Date: 18-06-2021

Report

1. Event Name: TCS Tattva Connect Session
2. Event Type: Webinar
3. From and to date (No. of days): 18 June 2021 (1 DAY)
4. Date of Completion: 18 June 2021
5. Venue: Online (Zoom)
6. Expert Name: Mr. Mandeep Bagchi, Ms. Aishwarya Gupta

Event Description:

The webinar was organized by Training and Placement Cell, Bajaj Institute of Technology, Wardha, in collaboration with Mr. Mandeep Bagchi and Ms. Aishwarya Gupta, lead and associate recruiter for Tata Consultancy Services Ltd. respectively for Maharashtra, Chhattisgarh and Madhya Pradesh region.

The aim of the webinar was to prepare students for the placement drives by clarifying the assumptions and misconceptions regarding the interview process. The session was commenced by Dr. K. Joshi, Head, Training and Placement Cell, with the welcome of the resource person. It was set into motion by the welcoming words of Dr. Narendra Kanhe, Principal, Bajaj Institute of Technology. The guest speakers were introduced to the students and the session was taken over by Mr. Bagchi and Ms. Gupta.

It mainly focused on two points:
1. What are the mistakes that students commit during the interview?
2. How to improve them?

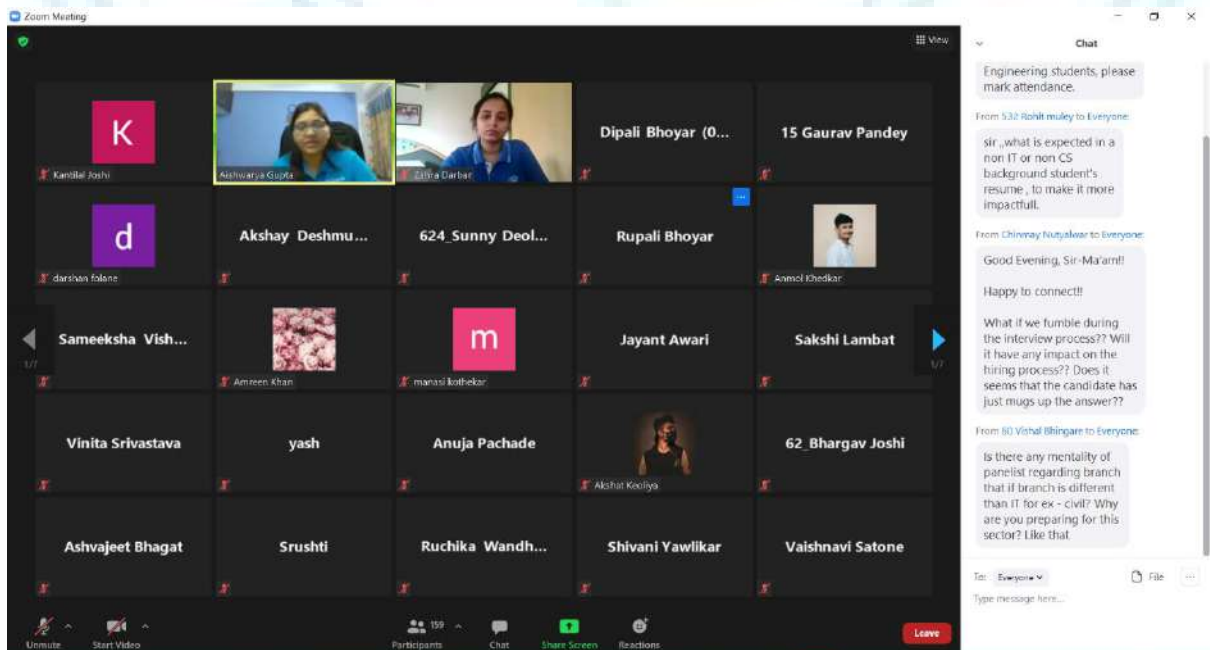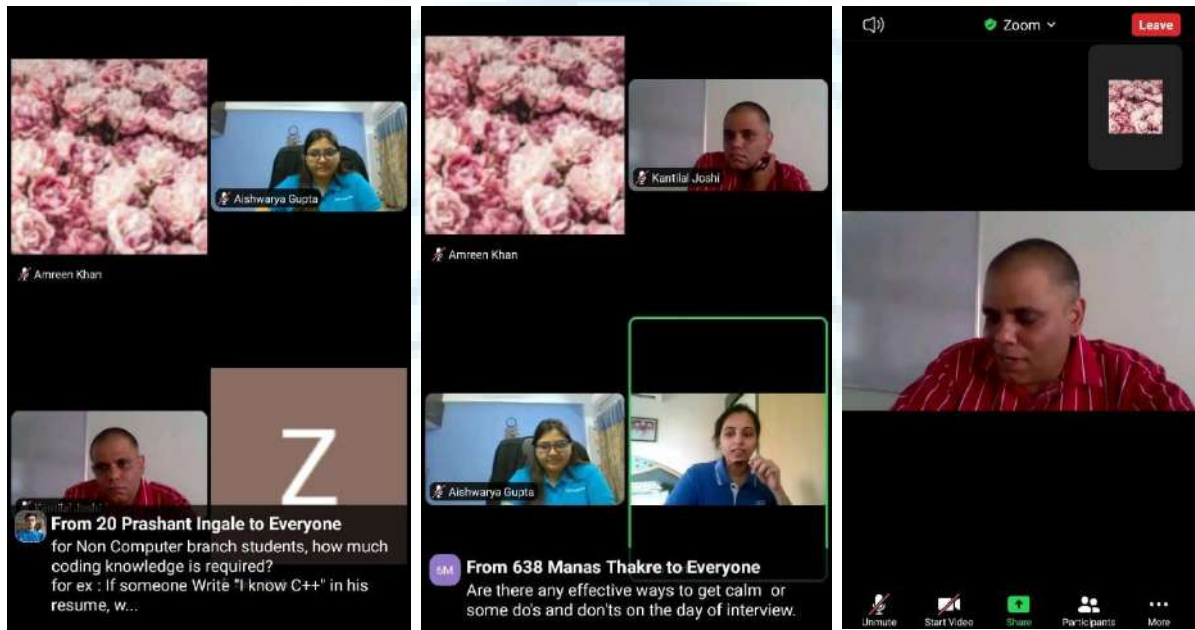The 6 common mistakes that were elaborated on were:
1. Introduction - Tell me something about yourself
2. What do you know about the company - About the organization
3. Know your Resume and be proud of the content
4. What's happening around
5. Communication
6. It's all about branding yourself

