1-2-2.

Terna Public Charitable Trust's

Terna Engineering College,
Nerul, Navi-Mumbai 400706

1.2.2./1.2.3- Add on courses/ Certificate courses

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TERNA ENGINEERING COLLEGE

(Plot No. 12, Sector 22, Opposite Railway Station, Nerul (W), Navi Mumbai- 400706. Ph. +91 22 61115444, Fax No.+91 22 61115400
Web : https://ternaengg.ac.in/

Report on

workshop on Ethical Hacking

Enrolled Students

T.E. & B.E. EXTC Engineering

Academic Year:

2023-2024

Organized by

IETE committee of department EXTC Engineering, TEC In Association with TeleNetworks India Ltd. Vashi

CONTENT

1. Meeting, Approval and MOU

1.1 Meeting

SUMMARY OF MINUTES OF THE MEETING

02.02.2024

With reference to meeting held and Minutes of meeting re orded the summary of minutes of meeting is as below.

The Department of EXTC Engineering has planned to conduct Value added courses to provide knowledge to students regarding for vital subjects of our discipline. The following faculty members were present in the meeting conducted on 2nd Feb, 2024

The HOD and the staff members concluded the following Value Added Courses for the academic year 2023-2024

SL. No.	Name of Value Added Course	Semester	Hours	Staff Incharge
1.	Ethical Hacking	VI and VIII	30	Rupali Shekokar

In the meeting it was decided to prepare the schedule of the program by the staff incharge within a week from the date of meeting.

1) Dr. Jyothi Digge (HOD)
2) Rupali Shekokar (Course Coordinator)
3) IETE committee members

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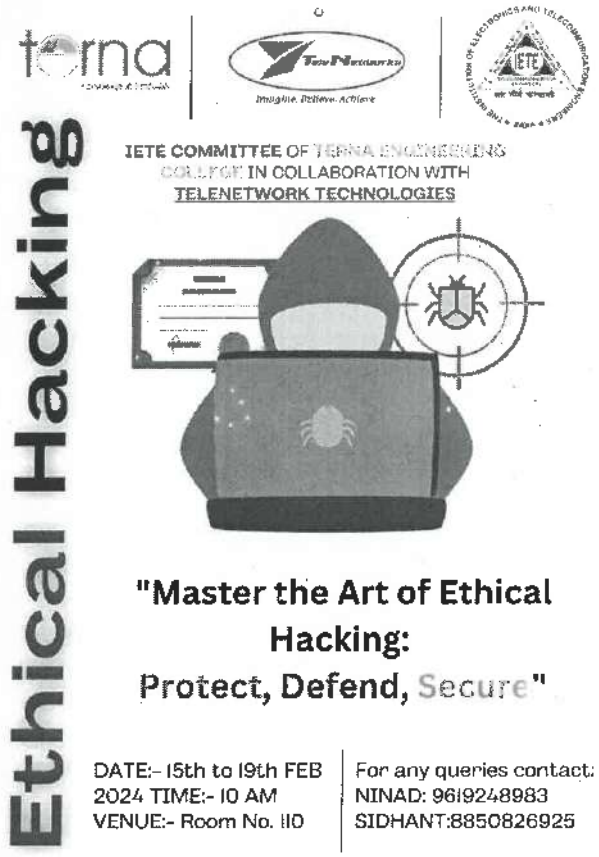
Message to students



Dr. Jyothi Digge
Dept. of EXTC Engg.

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1.2 Approval

To,
The Principal,
Terna Engineering College,
Sector 22,
Nerul, Navi Mumbai.

Subject: Regarding permission for upcoming activity under IETE

Respected Sir,

This is to request you to allow us to conduct upcoming activities under IETE.

Activities are ;

Date	Activity Name	Speaker/Guest
1 February 2024	**IETE Day Celebration**	Dr. Ragha L.K
12 February 2024	**Seminar on "What is new in cyber security?"**	Dr. Shravani Shahapure PhD (Cryptography)
15 February 2024	Five day workshop on "Network associate"	Mr. Yogesh Hudale Telenetworks,Vashi

Thank you.

Yours Sincerely,

Rupali Shekokar
IETE Coordinator

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Regd. No. E-91,(Osmanabad) Dated 30-09-80 Regd. No. E-91,(Osmanabad)

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Fax No.+91 22 61115400 Web :www.terna.org, e- mail : principal@terna.org

Department of EXTC Engineering ACADEMIC

YEAR 2023 – 2024

1. Title of the course : **workshop on Ethical Hacking**
2. Objective of the course :
   1. Hands-on experience on KALI Linux
   2. To learn fundamentals of ethical hacking
   3. Cybersecurity concepts and the importance of digital protection
   4. Hands-on sessions on encryption and data masking
   5. Simulate and defended against a cyber attack using tools like KALI Linux
   6. Gaps in the existing technologies and space for upcoming technology.
   7. Career guidance for the domains Telecom/Networking/Cloud/Cyber Security.
3. Prerequisite : Basics of Wireless Network
4. Beneficiary : Students and Faculties
5. Date & Duration of the course:15,Feb2024 to 19,Feb 2024
6. No of hours required : 30 Hours
7. Internal Resources : computer lab
8. Internal Assessment : Feedback
9. Course Registration fees : free of cost for students
10. Contents of the course : Enclosed
11. Credits / Certification : Those who have 75% attendance are eligible for certification.
12. Venue : 110 class room and 216 Lab

Course Coordinator

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HOD

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Department of Electronics and Telecommunication Engineering

ACADEMIC YEAR 2023 – 2024

CIRCULAR

All the students of semester VI & VIII and faculties of department of EXTC Engineering Terna Engineering College, Nerul, Navi Mumbai, are hereby informed to enroll their names for Workshop on **"Ethical Hacking "**.

COURSE FEATURES:

Course Duration	: 30 Hours
Beneficiary	: Students & Faculties
Certificate	: Yes
Location	: Room no. 110,216
Schedule	: 15,Feb2024 to 19,Feb 2024

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HOD
Dept. of EXTC Engg

TERNA ENGINEERING COLLEGE ★ TERNA ★ T.P.C.T.'S

2. About Institute

Terna Public Charitable Trust's Terna Engineering College is one of the well-known and premium technical institution, with 'A' Grade from Government of Maharashtra having ISO 9001 Quality Management System and is among the top Colleges in Mumbai. It is located at Nerul, Navi Mumbai on a beautiful 3 acre campus. The institute is affiliated to University of Mumbai, approved by AICTE and accredited by National Board of Accreditation (NBA). This institution offers 7 UG, 4 PG and 3 PhD courses. Highest quality education is catered with curriculum extension by means of exceptional offerings like Engineering Products and Innovation Center (EPIC), Remote centre of IIT Bombay which facilitates student / faculty members to interact with IIT professors through video conferencing, Industry Institute Interaction Cell, Electronics club (collaboration with 25 local electronics SMEs), e-Yantra Embedded Systems and Robotics Lab, Apple lab, Texas Instruments Lab. We are a diverse, talented community united by passion for learning and quest for more. Terna motivates students to make a difference in our campus, in the state, country and around the world.

2.1 About Department

The Department of EXTC Engineering was established in the year 1991.. The Mission of Department To catalyze and inspire young minds for innovative thinking and creativity and to acquire knowledge and professional ethics essential for facing global challenges in rapidly changing technologies to serve the society and industry effectively.. Key Features:

- Well Equipped Laboratories – Postgraduate Laboratory Microprocessor Laboratory , Digital Signal processing Laboratory, Electronics Devices Circuit Laboratory, Communication Laboratories,Simulation Laboratory,Fiber Optic Communication Laboratory
- Faculties with Experience in Research in Antenna Fiber Optic communication, Embedded Communication Microwave Engineering VLSI technology in Academics
- Learning Experience Through Active Consultancy Projects
- Industrial Visits-for TE EXTC at MTNL Pawai
- Internship for Students (With & Without Stipend)
- Institute of Electronics and Telecommunication Engineering Chapter
- Expert Lectures by Industry and Academics Experts
- NPTEL Courses
- Skill Based, Project Based Learning, Interactive and Interest Based Core Domain Learning
- Patents

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3. About Course

This course covers the learning of fundamentals of ethical hacking, Cyber security concepts and the importance of digital protection Hands-on sessions on encryption and data masking us

software based on Kali Linux with its different features. It will also helpful for student to learn Advanced topics Network Security and Cyber security. This course is beyond their regular syllabus. This will be beneficial to students for their project work and ready for industry. Duration of course will be 30 hours.

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4. About Trainer

There Instructors are industry experts who have vast experience and knowledge in Telecom, Networking, Cyber Security, Cloud and Data Center domains and they have conducted corporate Trainings in different Organizations and learning Institutions across India on the said domains.

Bio data of trainer:

Yogesh Hudale

Director at TeleNetworks Technologies Private

View Contact Info for Free

Profile Privacy

Yogesh Hudale Email & Phone number

Engage via Email

Engage via Phone

Engage via Mobile

Yogesh Hudale Current Workplace

Company

Address 202 Vashi Infotech Park Plot No 16, Mumbai, Maharashtra, 400703, India

Phone Number +91 8652780973

Number of Employees 74

Industry

Software & Technical C... | Software

Yogesh Hudale Work Experience Summary

3

Number of companies worked for

4

Average tenure in a company (years)

3

Number of job titles

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Yogesh Hudale

Founder and Chief Mentor at TeleNetworks Technologies

[illegible]

Summary

Yogesh has professionally worked for the last five years with an emphasis on coaching for candidates in Telecommunication, Networking and Cyber Security. Yogesh also coaches CEO's, Senior Executives and Professionals who face significant challenges navigating fast changing Technology. Yogesh's practice includes individual clients in several countries and varied professions. He is also a frequent speaker about latest technologies and teacher of coaching skills around the country as well as a lead instructor for several technical workshops for the corporate. He partners with organizations in the design and roll-outs of networks. He also leads a team at TeleNetworks Technologies which is doing research in Software Defined Networking and 5G.

His 5 years of professional practice enable him to be a coach who watches and transforms lives and careers, and a Mentor who actually transfers learning into the participants through proven methods and practices. A deep insight into people matters has resulted in high repeat demand for his personality profiling, coaching and skill building training services in the areas of technological intelligence, performance management, emotional intelligence and behavioral skills.

He has conducted over 25 workshops and done over 500 hours of coaching with organizational leaders. He is accredited in the stage of The Leadership in faculty training program affiliated to Mumbai University, playing the vital role of lead instructor in many IIT's TECHFESTs and contributing into guest address in many reputed organizations.

Experience

Director at TeleNetworks Technologies
April 2016 - Present

Service Delivery Manager at TERRA Enterprises
August 2015 - April 2016 [illegible]

-Responsible to establish and refine service delivery processes for complex telecom projects.
-Established uniform processes and procedures to ensure that customers receive the same experience from the company.
-Reduced the costs of projects significantly without affecting the client experience and delivery time.
-Periodically chaired the monitoring Service Level Agreements with the customers of Sales and the maintenance line manager for all Terra clients.

5. Schedule and Syllabus

Day	Date	Activity
Day 1	15.02.2024 10am to 4pm	1. Introduction to fundamentals of ethical hacking. 2. Coverage of basic concepts: ethical vs. malicious hacking, legal and ethical considerations, and the role of ethical hackers. 3. Introduction to essential tools and techniques: network scanning, vulnerability assessment, and penetration testing.
Day 2	16.02.2024 10am to 4pm	1. Exploration of network security assessment techniques to identify vulnerabilities. 2. Discussion of strategies for mapping network topologies and identifying critical assets. 3. Hands-on exercises in network scanning and vulnerability mapping in a simulated environment.
Day 3	17.02.2024 10am to 4pm	1. Introduction to key cybersecurity concepts and the importance of digital protection. 2. Discussion of recent cyber attacks and common threats, with interactive activities on phishing and encryption. 3. Demonstrations of cybersecurity software, insights from an industry expert, and opportunities for Q&A on career opportunities and future trends.
Day 4	18.02.2024 10am to 4pm	1. Learning advanced methods for detecting cyber threats using tools like KALI Linux and techniques for responding to sophisticated attacks. 2. Coverage of strategies for incident response, management, and data protection laws, with practical exercises on simulating cyber attacks. 3. Hands-on sessions on encryption and data masking, team projects to develop cybersecurity solutions, and presentations on key concepts.
Day 5	19.02.2024 10am to 4pm	1. Review of key concepts and tools covered during the workshop, with a final hands-on challenge to apply knowledge. 2. Teams simulated and defended against a cyber attack using tools like KALI Linux, virtual machines, IP address tracking, proxies, and jump hosts. 3. Participants provided feedback, received certificates of completion, and attended closing remarks emphasizing the importance of cybersecurity skills and continued education.

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6. CO, PO & PSO

After completion of the course the student will be able to analyze and design the structure.

6.1 Program Outcome

PO 1: -Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2: - Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

PO 3: - Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4: - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5: - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6: - The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: - Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8: - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: - Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: - Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12: - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

6.2 Program Specific Outcome

1. Design and implement modern communication systems and networks.
2. To enhance technical competency in image and video processing.

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3. To architect and implement IOT based Networks to solve the real world problems and contribute something to the value based society.

7. PO & PSO Mapping

PO and PSO mapping with **Workshop on Ethical Hacking**

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1				2	2		2				2

PSO1	PSO2	PSO3
2		1

PO and PSO mapping with **Workshop on Ethica` Hacking**

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
0.26				0.52	0.52		0.52				0.52

PSO1	PSO2	PSO3
0.52		0.26

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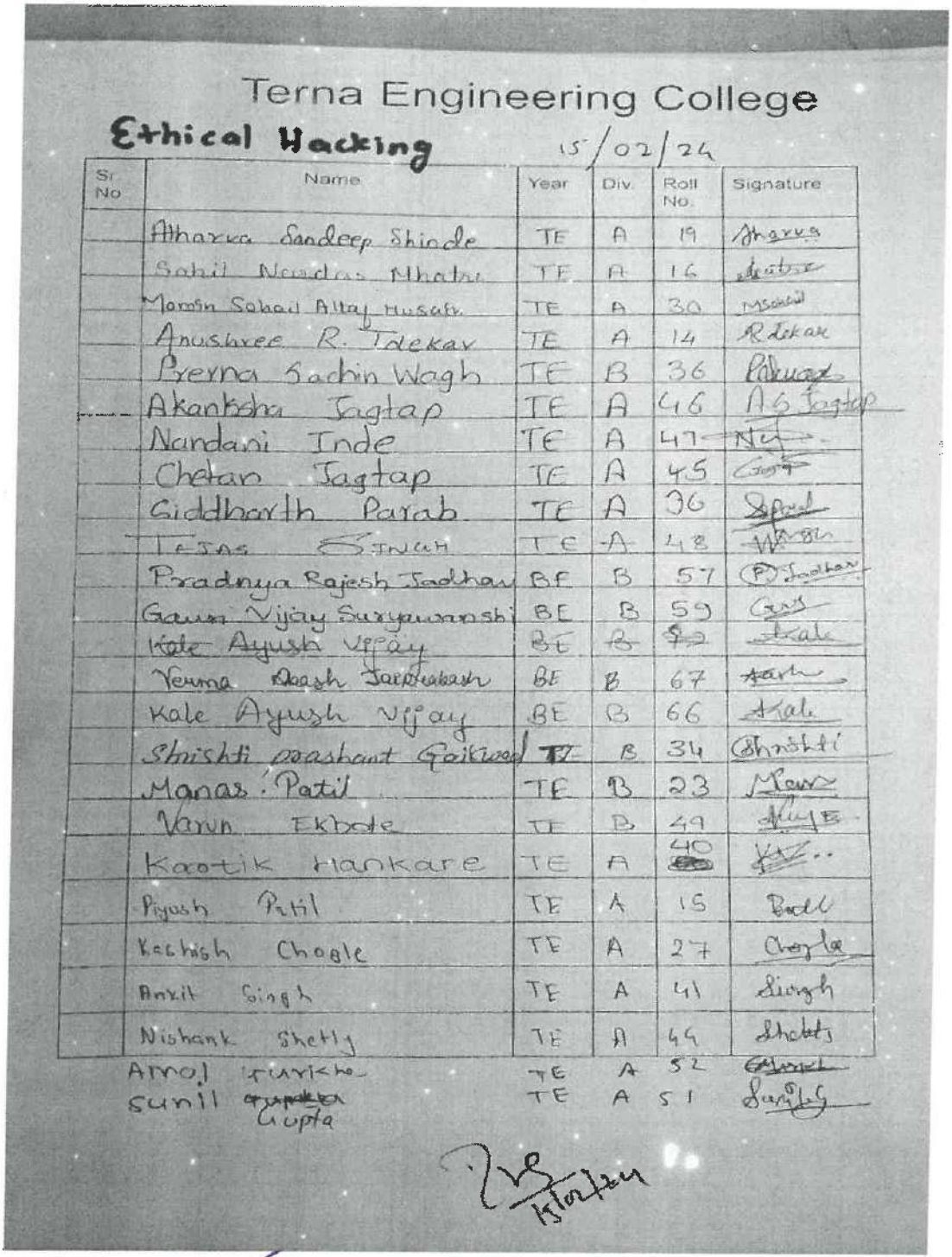
8. List of Students and Attendance



Terna Engineering College

Ethical Hacking 15/02/24

Sr. No	Name	Year	Div.	Roll No.	Signature
	Atharva Sandeep Shinde	TE	A	19	Atharva
	Sahil Nandu Mhatre	TE	A	16	Sahil
	Momin Sohail Altaf Husain	TE	A	30	MSohail
	Anushree R. Tdekar	TE	A	14	R Tdekar
	Prerna Sachin Wagh	TE	B	36	Pwagh
	Akanksha Jagtap	TE	A	46	AS Jagtap
	Nandani Inde	TE	A	47	Ni
	Chetan Jagtap	TE	A	45	Cjag
	Siddharth Parab	TE	A	36	Sparab
	TEJAS SINGH	TE	A	48	Wagh
	Pradnya Rajesh Jadhav	BE	B	57	PJadhav
	Gauri Vijay Suryawanshi	BE	B	59	Gaur
	~~Kale~~ Ayush Vijay	BE	B	~~52~~	Akale
	Verma Akash Jaiprakash	BE	B	67	Akash
	Kale Ayush Vijay	BE	B	66	AKale
	Shrishti prashant Gaikwad	~~TE~~ BE	B	34	Shrishti
	Manas Patil	TE	B	23	MPatil
	Varun Ekbote	TE	B	49	VEkbote
	Kaotik Hankare	TE	A	40	KHankare
	Piyush Patil	TE	A	15	Patil
	Kashish Chogle	TE	A	27	Chogle
	Ankit Singh	TE	A	41	Singh
	Nishank Shetty	TE	A	44	Shetty
	Amol Kurkute	TE	A	52	Akurkute
	Sunil Gupta	TE	A	51	SGupta

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Sr. No.	Name	Year	Div.	Roll No.	Signature
1.	Suchit D. Sapkal	TE	B	29	S. Sapkal
2.	Kundan D. Yadav	TE	B	32	
3.	Ved R. Surwade	TE	B	14	
4.	Ninad R. Gode	TE	B	25	
5.	Karan R. Raul	TE	B	11	
6.	Shlok Shinde	TE	B	19	
7.	Devesh Surnashe	TE	B	15	
8.	Kunal B. Tawate	TE	B	10	
9.	Akshay D. Kirde	TE	B	20	
10.	Omkar Anil Bali	TE	B	17	
11.	Sairaj S. Gaonade	TE	B	27	
12.	Panchal Samruddhi	TE	A	26	
13.	Aparna Naidu	TE	B	31	
14.	Shrishti Prashant Gaikwad	TE	B	34	
15.	Manas Patil	TE	B	23	
16.	Varun Ekbote	TE	B	49	
17.	~~Prad~~				
17.	Pranjal Pande	TE	B	24	
18.	Shreya Ghule	TE	B	06	
19.	Nikhil Kapse	TE	A	39	
20.	Viraj Shinde	TE	A	12	
21.	Dhanshree S. Deshmukh	TE	A	22	
22.	Suraj A Chalak	TE	A	25	
23.	Fnees Aslam Shaikh	TE	B	38	
24.	Mandar Jawalkar	TE	B	28	

15/2/24

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Sr No	Name	Year	Div.	Roll No.	Signature
1	Vivek Ali	BE	B	40	
2	Shiva Bura [redacted]	BE	B	30	
3	Saikiran [redacted]	BE	B	12	
4	Rahul Ankam	TE	B	33	
5	Amar N Yempalla	FE	A	65	
6	Mohsin Ali Khan	FE	A	41	
7	Rohit K. Bhujat	BE	A	25	
8	Jagruti Malick	BE	B	05	
9	Pranit Bhoir	BE	B	52	
10	Charu Gupta	BE	A	41	

13/2/24

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Sr. no	Name Present/Absent	year	div	roll no	15/2/24	16/2/24	17/2/24	18/2/24	19/2/24
1	Atharva Sandeep Shind	TE	A	19	P	P	P	P	P
2	Sahil Nardas Mhatre	TE	A	16	P	P	P	P	P
3	Momin Sohail Altaf Husain	TE	A	30	P	P	P	P	P
4	Anushree R. Idekar	TE	A	14	P	A	P	P	P
5	Prerna Sachin Wagh	TE	B	36	P	P	P	A	P
6	Akanksha Jagtap	TE	A	46	P	P	P	P	P
7	Nandani Inde	TE	A	47	P	P	P	P	P
8	Chetan Jagtap	TE	A	45	P	P	P	P	P
9	Siddharth Parab	TE	A	36	P	P	P	P	P
10	Pradnya Rajesh Jadhav	BE	B	57	P	P	P	P	P
11	Gauri Vijay Suryawanshi	BE	B	59	P	P	P	P	P
12	Kale Ayush Vijay	BE	B	66	P	P	P	P	P
13	Shrishit Gaikwad	TE	B	34	P	P	P	P	P
14	Manas Patil	TE	B	23	P	P	P	P	P
15	Varun Ekbote	TE	A	49	P	P	P	P	P
16	Kartik Hankare	TE	A	40	P	P	P	P	P
17	Piyush Patil	TE	A	15	P	P	P	P	P
18	Kashish Chogle	TE	A	27	P	P	P	P	P
19	Ankit Singh	TE	A	41	P	P	P	P	P
20	Nishank Shetty	TE	A	44	P	P	P	P	P
21	Amol Gurkhe	TE	A	52	P	P	P	P	P
22	Sunil Gupta	TE	A	51	P	P	P	P	P
23	Suchit Sapkal	TE	B	29	P	P	P	P	P
24	Kundan Yadav	TE	B	32	P	A	P	P	P
25	Ved Surwade	TE	B	14	P	P	P	P	P
26	Ninad Gode	TE	B	25	P	P	P	P	P

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27	Karan Raul	TE	B	11	P	P	P	P	P
28	Shlok Shinde	TE	B	19	P	P	P	P	P
29	Devesh Surnashe	TE	B	15	P	P	P	P	P
30	Kunal Tawade	TE	B	10	P	P	P	P	P
31	Akshya Kirde	TE	B	20	P	P	P	P	P
32	Omkar Bali	TE	B	17	P	P	P	P	P
33	Sairaj Gawade	TE	B	27	P	P	P	P	P
34	Samruddhi Panchal	TE	A	26	P	P	P	P	P
35	Aprana Naidu	TE	B	49	P	P	P	A	P
36	Pranjal Pande	TE	B	24	P	P	P	P	P
37	Shreya Ghule	TE	B	06	P	P	P	P	P
38	Nikhil Kaspse	TE	A	39	P	P	P	P	P
39	Viraj Shinde	TE	A	12	P	P	P	P	P
40	Dhanshree Deshmukh	TE	A	22	P	P	P	P	P
41	Suhas Chalk	TE	A	25	P	P	P	P	P
42	Anees Shaikh	TE	B	38	P	P	P	P	P
43	Madar Jawalekar	TE	B	28	P	P	P	P	P
44	Vivek Ali	BE	B	30	P	P	P	P	P
45	Shiv Bura	BE	B	12	P	P	P	P	P
46	Saikiran	BE	B	33	P	P	P	P	P
47	Rhauk Ankam	TE	B	65	P	P	P	P	P
48	Amar Yempalle	FE	A	41	P	P	P	P	P
49	Mohsim Khan	FE	A	25	P	P	P	A	P
50	Rohit Bhagat	BE	B	05	P	P	P	P	P
51	Pranit Bhoir	BE	B	52	P	P	P	P	P
52	Charu Gupta	BE	B	41	P	P	P	P	P

