Experts to the Students:

A can lay railway track between two given stations in 16 days and B can do the same job in 12 days. With help of C, they did the job in 4 days only. Then, C alone can do the job in?

a) 46/5 days  
b) 47/5 days  
c) 48/5 days  
d) 10 days

Solution:  
 $A \rightarrow 16 \rightarrow \frac{48}{16} = 3 \text{ d}$   
 $B \rightarrow 12 \rightarrow \frac{48}{12} = 4 \text{ d}$   
 $A+B+C \rightarrow 4 \rightarrow \frac{48}{4} = 12 \text{ d}$   
 $A+B+C = 12 \text{ d}$   
 $3+4+C = 12$   
 $7+C = 12$   
 $C = 5 \text{ d}$   
 $C = \frac{48}{5} \text{ days}$

Batch 1: 22-10-2024, 6:30 PM – 08:30 PM

\*Model 7 (Factors) Number  $\rightarrow 2^p \cdot 3^q \cdot 5^r \cdot 7^s \dots$   
 Find the number of factors can be get to the number 120  
 (a) 16 (b) 18 (c) 14 (d) 10

Solution:  
 $120 = 2^3 \cdot 3^1 \cdot 5^1$   
 $1, 2, 3, 4, 6, 12$   
 Total  $\rightarrow 6$   
 Even  $\rightarrow 4$   
 odd  $\rightarrow 2$   
 $2^3 \cdot 3^1 \cdot 5^1$   
 Total  $\rightarrow (p+1)(q+1)(r+1) \dots$   
 Even  $\rightarrow p(q+1)(r+1) \dots$   
 odd  $\rightarrow (q+1)(r+1) \dots$

Batch 2: 22-10-2024, 6:30 PM – 08:30 PM

Solution:  
 $31 - 22 = 9$   
 $\text{Oct } 22 - 2024 = \text{Tues} + 1$   
 $\text{Dec } 15 - 2024 = ? \text{ Wed}$   
 $\text{Oct } (9) \quad \text{Nov } 30 \quad \text{Dec } (27)$   
 $\downarrow \quad \quad \downarrow \quad \quad \downarrow$   
 $2 \quad \quad 2 \quad \quad 4$   
 $\quad \quad \quad \& \quad \downarrow$   
 $\rightarrow \text{Apr } 15 - 2015 = \text{Fri}$   
 $\text{Oct } 18 - 2015 = ?$   
 $31 - 7 = 24$   
 $\text{Mar } 7 - 2018 = \text{Mon}$   
 $\text{Aug } 15 - 2018 = ? \text{ Mon}$   
 $\text{M } (24) \text{ A } \text{ M } \text{ J } \text{ T } \text{ A } (15)$   
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$   
 $3 \quad 2 \quad 3 \quad 2 \quad 3$   
 $= 14 = 0$   
 $\rightarrow \text{June } 10 - 2022 = \text{Sat}$   
 $\text{Nov } 14 - 2022 = ?$

Batch 3: 22-10-2024, 6:30 PM – 08:30 PM