ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
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MOODBIDRI

DEPARTMENT OF MECHANICAL ENGINEERING

-24] BOOT CAMP [AY 202³

BOOTCAMP REPORT (Pre-Placement Training) AY 2023-24

Boot Camp Training Report AY 2023-24

VERBAL ABILITY AND APTITUDE TRAINING

Date : 14/08/2023 to 18/08/2023 (5 days)	Time : 09:00 AM to 4:30 PM

Introduction

The Pre-Placement Training (PPT) program (Boot Camp) is an essential component of grooming and preparing final year engineering students for successful career placements. Among the diverse skill sets required by employers, verbal ability and aptitude are of paramount importance. This report outlines a comprehensive 5-day training program focused on enhancing verbal ability and aptitude skills, designed to empower engineering students with the tools they need to excel in placement interviews.

Trainer Details

Mr Syed Shajeer	**Mr Dhanush H**
Verbal Ability Trainer	Aptitude Trainer
10 SECONDS	**10 SECONDS**
Arya Hamsa, Royal County	Arya Hamsa, Royal County
80 feet road, J P Nagar.8th	80 feet road, J P Nagar.8th
Phase Bangalore - 83	Phase Bangalore - 83

Objective:

The primary goal of this training program was to equip students with strong verbal communication skills and a solid foundation in aptitude. These skills are vital not only for performing well in interviews but also for effective workplace communication and problem-solving.

Training Structure:

Day 1: Verbal Communication Essentials
· Understanding the importance of verbal communication in professional settings. · Elements of effective communication: clarity, conciseness, coherence, and correctness. · Verbal communication exercises: role plays, impromptu speeches, and group discussions.
· Building vocabulary and using appropriate language for different contexts.

Day 2: Reading Comprehension and Interpretation
· Strategies for effective reading comprehension.
· Identifying main ideas, supporting details, and inferences in passages.
· Practice exercises involving various topics and industries.

Day 3: Grammar and Language Usage
· Critical reading skills to comprehend technical documents and industry-related materials. · Brushing up on grammar rules and common errors in spoken and written English. · Sentence structure, subject-verb agreement, tenses, and punctuation.
· Practical exercises to reinforce proper language usage.

Day 4: Numerical Aptitude
· Introduction to numerical aptitude and its relevance in problem-solving.
· Basic mathematical concepts, including percentages, ratios, and proportions.

・Solving aptitude problems involving numerical data interpretation and logical reasoning
Day 5: Logical and Reasoning Skills ・Developing logical thinking and analytical skills. ・Types of reasoning: deductive, inductive, and abductive. ・Practice exercises on pattern recognition, analogies, and logical puzzles.

Training Methodology:

The training was conducted through a combination of interactive lectures, group discussions, practical exercises, and mock interviews. Real-world scenarios and industry-specific examples were used to make the training more relevant to the students' future careers. Guest speakers from the industry were invited to share insights on how verbal ability and aptitude play a role in different job roles.

Feedback:

Throughout the training, students were evaluated through quizzes, group activities, and individual assignments. Immediate feedback was provided to help students understand their strengths and areas for improvement. At the end of the training, a comprehensive assessment was conducted to gauge the overall progress made by each student.

Feedback on Verbal Ability Training
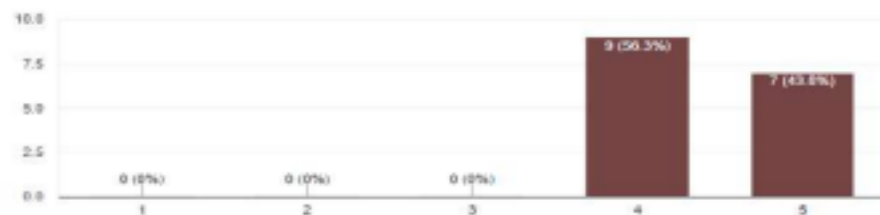1- poor/not Useful/ineffective 5- Exceptionally well/extremely useful/extremely Effective