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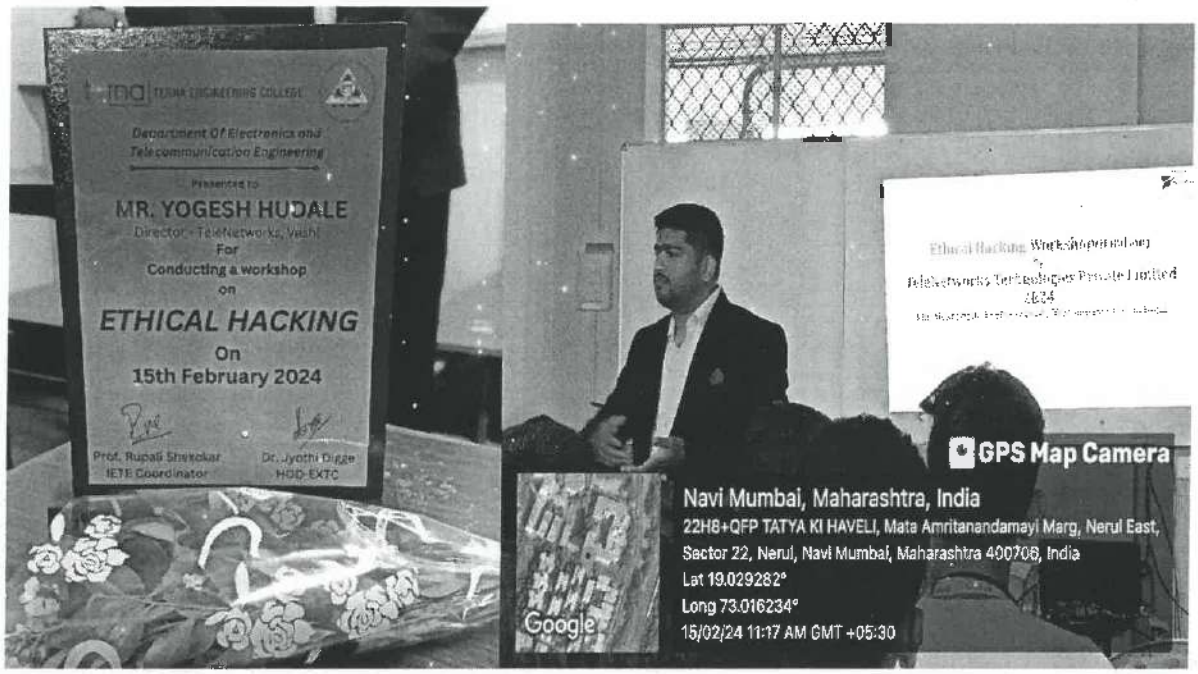
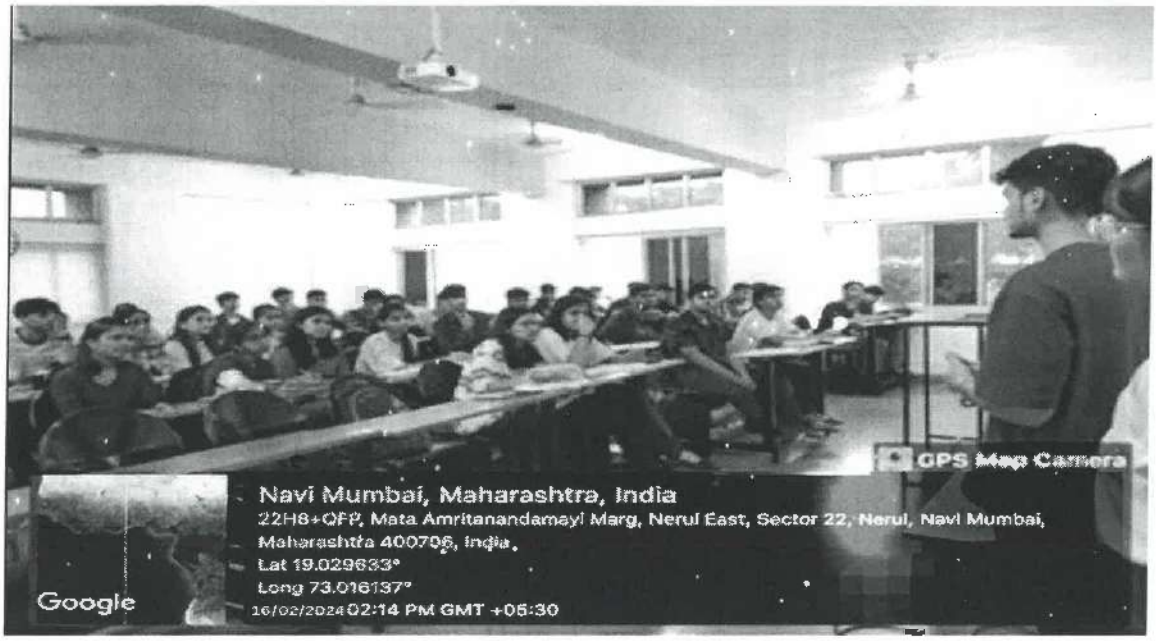
9. Screenshot





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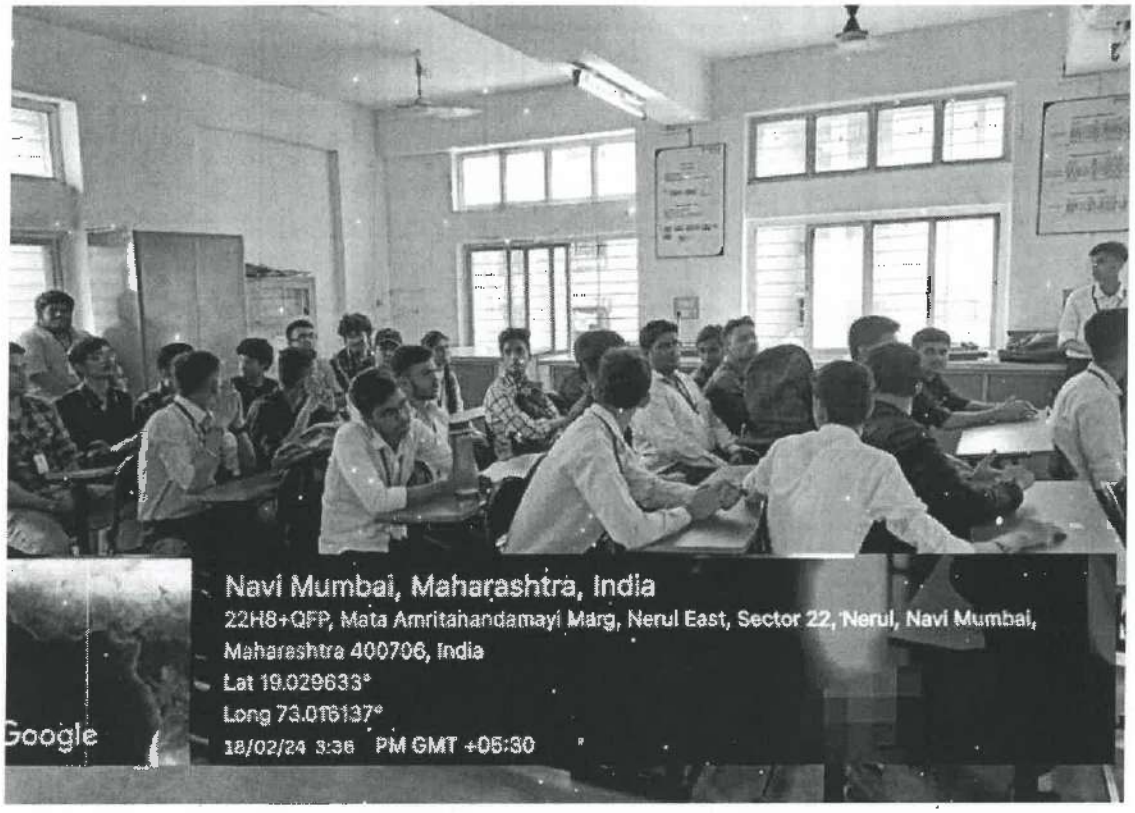

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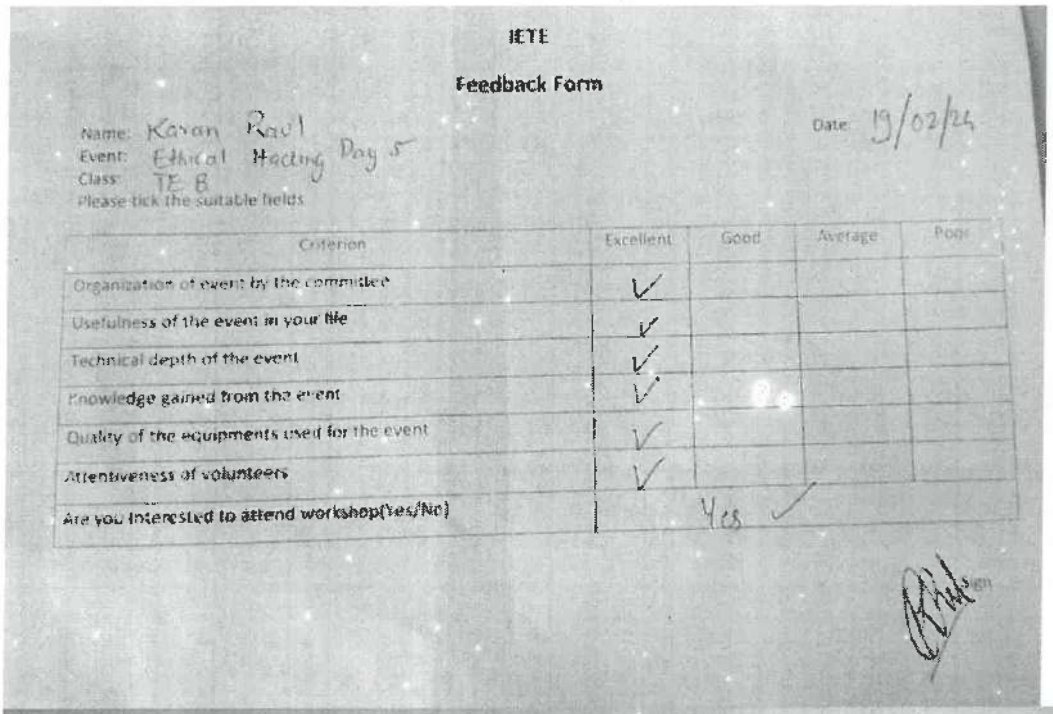
9. Feedback , Analysis and Evaluation



IETE

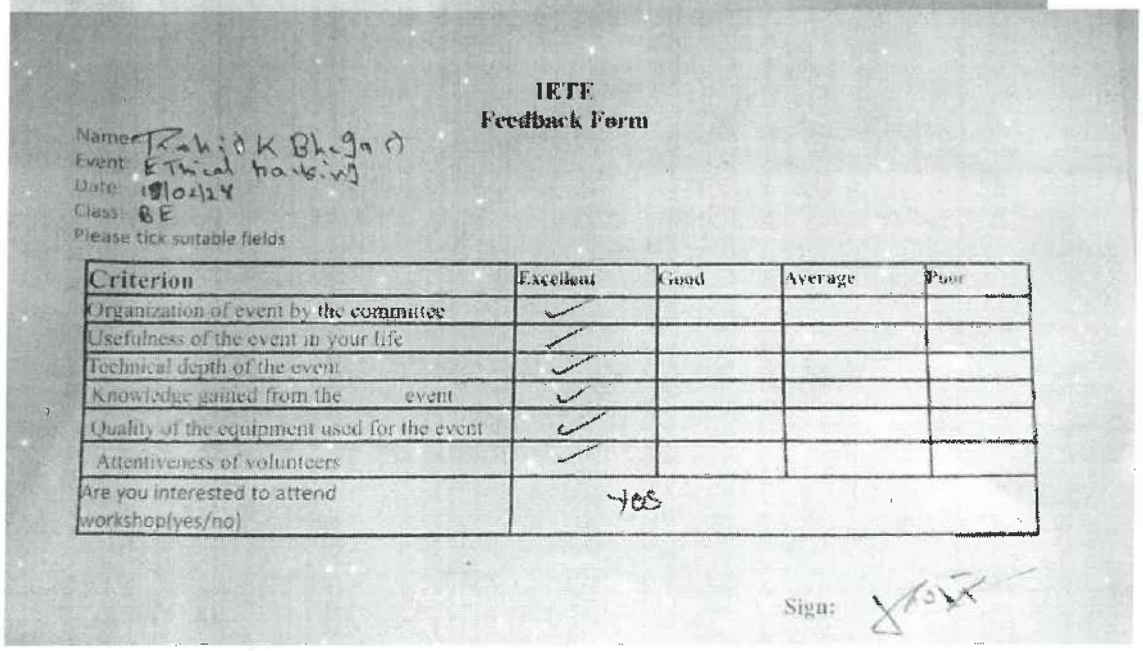
Feedback Form

Name: Karan Raul
Event: Ethical Hacking Day 5
Class: TE B
Please tick the suitable fields

Date: 19/02/24

Criterion	Excellent	Good	Average	Poor
Organization of event by the committee	✓			
Usefulness of the event in your life	✓			
Technical depth of the event	✓			
Knowledge gained from the event	✓			
Quality of the equipments used for the event	✓			
Attentiveness of volunteers	✓			
Are you interested to attend workshop(Yes/No)	Yes ✓			

Sign:



IETE
Feedback Form

Name: Rahil K Bhagat
Event: Ethical hacking
Date: 19/02/24
Class: BE
Please tick suitable fields

Criterion	Excellent	Good	Average	Poor
Organization of event by the committee	✓			
Usefulness of the event in your life	✓			
Technical depth of the event	✓			
Knowledge gained from the event	✓			
Quality of the equipment used for the event	✓			
Attentiveness of volunteers	✓			
Are you interested to attend workshop(yes/no)	Yes			

Sign:

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IETE
Feedback Form

Name: Pranit Bhoir
Event: Ethical Hacking.
Date: 19/02/2024
Class: BE E&TC.
Please tick suitable fields

Criterion	Excellent	Good	Average	Poor
Organization of event by the committee		✓		
Usefulness of the event in your life		✓		
Technical depth of the event		✓		
Knowledge gained from the event		✓		
Quality of the equipment used for the event		✓		
Attentiveness of volunteers		✓		
Are you interested to attend workshop(yes/no)	Yes			

Sign:

IETE
Feedback Form

Name: Shreya G.
Event: workshop
Date: 19/2/24
Class: TE
Please tick suitable fields

Criterion	Excellent	Good	Average	Poor
Organization of event by the committee		✓		
Usefulness of the event in your life		✓		
Technical depth of the event		✓		
Knowledge gained from the event		✓		
Quality of the equipment used for the event		✓		
Attentiveness of volunteers				
Are you interested to attend workshop(yes/no)	Yes			

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Feedback Analysis:

Criteria	Excellent	Good	Average	Poor
Organization of event by the committee	24	19	4	0
Usefulness of the event in your life	4	30	12	1
Technical depth of the event	19	15	13	0
Knowledge gained from the event	14	24	8	1
Quality of the equipment used for the event	25	8	10	4
Attentiveness of volunteers	20	27	0	0
Total	**106**	**123**	**47**	**6**

F= (106*4) + (123*3) + (47*2) + (6*1) / 47* 6*4

F=0.791

Level 3=0.79

Level 2=0.52

Level 1= 0.26

11.Result and Certificates

All 57 students got certificate

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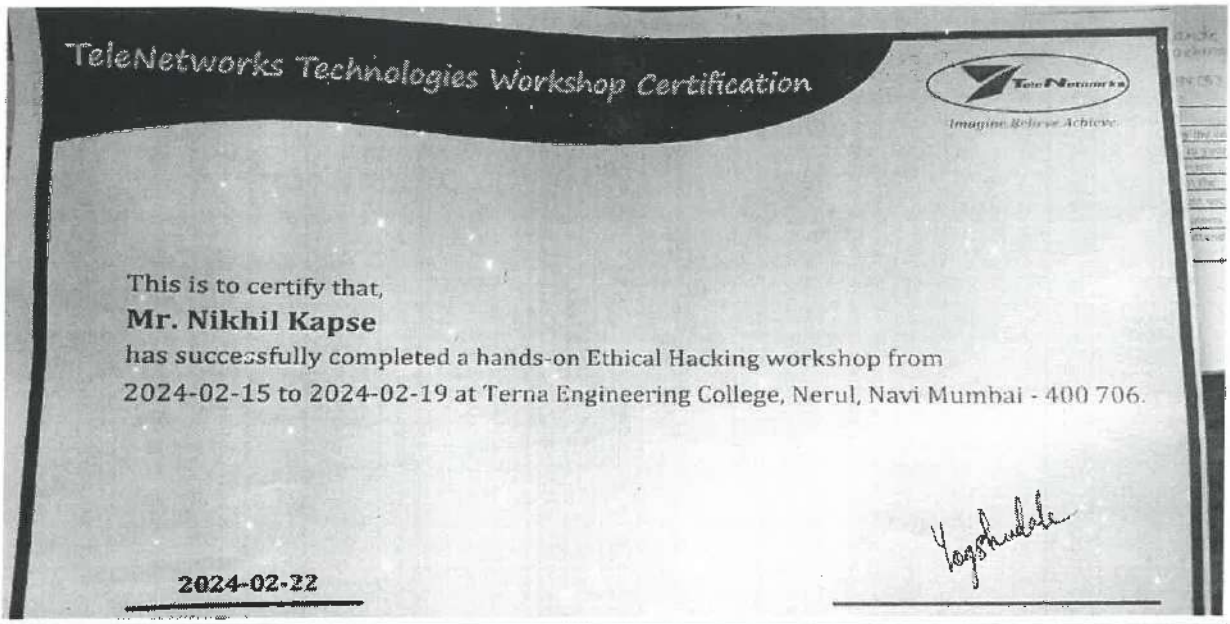


TeleNetworks Technologies Workshop Certification

Imagine Believe Achieve

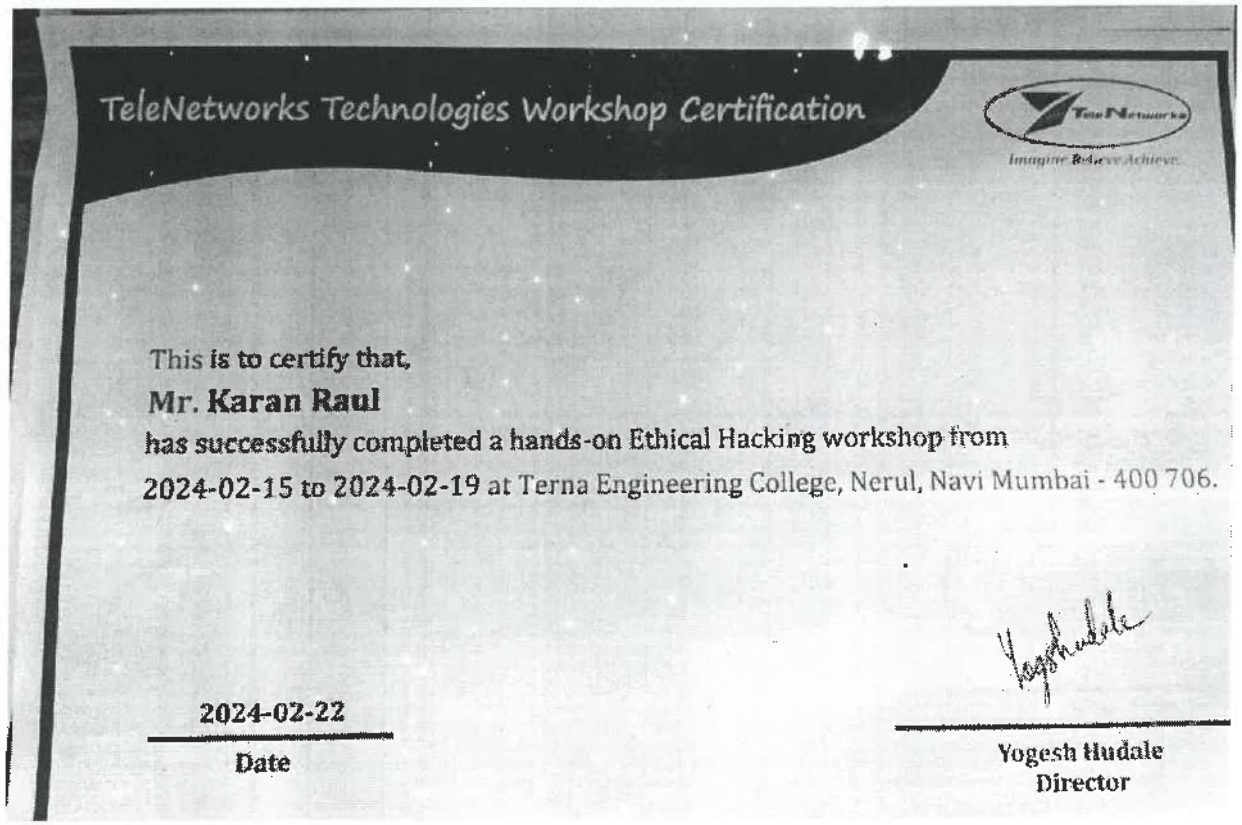
This is to certify that,

Mr. Nikhil Kapse

has successfully completed a hands-on Ethical Hacking workshop from

2024-02-15 to 2024-02-19 at Terna Engineering College, Nerul, Navi Mumbai - 400 706.

2024-02-22



TeleNetworks Technologies Workshop Certification

Imagine Believe Achieve

This is to certify that,

Mr. Karan Raul

has successfully completed a hands-on Ethical Hacking workshop from

2024-02-15 to 2024-02-19 at Terna Engineering College, Nerul, Navi Mumbai - 400 706.

2024-02-22

Date

Yogesh Hudale

Director

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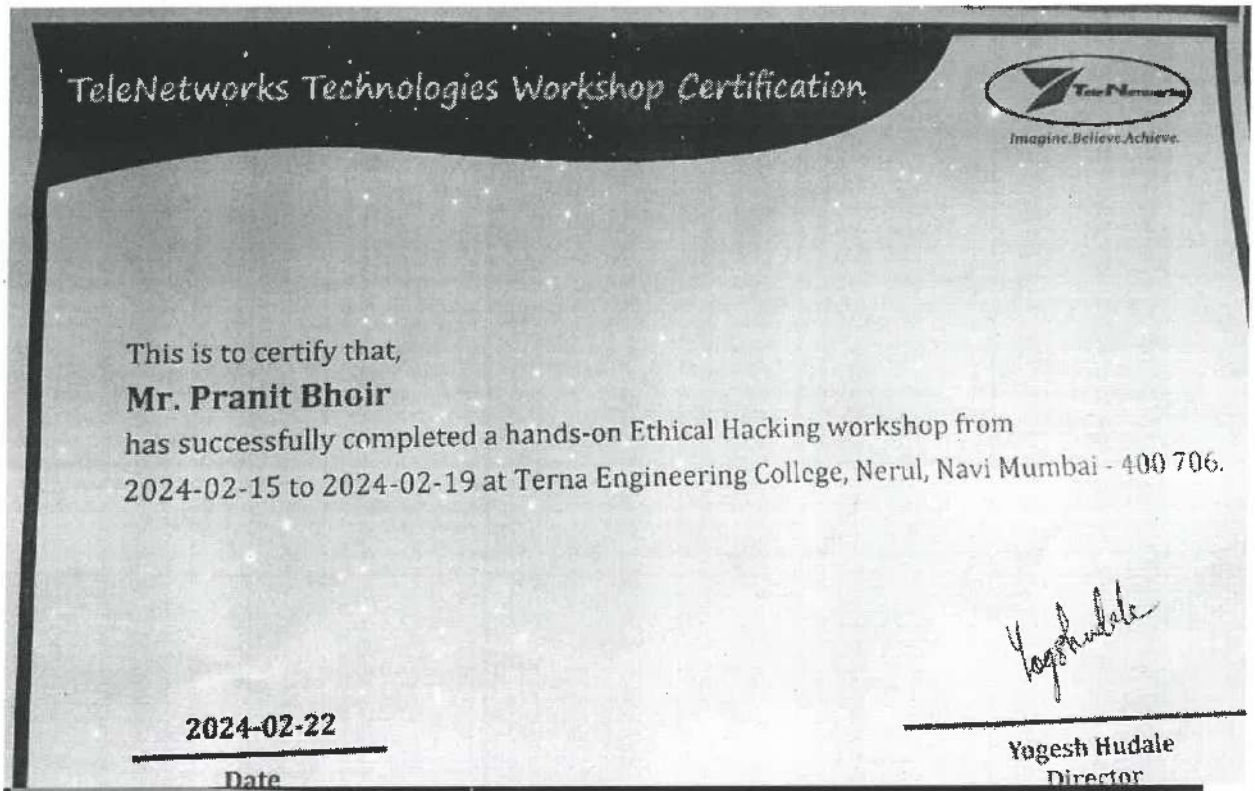


TeleNetworks Technologies Workshop Certification

Imagine.Believe.Achieve.