The platform was then open for students to ask their doubts and queries. All the questions were answered precisely. The session ended with a vote of thanks by Dean, Training and Placement Cell. It was successful and informative webinar.
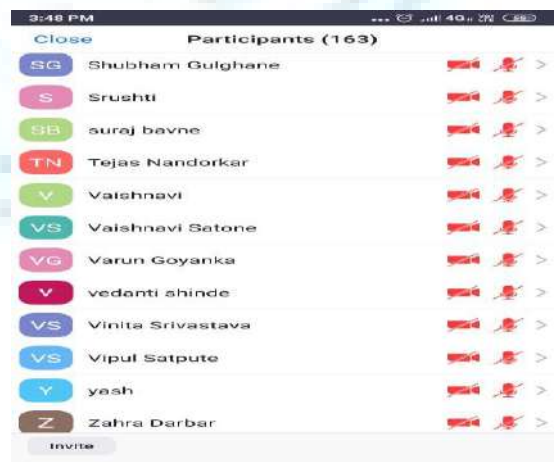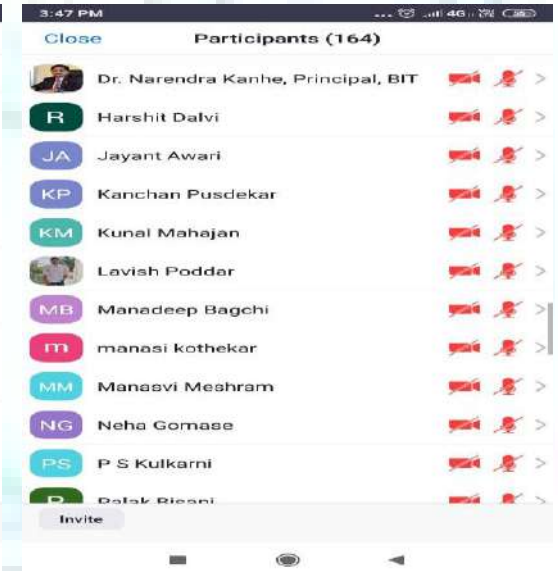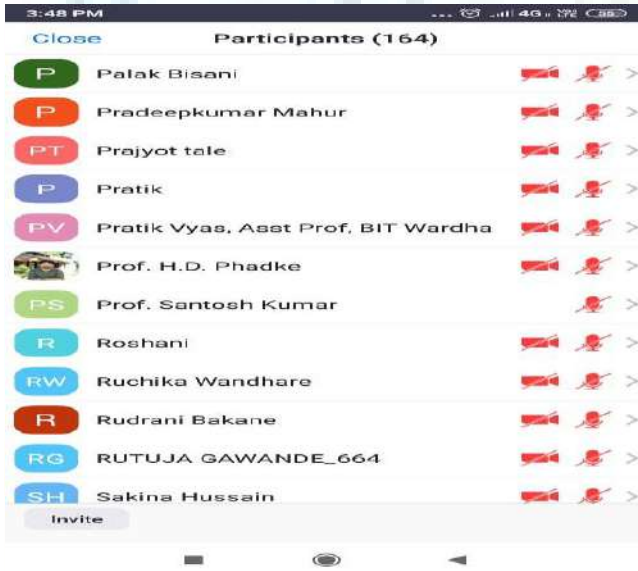
Takeaway from the Webinar:

It's really necessary to know about oneself and be proud of it, be up to date regarding the surroundings and confidently attempt the interview process.
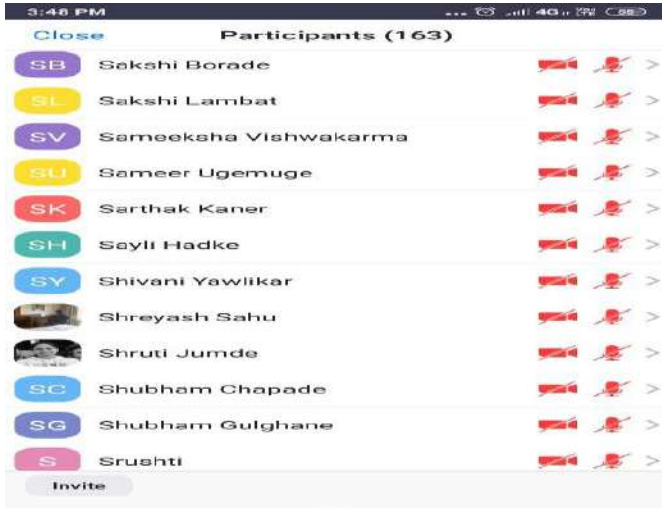
Glimpses:

Attendees:

SB	Sakshi Borade	
SL	Sakshi Lambat	
SV	Sameeksha Vishwakarma	
SU	Sameer Ugemuge	
SK	Sarthak Kaner	
SH	Sayli Hadke	
SY	Shivani Yawlikar	
	Shreyash Sahu	
	Shruti Jumde	
SC	Shubham Chapade	
SG	Shubham Gulghane	
S	Srushti	

Invite

TnP Cell,
BIT, Wardha.

Date: 27-08-22

Report

1. Program Name: *CodeChef MOU*

2. Program Type: *Indicative Beginners DSA-Focussed Program*

3. From and to date : *7th April 2022 to 5th July 2022 (10 week)*

4. Date of Completion: *5th July 2022*

5. Platform : CodeChef

6. Program Duration: 10 week

7. Total No of Beneficiary:
   Students: 201
   Batch: 2022, *2023 & 2024*

8. Event Coordinators:

   Student: Prajwal M. Bhasme

   Faculty: Prof. A. K. Khan, Dr. K. Joshi

Program Description:

On April 5, 2022, The Department of Computer Engineering, Bajaj Institute of Technology, Wardha, collaborated with the CodeChef platform for Batch 2022, 2023 & 2024. Now, for students CodeChef 1st of all scheduled an Orientation session for Students on 5th April at 4 pm, With Insights into the Learning Program, a Walkthrough of the Platform, Live Problem Solving & Doubt Clearing.

The Program started with week 1 and ended with week 10 with the following Topics :

Week 1 : Basics of Programming, Time Complexity

Week 2 : Arrays and Strings I

Week 3 : Arrays and Strings II

Week 4 : Sorting I

Week 5 : Sorting II

Week 6 : Binary Search

Week 7 : Stacks, Queues

Week 8 : BSTs, STLs - I

Week 9 : BSTs, STLs - II

Week 10 : Greedy Algorithms

The difficulty of the program moved from low to high for the practice problem and the assignment. Each week contains Five practice problem questions and One assignment question. For a better understanding of each problem has their problem solution available in CodeChef platform. This program enhances the programming skills of the students at the end of the 10th week, Students have good knowledge about the competitive questions and become more familiar with their programming skills.