How satisfied were you with the content covered in the aptitude training sessions
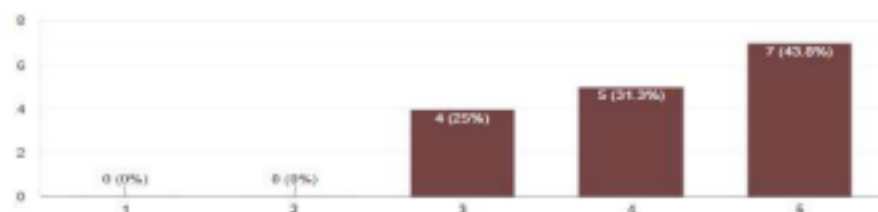16 responses
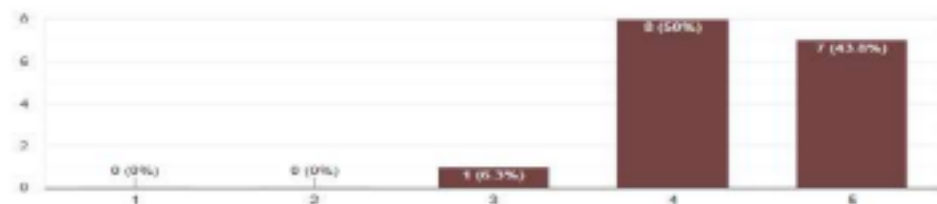
How well did the instructor engage the class during the verbal ability sessions?
16 responses

Were the provided study materials (e.g., handouts, reading materials) useful in improving your verbal ability?
16 responses

Please rate the effectiveness of vocabulary-building exercises and grammar comprehension discussions.
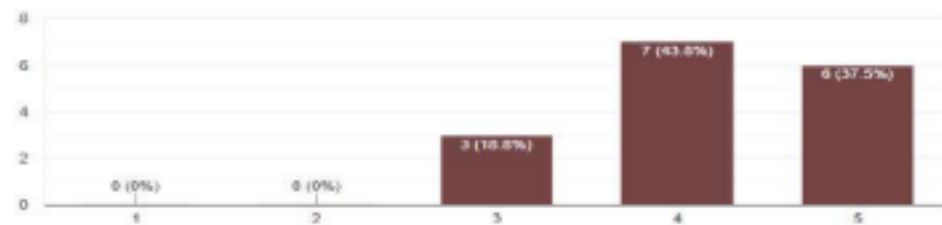
16 responses

To what extent do you feel your verbal communication skills have improved after attending these sessions?
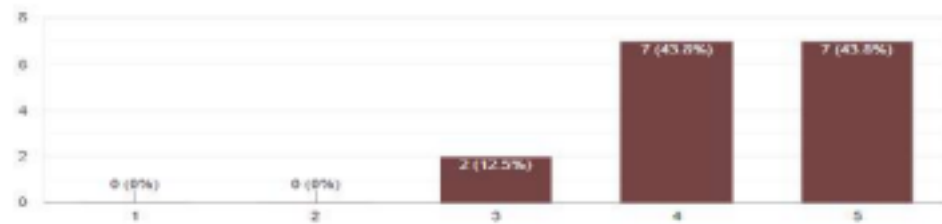
16 responses

How likely are you to recommend these verbal ability sessions to your peers?
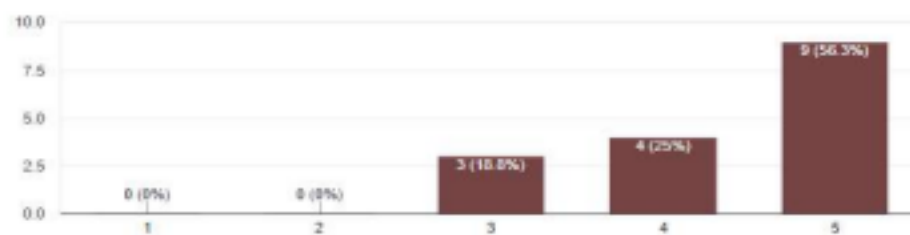
16 responses

Feedback on Aptitude Training

How satisfied were you with the content covered in the aptitude training sessions?

23 responses

Please rate the instructor's ability to explain complex aptitude concepts clearly.

23 responses

Did the training materials (e.g., handouts, presentations) support your learning experience?

23 responses

[Copy]

How effective were the practice exercises and examples provided during the aptitude training?