This is to certify that,

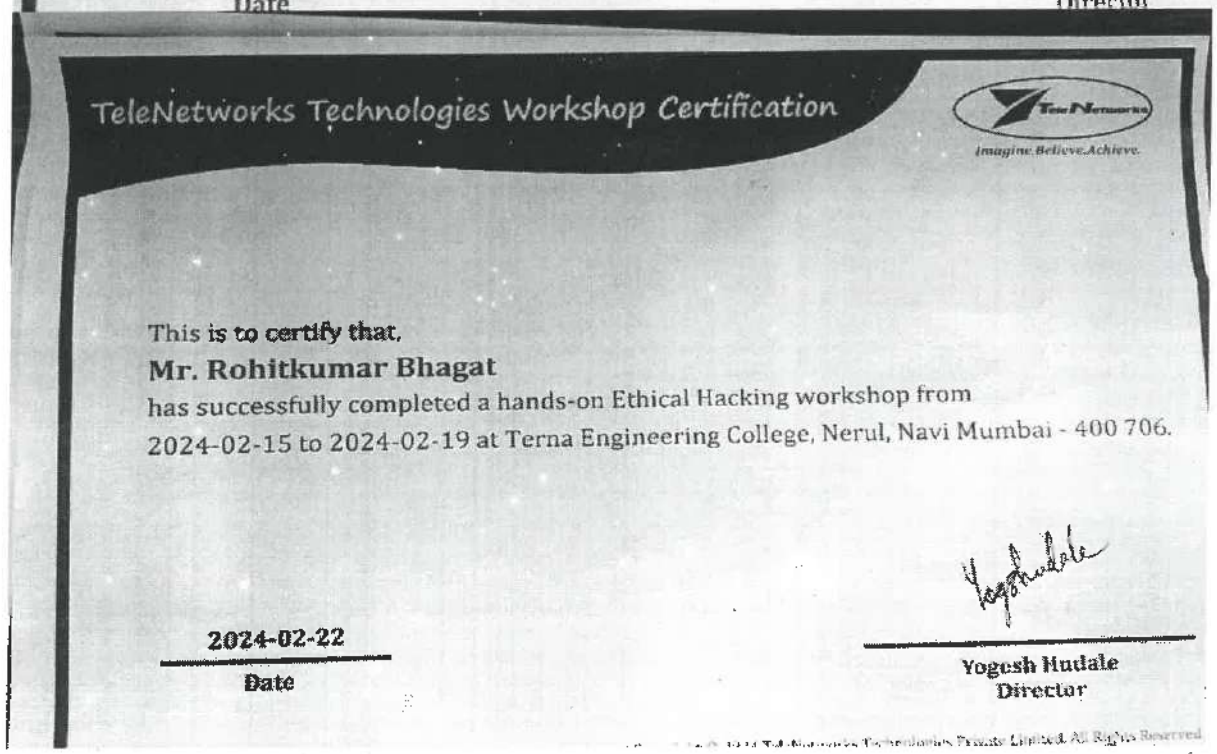
Mr. Pranit Bhoir

has successfully completed a hands-on Ethical Hacking workshop from 2024-02-15 to 2024-02-19 at Terna Engineering College, Nerul, Navi Mumbai - 400 706.

2024-02-22

Date

Yogesh Hudale
Director



TeleNetworks Technologies Workshop Certification

Imagine.Believe.Achieve.

This is to certify that,

Mr. Rohitkumar Bhagat

has successfully completed a hands-on Ethical Hacking workshop from 2024-02-15 to 2024-02-19 at Terna Engineering College, Nerul, Navi Mumbai - 400 706.

2024-02-22

Date

Yogesh Hudale
Director

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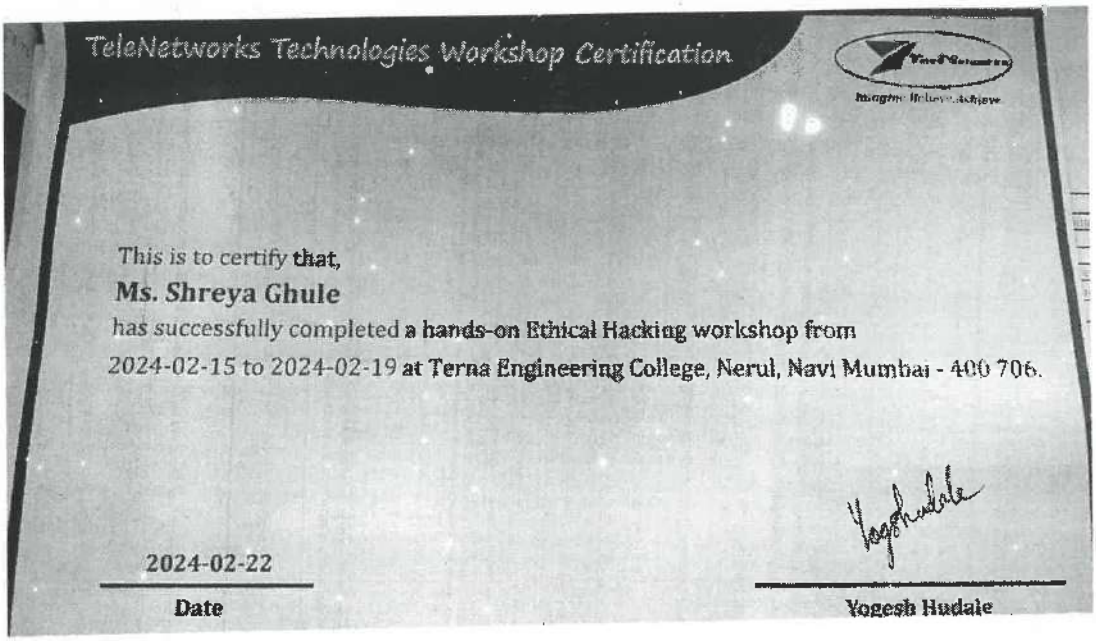

Rupali Shekokar
Course Coordinator

Dr. Jyothi Digghe
HOD Dept. of EXTC Engg.

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Web : https://ternaengg.ac.in/

Report on

Value Added Course - Basics of STAAD-Pro

Enrolled Students

T.E. Civil Engineering

Academic Year:

2023-2024

Conducted by

Dept. of Civil Engineering, TEC

In Association with

Department of Civil Engineering, Nerul, Navi Mumbai

terna
Knowledge to Empower

&

Bentley Education, USA

Bentley

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CONTENT

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1. Meeting and Approval

1.1 Meeting

SUMMARY OF MINUTES OF THE MEETING

9.6.2023

With reference to meeting held and Minutes of meeting recorded the summary of minutes of meeting is as below.

The Department of Civil Engineering has planned to conduct Value Added Course to provide knowledge to students regarding for vital subjects of our discipline. The following faculty members were present in the meeting conducted on 9 June 2023 at Civil HOD Cabin to finalize the Value added course to be offered for this year.

The HOD and the staff members concluded the following Add on Course for the academic year 2021-2022

SL. No.	Name of Value Added Course	Semester	Hours	Course Incharge
1.	Value added Course (Basics of Staad- Pro)	V	30	Jamaluddin M.

In the meeting it was decided to prepare syllabus of the program by the staff in charge within a week from the date of meeting.

1) Dr. Priyanka Salunkhe (HOD)
2) Jamaluddin M. (Course Coordinator)
3) Pradeep Sonawane (Faculty)
4) Dharmesh Gangani (Faculty)

Dr. Priyanka Salunkhe
Dept. of Civil Engg.

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TERNA ENGINEERING COLLEGE

Date:-09.07.2023

To,

The Principal

Terna Engineering College,

Nerul, Navi Mumbai – 4000706

Subject: - Regarding Permission for conducting Value Added Course Basics of Staad-Pro.

Respected Sir,

Requirement of proficiency in software has become essential for students. In view of this we have decided to conduct an Value Added Course on Basics of Staad-Pro in Association with Bentley Education, USA during the academic year 2023 – 24 for semester-V students. I request you to provide the permission to conduct the same. The selected course will be useful to students for learning basics of structural Analysis which will help students to set their skills and carry final year project using Staad-Pro software. Instructor of this course will be our faculty.

Kindly provide permission to do the same.

Thanking You.

Yours Faithfully.

Prof. Jamaluddin Maghrabi
AOC Incharge

Dr. Priyanka Salunkhe
HoD

OK

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Plot No. 12, Sector 22, Opposite Railway Station, Nerul(W), Navi Mumbai- 400706. Ph. +91 22 61115444,
Fax No.+91 22 61115400 Web :www.terna.org, e- mail : principal@terna.org

Department of Civil Engineering

ACADEMIC YEAR 2023 – 2024

1. Title of the course : Value Added Course (STAAD-Pro)
2. Objective of the course : To make student learn Staad Pro Software which is required for analysis and design of structure. This will be beneficial to student for their final year project.
3. Prerequisite : Basics of Structural Analysis
4. Beneficiary : Students and Faculties
5. Date & Duration of the course:.11.07.2023 to 29.10.2023
6. No of hours required : 30 Hours
7. Internal Resources : Jamaluddin M./Pradeep S./ Dharmesh G.
8. Internal Assessment : Assignment
9. Contents of the course : Enclosed
10. Credits / Certification : 75% attendance & submission of assignment are eligible for certification.
11. Venue : Civil Engineering Computer Lab.

Course Coordinator

HOD

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2. About Institute

Terna Public Charitable Trust's Terna Engineering College is one of the well-known and premium technical institute. It is located at Nerul, Navi Mumbai on a beautiful 3 acre campus. The institute is affiliated to University of Mumbai, approved by AICTE and accredited by National Board of Accreditation (NBA). This institution offers 7 UG, 4 PG and 3 PhD courses. Highest quality education is catered with curriculum extension by means of exceptional offerings like Engineering Products and Innovation Center (EPIC), Remote centre of IIT Bombay which facilitates student / faculty members to interact with IIT professors through video conferencing, Industry Institute Interaction Cell, Electronics club (collaboration with 25 local electronics SMEs), e-Yantra Embedded Systems and Robotics Lab, Apple lab, Texas Instruments Lab. We are a diverse, talented community united by passion for learning and quest for more. Terna motivates students to make a difference in our campus, in the state, country and around the world.

2.1 About Department

The Department of Civil Engineering was established in the year 2017. The Mission of Department is to promote the disciplines of Planning, Design, Construction, Operation,
Maintenance and Research. It offers students technical knowledge with technique for better utilization of available resources and greater standardization of construction processes required by construction industry. We intend to develop students by giving training to make use of innovative design methods, techniques and practical implementation. Highly qualified and dedicated faculty are recruited and they are always on their toes to guide the students, form the backbone of the department.

Key Features:

- Well Equipped Laboratories – Materials and Concrete Technology, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, Engineering Geology, CAD Laboratory, Surveying Laboratory, Hydraulics and Fluid Mechanics Laboratories
- Consultancy Services Offered and Fully Equipped With Major Facilities Like Fully Automatic Compression Testing Machine 2000 kN (NABL Accredited), Fully Automatic Universal Testing Machine (UTM 1000 kN- NABL Accredited), Fully Automated Total Station for Professional Surveying
- Consultancy Services Offered for Non-Destructive Testing
- Faculties with Experience in Design and Execution of Residential, Commercial, Oil & Gas, Power Projects

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- Faculties with Experience in Research in the Field of Smart Materials & Smart Structures, Pavement Design & Analysis, Geotextile Materials for Soil Stabilization, Geotechnical Engineering, Remote Sensing & GIS
- Active Mentoring Processes for Continuous Assessment in Academics
- Learning Experience Through Active Consultancy Projects
- Industrial Visits-CIDCO, PWD, MMRDA, Rock Museum Nasik
- Internship for Students (With & Without Stipend)
- International Students Chapter Association & Merit Scholarships
- Expert Lectures by Industry Experts
- NPTEL Courses
- Skill Based, Project Based Learning, Interactive and Interest Based Core Domain Learning
- Patents, Designs and Copyright Development
- Achieved 100 % placement in AY 2022-23. Many students completed internship during winter vacations (2022) in renowned organizations like, Public Work Department (PWD), City and Industrial Development Corporation (CIDCO), and many more.

3. About Course

An add on course of basic training of STAAD-Pro software has been introduced by the Department of Civil Engineering, Terna Engineering College, Navi Mumbai for S.E.(Civil) students. This course is beyond their regular syllabus. This will be beneficial to students for their project work and ready for industry. Duration of course will be 40 hrs.

4. About Instructors

This course will be conducted by Mr.Jamaluddin Maghrabi along with Mr.Pradeep Sonawane and Mr.Dharmesh Gangani

- Mr.Jamaluddin ,faculty of TEC having 25 years of experience in Civil Structural Design Management of industrial and residential projects. He has handled Projects of high importance for Department of Space ISRO and Department of Atomic Energy BARC for Government of India. He has carried out Analysis and design of RCC and Steel Structures. for many Multidisciplinary EPC and EPCm projects related to Power Projects Chemical/Process Plants, , Oil and Gas and other Industrial Projects
- Mr.Pradeep Sonawane faculty of TEC having 7 years of teaching experience. He having 1 Year field experience in building construction work. He has carried out Planning, analysis & Design of different residential project work.

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- Mr.Dharmesh Gangani faculty of TEC having 6 years of teaching experience. He having 1 Year field experience in building construction work. He has carried out Planning, analysis & Design of different residential project work.

5. Course Scheme

The marking scheme of this course has been decided at the institute and the departmental level.

VALUE ADDED COURSE:-Basics of STAAD-Pro

Contact Hours: - 02 per week (Total 30)

Sem. : - V

6. Syllabus

Topic No.	Contents	Hours
1	Introduction to STAAD-Pro, Silent features , Menu of Preprocessor & Post processor	2
2	Modeling of structures with commands of Staad	2
3	Validation of Software with manual calculation for simply supported beam	4
4	Analysis of Beams with different types of loadings and support with exercises	4
5	Analysis of Plane Frame with different types of loadings and support with exercises	4
6	Analysis of Space Frame with floor loads, with exercises	4
7	Loads and load combinations as per IS codes	2
8	Modeling of G+2 residential building	8
	TOTAL	**30**

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7. Course Objective and Course Outcome

After completion of course the student will be able to model, analyse and interpret the results from software

Course Objective

1. To provide basic knowledge of different Software in Civil Engineering.
2. To validate the software with manual calculations.
3. To understand and apply the basic functions of software.
4. To understand applications of codes in software.
5. To prepare the database and perform its statistical analysis using relevant software.

Course Outcome

On completion of this course, the students will be able to:

CO1- To understand the functions involved in various software related to civil engineering field.

CO2- To understand the various commands of software

CO3- To analyse the different types of structural members.

CO4- To understand loads and load combinations to be applied to the structure

CO5- To Provide hands-on training on analysis, modeling and design of R. C. C. framed structures.

Program Outcome

PO 1: -Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2: - Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

PO 3: - Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4: - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5: - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6: - The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

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Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8: - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9: - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

O 10: - Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: - Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12: - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcome

PSO 1: - Graduates will be able to plan, analyse, design and drawing and estimate for residential, commercial, industrial and infrastructure projects.They will be able to work on site for supervision of various construction activities.

PSO 2: - Graduates will be able to use different software related to Civil Engineering for developing skills required by the industry.

8. Mapping CO, PO and POS

Practical No.	Name of Experiment	CO	PO	PSO
1	Introduction to STAAD-Pro, Silent features , Menu of Pre-processor & Post processor	1	1,3,5,8,9,12	2
2	Modelling of structures with commands of Staad	2	1,2,3,5,8,9,12	2
3	Validation of Software with manual calculation for simply supported beam	2	1,2,3,5,8,9,12	2
4	Analysis of Beams with different types of loadings and support with exercises	3	1,2,3,5,8,9	2
5	Analysis of Plane Frame with different types of loadings and support with exercises	3	1,2,3,5,8,9	2
6	Analysis of Space Frame with floor loads, with exercises	3	1,2,3,5,8,9	2
7	Loads and load combinations as per IS codes	4	1,2,3,5,8,9	2
8	Modeling of G+2 residential building	5	1,2,3,5,8,9	2

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DEPARTMENT OF CIVIL ENGINEERING

Academic Time Table 2023-24V (SH-23)

CLASS:TE (CIVIL) SEM: V (R0)

Day/Time	9:00-10:00	10:00-11:00	11:15-12:15	12:15-1:15	1:15-1:45	1:45-2:45	2:45-3:45	3:45-4:45
MON	TRCS A1 PS R-308 AOC A2 JSM R-206 GE A3 DG R-210		TRE RT R 211	AH VK R 211		PCE A1 R-308 TRE A2 RT R-207 AH A3 VK R-04		
TUE	TRE A1 RT R-207 GE A2 DG R-210 TRCS A3 PVS R-209		GE A1 DG R-210 PCE A2 R-308 TRE A3 RT R-207			AH VK R 211	BSR JSM R 211	TRCS PVS R 211
WED	GE-1 DG R 211	AH VK R 211	AH A1 VK R-04 TRCS A2 PS R-308 AOC A3 DG R-206			TRCS PVS R 203	TRE RT R 203	
THU	GE-1 DG R 211	BSR JSM R 211	TRCS PVS R 211	PCE R 211		TRE RT R 211	AOC A1 PS R-206 AH A2 VK R-04 PCE A3 R-308	
FRI	PCE R 203	BSR JSM R 211	TRE RT R 211	GE-1 DG R 203		MINI PROJECT		

BREAK

BATCH A1- ROLL 1 TO 24
BATCH A2- ROLL 25 TO 48
BATCH A3- ROLL 49 TO 74

ABBR	COURSE
TRCS	THEORY OF REINFORCED CONCRETE STRUCTURES
GE-I	GEOTECHNICAL ENGG II
TRE	TRANSPORTATION ENGG
PCE	PROFESSIONAL COMMUNICATION & ETHICS
AH	APPLIED HYDRAULICS
BSR	BUILDING SERVICES & REPAIRS
AOC	ADD ON COURSE -STAAD PRO

ABBR	TEACHER
RT	RITESH TANDEKAR
SB	SONALI BAVISKAR
PVS	Dr. PRIYANKA SALUNKE
VK	VAISHALI KISHAN
JSM	JAMALUDDIN MAGHRABI
AJK	AGARCHAND KAWALE
PS	PRADEEP SONAWANE

DEPT.IT I/C

HOD

DEAN ACADEMICS

PRINCIPAL

7/7

10. List of Students:

Sr. no.	Roll No.	Student Name
1	A1	Tambde Kshitij
2	A2	Mhatre Jatin
3	A3	Chikane Atharva
4	A4	Shinde Mayur Baburav
5	A6	Shinde Aaditya
6	A7	Kolte Priyesh
7	A8	Chinarathod Vinod
8	A9	Ghonge Viraj

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9	A10	Ingle Vivek
10	A11	Mhatre Sai
11	A12	Deshmukh Shraddha Satish
12	A13	Bodake Janardan
13	A14	Bhosale Mayur
14	A15	Mumbaikar Vipul
15	A17	Kolekar Mahesh
16	A19	Mangle Manav
17	A22	Ahirwar Shubham
18	A23	Shinde Neeraj
19	A24	Magar Bhairav
20	A25	Andhare Kaushal ...
21	A26	Tambe Vedant
22	A28	Gavit Gajendra
23	A29	Kamble Tanmay
24	A30	Lubal Swapneel
25	A32	Karbhari Nikhil
26	A33	Shirsat Shruti
27	A38	Shinde Harsh Santosh
28	A40	Chirlekar Aaryan Anil
29	A41	Mankumbare Soham Mohan
30	A42	Sonawane Khushaal Baban
31	A43	Ambhore Aryan Ashok
32	A44	Khan Mehtab Alam Mukhtar
33	A45	Ghadi Anish Pradeep
34	A46	Patil Kartik Kiran

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35	A47	Keni Vaibhavee Subodh
36	A48	Bowlekar Shailesh Shekhar
37	A49	Palekar Pranav Anil
38	A50	Lad Amey Mahadev
39	A51	Dhumal Gauri Sanjay
40	A52	Jadhav Shriya Vivek
41	A53	Patil Soham Vinod
42	A54	Bhujbal Aryan Chandrakant
43	A55	Singh Ayush Jitendra
44	A56	Ghangale Anamay Uttam
45	A57	Dombare Vaishnvi Laxman
46	A58	Ranshur Sakshi Raju
47	A59	Gharat Pranjali Mahendra
48	A60	Rathod Snehal Shivaji
49	A61	Kondikire Mayur Dilip
50	A62	Yedurkar Sejal Ramdas
51	A63	Chorage Akash Akaram
52	A64	Chaudhari Atharva Sandeep
53	A65	Raut Rutuja Tukaram
54	A66	More Vineet Milind
55	A67	Kale Atharva Ambadas
56	A68	Shinde Sahil Sanjay
57	A69	Tambe Rohit Baban
58	A70	Bhadange Dhiraj Manohar
59	A71	Gaokar Sanika Dattaram
60	A73	Vikram Masurkar

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endance

Batch	Dates :-	3/8	10/8	17/8	24/8	28/8	31/8	2/9	07/09	14/9	30/9	5/10	07/10	07/10	12/10	14/10	Total	Atten.
No	Student Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1122001	TAMBDE KSHITIJ	1	1	1	1		1		1		1	1	1	1	1	1	12	80
21122002	MHATRE JATIN	1	1	1	1	1		1	1	1	1	1	1		1	1	13	87
7F2122003	CHIKANE ATHARVA	1			1												2	13
U7F2122004	SHINDE MAYUR BABURAV	1	1	1	1		1	1	1	1	1	1	1	1		1	13	87
U7F2122006	SHINDE AADITYA	1	1	1	1	1	1	1	1	1			1	1	1	1	13	87
TU7F2122007	KOLTE PRIYESH	1															1	7
TU7F2122009	CHINARATHOD VINOD																0	0
TU7F2122010	GHONGE VIRAJ		1	1		1	1	1		1	1	1	1	1	1	1	12	80
TU7F2122011	INGLE VIVEK	1	1		1		1	1	1	1		1	1	1	1	1	12	80
TU7F2122012	MHATRE SAI		1	1							1						2	13
TU7F2122013	DESHMUKH SHRADDHA SATISH	1	1	1	1		1	1									7	47
TU7F2122015	BODAKE JANARDAN	1	1	1	1				1	1	1	1	1	1	1	1	12	80
TU7F2122016	BHOSALE MAYUR	1	1	1		1	1	1	1	1	1	1	1	1	1	1	14	93
TU7F2122017	MUMBAIKAR VIPUL	1	1	1	1	1	1	1	1	1	1	1	1	1			13	87
TU7F2122019	KOLEKAR MAHESH	1	1	1	1	1	1		1	1	1		1		1	1	12	80
TU7F2122025	MANGLE MANAV	1	1	1			1		1	1	1	1	1	1	1	1	12	80
TU7F2122022	AHIRWAR SHUBHAM	1		1	1	1	1	1		1	1	1	1		1	1	12	80
TU7F2122021	SHINDE NEERAJ		1														1	7
TU7F2122020	MAGAR BHAIRAV																0	0

Batch	Dates :-	10/7	17/7	24/7	31/7	7/8	21/8	28/8	4/9	18/9	25/9	30/9	9/10	9/10	9/10	9/10	Total	% Attend
ID No	Student Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
TU7F2122027	ANDHARE KAUSHAL		1			1						1	1	1	1	1	7	47
TU7F2122028	TAMBE VEDANT	1	1		1	1	1	1	1	1	1		1	1		1	12	80
TU7F2122030	GAVIT GAJENDRA	1	1	1	1	1	1	1	1	1			1	1	1		12	80
TU7F2122031	KAMBLE TANMAY	1	1		1	1	1	1	1	1	1		1	1	1	1	13	87
TU7F2122032	LUBAL SWAPNEEL	1	1	1		1		1	1	1	1		1	1	1	1	12	80
TU7F2122034	KARBHARI NIKHIL	1	1		1	1	1	1	1	1			1	1	1	1	12	80
TU7F2122036	SHIRSAT SHRUTI	1	1	1	1	1	1	1		1	1			1	1	1	12	80
TU7S2223001	SHINDE HARSH SANTOSH		1				1	1			1		1	1	1	1	8	53
TU7S2223003	CHIRLEKAR AARYAN ANIL		1	1	1	1	1	1	1	1			1	1	1	1	12	80
TU7S2223006	MANKUMBARE SOHAM MOHAN	1	1	1	1	1	1	1	1				1	1	1	1	12	80
TU7S2223005	SONAWANE KHUSHAAL BABAN	1			1	1	1	1					1	1	1	1	9	60
TU7S2223004	AMBHORE ARYAN ASHOK	1	1	1	1	1	1	1				1	1	1	1	1	12	80

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07	KHAN MEHTAB ALAM MUKHTAR									1	1						2	13
008	GHADI ANISH PRADEEP		1	1	1	1	1		1	1	1		1	1	1	1	12	80
3009	PATIL KARTIK KIRAN		1		1	1	1	1			1						6	40
23010	KENI VAIBHAVEE SUBODH	1	1	1	1	1	1		1	1	1		1	1	1	1	13	87
2223011	BOWLEKAR SHAILESH SHEKHAR		1	1	1			1	1				1	1		1	8	53
S2223012	PALEKAR PRANAV ANIL		1	1	1			1	1				1		1	1	8	53
A3 Batch																		