The final learning outcome from this program enhances coding skills and understanding of problem statement.
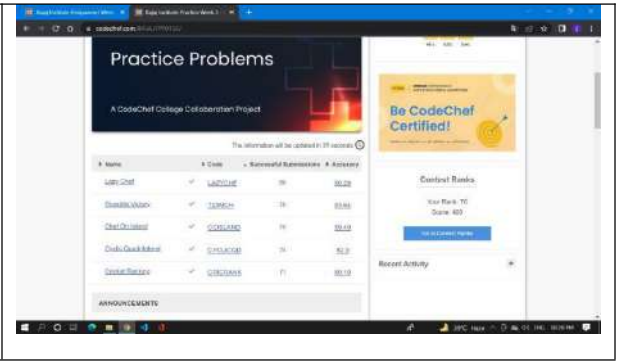
Takeaway from the Program:

- From Week 1 Basics of Programming, Time Complexity
- From Week 2 Arrays and Strings I
- From Week 3 Arrays and Strings II
- From Week 4 Sorting I
- From Week 5 Sorting II
- From Week 6 Binary Search
- From Week 7 Stacks, Queues
- From Week 8 BSTs, STLs - I
- From Week 9 BSTs, STLs - II
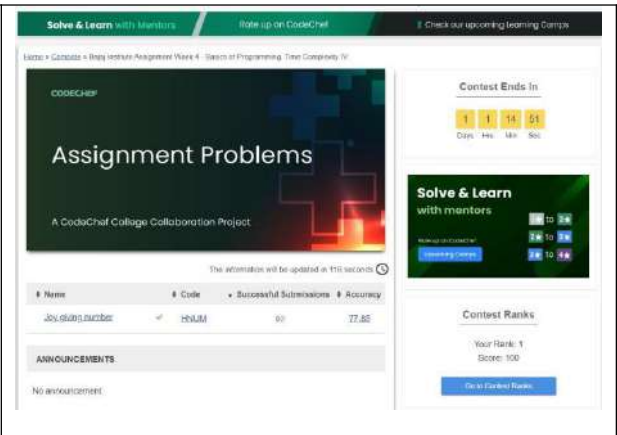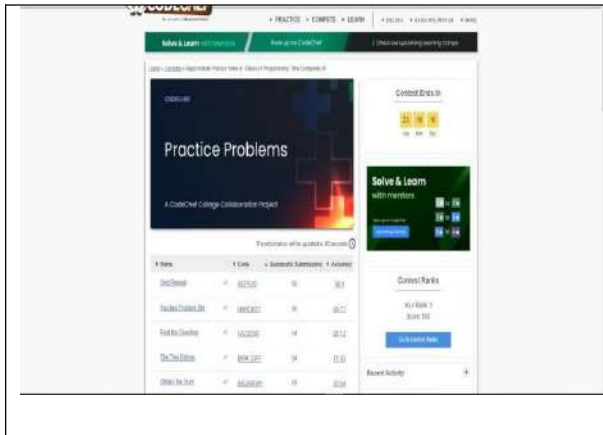- From Week 10 Greedy Algorithms

Session Glimpses:
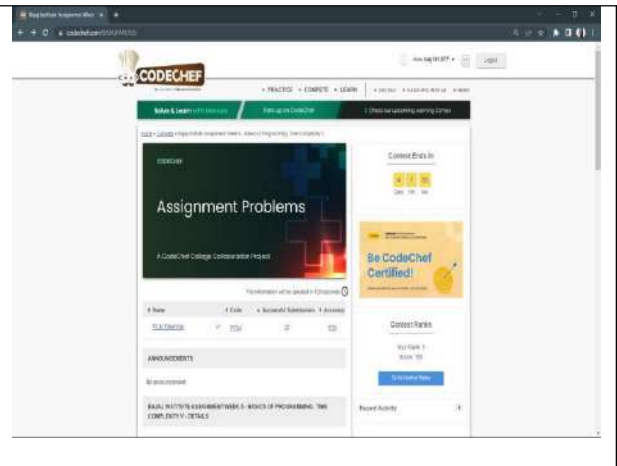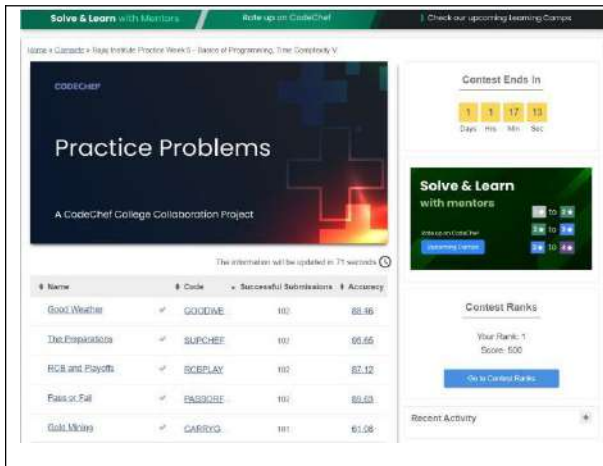
Week 2
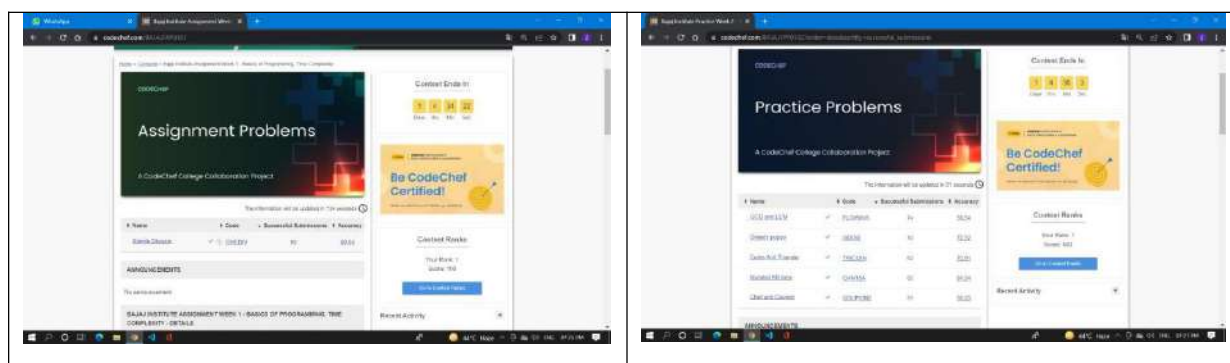
Week 3