23 responses

[Copy]

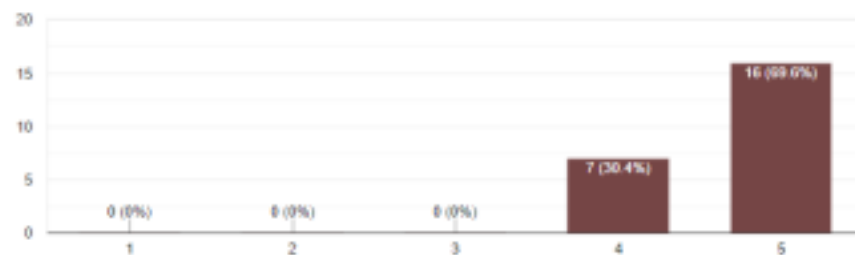**To what extent do you feel your problem-solving skills have improved as a result of attending the aptitude training?**

23 responses

[Copy]

Were the training sessions paced appropriately for your learning?

23 responses

[Copy]

How likely are you to recommend this aptitude training to your peers?

23 responses

[Copy]

Outcomes:

The 5-day verbal ability and aptitude training proved to be highly beneficial for the participating students. They reported increased confidence in their verbal communication skills, a better grasp of grammar and language usage, and improved problem-solving abilities. The mock

interview sessions helped students refine their interview techniques, with many reporting enhanced performance in subsequent mock interviews.

Conclusion:

Effective verbal communication and aptitude skills are critical for engineering students' success in their career placements. This 5-day training program successfully equipped students with the necessary skills and knowledge to excel in interviews and perform effectively in their future professional endeavors. As these skills are transferable across various industries, the training contributes significantly to the holistic development of engineering students and enhances their employability prospects.

Snap/Photos

Figure 1: Placement training Officer interact with Students

Figure: Verbal Ability Training by Mr Syed Shajeer

Figure 3: Aptitude Training by Mr Dhanush H

Figure 4: Students under going Assessment test.

SOFT SKILLS Training

Date: 19/08/2023 & 20/08/2023	Time : 09:00 AM to 4:30 PM
Venue: Room ME 401	Hours : 12 hrs

Introduction

In today's competitive job market, technical skills alone are not sufficient for success. Soft skills play a pivotal role in the holistic development of an individual, enabling them to communicate effectively, collaborate efficiently, and adapt to changing work environments. To address this need, a two-day soft skills training program was conducted for engineering students, supplemented by sessions on resume development and mock interviews. The training aimed to equip participants with essential skills to enhance their employability and career prospects.

Resources Person

Mr Chandan
Trainer
Aerodynamiks Academy
1st Floor, Shanker Vittal HQ, Nandigudda Rd,
Vaidyanatha Nagar, Attavar, Mangaluru, Karnataka 575001

Training Structure

Day 1: Soft Skills Training

Session 1: Communication Skills
The first session emphasized the significance of effective communication in professional settings. Topics covered included verbal and nonverbal communication, active listening, and clarity in conveying ideas. Practical exercises, role-playing, and group discussions allowed participants to practice and refine their communication skills.

Session 2: Interpersonal Skills
The second session centered on developing strong interpersonal skills necessary for collaborative work environments. Concepts such as teamwork, conflict resolution, and networking were explored. Participants engaged in team-building activities and case studies to better understand how interpersonal skills contribute to successful career growth.

Session 3: Time Management and Organizational Skills
The third session delved into time management and organizational techniques to improve productivity. Strategies for setting priorities, managing tasks, and maintaining a balanced work-life schedule were discussed. Interactive exercises helped participants identify personalized approaches to managing their time effectively.

Day 2: Mock Interview Workshop

Session 4: Resume Building and Interview Preparation
The first session of the second day focused on crafting compelling resumes and cover

letters. Students learned to highlight their skills, experiences, and achievements effectively. Interview preparation techniques, including researching the company, understanding job roles, and formulating responses to common interview questions, were also covered.

Session 5: Behavioural Interview Skills

In the subsequent session, participants were introduced to behavioral interviews and the STAR (Situation, Task, Action, Result) technique for responding to behavior-based questions. Mock interview scenarios were conducted, allowing students to practice articulating their experiences and skills in a structured manner.