Dates :-		12/7	19/7/23	26/7	2/8	9/08/23	23/8/23	6/9	27/9	4/10	11/10	18/10	21/10	21/10	28/10	28/10	Total	% Attend.
ID No	Student Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
TU7S2223013	LAD AMEY MAHADEV	1	1		1	1	1	1	1	1	1		1	1		1	12	80
TU7S2223014	DHUMAL GAURI SANJAY	1	1	1	1	1	1			1	1	1	1		1	1	12	80
TU7S2223015	JADHAV SHRIYA VIVEK	1	1	1	1	1	1			1	1	1	1	1	1	1	13	87
TU7S2223016	PATIL SOHAM VINOD		1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	93
TU7S2223017	BHUJBAL ARYAN CHANDRAKANT		1	1	1	1	1	1	1	1			1	1	1	1	12	80
TU7S2223018	SINGH AYUSH JITENDRA	1	1	1	1	1	1	1		1	1	1	1	1	1	1	14	93
TU7S2223019	GHANGALE ANAMAY UTTAM	1		1	1	1	1	1	1	1		1		1	1	1	12	80
TU7S2223020	DOMBARE VAISHNVI LAXMAN	1		1		1	1	1	1	1	1	1	1	1	1		12	80
TU7S2223021	RANSHUR SAKSHI RAJU	1	1	1	1		1	1	1	1		1	1		1		11	73
TU7S2223022	GHARAT PRANJALI MAHENDRA			1				1		1					1		4	27
TU7S2223023	RATHOD SNEHAL SHIVAJI	1	1	1	1	1	1	1	1	1	1			1	1	1	13	87
TU7S2223024	KONDIKIRE MAYUR DILIP	1	1	1		1	1		1	1	1	1	1	1	1	1	13	87
TU7S2223025	YEDURKAR SEJAL RAMDAS	1	1	1	1	1	1	1	1	1	1	1	1		1	1	14	93
TU7S2223026	CHORAGE AKASH AKARAM	1	1	1	1	1	1			1	1	1	1		1	1	12	80
TU7S2223027	CHAUDHARI ATHARVA SANDEEP	1		1	1	1	1	1	1	1	1	1	1	1	1	1	14	93
TU7S2223028	RAUT RUTUJA TUKARAM	1		1	1	1	1		1	1	1	1	1	1	1		12	80
TU7S2223029	MORE VINEET MILIND		1	1	1	1	1	1	1	1	1	1	1	1	1		13	87
TU7S2223030	KALE ATHARVA AMBADAS	1	1	1	1	1	1	1	1	1	1			1	1	1	13	87
TU7S2223031	SHINDE SAHIL SANJAY	1	1	1	1	1	1		1	1	1	1	1		1	1	13	87
TU7S2223032	TAMBE ROHIT BABAN	1	1	1	1	1	1	1	1	1	1		1		1	1	13	87
TU7S2223033	BHADANGE DHIRAJ MANOHAR			1		1	1		1						1		5	33
TU7S2223034	GADKAR SANIKA DATTARAM		1	1	1	1	1		1	1	1	1	1	1	1	1	13	87
A73	VIKRAM MASURKAR																0	87

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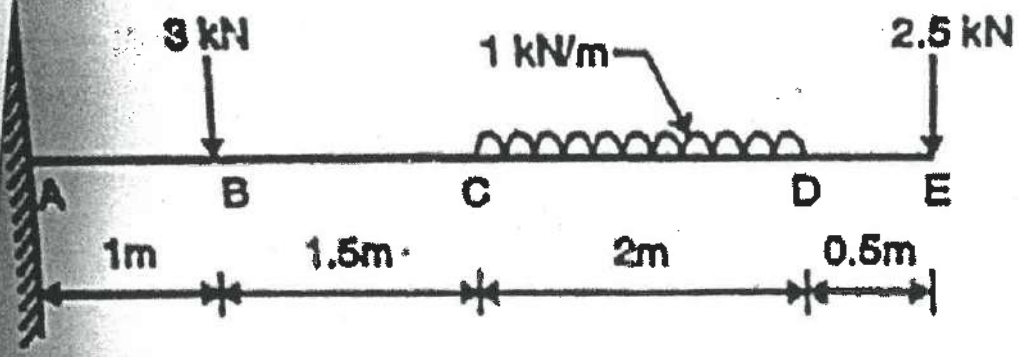
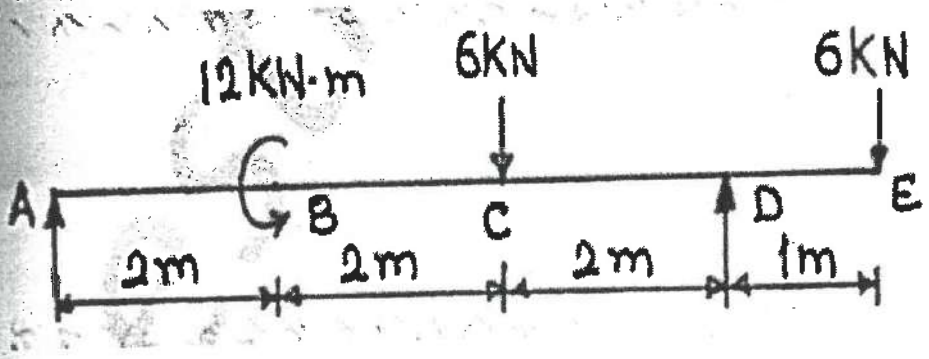
gnments

Assignment No.1

yse the beam in STAAD-PRO and prepare a report.



2. Analyse the beam in STAAD-PRO and prepare a report.



3. A fixed beam having span 6m carries a point load of 40kN at midspan.It also carries udl of 6kN/m over entire span. Analyse the beam using STAAD-PRO showing SFD,BMD & deflection.

4. A 10m long beam having one end hinged and other roller support carries a clockwise moment of 10kNm at midspan and four point loads of 20 kN each at every 2m. Analyse the beam using STAAD-PRO showing SFD,BMD & deflection.

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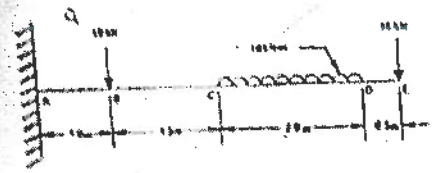
...le Submission of Assignment No. 1

AOC

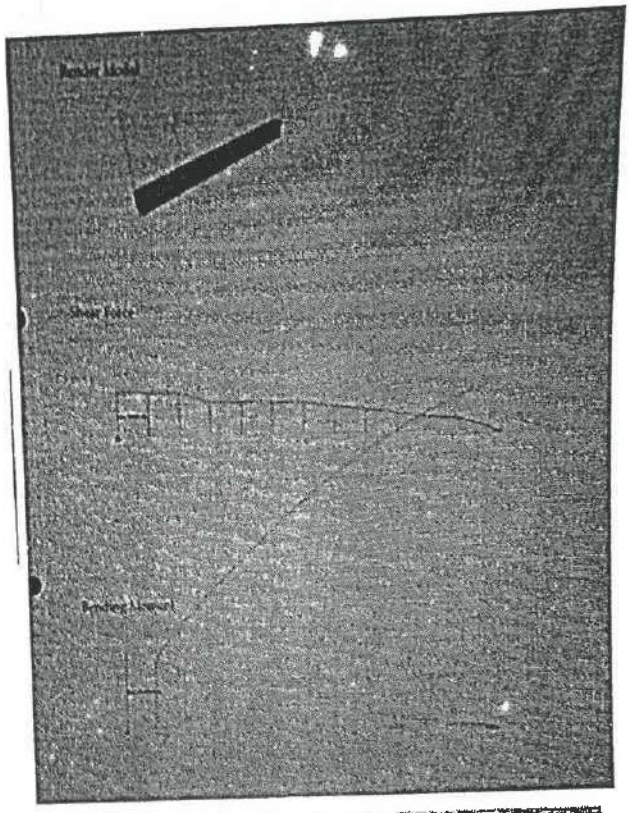
Assignment 1

...me - Manav Mangle
...ll no. 19
...E Civil

Question 1



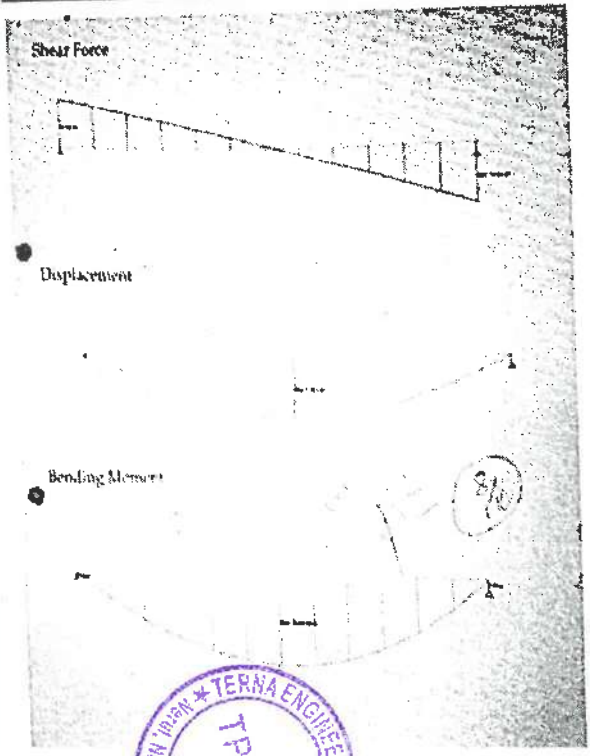
Loading Diagram



Question 5

Loading Diagram

Rendered Model



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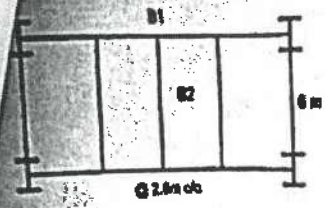
AOC – STAAD-PRO

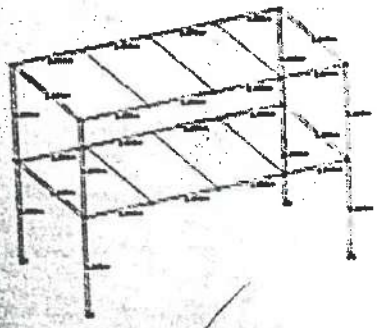
ASSIGNMENT NO.4

[illegible] Tembe

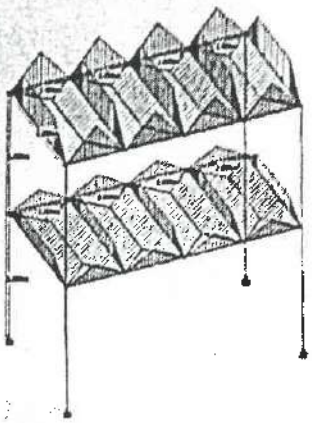
[illegible]yze a space frame as shown in plan with height 5m and same plan at [illegible] floor load to be taken as 5KN/m2 at 10m.



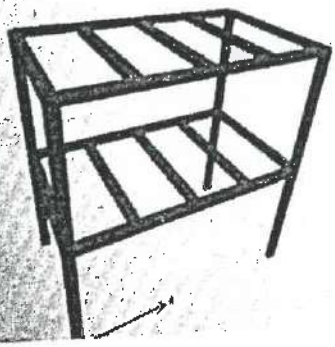
SOLUTION:-



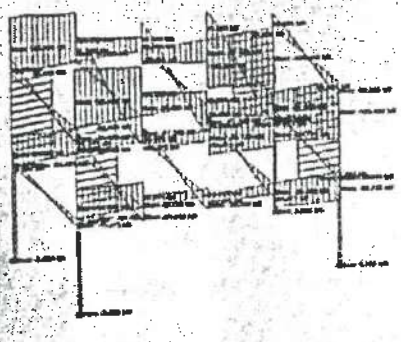
LOADING DIAGRAM



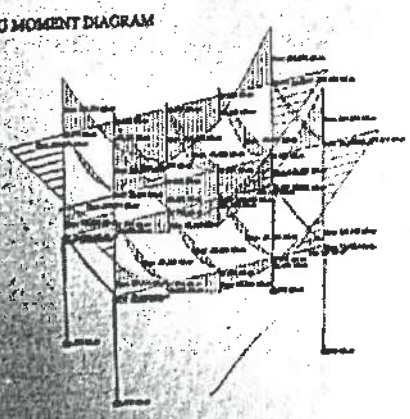
RENDER MODEL



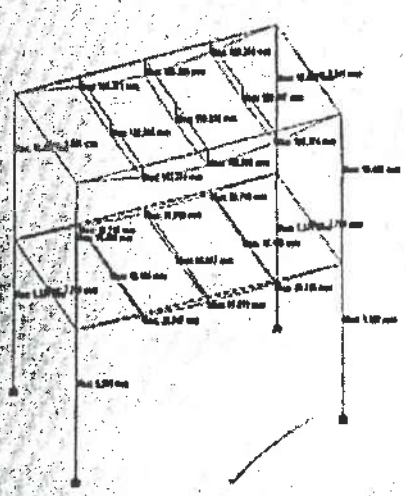
SHEAR FORCE DIAGRAM



BENDING MOMENT DIAGRAM



DEFLECTION



(10)

18/9/23

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for Evaluation TW

will be assigned to students each of 10 Marks. Marks will be credited as below.

Sr. No.	Description	Marks
1.	Modelling	2
2.	Successful run of Staad file	3
3.	SFD & BMD with deflected shapes	5

/ Certification : Those who have 75% attendance are eligible for certification.

esults

No.	Roll No.	Name of Student	Status
1	A1	Tambde Kshitij	Qualified
2	A2	Mhatre Jatin	Qualified
3	A3	Chikane Atharva	Not Qualified
4	A4	Shinde Mayur Baburav	Qualified
5	A6	Shinde Aaditya	Qualified
6	A7	Kolte Priyesh	Not Qualified
7	A8	Chinarathod Vinod	Not Qualified
8	A9	Ghonge Viraj	Qualified
9	A10	Ingle Vivek	Qualified
10	A11	Mhatre Sai	Not Qualified
11	A12	Deshmukh Shraddha Satish	Not Qualified
12	A13	Bodake Janardan	Qualified
13	A14	Bhosale Mayur	Qualified
14	A15	Mumbaikar Vipul	Qualified
15	A17	Kolekar Mahesh	Qualified
16	A19	Mangle Manav	Qualified
17	A22	Ahirwar Shubham	Qualified
18	A23	Shinde Neeraj	Qualified
19	A24	Magar Bhairav	Not Qualified

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A25	Andhare Kaushal ...	Not Qualified
A26	Tambe Vedant	Qualified
A28	Gavit Gajendra	Qualified
A29	Kamble Tanmay	Qualified
A30	Lubal Swapneel	Qualified
A32	Karbhari Nikhil	Qualified
A33	Shirsat Shruti	Qualified
A38	Shinde Harsh Santosh	Not Qualified
A40	Chirlekar Aaryan Anil	Qualified
A41	Mankumbare Soham Mohan	Qualified
A42	Sonawane Khushaal Baban	Not Qualified
A43	Ambhore Aryan Ashok	Qualified
A44	Khan Mehtab Alam Mukhtar	Not Qualified
A45	Ghadi Anish Pradeep	Qualified
A46	Patil Kartik Kiran	Not Qualified
A47	Keni Vaibhavee Subodh	Qualified
A48	Bowlekar Shailesh Shekhar	Not Qualified
A49	Palekar Pranav Anil	Not Qualified
A50	Lad Amey Mahadev	Qualified
A51	Dhumal Gauri Sanjay	Qualified
A52	Jadhav Shriya Vivek	Qualified
A53	Patil Soham Vinod	Qualified
A54	Bhujbal Aryan Chandrakant	Qualified
A55	Singh Ayush Jitendra	Qualified
A56	Ghangale Anamay Uttam	Qualified
A57	Dombare Vaishnvi Laxman	Qualified
A58	Ranshur Sakshi Raju	Qualified
A59	Gharat Pranjali Mahendra	Not Qualified
A60	Rathod Snehal Shivaji	Qualified

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A61	Kondikire Mayur Dilip	Qualified
A62	Yedurkar Sejal Ramdas	Qualified
A63	Chorage Akash Akaram	Qualified
A64	Chaudhari Atharva Sandeep	Qualified
A65	Raut Rutuja Tukaram	Qualified
A66	More Vineet Milind	Qualified
A67	Kale Atharva Ambadas	Qualified
A68	Shinde Sahil Sanjay	Qualified
A69	Tambe Rohit Baban	Qualified
A70	Bhadange Dhiraj Manohar	Not Qualified
A71	Gaokar Sanika Dattaram	Qualified
A73	Vikram Masurkar	Not Qualified

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oogle.com/forms/d/e/1FAIpQLScmq14wUhc6aP...

link

ON COURSE (Basics of Staad-Pro) SH-23

...is for collecting feedback for the skill based training program conducted by the Civil Engineering ...ent from July 23 to October 23. Students should give a genuine feedback

D *

...answer text

...e of Student *

...answer text

...l NO *

...answer text

...atch *

A1

A2

A2

...o you feel STAAD Pro ADD ON COURSE was beneficial for you? *

YES

NO

...how was the curriculum of the STAAD Pro AOC program? Did it cover sufficient usage of the software? *

EXCELLENT

VERY GOOD

GOOD

FAIR

POOR

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AD Pro curriculum completed as planned? *

he STAAD pro course was helpful for understanding structural Engineering. *

YES

NO

Were your queries resolved *

YES

NO

Were you able to practice along with the instructor? *

YES

NO

How would you rate the course content in terms of being easy to follow? *

EXCELLENT

VERY GOOD

GOOD

FAIR

POOR

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rate the trainer for the STAAD Pro course? *

T

OD

R .

was your overall experience with the add on course (Basics of STAAD Pro) ? *

XCELLENT

VERY GOOD

GOOD

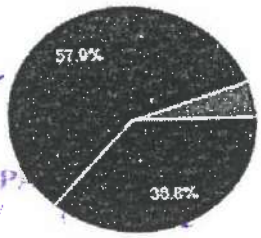
FAIR

POOR

Do you feel STAAD Pro ADD ON COURSE was beneficial for you?

YES
NO

How was the curriculum of the STAAD Pro AOC program? Did it cover sufficient usage of the software



EXCELLENT
VERY GOOD
GOOD
FAIR
POOR

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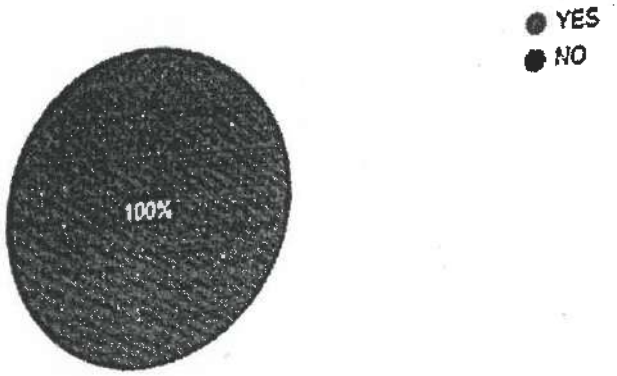
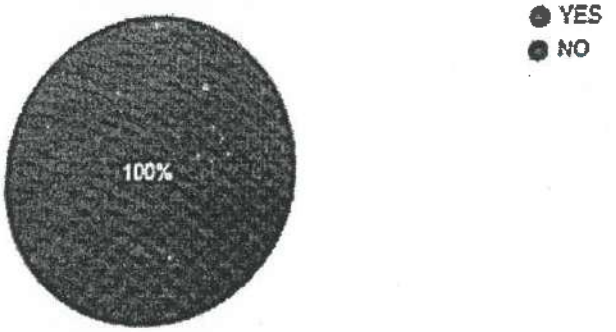
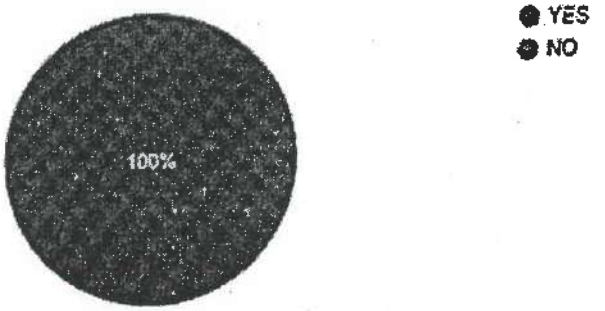
s the STAAD Pro curriculum completed as planned?



Did the STAAD pro course was helpful for understanding structural Engineering



Were your queries resolved



Were you able to practice along with the instructor?

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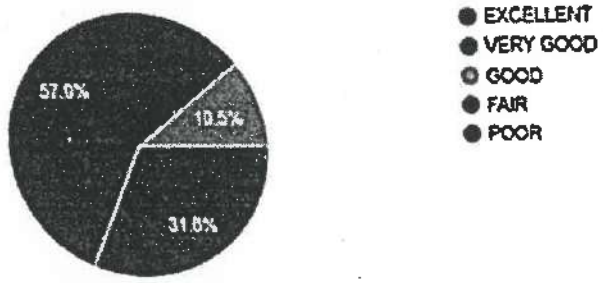
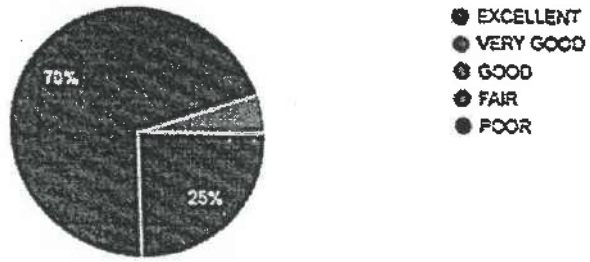
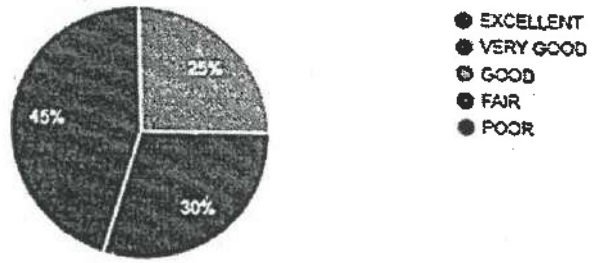
you rate the course content in terms of being easy to follow?



ould you rate the trainer for the STAAD Pro course?



/as your overall experience with the add on course (Basics of STAAD Pro) ?



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CERTIFICATE

This is to certify that Mr. /Ms. **RANSHUR SAKSHI RAJU**

Student of second year has satisfactory completed Value Added Course on Basics of STAAD Pro in semester –V during academic year 2023-24 in association with Bentley.

This certificate has been issued to him/her after qualifying the exam.

Course In charge *HOD* *Principal*

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. **MANGLE MANAV**

Student of second year has satisfactory completed Value Added Course on Basics of STAAD Pro in semester –V during academic year 2023-24 in association with Bentley.

This certificate has been issued to him/her after qualifying the exam.

Course In charge *HOD* *Principal*

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CERTIFICATE

This is to certify that Mr. /Ms. **KAMBLE TANMAY**

Student of second year has satisfactory completed Value Added Course on Basics of STAAD Pro in semester –V during academic year 2023-24 in association with Bentley.

This certificate has been issued to him/her after qualifying the exam.

Course In charge *HOD* *Principal*

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. **RATHOD SNEHAL**

Student of second year has satisfactory completed Value Added Course on Basics of STAAD Pro in semester –V during academic year 2023-24 in association with Bentley.

This certificate has been issued to him/her after qualifying the exam.

Course In charge *HOD* *Principal*

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Prof. Jamaluddin Maghrabi
Course in charge

Dr. Priyanka Salunkhe
HoD

TERNA ENGINEERING COLLEGE, NERUL

Department of Civil Engineering

Report on

Value Added Course - Water Gems and Primavera

Enrolled Students

B.E. Civil Engineering (Sem-VII)

Academic Year:

2023-2024

Organized by

Department of Civil Engineering, Nerul, Navi Mumbai

&

Bentley Education, USA

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Part I

Water Gems

CONTENT

1. Meeting and Approval

1.1 Meeting

SUMMARY OF MINUTES OF THE MEETING 3.7.2023

With reference to meetings held and Minutes of meeting recorded the summary of minutes of meeting is as below.

The Department of Civil Engineering has planned to conduct an Add on Course to provide knowledge to students regarding vital subjects of our discipline. The following faculty members were present in the meeting conducted on 3 July 2023 at Civil HOD Cabin to finalize the Value added course to be offered for this year.

The HOD and the staff members concluded the following Add on Course for the academic year 2023-2024

SL. No.	Name of Value Added Course	Semester	Hours	Staff Incharge
1.	Add on Course (Water Gems and Primavera)	VII	30	Ritesh Tandekar , Sonali Baviskar. & Poonam Patil

In the meeting it was decided to prepare the syllabus of the program by the staff in charge within a week from the date of meeting.

1) Dr. Priyanka Salunkhe (HOD)
2) Jamaluddin M. (IQAC Incharge)
3) Ritesh Tandekar (Water Gems Course Coordinator)
4) Sonali Baviskar (Water Gems Course Coordinator)
5) Poonam Patil (Primavera Course Coordinator)

Dr. Priyanka Salunkhe
HoD Dept. of Civil Engg.

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1.2 Approval

TERNA PUBLIC CHARITABLE TRUST'S

TERNA ENGINEERING COLLEGE

Date:-09.07.2023

To,

The Principal

Terna Engineering College,

Nerul, Navi Mumbai – 4000706

Subject: - Regarding Permission for conducting Value Added Course Basics on Water Gems & Primavera.

Respected Sir,

Requirement of proficiency in software has become essential for students. In view of this we have decided to conduct a Value Added Course on Water Gems & Primavera in Association with Bentley Education, USA during the academic year 2023 – 24 for semester-VI students. I request you to provide the permission to conduct the same. The selected course will be useful to students for learning water supply and drainage system & Project planning and management. Instructor of this course will be our faculty.

Kindly provide permission to do the same.

Thanking You.

Yours Faithfully.