Week 4

Week 5

Week 6
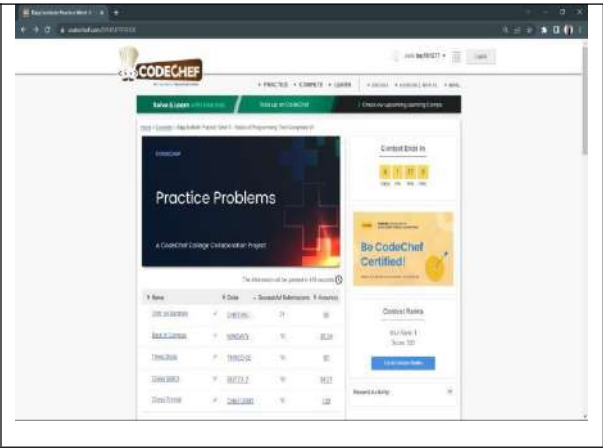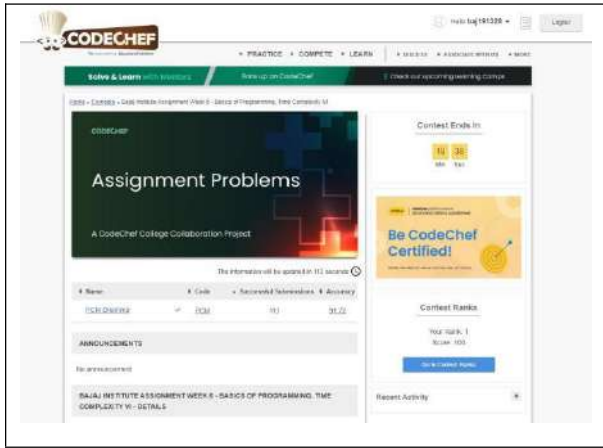
Week 7
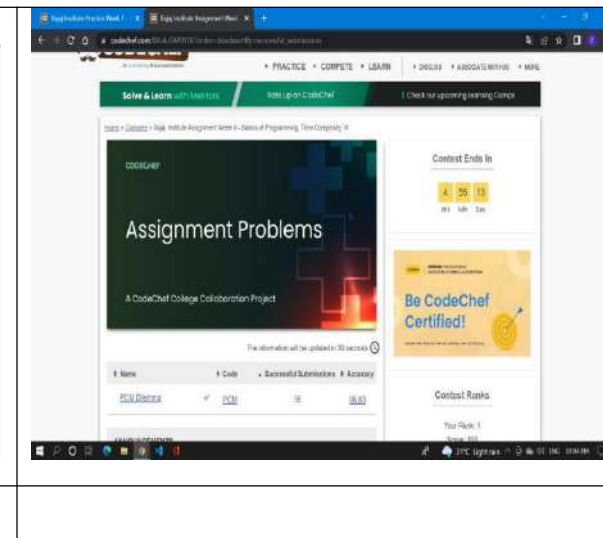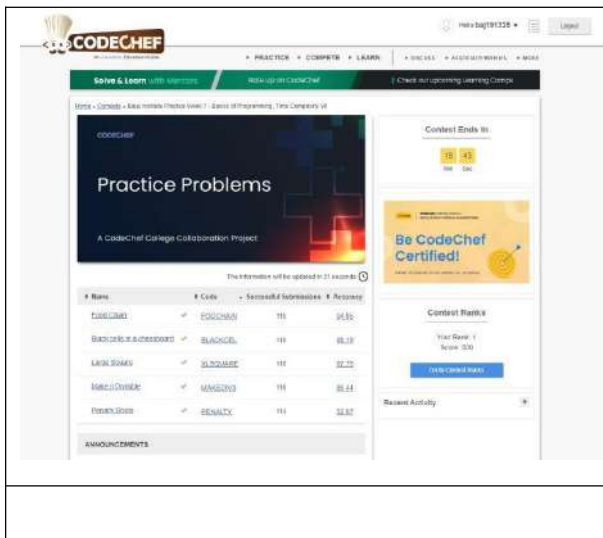
Week 8
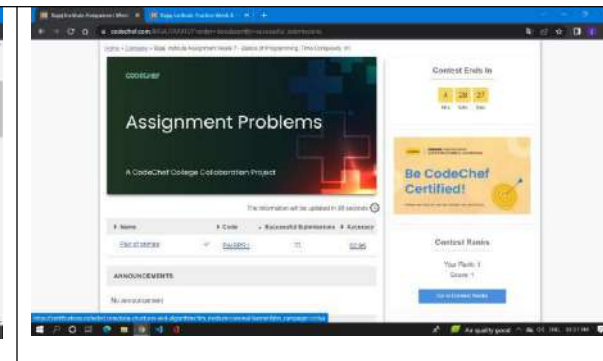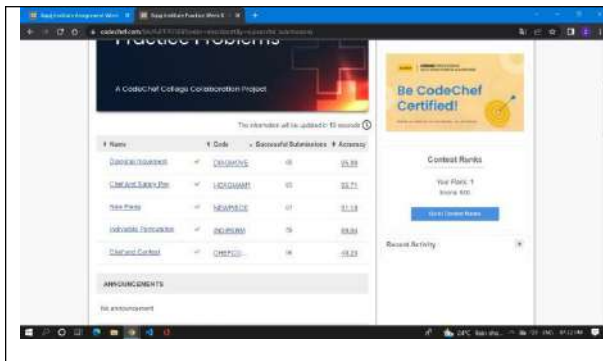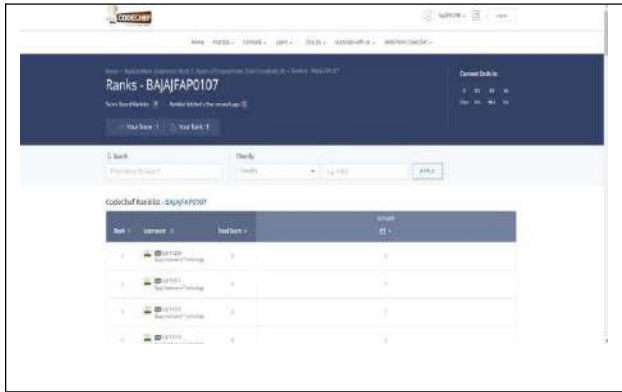
Week 9

Week 10

Resource:

https://www.codechef.com/

https://www.youtube.com/c/CodeChef1/featured
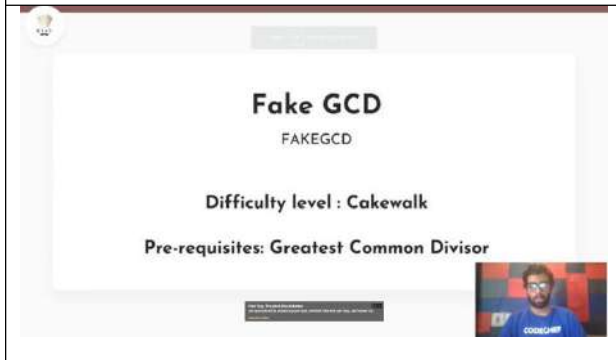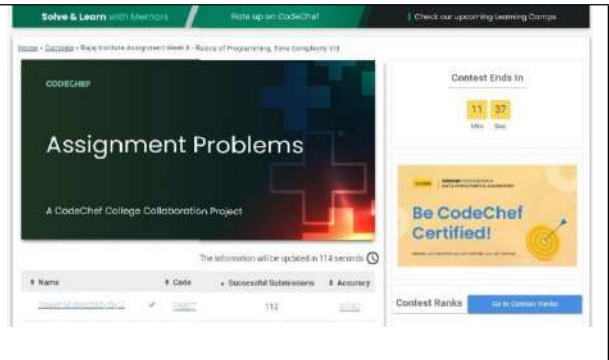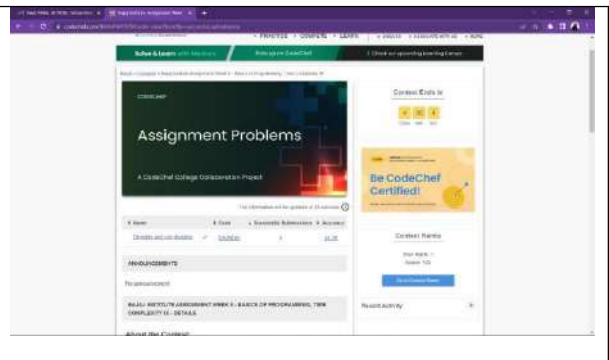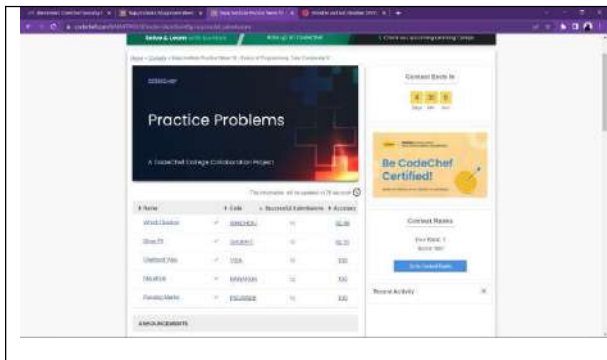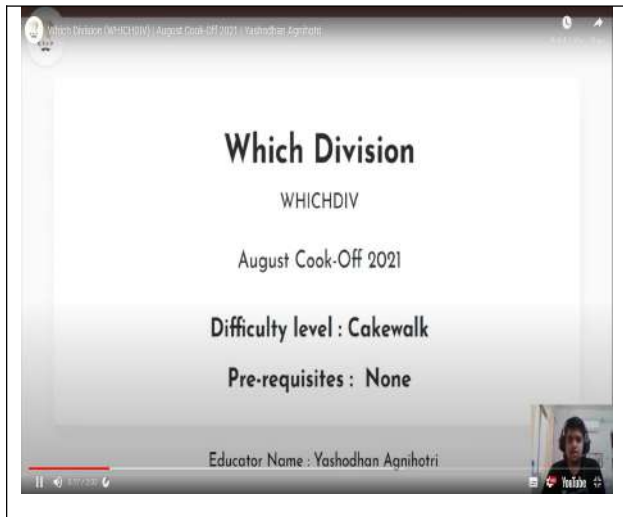
Feedback: It was an amazing experience and enhanced coding skill.

TnP Cell, Comp.Engg,
BIT, Wardha.

Report
on

"GATE-Classes in Mechanical Engineering Department"

Days: Monday, Wednesday, Friday.

Time: 4: 30 p.m. onwards.

Mode: Offline

Department of Mechanical Engineering has started conducting GATE classes by including its classes in a regular timetable (three classes per week). The classes are conducted by Dr. Nikhil Sohoni. At the start of this program, a total of 30 students have shown interest. Total 20hrs of teaching for GATE has been conducted in the current semester. We have targeted four subjects for teaching in an alternate week sense; the subjects are the theory of machines, thermodynamics, fluid machinery and fluid mechanics (along with pre-requisite mathematics). Following are the topics covered in the respective aforementioned subjects:

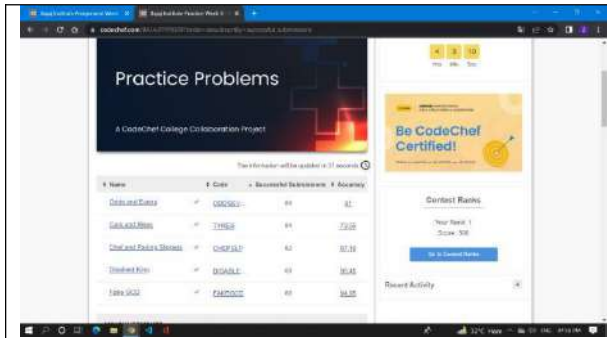**Theory of machines:** Machines and mechanisms, kinematic Links, kinematic Pair, types of motions (constrained, Incompletely constrained and successfully constrained), also according to the type of contact, relative motion and type of closure, Degrees of freedom.