Session 6: Technical Interview Skills

The final session of the workshop concentrated on technical interviews. Students received guidance on tackling technical questions, whiteboard challenges, and problem-solving assessments. Practical coding exercises and technical discussions helped participants gain confidence in their technical abilities.

Feedback

Outcome:

By the end of this two-day workshop, you will have significantly enhanced your soft skills, which are vital for effective communication, collaboration, and personal growth. Additionally, you will be better prepared to tackle engineering job interviews confidently. The mock interview practice will provide you with invaluable experience, allowing you to refine your interview techniques and showcase both your technical and soft skills to potential employers.

Conclusion:

Investing in your soft skills and interview preparation is an investment in your future career success. As you move forward in your engineering journey, remember that technical prowess is only one aspect of your professional profile. Your ability to communicate, collaborate, and adapt will set you apart in the competitive job market. Armed with enhanced soft skills and mock interview experience, you are now well-equipped to excel in interviews and contribute effectively to any engineering team.

Snaps/Photos

Figure : Mr Chandan handling the Soft skills training

Figure : Mr Chandan taking Mock Interview

Training 3: Python Programming

Date: 21/08/2023 to 26/08/2023 (6 days)	Time : 09:00 AM to 4:30 PM
Venue : Room ME 401	Hours : 42 hrs

Introduction

This report provides an overview of the Python programming training conducted for Mechanical Engineering students as part of the Placement Training Program. The training spanned over five days and aimed to equip students with fundamental Python programming skills relevant to their field.

Training Objectives

The primary objectives of the Python programming training for Mechanical Engineering students were as follows:

- Introduction to Python: Familiarize students with the basics of Python programming language.
- Applications in Mechanical Engineering: Illustrate how Python can be applied to solve problems specific to the field of Mechanical Engineering.
- Coding Skills: Develop students' coding skills and problem-solving abilities using Python. • Practical Experience: Provide hands-on experience through coding exercises and projects. • Preparation for Placements: Enhance students' employability by introducing them to a widely-used programming language in the industry.

Workshop Overview

- The workshop imparts a fundamental knowledge required to write program in Python language
- It provides hands-on training sessions which offer a creative idea in solving problems using python program
- The practical programming exercises assigned midst the lecture hours enhance the interest of solving different concepts of programming using python
- It offers the knowledge of advanced programming constructs and data structures in Python and It provides hands-on training sessions in related concepts.
- The workshop imparts the knowledge of implementation of basic concepts of Python • The workshop offers Interview based Questions in Python

Resources Person

- Dr. S.Mohideen Badhusha, Sr.Professor, CSE, AIET

Content/Syllabus Delivery

Day	Session	Portions/ Activities	Duration
DAY 1	session 1	Introduction and Basics of Python Programming – Exercises.	2 Hours
	session 2	Hands-on training	2 Hours
	session 3	Functions in Python - Exercises	1 ½ Hours
	session 4	Hands-on training	1 ½ Hours
DAY 2	session 1	Iteration in Python - Exercises	2 Hours
	session 2	Hands-on training	2 Hours
	session 3	Lists in Python - Exercises.	1 ½ Hours
	session 4	Hands-on training	1 ½ Hours
DAY 3	session 1	Strings in Python - Exercises.	2 Hours
	session 2	Hands-on training	2 Hours
	session 3	Tuple in Python -Exercises	1 ½ Hours
	session 4	Hands-on training	1 ½ Hours
DAY 4	session 1	Dictionary in Python - Exercises	2 Hours
	session 2	Hands-on training	2 Hours
	session 3	Files in Python- Exercises	1 ½ Hours
	session 4	Hands-on training	1 ½ Hours
DAY 5	session 1	Interview oriented questions	2 Hours
	session 2	Hands-on training	2 Hours
	session 3	Interview oriented questions	1 ½ Hours

	session 4	Hands-on training	1 ½ Hours
DAY 6	Session 1	Final Demo Presentation on different concepts of basic programming constructs in Python	4 Hours
	Session 2	Final Demo Presentation on different concepts of basic programming constructs in Python	3 hours

Conclusion

This schedule aims to cover fundamental Python programming concepts and their application in mechanical engineering, gradually progressing from basic syntax to more complex topics and practical applications. The last day allows students to showcase their understanding through hands on projects. Tailor the content and pace based on the students' proficiency and the available resources.