Prof. Jamaluddin Maghrabi
AOC Incharge

Dr. Priyanka Salunkhe
HoD

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TERNA ENGINEERING COLLEGE, NERUL

Department of Civil Engineering

Department of Civil Engineering

ACADEMIC YEAR 2023 – 2024

1. Title of the course : Add on Course (Water Gems)
2. Objective of the course : To make student learn Water Gems which is required for analysis and dosign of water pipeline . This will be beneficial to student for their final year project.
3. Prerequisite : Basics of Water Supply Scheme
4. Beneficiary : Students and Faculties
5. Date & Duration of the course:. Throughout the Semester
6. No of hours required : 15 Hours
7. Internal Resources : Ritesh Tandekar
8. Internal Assessment : Assignment
9. Contents of the course : Enclosed
10. Credits / Certification : 75% attendance and scored above 50% in Practical Exam eligible for certification.
11. Venue : Offline

Prof. Ritesh Tandekar
Course Coordinator

Dr. Priyanka Salunkhe
HoD Dept. of Civil Engg

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2. About Institute

Terna Public Charitable Trust's Terna Engineering College is one of the well-known and premium technical institutions, Quality Management System and is among the top Colleges in Mumbai. It is located at Nerul, Navi Mumbai on a beautiful 3 acre campus. The institute is affiliated to University of Mumbai, approved by AICTE and accredited by National Board of Accreditation (NBA). This institution offers 7 UG, 4 PG and 3 PhD courses. Highest quality education is catered with curriculum extension by means of exceptional offerings like Engineering Products and Innovation Center (EPIC), Remote center of IIT Bombay which facilitates student / faculty members to interact with IIT professors through video conferencing, Industry Institute Interaction Cell, Electronics club (collaboration with 25 local electronics SMEs), e-Yantra Embedded Systems and Robotics Lab, Apple lab, Texas Instruments Lab. We are a diverse, talented community united by passion for learning and quest for more. Terna motivates students to make a difference in our campus, in the state, country and around the world.

2.1 About Department

The Department of Civil Engineering was established in the year 2017. The Mission of Department is to promote the disciplines of Planning, Design, Construction, Operation,

Maintenance and Research. It offers students technical knowledge with technique for better utilization of available resources and greater standardization of construction processes required by construction industry. We intend to develop students by giving training to make use of innovative design methods, techniques and practical implementation. Highly qualified and dedicated faculty are recruited and they are always on their toes to guide the students, forming the backbone of the department.

Key Features:

- Well Equipped Laboratories – Materials and Concrete Technology, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, Engineering Geology, CAD Laboratory, Surveying Laboratory, Hydraulics and Fluid Mechanics Laboratories
- Consultancy Services Offered and Fully Equipped With Major Facilities Like Fully Automatic Compression Testing Machine 2000 Kn (NABL Accredited), Fully Automatic Universal Testing Machine (UTM 100 Ton- NABL Accredited), Fully Automated Total Station for Professional Surveying
- Consultancy Services Offered for Non-Destructive Testing
- Faculties with Experience in Design and Execution of Residential, Commercial, Oil & Gas, Power Projects

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- Faculties with Experience in Research in the Field of Smart Materials & Smart Structures, Pavement Design & Analysis, Geotextile Materials for Soil Stabilization, Geotechnical Engineering, Remote Sensing & GIS
- Active Mentoring Processes for Continuous Assessment in Academics
- Learning Experience Through Active Consultancy Projects
- Industrial Visits-CIDCO, PWD, MMRDA, Rock Museum Nasik
- Internship for Students (With & Without Stipend)
- International Students Chapter Association & Merit Scholarships
- Expert Lectures by Industry Experts
- NPTEL Courses
- Skill Based, Project Based Learning, Interactive and Interest Based Core Domain Learning
- Patents, Designs and Copyright Development
- Achieved 100 % students intern during winter vacations (2019-2020) in renowned organizations like Airport Authority of India (AAI), Public Work Department (PWD), City and Industrial Development Corporation (CIDCO), Rashtriya Chemical Fertilizers (RCF), American Concrete Institute and so many.

3. About Course

An add-on course of basic training of Water Gems software has been introduced by the Department of Civil Engineering, Terna Engineering College, Navi Mumbai for B.E.(Civil) students. This course is beyond their regular syllabus. This will be beneficial to students for their project work and ready for industry. Duration of course will be10 hrs.

4. About Instructor

This course will be conducted by Prof. Ritesh Tandekar a faculty of TEC having 5 years teaching experience and Master in Environment Engineering and Prof Sonali Baviskar a faculty of TEC having 12 years teaching experience and Master in Environment Engineering, also pursuing Phd from IITB.

5. Course Scheme

The marking scheme of this course has been decided at the institute and the departmental level.

ADD ON COURSE:-Water Gems

Contact Hours: - 01 per week (Total 15)

Sem. : - VII

TW	PR	TOTAL
30	20	50

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6. Syllabus

Topic No.	Contents	Hours
1	Introduction and Software Installation	1
2	Basic Tools of Water Gems	1
3	Pipeline System	2
4	Town Planning on WaterGems AutoCAD	3
5	Design of Water Distribution System For Town	3
6	Design of Water Distribution System For Private and Public Building	5
	TOTAL	15

7. Course Objective and Course Outcome

After completion of course the student will be design water distribution network for a town

Course Objective

1. To provide basic knowledge of WaterGems Software in Civil Engineering.
2. To validate the software with Pipeline Design.
3. To understand and apply the basic functions of software.
4. To understand applications of water distribution systems.

Course Outcome

On completion of this course, the students will be able to:

CO1- To understand the functions involved in various software related to the civil engineering field.

CO2- To understand the various commands of software

CO3- To design the pipeline network for building.

CO4- To design the water distribution system for town.

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Program Outcome

PO 1: -Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2: - Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

PO 3: - Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4: - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5: - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6: - The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: - Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8: - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: - Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: - Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12: - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcome

PSO 1: - Graduates will be able to plan, analyse, design and drawing and estimate for residential, commercial, industrial and infrastructure projects.They will be able to work on site for supervision of various construction activities.

PSO 2: - Graduates will be able to use different software related to Civil Engineering for developing skills required by the industry.

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8. Mapping CO, PO and POS

Practical No.	Name of Experiment	CO	PO	PSO
1	Introduction and Software Installation	1	1,3,5,8,9,12	2
2	Basic Tools of Water Gems	1, 2	1,2,3,5,8,9,12	2
3	Pipeline System	3	1,2,3,5,8,9,12	2
4	Town Planning on WaterGems AutoCAD	1,3	1,2,3,5,8,9	2
5	Design of Water Distribution System For Town	3,4	1,2,3,5,8,9	2
6	Design of Water Distribution System For Private and Public Building	3,4	1,2,3,5,8,9	2

9. Schedule

TPCT's TERNA ENGINEERING COLLEGE
DEPARTMENT OF CIVIL ENGINEERING
Academic Time Table 2023-24 (SH-23) (RD)

RITESH TANDEKAR

Day/Time	9:00-10:00	10:00-11:00	11:15-12:15	12:15-1:15	1:15-1:45	1:45-2:45	2:45-3:45	3:45-4:45
MON	SWM RT R 211		TRE RT R 211		BREAK	TRE A2 RT R-207		
TUE	TRE A1 RT R-207		TRE A3 RT R-207					
WED	AOC-I A1 RT R-206		SWM RT R 211				TRE RT R 202	
THU		SWM RT R 203		AOC-I A3 RT R-206		TRE RT R 211		
FRI			TRE RT R 211			MINI PROJECT		

DEPT.TIME TABLE I/C | HOD | DEAN ACADEMICS | PRINCIPAL

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10. List of Students:

Sr. No.	Student Name	Sr. No.	Student Name
1	GHOLAP VAIBHAV LAHU	39	PATHAK AMAN RAVINDRA
2	BHOIR SANIKA SADANAND	40	LOKE NIMISH GANGARAM
3	GAWADE SAURABH KAILAS	41	SHELKE ROHIT SHRIMANT
4	SHAHASANE ADITYA PRAVIN	42	KADAM RUTIK PRAVIN
5	WALANJ PRATIK SANTOSH	43	GONDKE KOMAL SHASHIKANT
6	MUKHERJEE PRANJAL PARIJAT M	44	KHARAT TANISHQ SUDHAKAR KHARAT
7	KILLEDAR ANURUP ANIL	45	KHANDEKAR MANSI DILIP
8	MHATRE SHARV SANTOSH	46	PATIL TANISHQ SOMNATH
9	KHEDKAR PRANAV PRAVIN	47	HOTKAR AKSHATA JAYSING
10	PATIL SAHIL RAVINDRA	48	MAHADIK SAHIL RAJESH
11	VINOY VISMAY LUKOSE	49	SINGH SAHIL DEEPRAJ
12	WAGHMARE NILESH BABURAO	50	PATEL PALASH DIPEN
13	MOHITE RUSHIKESH JALINDER	51	DONGRE HRISHIKESH
14	MALI SRUSHTI SHIVAJI	52	DUDUKA BRIJESH
15	SURYAWANSHI TEJAS DILIP	53	JADHAV ADITYA
16	PATIL SUMIT DINESH	54	LAWANE KESHAR
17	BHUSARA DIGVIJAY DASHRATH	55	BEDEKAR ROHIT
18	GAWALI PRATHAMESH PRADEEP	56	PAWAR SAHIL
19	CHAUDHARI HASMITA GANGA	57	WAYAL SAHIL
20	BHUSARA ANJALI SUNIL	58	PARAB ROHAN
21	BHOSALE YASH SANJAY	59	SAWANT KRUTIKA
22	KOPPULA ASHOK SATISH	60	POMENDKAR SHIVANI
23	AMBRE ANURAG SANJAY	61	NAGOTHANEKAR ABHAY
24	CHOUGULE PARTH VINOD	62	THIKDE MILIND
25	RAJPUT UDAYRAJSING JASWANTSING	63	DUBEY SATYAJEET
26	GHAWARE SAMBODH SHRIKANT	64	SIDDAMAL KARTIK
27	DABHADE VIJAY SANJAY	65	MALVANI YOGESH
28	PRASAD SHUBHAM SURESHKUMAR	66	PAWAR TEJASHREE
29	KEDARI ADITYA MANGESH	67	GAIKAR KAJAL
30	CHAVAN AISHWARYA FATTESING	68	GHARAT SIDDHI
31	MANE SAKSHI RAJU	69	PHADTARE SHUBHANGI
32	KOLI SAGARIKA NITIN	70	PANPALIYA KAUSTUBH
33	BADGUJAR KALPESH RAJENDRA	71	CHAVAN SHWETA
34	CHAKOR SHUBHAM RAMKRUSHN	72	MATEKAR ROHIT
35	PATIL DHANSHREE VIKAS PATIL	73	GAIKWAD PRATIK
36	DHANSAY ZAID ZAFARULLAH	74	TADVI SHOAIB
37	MHATRE SAHIL ANANTA	75	JADHAV SAKSHI
38	SINGH ANKIT RAJ ASHOK	76	KASBE DHANANJAY MAHADEV
		77	Wani Junaid

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11. Attendance

Department of Civil Engineering

Bachelor Year Engineering (SEM VII)

Academic Year 2023 - 2024 (SH-23)

BE (SEM VII)

Name of Subject: AOC II Primavera

Faculty Name: Poonam Patil

Roll No.	Student Name
A1	[illegible]
A02	BHOIR SANIKA SADANAND
A03	GAWADE [illegible]
A04	CHAWASANE ADITYA
A05	[illegible] PRATIK SANTOSH
A06	[illegible] PRANJAL
A07	KULEDAR ANURUP ANIL
A08	MHATRE CHARU SANTOSH
A09	KHEDKAR PRANAV PRAVIN
A10	PATIL SAHIL RAVINDRA
A11	[illegible]
A12	WAGHMARE NILESH
A13	MOHITE RUSHIKESH
A14	[illegible] SHIVAJI
A15	SURYAWANSHI TEJAS DILIP
A16	PATIL SUMIT DINESH
A17	[illegible] DIGVIJAY
A18	CHAUDHARI HASMITA
A20	[illegible] ANJALI SUNIL
A22	KOPPULA ASHOK SATISH
A23	[illegible] ANURAG SANJAY
A24	CHOUGULE PARTH VINOD
A27	DABHADE VIJAY SANJAY
A28	PRASAD SHUBHAM
A29	KEDARI ADITYA MANGESH
A30	CHAVAN AISHWARYA
A31	MANE SAKSHI RAJU
A32	KOLI SAGAR [illegible]
A33	BADGUJAR KALPESH

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A34	CHAVAN SHUBHAM																
A35	PATIL DHANASHREE VIKAS																
A36	SHAIKH ZAID ZAFARULLAH																
A37	MHATRE SAHIL MANTA																
A38	SINGH ANKIT RAJ ASHOK																
A39	PATHAK AMAN RAJENDRA																
A40	LOKE NIMESH SANJAY																
A41	SHELKE ROHIT BHAGWAT																
A43	SONDKE KOMAL																
A44	KHARATMAL SHRADDHA [illegible]																
A45	KHADSEKAR VINAY DILIP																
A47	PATIL TANISHQ SOMNATH																
A48	KOTKAR AKSHATA JAYSING																
A49	MAHADIK SAHIL RAJESH																
A50	SINGH SAHIL DEEPRAJ																
A51	PATEL PALASH DIPEN																
	A3 Dates →	17/7	23/7	3/8	10/8	24/8	31/8	8/9	16/9	5/10	7/10	12/10	[illegible]	[illegible]	[illegible]	[illegible]	
A52	DONGRE HRISHIKESH																
A53	DUDUKA BRIJESH																
A54	JADHAV ADITYA																
A55	LAWANE YESHAR																
A56	BEDEKAR ROHIT																
A57	PAWAR SAHIL																
A58	NAYAL SAHIL																
A59	PARAB ROHAN RAJAN																
A60	SAWANT ANKITA																
A61	POKHEDKAR SHIVAM																
A62	NAGOTHANEKAR ABHAY																
A64	DUBEY SATYAJEET																
A65	SIDDAMAL KARTIK																
A66	WALVAN YOGESH																
A67	PAWAR TEJASHREE																
A68	BAKAR KAJAL																
A69	BHARAT SIDDHI																
A70	PHADTARE SHUBHANGI																
A72	CHAVAN SHWETA																
A73	MATEKAR ROHIT																
A76	JADHAV SAKSHI																
A77	KASBE DHANANJAY MAHADEV																
A78	KHAN JUNAID																

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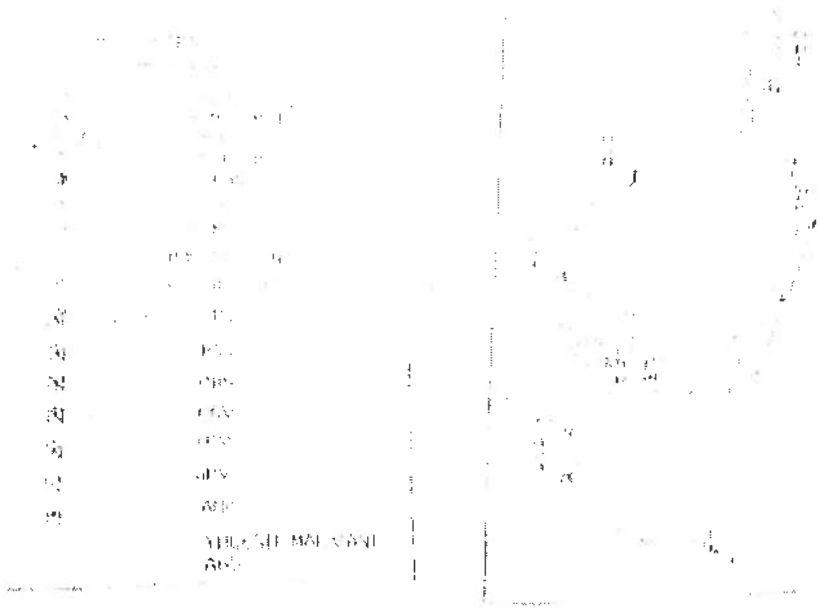
12. Assignments

12.1 Assignment No.1

Draw the basic pipeline system with the help of all basic tools of WaterGems

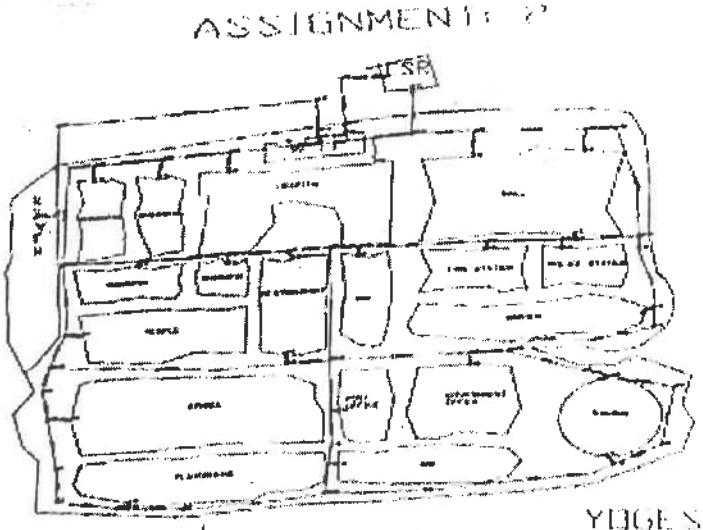
12.2 Sample Submission of Assignment No. 1



12.3 Assignment No. 2

Design the water Distribution System for Town

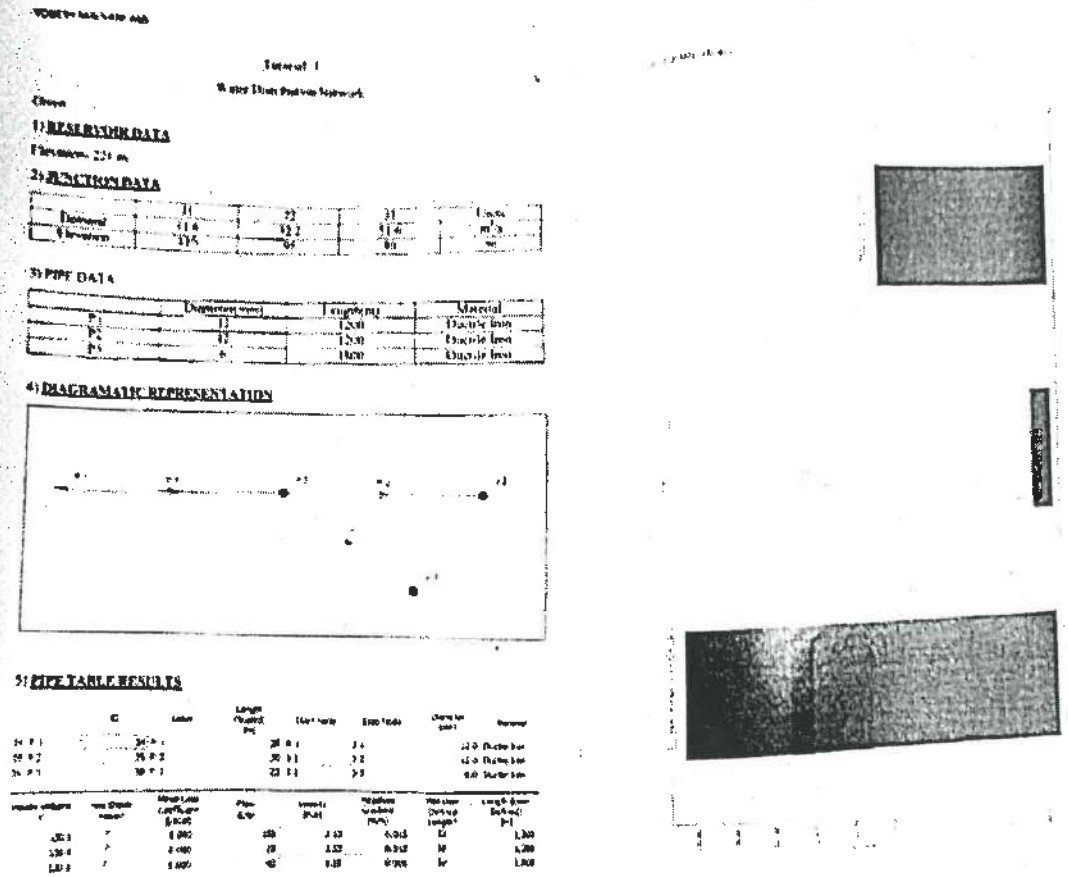
12.4 Sample Submission of Assignment No. 2

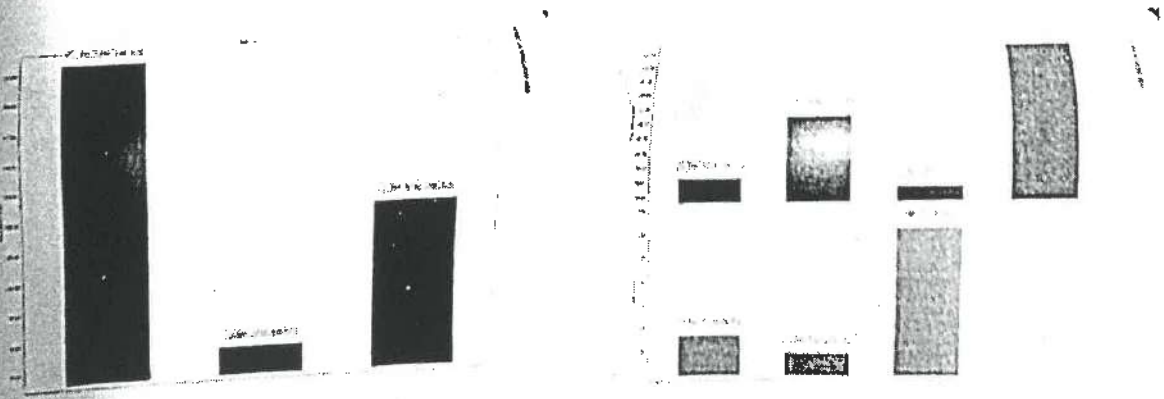


12.5 Tutorial

Design the water Distribution System for Privet or Public Building.

12.6 Sample Submission of Assignment No. 4





13. Rubrics for Evaluation TW

Assignments 30 marks

10 marks for each assignment is divided under following heads

	Head	Marks
1	Report	: 4
2	On time submission	: 3
3	Viva	: 3

Attendance

	Head
1	**91% onwards**
2	**81%- 90%**
3	**75%- 80%**

Credits / Certification : Those who have 75% attendance and scored above 50% in practical are eligible for certification.