Thermodynamics: System, surrounding, boundary, Properties as point function and exact differential, reversible and irreversible process, closed system, open system. Energy Interactions: Work transfer -- as boundary phenomenon, path function and an inexact differential. PDV - Work transfer for various reversible processes like constant pressure, constant volume and so on. Slopes of isothermal and adiabatic process in

the p-v diagram and its comparison. Various processes in the P-V diagram. Heat transfer, specific heats, 1st law of thermodynamics for the cycle, and its consequences: 1st law of thermodynamics for process, internal energy as a property.

Fluid Machinery: Impact of jets for flat plate, inclined plate and curved plates; all cases for stationary and moving with velocity. Series of plate, efficiency, and concept of radial flow turbines

Essential Mathematics for Fluid Mechanics: Total and partial derivative, introduction to multivariable calculus, dot and cross product intuition, gradient, divergence and curl, Taylor series approximation. These topics are covered very intuitively for better visualization of physical phenomena.

Fluid Mechanics (Kinematics and Dynamics of Fluid Flow): Types of flow: steady, unsteady, uniform and non-uniform. Streamlines, Streak lines, Path lines. Concept of local and convective acceleration, total acceleration with rigorous mathematical treatment. Conservation of mass, with all special cases like flow being compressible, incompressible, steady and unsteady. Bernoulli's Equation with derivation from Euler's equation and its equivalence to the first law of thermodynamics (open system). Introduction to Boundary Layer Theory.

Date: 01/09/2022

STUDENT DEVELOPMENT PROGRAM
GRADUATE APTITUDE TEST IN ENGINEERING (GATE) CLUB
SESSION 2021-22

STUDENTS' INTERNAL PERFORMANCE

The overall performance of the students enrolled in the GATE Club during the session 2021-22 is as follows:

Sr. No.	SEMESTER	NAME OF STUDENT	Roll. No.	INTERNAL PERFORMANCE (% OF MARKS SCORED)	REMARK, IF ANY
1.	5th	Rishikesh V. Shahade	523	40	-
2.	5th	Parth Dubey	415	80	-
3.	8th	Aditi Mishra	840	100	-
4.	7th	Raj Mohije	713	20	-
5.	8th	Shreyash Sahu	761	90	-
6.	7th	Ashlesha	760	60	- .
7.	7th	Rahul Thakre	722	30	-
8.	7th	Darpan Satija	715	100	-
9.	4th	Rushikesh Deotare	440	70	-
10.	7th	Shiv Chafle	764	80	-
12.	5th	Rushab Dhole	425	70	-
13.	4th	Karan Dhewle	408	20	-
14.	5th	Pawan Timande	517	90	-
15.	5th	Yash walmik mankar	536	90	-
16.	5th	Manish Lakhe	511	100	-

AVERAGE % OF MARKS: 70

Dr. Nikhil Sohoni
Assistant Professor
GATE Club Coordinator

BAJAJ INSTITUTE OF TECHNOLOGY, PIPRI, WARDHA

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 20/08/2022

DETAILS OF STUDENTS ATTEMPTED GATE 2022

Following students of Mechanical Engineering appeared for the GATE 2022 during the academic session 2021-22. Their details are as follows:

Sr. No.	GATE PAPER	NAME OF STUDENT	PRN	GATE REGISTRATION NUMBER	MARKS SCORED OUT OF 100
1.	Aerospace Engineering (AE)	Aditi Mishra	4046492018116120029	AE22S82063030	18.33
2.	Mechanical Engineering (AE)	Aditi Mishra	4046492018116120029	ME22S72063017	9.97
2.	Mechanical Engineering (ME)	Amit Bhuse	4046492018116120000	ME22S72059155	8.69
3.	Mechanical Engineering (ME)	Ankit Mahadole	4046492018116210026	ME22S72060251	9.97
4.	Mechanical Engineering (ME)	Dhiraj Yadav	1946491612021	ME22S72059126	5.16
5.	Energy Sciences (XE)	Shiv Chafle	2046491612005	XE22S62057164	12.33
6.	Mechanical Engineering (ME)	Tejas Patil	4046492018116210036	ME22S82059041	-5.02

AVERAGE MARKS OF STUDENTS: 8.49

Dr. Nikhil Sohoni
GATE Club Coordinator

Forwarded to IQAC,

HoD

HEAD
Department of Mechanical Engineering
Bajaj Institute of Technology, WARDHA