Feedback on Training

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Snap Photos

Figure : Dr S M Badhusha handling the Python programming classes

Figure : Evaluation process

Training 4: FACE Prep-TCS NQT

Date: 29/08/2023 to 03/09/2023 (6 days)	Time : 09:00 AM to 4:30 PM
Venue : Internet Lab, Main building	Hours : 42 hrs

Summary

This report provides an overview and detailed account of the six-day training program conducted by TCS for the Mechanical Engineering department students. The training encompassed three days of intensive C++ programming instruction and three days focusing on aptitude development. The aim was to equip the students with fundamental coding skills using C++ and enhance their problem-solving abilities through aptitude training.

Resources Partner

FACE Prep is one of the most trusted placement-prep brands that had helped over millions of students to get placed. FACE Prep, established in 2008, is a leading Indian company dedicated to preparing individuals for job placements with a strong focus on skill development. Over the years, FACE Prep has facilitated millions of students in embarking on their tech career journeys. The organization offers an array of programs, including Master classes, self-paced last-mile preparation, and workshops/boot camps, designed to equip students with the essential skills needed to secure high-paying positions in the technology sector.

There Alumni graduates are employed in prominent technology companies worldwide, such as Google, Microsoft, Meta, Adobe, Paypal, Amazon, TCS, Infosys, Wipro, Thoughtworks, Cognizant, Accenture, and more."

Introduction:

The training program was designed to enhance the technical and problem-solving skills of Mechanical Engineering students. The content was divided into two parts: three days of C++ coding training and three days of aptitude training. The sessions were conducted by experienced professionals from TCS.

- **C++ Coding Training (Days 1-3):**
  During the first three days, students were introduced to the basics of C++ programming. The training included:

  Day 1: Introduction to C++
  1. Basic syntax and structure of C++
  2. Variables, data types, and operators

  Day 2: Control Flow and Functions
  1. Conditional statements (if-else, switch)
  2. Loops (for, while, do-while)
  3. Functions and modular programming

  Day 3: Advanced Concepts

    1. Arrays, strings, and pointers

    2. Object-oriented programming (classes, objects, inheritance)

The students actively participated in coding exercises and practical applications to solidify their understanding of C++.

· **Aptitude Training (Days 4-6):**
The next three days were dedicated to enhancing aptitude skills crucial for placements and career growth. The training covered:

Day 4: Quantitative Aptitude

    1. Concepts of number system, ratios, percentages

    2. Problem-solving techniques for arithmetic and algebraic problems

Day 5: Logical and Analytical Reasoning

    1. Deductive and inductive reasoning

    2. Analyzing patterns, data interpretation, and puzzles

Day 6: Verbal Aptitude

    1. Vocabulary building, reading comprehension

    2. Grammar and sentence correction

Conclusion

The six-day TCS training program successfully imparted valuable skills in C++ programming and aptitude to the Mechanical Engineering department students. The interactive sessions, practical exercises, and focused approach contributed to enhancing their employability and readiness for the professional world.
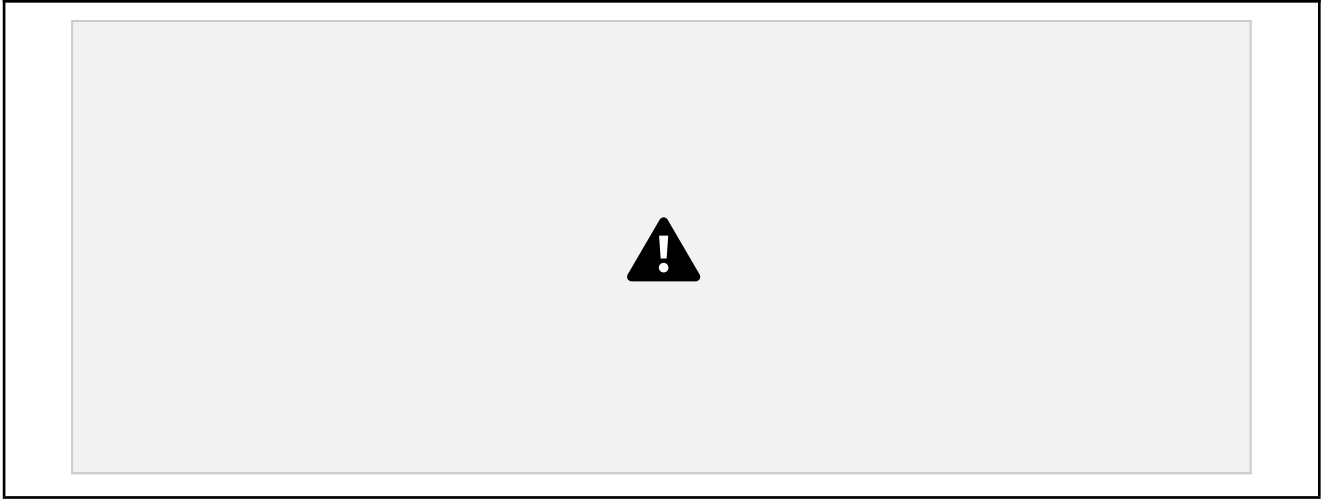
The training received positive feedback from both students and faculty. Such initiatives play a crucial role in bridging the gap between academic knowledge and industry requirements, preparing students for promising careers.
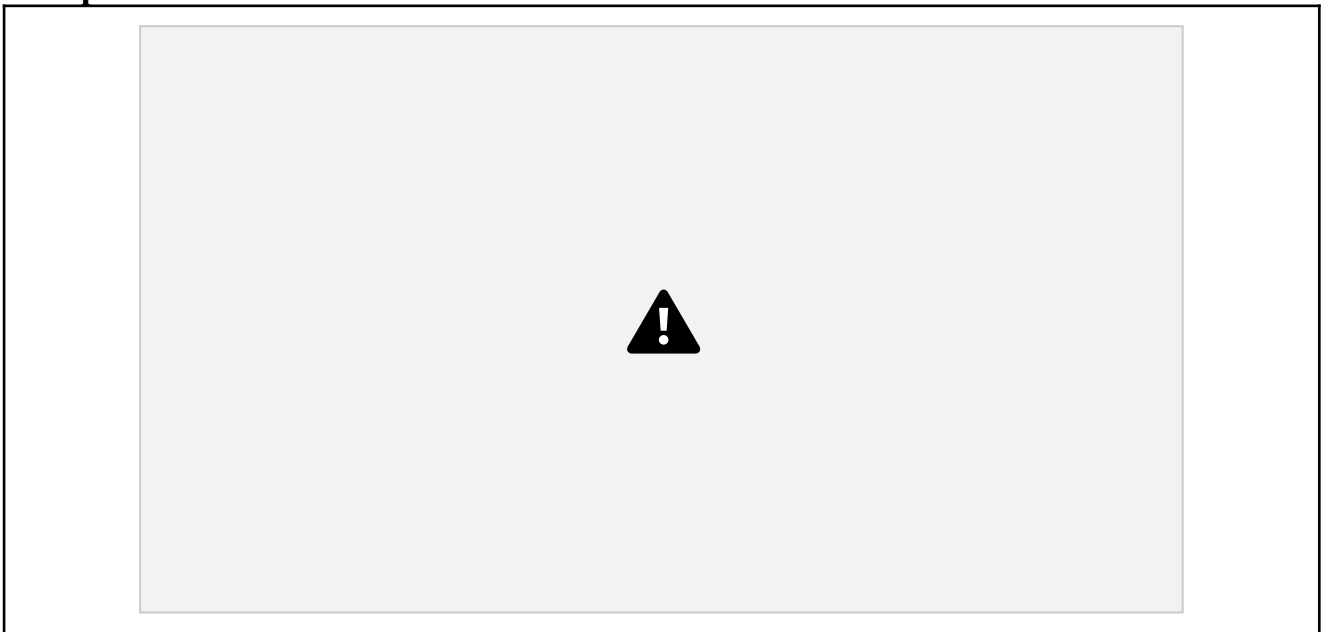
Feedback