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Evaluation of TW & PR

Term work was assessed based on Assignment submission as per Rubrics mentioned above. Practical examination was carried out based on the types of Assignment questions. The marks obtained by students in TW & PR are as follows

Sr. No	Student Name	TW	PR	Total
		30	20	
1	GHOLAP VAIBHAV LAHU	12	14	26
2	BHOIR SANIKA SADANAND	13	14	27
3	GAWADE SAURABH KAILAS	12	14	26
4	SHAHASANE ADITYA PRAVIN	12	15	27
5	WALANJ PRATIK SANTOSH	13	13	26
6	MUKHERJEE PRANJAL PARIJAT M	27	19	46
7	KILLEDAR ANURUP ANIL	14	15	29
8	MHATRE SHARV SANTOSH	15	15	30
9	KHEDKAR PRANAV PRAVIN	27	18	45
10	PATIL SAHIL RAVINDRA	12	12	24
11	VINOY VISMAY LUKOSE	28	18	46
12	WAGHMARE NILESH BABURAO	27	18	45
13	MOHITE RUSHIKESH JALINDER	14	14	28
14	MALI SRUSHTI SHIVAJI	13	14	27
15	SURYAWANSHI TEJAS DILIP	12	12	24
16	PATIL SUMIT DINESH	12	12	24
17	BHUSARA DIGVIJAY DASHRATH	28	18	46
18	GAWALI PRATHAMESH PRADEEP	0	0	0
19	CHAUDHARI HASMITA GANGA	26	17	43
20	BHUSARA ANJALI SUNIL	13	15	28
21	BHOSALE YASH SANJAY	0	0	0
22	KOPPULA ASHOK SATISH	12	14	26
23	AMBRE ANURAG SANJAY	13	13	26
24	CHOUGULE PARTH VINOD	12	12	24
25	RAJPUT UDAYRAJSING JASWANTSING	0	0	0
26	GHAWARE SAMBODH SHRIKANT	0	0	0
27	DABHADE VIJAY SANJAY	21	11	32
28	PRASAD SHUBHAM SURESHKUMAR	29	12	41
29	KEDARI ADITYA MANGESH	25	12	37
30	CHAVAN AISHWARYA FATTESING	28	12	40
31	MANE SAKSHI RAJU	28	12	40
32	KOLI SAGARIKA NITIN	29	12	41
33	BADGUJAR KALPESH RAJENDRA	19	15	34
34	CHAKOR SHUBHAM RAMKRUSHN	12	15	27
35	PATIL DHANSHREE VIKAS PATIL	14	12	26
36	DHANSAY ZAID ZAFARULLAH	19	10	29

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37	MHATRE SAHIL ANANTA	19	12	31
38	SINGH ANKIT RAJ ASHOK	12	10	22
39	PATHAK AMAN RAVINDRA	28	12	40
40	LOKE NIMISH GANGARAM	14	10	24
41	SHELKE ROHIT SHRIMANT	25	10	35
42	KADAM RHITIK PRAVIN	0	0	0
43	GONDKE KOMAL SHASHIKANT	29	12	41
44	KHARAT TANISHQ SUDHAKAR KHARAT	21	8	29
45	KHANDEKAR MANSI DILIP	25	12	37
46	PATIL TANISHQ SOMNATH	12	9	21
47	HOTKAR AKSHATA JAYSING	21	9	30
48	MAHADIK SAHIL RAJESH	12	14	26
49	SINGH SAHIL DEEPRAJ	12	14	26
50	PATEL PALASH DIPEN	29	15	44
51	DONGRE HRISHIKESH	29	18	47
52	DUDUKA BRIJESH	25	17	42
53	JADHAV ADITYA	21	15	36
54	LAWANE KESHAR	19	14	33
55	BEDEKAR ROHIT	29	20	49
56	PAWAR SAHIL	13	13	26
57	WAYAL SAHIL	29	19	48
58	PARAB ROHAN	29	20	49
59	SAWANT KRUTIKA	29	20	49
60	POMENDKAR SHIVANI	18	17	35
61	NAGOTHANEKAR ABHAY	12	12	24
62	THIKDE MILIND	0	0	0
63	DUBEY SATYAJEET	12	12	24
64	SIDDAMAL KARTIK	24	19	43
65	MALVANI YOGESH	28	20	48
66	PAWAR TEJASHREE	28	19	47
67	GAIKAR KAJAL	24	19	43
68	GHARAT SIDDHI	21	18	39
69	PHADTARE SHUBHANGI	28	19	47
70	PANPALIYA KAUSTUBH	0	0	0
71	CHAVAN SHWETA	28	20	48
72	MATEKAR ROHIT	26	19	45
73	GAIKWAD PRATIK	0	0	0
74	TADVI SHOAIB	0	0	0
75	JADHAV SAKSHI	15	18	33
76	KASABE DHANAJAY	12	12	24
77	WANI JUNAID	12	12	24

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14. Results

Sr. No	Student Name	QUALIFICATION
1	GHOLAP VAIBHAV LATE	Qualified
2	BHOIR SANIKA SADANAND	Qualified
3	GAWADE SAURABH KAILAS	Qualified
4	SHAHASANE ADITYA PRAVIN	Qualified
5	WALAVI PRATIK SANTOSH	Qualified
6	MUKHERJEE PRANJAL PARIMAL M	Qualified
7	KULKARNI ANIRUDH ANIL	Qualified
8	MHATRE SHARV SANTOSH	Qualified
9	KHEDKAR PRANAV PRAVIN	Qualified
10	PATIL SAHIL RAVINDRA	Not-Qualified
11	VINOY VISMAY LUKOSE	Qualified
12	WAGHMARE NILESH BABURAO	Qualified
13	MOHITE RUSHIKESH JALINDER	Qualified
14	MALI SRUSHTI SHIVAJI	Qualified
15	SURYAWANSHI TEJAS DILIP	Not-Qualified
16	PATIL SUMIT DINESH	Not-Qualified
17	BHUSARA DIGVIJAY DASHRATH	Qualified
18	GAWALI PRATHAMESH PRADEEP	Not-Qualified
19	CHAUDHARI HASMITA GANGA	Qualified
20	BHUSARA ANJALI SUNIL	Qualified
21	BHOSALE YASH SANJAY	Not-Qualified
22	KOPPULA ASHOK SATISH	Qualified
23	AMBRE ANURAG SANJAY	Qualified
24	CHOUGULE PARTH VINOD	Not-Qualified
25	RAJPUT UDAYRAJSING JASWANTSING	Not-Qualified
26	GHAWARE SAMBODH SHRIKANT	Not-Qualified
27	DABHADE VIJAY SANJAY	Qualified
28	PRASAD SHUBHAM SURESHKUMAR	Qualified
29	KEDARI ADITYA MANGESH	Qualified
30	CHAVAN AISHWARYA FATTESING	Qualified
31	MANE SAKSHI RAJU	Qualified
32	KOLI SAGARIKA NITIN	Qualified
33	BADGUJAR KALPESH RAJENDRA	Qualified
34	CHAKOR SHUBHAM RAMKRUSHN	Qualified
35	PATIL DHANSHREE VIKAS PATIL	Qualified
36	DHANSAY ZAID ZAFARULLAH	Qualified
37	MHATRE SAHIL ANANTA	Qualified
38	SINGH ANKIT RAJ ASHOK	Not-Qualified
39	PATHAK AMAN RAVINDRA	Qualified
40	LOKE NIMISH GANGARAM	Not-Qualified
41	SHELKE ROHIT SHRIMANT	Qualified

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42	KADAM RHITIK PRAVIN	Not-Qualified
43	GONDKE KOMAL SHASHIKANT	Qualified
44	KHARAT TANISHQ SUDHAKAR KHARAT	Qualified
45	KHANDEKAR MANSI DILIP	Qualified
46	PATIL TANISHQ SOMNATH	Not-Qualified
47	HOTKAR AKSHATA JAYSING	Qualified
48	MAHADIK SAHIL RAJESH	Qualified
49	SINGH SAHIL DEEPRAJ	Qualified
50	PATEL PALASH DIPEN	Qualified
51	DONGRE HRISHIKESH	Qualified
52	DUDUKA BRIJESH	Qualified
53	JADHAV ADITYA	Qualified
54	LAWANE KESHAR	Qualified
55	BEDEKAR ROHIT	Qualified
56	PAWAR SAHIL	Qualified
57	WAYAL SAHIL	Qualified
58	PARAB ROHAN	Qualified
59	SAWANT KRUTIKA	Qualified
60	POMENDKAR SHIVANI	Qualified
61	NAGOTHANEKAR ABHAY	Not-Qualified
62	THIKDE MILIND	Not-Qualified
63	DUBEY SATYAJEET	Not-Qualified
64	SIDDAMAL KARTIK	Qualified
65	MALVANI YOGESH	Qualified
66	PAWAR TEJASHREE	Qualified
67	GAIKAR KAJAL	Qualified
68	GHARAT SIDDHI	Qualified
69	PHADTARE SHUBHANGI	Qualified
70	PANPALIYA KAUSTUBH	Not-Qualified
71	CHAVAN SHWETA	Qualified
72	MATEKAR ROHIT	Qualified
73	GAIKWAD PRATIK	Not-Qualified
74	TADVI SHOAIB	Not-Qualified
75	JADHAV SAKSHI	Qualified
76	KASABE DHANAJAY	Not-Qualified
77	WANI JUNAID	Not-Qualified

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15. Feedback

https://docs.google.com/forms/d/e/1FAIpQLSfb0-8uWiPGDeuell3tnDuB41XZjqcPkgvbcclthoO7wVdAw/viewform?usp=sf_link

ADD ON COURSE-I (Water Gems) SH-23

This form is for collecting feedback for the skill based training program conducted by the Civil Engineering Department from July 23 to October 23. Students should give a genuine feedback

* Indicates required question

1. Email ID *

2. Name of Student *

3. Class Roll NO. *

4. Tu Number *

5. Batch *

Mark only one oval.

- A1
- A2
- A3

https://docs.google.com/forms/d/1QvsB15R6IVG9cnUpcKnQBU72rP8OxOMa-IVnKrB_Ye4/edit

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6. Do you feel Water Gems ADD ON COURSE was beneficial for you? *

Mark only one oval.

- YES
- NO

7. How was the curriculum of the Water Gems AOC program? Did it cover sufficient usage of the software?

Mark only one oval.

- EXCELLENT
- VERY GOOD
- GOOD
- FAIR
- POOR

8. Was the Water Gems curriculum completed as planned? *

Mark only one oval.

- YES
- NO

9. Did the Water Gems course was helpful for understanding construction engineering and management?

Mark only one oval.

- YES
- NO

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10. Were your queries resolved *

Mark only one oval.

- YES
- NO

11. Were you able to practice along with the instructor? *

Mark only one oval.

- YES
- NO

12. How would you rate the course content in terms of being easy to follow?

Mark only one oval.

- EXCELLENT
- VERY GOOD
- GOOD
- FAIR
- POOR

13. How would you rate the trainer for the Water Gems course? *

Mark only one oval.

- EXCELLENT
- VERY GOOD
- GOOD
- FAIR
- POOR

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14. How was your overall experience with the add on course (Water Gems)? *

Mark only one oval.

- EXCELLENT
- VERY GOOD
- GOOD
- FAIR
- POOR

15. Do you have any suggestion or feedback for us?

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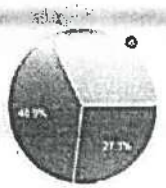
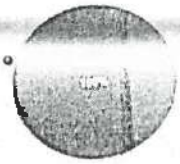
Batch

44 responses



Did you feel Water Gems AOC ON COURSE was [illegible]

44 responses

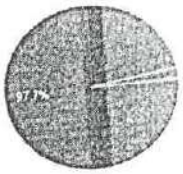


How was the curriculum of the Water Gems AOC program? Did it cover sufficient usage of the software?

44 responses

Was the Water Gems curriculum completed as planned?

44 responses

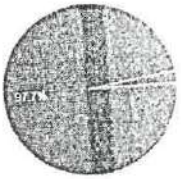


Did the Water Gems course was helpful for understanding construction engineering and management?

44 responses

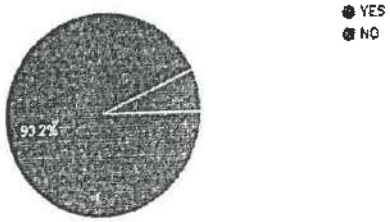
Were your queries resolved

44 responses



Were you able to practice along with the instructor?

44 responses



How would you rate the course content in terms of being easy to follow?

44 responses

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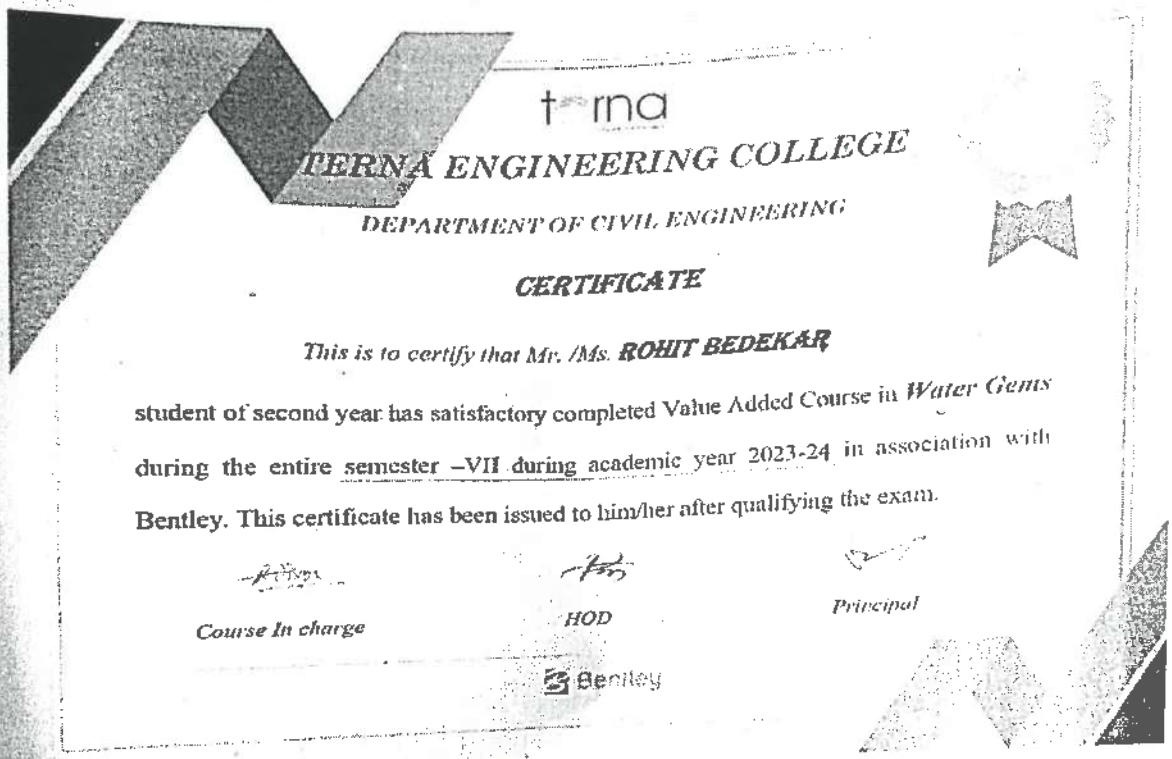
How would you rate the trainer for the Water Gems course?

16. Certificates



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TERNA ENGINEERING COLLEGE

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **ROHIT BEDEKAR**

student of second year has satisfactory completed Value Added Course in *Water Gems* during the entire semester –VII during academic year 2023-24 in association with Bentley. This certificate has been issued to him/her after qualifying the exam.

Course In charge *HOD* *Principal*

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. **KRUTIKA SAWANT**

student of second year has satisfactory completed Value Added Course in *Water Gems* during the entire semester VII during academic year 2023-24 in association with Bentley. This certificate has been issued to him/her after qualifying the exam.

Course In charge | *HOD* | *Principal*

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **YOGESH MALWANI**

student of second year has satisfactory completed Value Added Course in *Water Gems* during the entire semester -VII during academic year 2023-24 in association with Bentley. This certificate has been issued to him/her after qualifying the exam.

Course In charge | *HOD* | *Principal*

tma

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **VIJAY DABADE**

student of second year has satisfactory completed Value Added Course in *Water Gems* during the entire semester VII during academic year 2023-24 in association with Bentley. This certificate has been issued to him/her after qualifying the exam.

Course In charge | *HOD* | *Principal*

Prof. Ritesh Tandekar
Course in charge

Dr. Priyanka Salunkhe
HOD, Dept. of Civil Engineering

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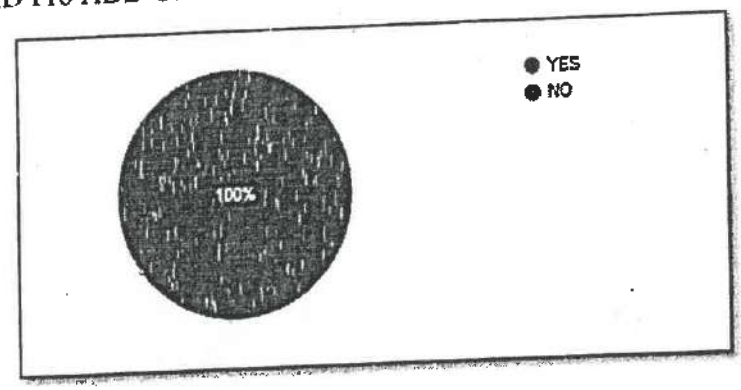
How would you rate the trainer for the STAAD Pro course? *

- EXCELLENT
- VERY GOOD
- GOOD
- FAIR
- POOR

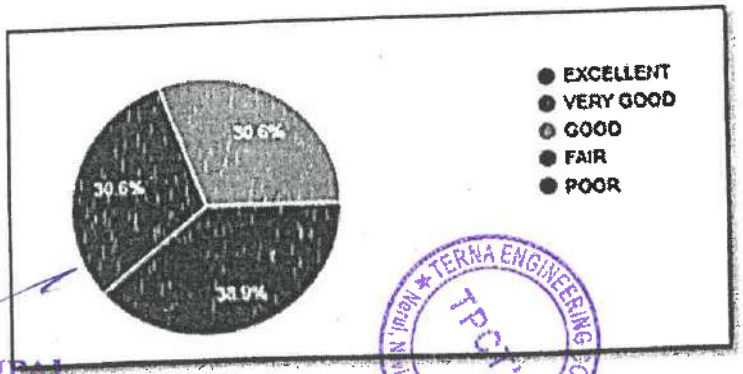
How was your overall experience with the add on course (Basics of STAAD Pro) ? *

- EXCELLENT
- VERY GOOD
- GOOD
- FAIR
- POOR

Do you feel STAAD Pro ADD ON COURSE was beneficial for you?



How was the curriculum of the STAAD Pro AOC program? Did it cover sufficient usage of the software



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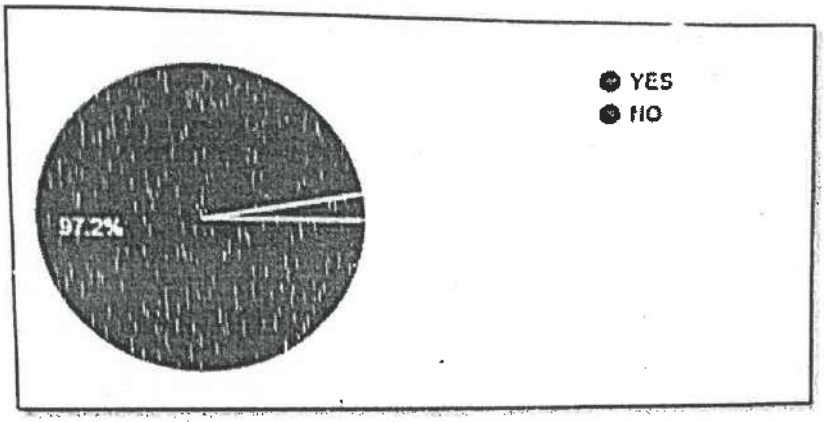
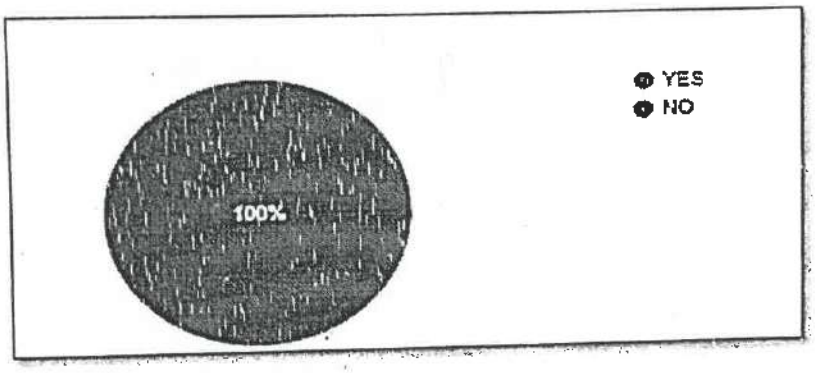
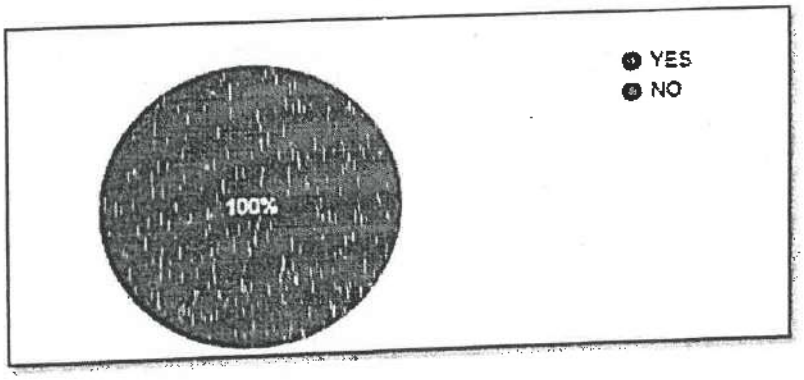
as the STAAD Pro curriculum completed as planned?



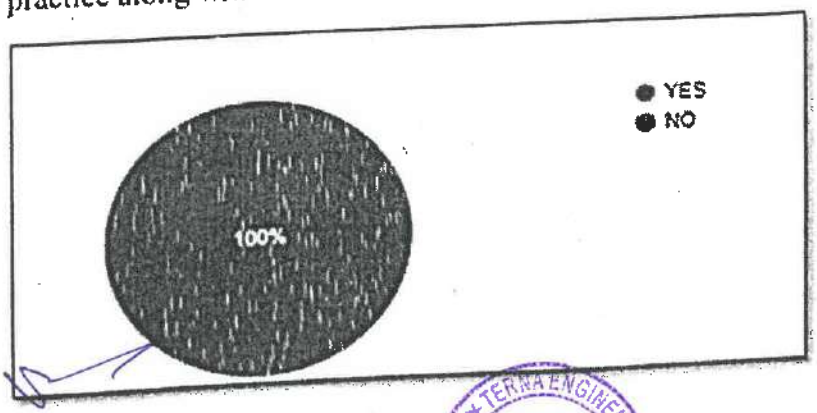
Did the STAAD pro course was helpful for understanding structural Engineering



Were your queries resolved



Were you able to practice along with the instructor?



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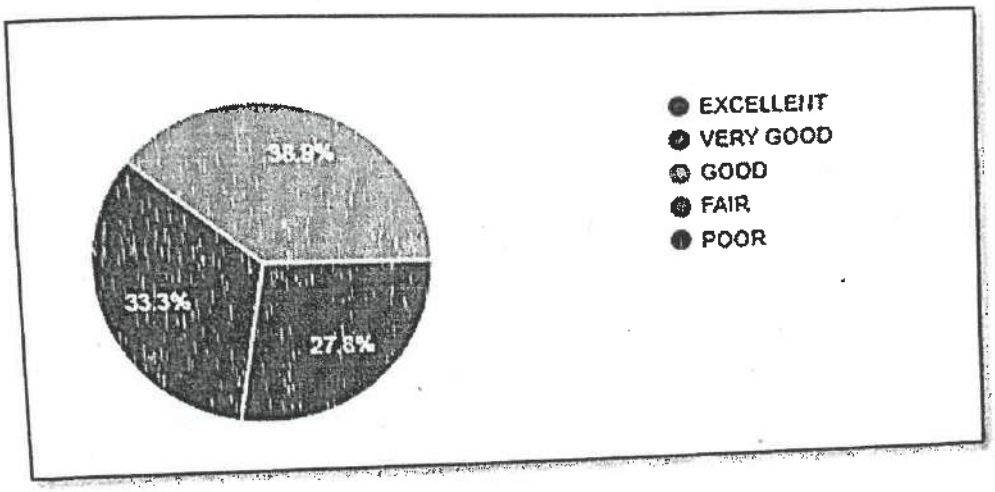
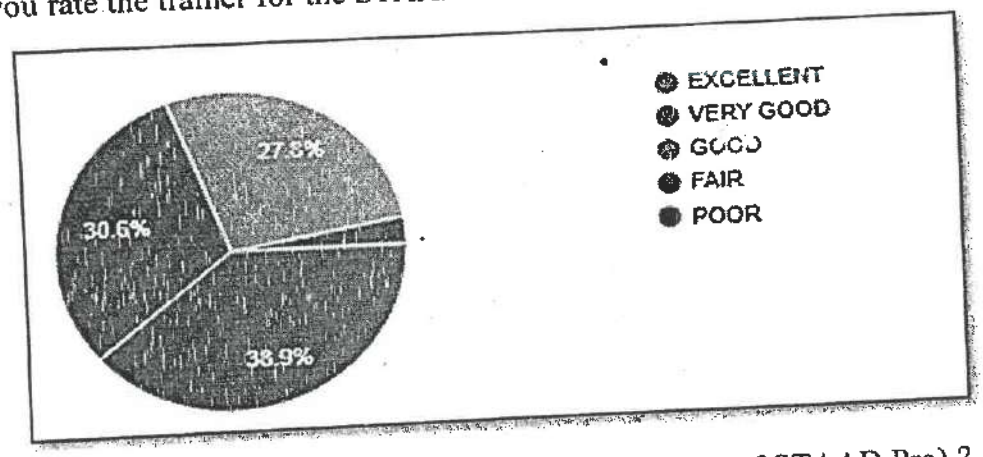
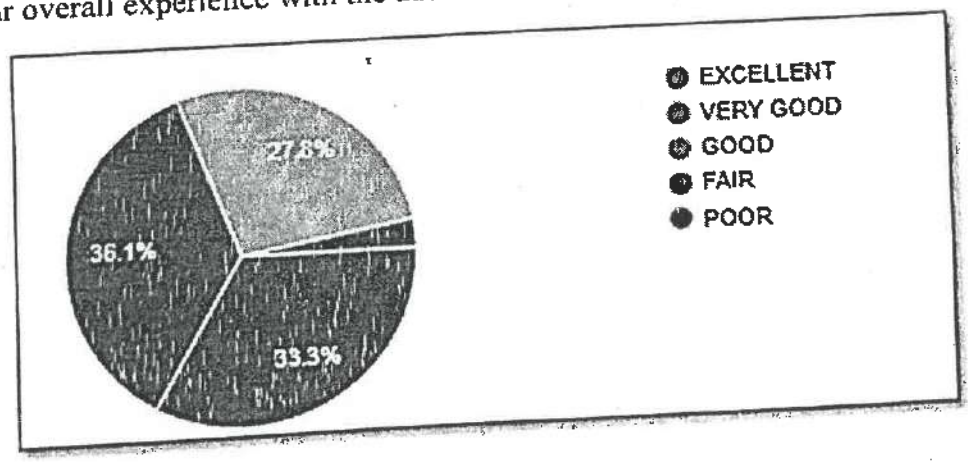
ow would you rate the course content in terms of being easy to follow?



How would you rate the trainer for the STAAD Pro course?



How was your overall experience with the add on course (Basics of STAAD Pro) ?



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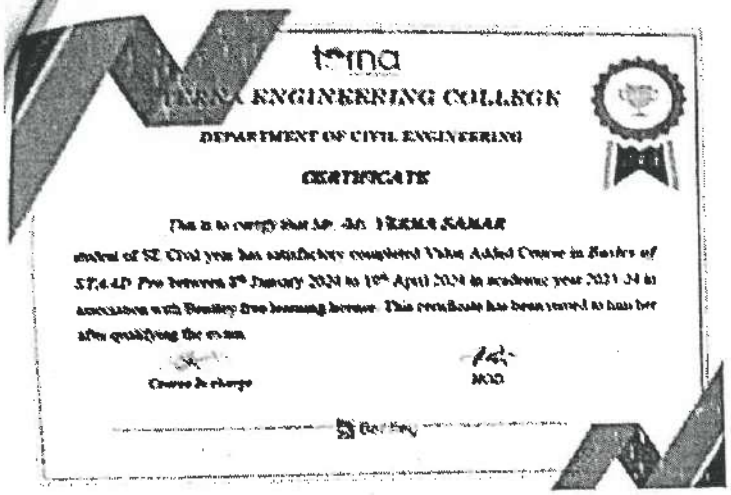

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TERNA ENGINEERING COLLEGE

DEPARTMENT OF CIVIL ENGINEERING

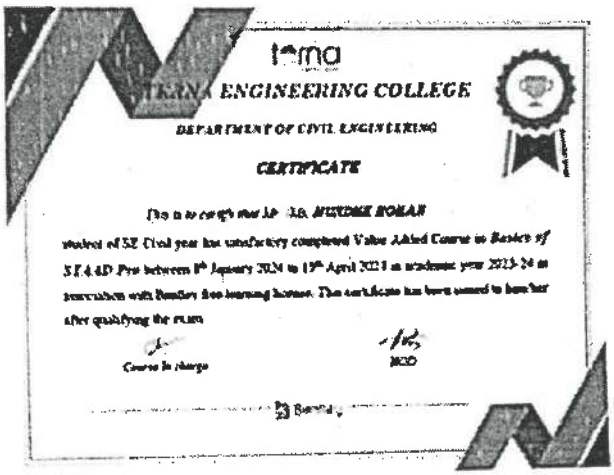
CERTIFICATE

This is to certify that Mr. /Ms. TEKAM SAMAR

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley



terna

TERNA ENGINEERING COLLEGE

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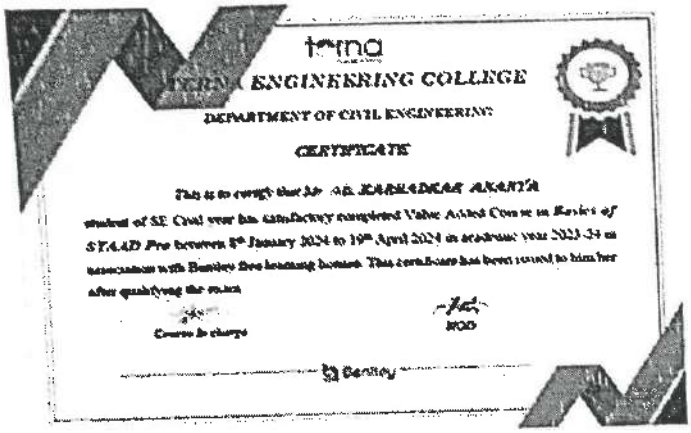
CERTIFICATE

This is to certify that Mr. /Ms. *MUZUMIL MOMAN*

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley



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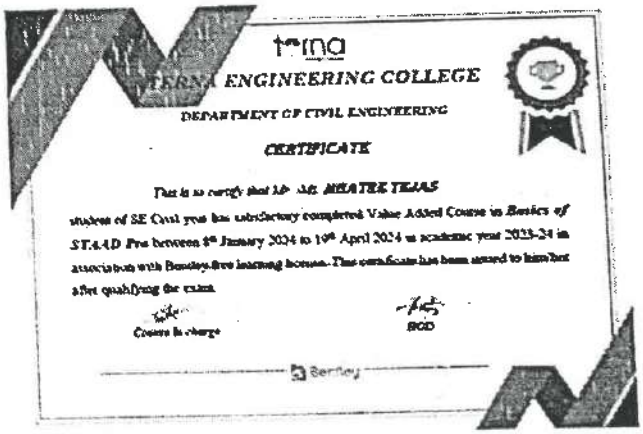
CERTIFICATE

This is to certify that Mr. /Ms. *KAMLAKAR ANANYA*

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley



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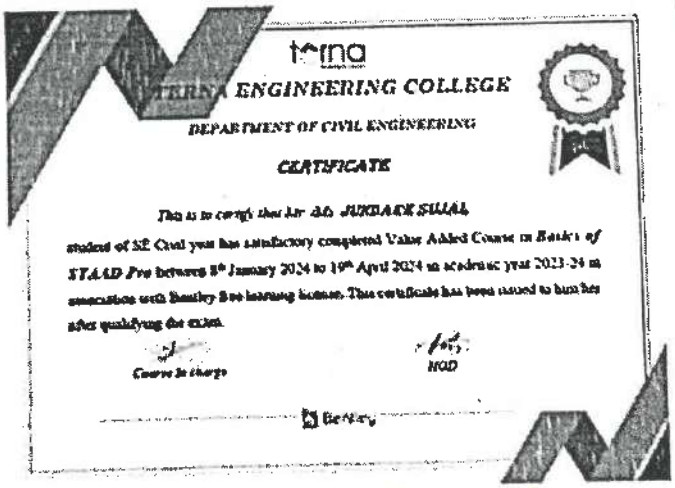
CERTIFICATE

This is to certify that Mr. /Ms. *MHATRE TEJAS*

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley



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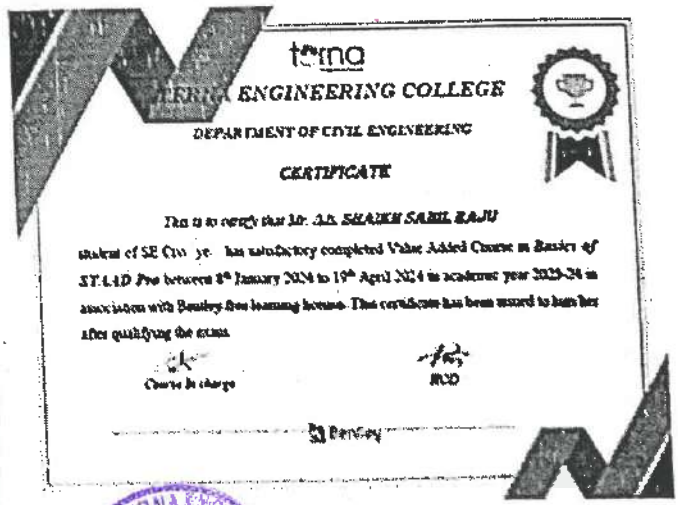
CERTIFICATE

This is to certify that Mr. /Ms. *JUNDARE SUJAL*

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley



terna

TERNA ENGINEERING COLLEGE

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. *SHAIKH SAHIL BAJU*

student of SE Civ ye has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **THAKUR HIMANSHU**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **ELEGAN SARVESH**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. **MADAGHANE SHARWARI**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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CERTIFICATE

This is to certify that Mr. /Ms. **DESAI ANIRUDDHA AJIT**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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CERTIFICATE

This is to certify that Mr. /Ms. **MALAP AYUSH BHAGWAN**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. **PALVE PRATAP SHAMRAO**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **DESHMUKH PRATIK PRATAP**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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CERTIFICATE

This is to certify that Mr. /Ms. **MAKHIJA MOHNISH SANDEEP**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license.-This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. **PARKAR TANVI VINAYAK**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license.-This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. **KURHADE CHAITALI**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license.-This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. **PASHTE VIRAJ RAVINDRA**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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CERTIFICATE

This is to certify that Mr. /Ms. **GHADAGE PREM PRATAP**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **KUNTHEKAR AADITYA SANJAY**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **RAUT SAURABH VIKAS**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. **PANVALKAR HIRAD SUDARSHAN**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. **SABLE PRIYANSH VASUDAN**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. **CHAVAN VARUNRAJ BALU**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **GANGURDE CHAITANYA MAHESH**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **QURESHI MD RAZA FIROZ**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **TAKALE RUPALI DHULA**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. **RAMBLE OM SATISH**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. **TUPE SHUBHAM RAKESH**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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CERTIFICATE

This is to certify that Mr. /Ms. **SHINDE RUCHA RAMESH**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

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Nerul, Navi Mumbai - 400 706

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **CHANDAWALE ADITYA VIJAY**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

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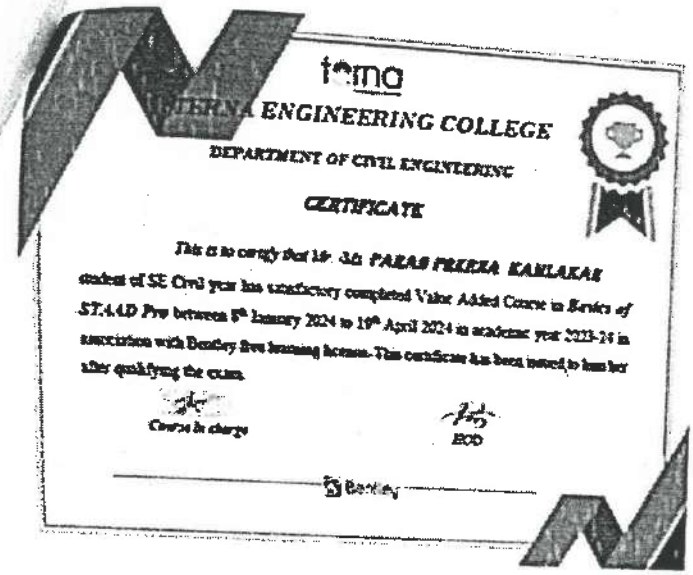

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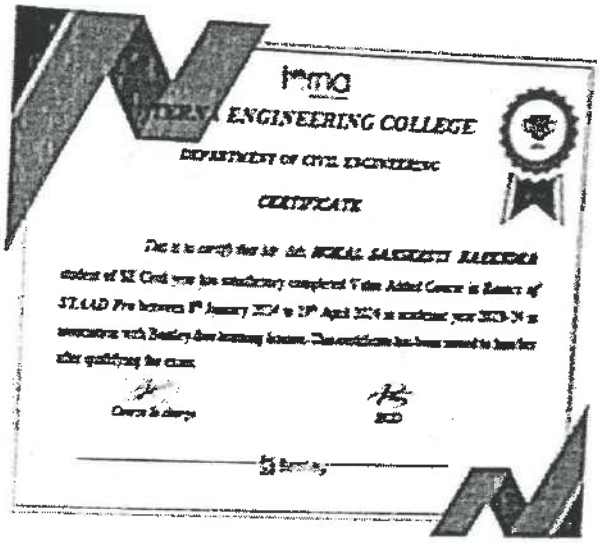
DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. Ms. PARAB PRERNA RAHLAKAR student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley



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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. Ms. MORAL SANGEETA RAJENDRA student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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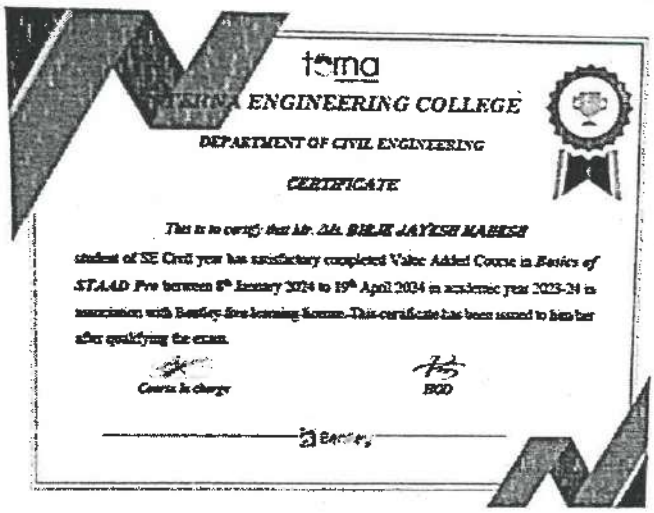

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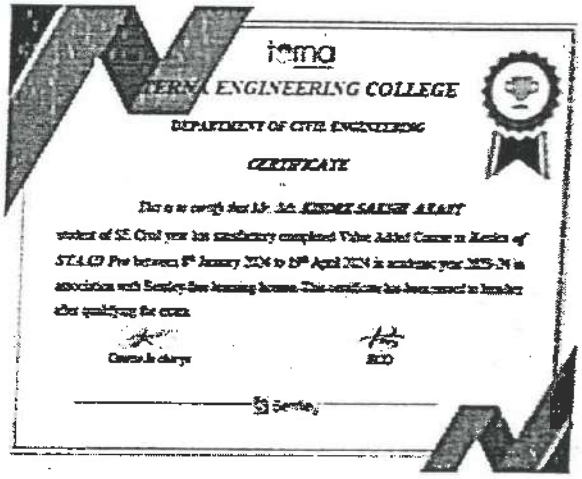
DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. Ms. BHAK JAYESH MAHESH student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley



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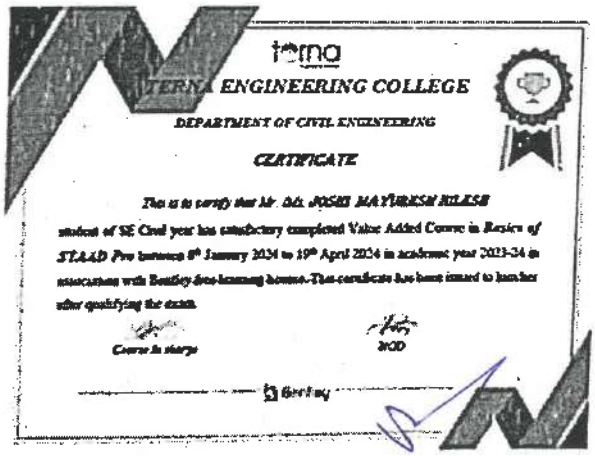
DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. Ms. KINDRE SAKSHI AMAIT student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley



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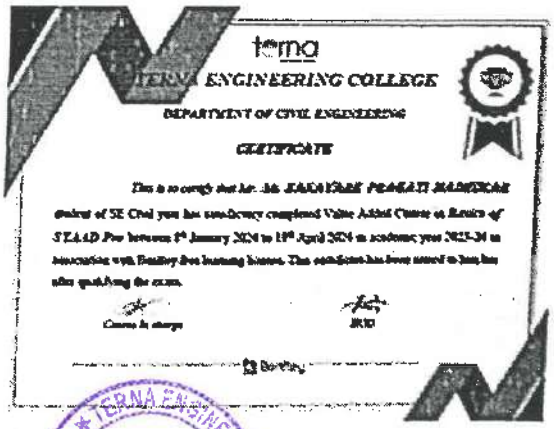
CERTIFICATE

This is to certify that Mr. Ms. JOSHI MAYURESH BILASH student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley



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CERTIFICATE

This is to certify that Mr. Ms. KADAVARE PRAKATI MANOHAR student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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Sector, Nerul, Navi Mumbai - 400 706

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. SHINDE TRUPTI ANIL

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. KOLI ARUSHA RAJESH

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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CERTIFICATE

This is to certify that Mr. /Ms. JUVALE KUNAL RAKESH

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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CERTIFICATE

This is to certify that Mr. /Ms. SALUNKHE SOHAM KRISHNA

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

Bentley

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CERTIFICATE

This is to certify that Mr. /Ms. SHEALE KOMAL SANJAY

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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CERTIFICATE

This is to certify that Mr. /Ms. PATIL SHANTANU VIKAS

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. Ms. **KHATU SIDDHANT SACHIN**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. Ms. **KARAP VIDHITI BARABANKO**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. Ms. **KETAKE PREM KUNDALIK**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

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CERTIFICATE

This is to certify that Mr. Ms. **DHOBALE KRUSHIKESH SUBHASH**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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CERTIFICATE

This is to certify that Mr. Ms. **SHIRKE BHOOMI SANTOSH**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. Ms. **PATIL KSHITIJ UMESH**

student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

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CERTIFICATE

This is to certify that Mr. /Ms. WARDE VAIBHAVI RAKESH student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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CERTIFICATE

This is to certify that Mr. /Ms. WAJEE YASH YOGESH student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

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CERTIFICATE

This is to certify that Mr. /Ms. PATIL SAHIL PRALHAD student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

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CERTIFICATE

This is to certify that Mr. /Ms. GURAV PRATIK SHASHIKANT student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. SANKLE HIMANSHU MANGESH student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. DESAI VAISHNAVI BALKRISHNA student of SE Civil year has satisfactory completed Value Added Course in *Basics of STAAD Pro* between 8th January 2024 to 19th April 2024 in academic year 2023-24 in association with Bentley free learning license. This certificate has been issued to him/her after qualifying the exam.

Course In charge HOD

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Mr. Pradip Sonawane
Course in charge

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Nerul, Navi Mumbai - 400 706

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Dr. Priyanka Salunkhe
HoD

NPTEL-AICTE
Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to

DR KISHOR SHAMRAO SAKURE

for successfully completing the course

Management Information System

with a consolidated score of **79** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

PRINCIPAL
TERNA ENGINEERING COLLEGE
Nerul, Navi Mumbai - 400 706

(Jul-Oct 2023)

Roll No: NPTEL23MG87S742300399

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

TERNA PUBLIC CHARITABLE TRUST'S

TERNA ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to University of Mumbai)

Plot No. 12, Sector 22, Opposite Railway Station, Nerul (W), Navi Mumbai- 400706. Ph. +91 22 61115444, Fax No.+91 22 61115400
Web :https://ternaengg.ac.in/

Report on

Basics of PLC& HMI Programming, 3-D Simulation, IoT, Hands-on-Programming on PLC

Enrolled Students

B.E. Mechatronics Engineering

Academic Year:

2023-2024

Organized by

Mechatronics Engineering Department

&

Absolute Motions Pvt Ltd, Thane

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CONTENT

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TERNA ENGINEERING COLLEGE * TPCT's * Nerul, Navi Mumbai - 400706

1. Meeting, Approval

1.1 Meeting

SUMMARY OF MINUTES OF THE MEETING

20.09.2023

With reference to meeting held and Minutes of meeting recorded the summary of minutes of meeting is as below. The Department of Mechatronics Engineering has planned to conduct training on PLC and HMI to provide knowledge to students regarding for vital subjects of our discipline. The following faculty members were present in the meeting conducted on 20 sept 2023 at mechatronics HOD Cabin to finalize the training.

1) Prof.VikramVyawahare (HOD)
2) Prof. Gaurav Deshmukh (TPO)
3) Dattatrya Shinde (Department Coordinator)

Prof VikramVyawahare
Dept. of Mechatronics Engg.

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1.2 Quotation

terna

Quotation for Custom Training

Alister D'Silva <adsilva@absolutemotion.in>
To: Vikram Vyawahare <vikramvyawahare@ternaengg.ac.in>
Cc: Gaurav Deshmukh <gauravdeshmukh@ternaengg.ac.in>, Sushil Mishra <smishra@absolutemotion.in>

Dear Sir,

Please find attached the costing for the training session. We will generate the bill once we receive the payment. We have calculated to total training cost as per the sheet released by your department, attached in the mail.

Total Due- 52492 (1500 inc GST per head x 35, minus GST adjustment)

Kindly make the payment to the following:-

Simumotion Industrial Academy Pvt Ltd
Ac No 50200073365427
IFSC HDFC0000175

Amount Due: 52492

Best Regards,

Alister DSilva
Absolute Motion Pvt Ltd

www.absolutemotion.in

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Payment

Simumotion Industrial Academy Private Limited

Srishti Square, First Floor, LBS Rd
Bhandup Industrial Area, Bhandup West
Mumbai Maharashtra 400078
India
GSTIN 27AABCS2862B1ZD

ESTIMATE

#	: EST-000025	Place Of Supply	: Maharashtra (27)
Estimate Date	: 10/08/2023		
Expire Date	: 24/08/2023		

Bill To

Terna Engineering College

Subject :

Prayas Custom Training (Industrial Automation and IoT)

#	Item & Description	HSN /SAC	Qty	Rate	CGST %	CGST Amt	SGST %	SGST Amt	Amount
1	Prayas Custom Training Prayas Custom Training (Industrial Automation and IoT) Total Duration: 30 hours (20 hours online + 10 hours Offline) Minimum Students required : 25	999294	1.00	2,200.00	9%	198.00	9%	198.00	2,200.00

Total In Words
Indian Rupee Two Thousand Five Hundred Ninety-Six Only

Sub Total	2,200.00
CGST (9%)	198.00
SGST (9%)	198.00
Total	₹2,596.00

Looking forward for your business.

Terms & Conditions
Taxes levied at actual

Authorized Signature

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2. About Institute

Terna Public Charitable Trust's Terna Engineering College is one of the well-known and premium technical institutions, with 'A' Grade from Government of Maharashtra having ISO 9001 Quality Management System and is among the top Colleges in Mumbai. It is located at Nerul, Navi Mumbai on a beautiful 3 acre campus. The institute is affiliated to University of Mumbai, approved by AICTE and accredited by National Board of Accreditation (NBA). This institution offers 7 UG, 4 PG and 3 PhD courses. Highest quality education is catered with curriculum extension by means of exceptional offerings like Engineering Products and Innovation Center (EPIC), Remote centre of IIT Bombay which facilitates student / faculty members to interact with IIT professors through video conferencing, Industry Institute Interaction Cell, Electronics club (collaboration with 25 local electronics SMEs), e-Yantra Embedded Systems and Robotics Lab, Apple lab, Texas Instruments Lab. We are a diverse, talented community united by passion for learning and quest for more. Terna motivates students to make a difference in our campus, in the state, country and around the world.

2.1 About Department

A mechatronic system is a multidisciplinary system embodying a synergistic combination of the disciplines of electrical/electronics, mechanical and computer science / information technology.

Mechatronics Engineering Department at Terna engineering college started in 2015 and is the first department to offer a bachelors degree in Mechatronics Engineering, among the state university affiliated colleges in Maharashtra.

UG intake of 60.

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3. About Training

PLC technology is required for Automation. It is one the core area in Mechatronics field. As a mechatronics engineer, the knowledge of PLC programming along with HMI and SCADA is essential skill to get the job in Automation.

Training was scheduled in online and offline sessions for students. For the training department signed MoU with Absolute Motion Pvt Ltd, Thane.

Outcomes:

- To understand the job areas and positions in automation field
- To understand the basics of PLC components and programming
- To understand the HMI and SCADA technology
- To get Hands on training on PLC.

4. About Trainer

Absolute motion Pvt Ltd is service provider industry in automation located at Thane.

They provide expert programming support for PLC based projects and for high precision, high speed requirements we provide Motion Controller programming by our experienced Application team. They make sure your Visualization requirements are fulfilled by developing high quality user friendly screens that are practical as well as aesthetically pleasing.

They understand that special applications have unique design needs. They provide customized solutions on demand, such as our Custom SCADA reporting tool- Absolute Report. They have custom designed solutions for IOT powered gas monitoring and IOT powered water treatment and distribution.

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Terna
Knowledge to Empower

ABSOLUTE
Motion Pvt. Ltd.

MEMORANDUM OF UNDERSTANDING

(MoU)

Between

Absolute Motion Private Limited

And

Department of Mechatronics Engineering

***Terna Engineering College (TEC Nerul)*, Nerul**

Navi Mumbai –400706.

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This agreement made and entered on this 16th day of Aug 2023 between TEC Nerul, Navi Mumbai and Absolute Motion Private Limited (Company)

1. OBJECTIVE OF MOU

- The objective of this memorandum of understanding is;
- To promote interaction between Terna Engineering College, Nerul and Absolute Motion Private Limited in mutually beneficial areas.
- To provide formal basis of initiating interaction between TEC NERUL and Absolute Motion Private Limited.

2. PROPOSED MODES OF COLLABORATION

- TEC NERUL AND Absolute Motion Private Limited propose to collaborate through
- Conducting courses and workshop after mutual agreement on commercial terms & conditions for students of TEC NERUL on regular basis, through Prayas skill development programs.
- Guiding student projects/ faculty projects at TEC NERUL (Final year or research)
- Guiding R&D projects, which may be carried out wholly at TEC NERUL or at premises of COMPANY or partly at TEC NERUL and partly at COMPANY.
- Including selected TEC NERUL students in Prayas training and placement program where students will be trained and then placed in core Industrial Automation/Robotics Industry.
- Any other appropriate mode of interaction agreed upon between TEC NERUL and COMPANY. Each of the above modes of interaction will be initiated by entering into a separate agreement between the two parties.

3. TECHNICAL AREAS OF COLLABORATION

The Principal technical areas of collaboration between TEC NERUL and COMPANYwill be as set out in Annexure A.

4. CONFIDENTIALITY

- The obligation above shall not extend to any confidential information for which the receiving party can prove that this information.
- Is in public domain at the time of discloser or comes within the public domain without fault of receiving party.
- Is already known or become known to the receiving party.