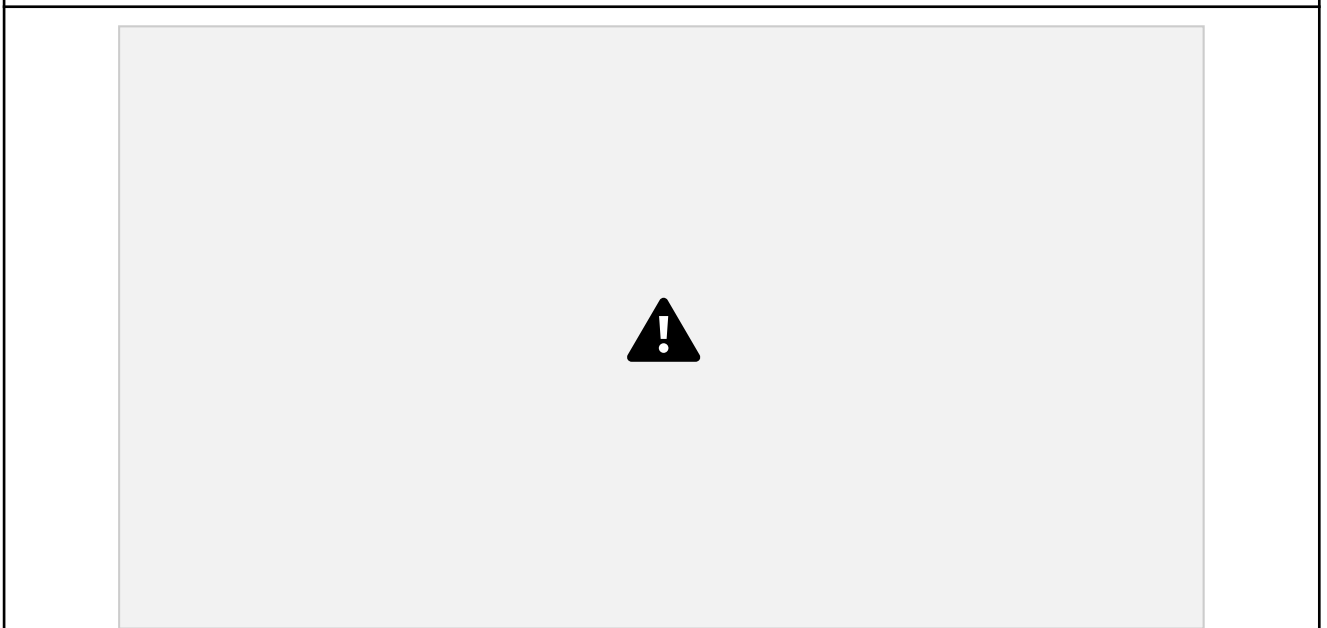**Snap Photos**

Figure : FACE Prep training

Figure: Shows the students practicing coding training

Figure : TCS NQT- Training

Coordinator HOD Principal

Annexure –I

Annexure – II

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Annexure – II

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Annexure – III

Annexure- IV : Students List

7th Sem ME		
Class coordinator : Praveen K C		
S.NO	USN	*NAME*
1	4AL20ME001	ADHWITH

2	4AL20ME002	AKSHAR N
3	4AL20ME003	BABUGOUDA SHANKARAGOUDA
4	4AL20ME004	CHANDAN BHOSALE URF HAGEDAL
5	4AL20ME006	CHIRANTH H S
6	4AL20ME007	DILEEP P R
7	4AL20ME008	FRISON NIKHIL MARTIS
8	4AL20ME009	GIRISH B BANNIKOPPA
9	4AL20ME011	JENNY FERNANDES
10	4AL20ME012	MANOJ KUMAR KARNAM
11	4AL20ME013	MANU K N
12	4AL20ME014	MOHAMMED SWAHID
13	4AL20ME015	MOHAMMED FAHAD H
14	4AL20ME016	NAVYASHREE H B
15	4AL20ME017	PALLAVI P
16	4AL20ME018	PAVANKUMAR H R
17	4AL20ME019	RAKSHITH S
18	4AL20ME021	VARUN S BHANDARY
19	4AL20ME022	VIGNESH
20	4AL21ME400	DODDAMALLIA
21	4AL21ME401	RAHUL KAMBAR
22	4AL21ME402	RAKESH KELAGADI
23	4AL21ME403	SACHIN RATHOD
24	4AL21ME404	SANDEEP JARALE

Annexure V: Boot Camp Schedule

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