2

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- ❖ Is received from third party having no obligation of confidentiality to the disclosing party.
- ❖ Is independently developed by the receiving party.

5. NON – EXCLUSIVITY

The relationship of the parties under this MOU shall be nonexclusive and both parties, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular research agreement the participants may agree to limit each party's right to collaborate with others on that subject.

6. TERMS AND TERMINATION

This MOU shall be valid for three (3) year from the date of its entering into and it may be mutually extended from time to time in writing by both institutes.

This MOU may be amended or terminated earlier by mutual written agreement of parties at any time. Either party shall have the right to unilaterally terminate this MOU upon 60 days prior written notice to the other party. However, no such early termination of this MOU, whether mutual or unilateral, shall affect the obligations of the participants under any research agreement. Confidentiality clause as referenced in clause 6 above, or any other agreement entered into pursuant to this MOU, shall survive which obligations shall survive any such termination.

7. RELATIONSHIP

Nothing in this MOU shall be construed to make either party an agent or legal representative of the other for any purpose.

8. ASSIGNMENT

It is understood by the Parties herein this MOU is based on the professional competence and expertise of each party and neither party shall transfer or assign this Agreement of rights or obligations arising hereunder either wholly or in part to any third party.

9.COSTS OF MOU

Each Party shall bear the respective costs of carrying out the obligation under this MOU.

10. SIGNED IN DUPLICATE

This MOU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity.

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BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

ANNEXURE A

TECHNICAL AREAS OF COLLABORATION

- Organizing workshops, seminars with joint participation of the faculty and the industries.
- Arranging visits of staff members to various industry
- Professional consultancy by faculty to industries.
- Industrial testing by the faculty & technicians in laboratories.
- Joint research programs and field studies by faculty and people from industries.
- Visits of faculty to industry for study and discussions or delivering lectures on subjects of mutual interest.
- Visits of industry executive and practicing engineers to the institute for seeing research work and laboratories, discussions and delivering lectures on industrial practices, trends and experiences.
- B.E. projects / dissertation work in industries under joint guidance of the faculty and experts from industry.
- Short term Assignment to faculty members in industries.
- Visiting faculty / professors from industries.
- Practical training of students in industries.

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Absolute Motion Private Limited		Terna Engineering College / TEC Nerul	
Signature1		Signature1	
Name	Alister DSilva	Name	Dr. L. K. Ragha
Designation	Director	Designation	Principal - TEC NERUL
Place	Bhandup, Mumbai	Place	Nerul, Navi Mumbai
Date		Date	
Signature2		Signature2	
Name	Sushil Mishra	Name	Prof. Vikram S. Vyawahare
Designation	Director	Designation	HOD Mechatronics - TEC Nerul
Place	Bhandup, Mumbai	Place	Nerul, Navi Mumbai
Date		Date	

Witness 1		Witness 1	
Name	Jignesh Gilda	Name	Mr. Manoj Kokate
Designation	Director	Designation	Management Coordinator
Place	Bhandup, Mumbai	Place	Nerul, Navi Mumbai
Date	20/3/2021	Date	
Witness 2		Witness 2	
Name		Name	
Designation		Designation	
Place		Place	
Date		Date	

Absolute Motion Pvt. Ltd.

TPCT'S

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5. Schedule & Syllabus

Training was scheduled in online and offline mode.

Online Mode: Date: 5th Oct to 19th Noc 2023 : 7pm to 9pm

Offline Mode: 20th Nov – 22nd Nov 2023 : 10am to 5pm

Syllabus

*PLC programming with advanced functions

*3-D Simulation of Machines

*SCADA and HMI programming

*Arduino & Raspberry Pi based IoT

*Node-red and implementation

*MQTT protocol, OPC UA protocol, Modbus communication protocol

*Blynk dashboard and IBM Node red Dashboard design for IOT projects

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7. CO, PO & PSO

After completion of the course the student will be able to design and program industrial controller.

7.1 Course Objectives

1) To introduce technologies relevant to industrial automation from leading automation company

7.2 Course Outcome

Learners will be able to

- To understand the job areas and positions in automation field
- To understand the basics of PLC components and programming
- To understand the HMI and SCADA technology
- To get Hands on training on PLC.

7.3 Program Outcome

PO 1: -Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2: - Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

PO 3: - Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4: - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5: - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6: - The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

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PO7: - Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8: - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: - Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: - Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12: - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

7.4 Program Specific Outcome

PSO 1: -Ability to find creative solutions to real life problems uses concurrent interdisciplinary approach to engineering design.

PSO 2: - Ability to develop and program advanced manufacturing systems such as CNC machines, rapid prototyping systems and industrial robotics.

PSO 3: - Ability to select appropriate sensors, actuators and control systems depending on application requirement in the domains such as industrial automation, process control, automotive electronics and MEMS.

PSO 4: - Ability to simulate, analyze and design complex interdisciplinary technology systems with embedded software and hardware.

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TERNA ENGINEERING COLLEGE ★ SOLUTION FOR NEXT GENERATION ★ NERUL NAVI MUMBAI

9. List of Students

Sr no	Name	Email Address
1	AMAN SHAIKH ALTAF	amanshaikhaltaf2000@gmail.com
2	Saurabh Sanjay Bharambe	sohombharambe2411@gmail.com
3	Pruthu Songirkar	pruthusongirkar1@gmail.com
4	Praveen Singh	praveensingh@ternaengg.ac.in
5	OMKAR KOLI	koli6omkar@gmail.com
6	Prashant Ingawale	prashantingawale12345@gmail.com
7	Omkar Korgaonkar	omkarkorgaonkar786@gmail.com
8	Sakshi Lagad	lagad.sakshi.4@gmail.com
9	Aman Rizwan Mulla	mullaaman289@gmail.com
10	Tanmay Pednekar	tanmaypednekar45@gmail.com
11	Sahil Shinkar	sahilshinkar02@gmail.com
12	Janhavi Nalawade	janhavinalawade@ternaengg.ac.in
13	Ketan Desai	ketandesai@ternaengg.ac.in
14	Homendra Kumar	homendra2901@gmail.com
15	Bijapuri limran Ashfaque	limranashfaque@gmail.com
16	Hrishikesh Ramesh Jadhav	hrishi09.hj@gmail.com
17	Moizz Vasim Khan	muizkh11@gmail.com
18	Nishant warang	Warangnishant8@gmail.com
19	Rushikesh Salunkhe	salunkherushi2512@gmail.com
20	Armash khan	armashkhan31@gmail.com
21	Sarthak Shelar	sarthakshelar2.0@gmail.com
22	Namrata Pawar	namratapawar@ternaengg.ac.in
23	Sujit Narayan Patil	sujitpatil0899@gmail.com
24	Vishal chaudhari	vishalrajkumarchaudhari@ternaengg.ac.in
25	Aditya Tiwari	aaditiwari13@gmail.com
26	Jay Rajesh Hiswankar	jayhiswankar@gmail.com
27	Rishabh Pal	19rishabhpal2000@gmail.com
28	Virendra badekar	virendrabadekar07@gmail.com
29	Varun Patekar	varunvilaspatekar@gmail.com

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TERNA ENGINEERING COLLEGE ★ NERUL, NAVI MUMBAI - 400706 ★ SOCIETY

10. Attendance

Name	Assigned Batch	Day 1 Attendance	Day 2 Attendance	Day 3
AMAN SHAIKH ALTAF	Batch 2	Present	Present	Present
Saurabh Sanjay Bharambe	Batch 1	Present	Present	Present
Pruthu Songirkar	Batch 2	Present	Present	Present
Praveen Singh	Batch 1	Present	Present	Present
OMKAR KOLI	Batch 1	Present	Present	Present
Prashant Ingawale	Batch 1	Present	Present	Present
Omkar Korgaonkar	Batch 1	Present	Present	Present
Sakshi Lagad	Batch 1	Present	Present	Present
Aman Rizwan Mulla	Batch 2	Present	Present	Present
Tanmay Pednekar	Batch 2	Present	Present	Present
Sahil Shinkar	Batch 2	Present	Present	Present
Janhavi Nalawade	Batch 1	Present	Absent	Present
Ketan Desai	Batch 1	Present	Present	Present
Homendra Kumar	Batch 2	Present	Present	Present
Bijapuri Imran Ashfaque	Batch 1	Present	Present	Present
Hrishikesh Ramesh Jadhav	Batch 1	Present	Present	Present
Moizz Vasim Khan	Batch 1	Present	Present	Present
Nishant warang	Batch 1	Present	Present	Present
Rushikesh Salunkhe	Batch 2	Present	Present	Present
Armash khan	Batch 2	Present	Present	Present
Sarthak Shelar	Batch 1	Present		Present
Namrata Pawar	Batch 2	Present	Absent	Present
Sujit Narayan Patil	Batch 1	Present	Present	Present
Vishal chaudhari	Batch 1	Present	Present	Present
Aditya Tiwari	Batch 1	Present	Present	Present
Jay Rajesh Hiswankar	Batch 1	Absent	Absent	Absent
Rishabh Pal	Batch 2	Present	Present	Present
Virendra badekar	Batch 2	Present	Present	Present
Varun Patekar	Batch 2	Present	Present	Present

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1. Rubrics for Assessment

programming	Understanding	component selection	Attendance	Total
15	10	15	10	50

15. Result

On the basis of criteria for certification out of 29 students 29 were qualified.

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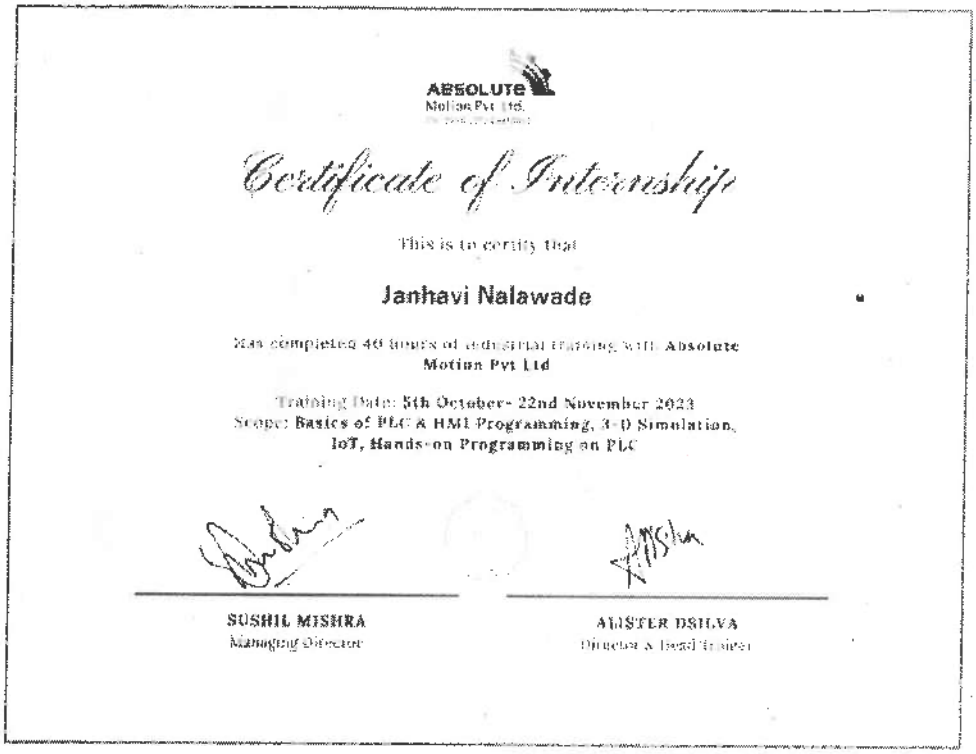
Certificates



ABSOLUTE Motion Pvt. Ltd.

Certificate of Internship

This is to certify that

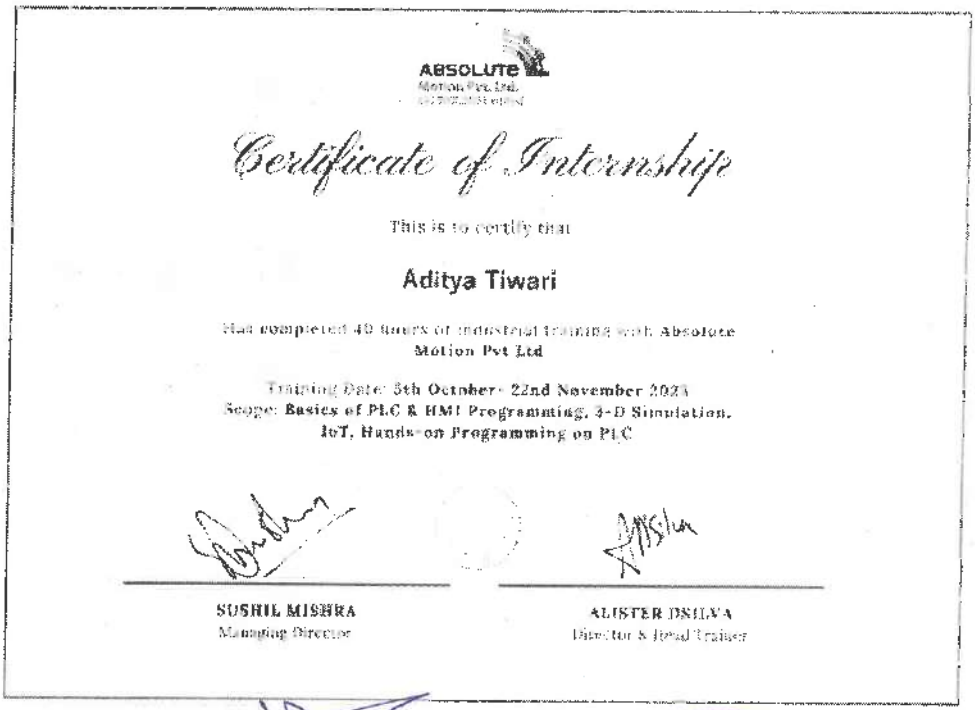
Janhavi Nalawade

Has completed 40 hours of industrial training with **Absolute Motion Pvt Ltd**

Training Date: **5th October- 22nd November 2023**
Scope: **Basics of PLC & HMI Programming, 3-D Simulation, IoT, Hands-on Programming on PLC**

SUSHIL MISHRA
Managing Director

ALISTER DSILVA
Director & Head Trainer



ABSOLUTE Motion Pvt. Ltd.

Certificate of Internship

This is to certify that

Aditya Tiwari

Has completed 40 hours of industrial training with **Absolute Motion Pvt Ltd**

Training Date: **5th October- 22nd November 2023**
Scope: **Basics of PLC & HMI Programming, 3-D Simulation, IoT, Hands-on Programming on PLC**

SUSHIL MISHRA
Managing Director

ALISTER DSILVA
Director & Head Trainer

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1.2 Approval

DTE INSTT.CODE: 3190

Regd. No. E-91, (Osmanabad) Dated 30-09-80

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(Approved by AICTE & Affiliated to University of Mumbai)

Plot No. 12, Sector 22, Opposite Railway Station, Nerul (W), Navi Mumbai- 400706. Ph. +91 22 61115444, Fax No. +91 22 61115400
Web: www.ternaengg.ac.in .

Date: 01/11/2023

To,

The Principal

Terna Engineering College,

Nerul, Navi Mumbai – 4000706

Subject: - Regarding Permission for conducting Skill Based Learning program

Respected Sir,

To make the students industry ready and feedback received by students, we have decided to conduct Add on course on software's ETabs, Tekla and Staad-Pro in Association with Confluence Training, Nanded. during the academic year 2023 – 24. I request you kindly to provide the permission to conduct the same. The selected course will be useful to students for proficiency in above software.

Kindly provide permission to do the same.

Thanking You.

Yours Faithfully.

Mr. Jamaluddin Maghrabi
AOC Incharge

Dr. Priyanka Salunkhe
HOD

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TERNA PUBLIC CHARITABLE TRUST'S

TERNA ENGINEERING COLLEGE

Department of Civil Engineering

ACADEMIC YEAR 2023 – 2024

1. Title of the course : Course on Staad-Pro
2. Objective of the course : To make student learn Staad-Pro Software which is required for analysis and design of structure. This will be beneficial to student for their final year project and for placement as a Design Engineer.
3. Prerequisite : Basics of Structural Analysis
4. Beneficiary : Students and Faculties
5. Date & Duration of the course: 12.01.2024 to 09.02.2024
6. No of hours required : 40 Hours
7. Internal Resources : Ritesh Tandekar
8. Course Registration fees : [redacted]
9. Contents of the course : Enclosed
10. Credits / Certification : Those who have 75% attendance for certification.
11. Venue : Online

Course Coordinator

HOD

Dept. of Civil Engg

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TERNA ENGINEERING COLLEGE

Department of Civil Engineering

ACADEMIC YEAR 2023 – 2024

CIRCULAR

All the students of semester VIII and faculties of department of Civil Engineering Terna Engineering College, Nerul, Navi Mumbai, are hereby informed to enroll their names for add on course "Staad-Pro".

COURSE FEATURES:

Course Duration	: 40 Hours
Beneficiary	: Students & Faculties
Certificate	: Yes
Location	: Online
Schedule	: 12.01.2024 to 09.02.2024

HOD

Dept. of Civil Engg

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2.0 About Institute

Terna Public Charitable Trust's Terna Engineering College is one of the well-known and it is located at Nerul, Navi Mumbai on a beautiful 3-acre campus. The institute is affiliated to University of Mumbai, approved by AICTE and accredited by National Board of Accreditation (NBA). This institution offers 7 UG, 4 PG, 3 PhD courses. Highest quality education is catered with curriculum extension by means of exceptional offerings like Engineering Products and Innovation Center (EPIC), Remote centre of IIT Bombay which facilitates student / faculty members to interact with IIT professors through video conferencing, Industry Institute Interaction Cell, Electronics club (collaboration with 25 local electronics SMEs), e-Yantra Embedded Systems and Robotics Lab, Apple lab, Texas Instruments Lab. We are a diverse, talented community united by passion for learning and quest for more. Terna motivates students to make a difference in our campus, in the state, country and around the world.

2.1 About Department:

The Department of Civil Engineering was established in the year 2017. The Mission of Department is to promote the disciplines of Planning, Design, Construction, Operation,
Maintenance and Research. It offers students technical knowledge with technique for better utilization of available resources and greater standardization of construction processes required by construction industry. We intend to develop students by giving training to make use of innovative design methods, techniques and practical implementation. Highly qualified and dedicated faculty are recruited and they are always on their toes to guide the students, form the backbone of the department.

Key Features:

- Well Equipped Laboratories – Materials and Concrete Technology, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, Engineering Geology, Civil Computer Laboratory, Surveying Laboratory, Hydraulics and Fluid Mechanics Laboratories
- Consultancy Services Offered and Fully Equipped with Major Facilities Like Fully Automatic Compression Testing Machine 2000 kN (NABL Accredited) Fully Automatic Universal Testing Machine (UTM 100 Ton- NABL Accredited), Fully Automated Total Station for Professional Surveying
- Consultancy Services Offered for Non-Destructive Testing
- Faculties with Experience in Design and Execution of Residential, Commercial, Oil & Gas, Power Projects

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- Faculties with Experience in Research in the Field of Smart Materials & Smart Structures, Pavement Design & Analysis, Geotextile Materials for Soil Stabilization, Geotechnical Engineering, Remote Sensing & GIS
- Active Mentoring Processes for Continuous Assessment in Academics
- Learning Experience Through Active Consultancy Projects
- Industrial Visits-CIDCO, PWD, MMRDA, Rock Museum Nasik
- Internship for Students (With & Without Stipend)
- International Students Chapter Association & Merit Scholarships
- Expert Lectures by Industry Experts
- NPTEL Courses
- Skill Based, Project Based Learning, Interactive and Interest Based Core Domain Learning
- Patents, Designs and Copyright Development
- Achieved 100 % students intern during winter vacations (2019-2020) in renowned organizations like Airport Authority of India (AAI), Public Work Department (PWD), City and Industrial Development Corporation (CIDCO), Rashtriya Chemical Fertilizers (RCF), American Concrete Institute and so many.

3.0 About Course

This course covers the learning of Staad-Pro software with its different features. It will also helpful for student to analyze and Design the structure. This course is beyond their regular syllabus. This will be beneficial to students for their project work and ready for industry. Duration of course will be 40 hours.

4.0 About Consultancy

Confluence Training Initiative (CTI) was started in year 2021 with aim of providing affordable access to high-quality training in civil engineering. With a very small and highly experienced team we have conducted multiple training programs in Pune & Mumbai and planned to keep on serving in the future. Following are some key features of our add-on training programs.

- ✓ Experienced resource personnel.
- ✓ Project based learning assignment on real life projects.
- ✓ Free additional online learning courses on Staad-Pro.
- ✓ Traceable certificates with QR codes to curb forgery and more.

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5.0 Schedule

SCHEDULE FOR STAAD-PRO TRAINING PROGRAM			
Date	**Day**	**Time**	**Module**
12-Jan-24	Friday	5.00 PM to 9.00 PM	Module No. 1
13-Jan-24	Saturday	10.00 AM to 2.00 PM	Module No. 2
14-Jan-24	Sunday	10.00 AM to 2.00 PM	Module No. 3
19-Jan-24	Friday	5.00 AM to 9.00 PM	Module No. 4
20-Jan-24	Saturday	10.00 AM to 2.00 PM	Module No. 5
21-Jan-24	Sunday	10.00 AM to 2.00 PM	Module No. 6
27-Jan-24	Saturday	10.00 AM to 2.00 PM	Module No. 7
28-Jan-24	Sunday	10.00 AM to 2.00 PM	Module No. 8
08-Feb-24	Thursday	10.00 AM to 2.00 PM	Module No. 9
09- Feb -24	Friday	10.00 AM to 2.00 PM	Module No. 10

6.0 Syllabus

Module	Course contents	Hours
1	Staad Commands for modelling, supports & Properties with examples	4
2	Staad command for Loadings and Analysis with examples	4
3	Introduction to PEB Structures	4
4	Modelling, Analysis of a frame	4
5	PEB Building Project: Planning of the Columns, Beams and Slab	4
6	PEB Building Project: Modelling in STAAD.	4
7	PEB Building Project: Analysis and Design	4
8	PEB industrial Building Project	4
9	Interactive Discussions and Closure of the Staad Training	4
10	Extra Case Study session	4

7.0 Course Objective & Course Outcome

After completion of the course the student will be able to analyze and design the structure.

7.1 Course Objective

1. Learn and apply various fundamental principles for structural design of a PEB structure.
2. Study of various IS codes required for designing and analysis of a PEB structure.
3. Learn various components of a structural design.
4. Analysis and Design of PEB structure.

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7.2 Course Outcome

On completion of this course, the students will be able to

1. Various principles of designing of PEB structures.
2. Acquire knowledge of various Indian Standard Codes required for designing of PEB Structures.
3. Learn analysis and design of PEB structures.
4. Analysis and Design of PEB structure.

7.3 Program Outcome

PO 1: - Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO 2: - Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
PO 3: - Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO 4: - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO 5: - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO 6: - The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO 7: - Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO 8: - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO 9: - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO 10: - Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO 11: - Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO 12: - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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Program Specific Outcome

PSO 1: - Graduates will be able to plan, analyze, design and drawing and estimate for residential, commercial, industrial and infrastructure projects. They will be able to work on site for supervision of various construction activities.

PSO 2: - Graduates will be able to use different software related to Civil Engineering for developing skills required by the industry.

8.0 CO, PO & PSO Mapping

Sr. No	Content	CO	PO	PSO
1	Staad Commands for modelling, supports & Properties with examples	CO1, CO3	1, 5, 8,9,10,11	2
2	Staad command for Loadings and Analysis with examples	CO1, CO3	1, 5, 8,9,10,11	2
3	Introduction to PEB Structures	CO1, CO3	1, 5, 8,9,10,11	2
4	Modelling and Analysis frame	CO1, CO3	1, 5, 8,9,10,11	2
5	PEB Building Project: Planning of the Columns, Beams and Slab	CO1, CO3	1, 5, 8,9,10,11	2
6	PEB Building Project:Modelling in STAAD.	CO1, CO3	1, 5, 8,9,10,11	2
7	PEB Building Project: Analysis and Design	CO1, CO3	1, 5, 8,9,10,11	2
8	PEB industrial Building Project	CO1, CO3	1, 5, 8,9,10,11	2
9	Interactive Discussions and Closure of the Staad Training	CO1, CO2, CO3	1, 5, 8,9,10,11	2

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10	Extra Case Study session	CO1, CO3	1, 5, 8,9,10,11	2

9.0 List of Students

BE Student List

Sr. No	Name of student	TUF ID
1	Vismay Vinoy	TU7F2021011
2	Shubham Prasad	TU7F2021033
3	Dhanshree Patil	TU7F2021040
4	Hrishikesh Dongre	TU7S2122001
5	Aditya Milind Jadhav	TU7S2122003
6	Rohit Yashwant Bedekar	TU7S2122005
7	Sahil Shashikant Wayal	TU7S2122008
8	Rohan Rajan Parab	TU7S2122006
9	Shivani Suhas Pomendkar	TU7S2122010
10	Satyajeet Dubey	TU7S2122013
11	Yogesh Malvani	TU7S2122015
12	Tejashree Pawar	TU7S2122017
13	Rohit Suhas Matekar	TU7S2122023

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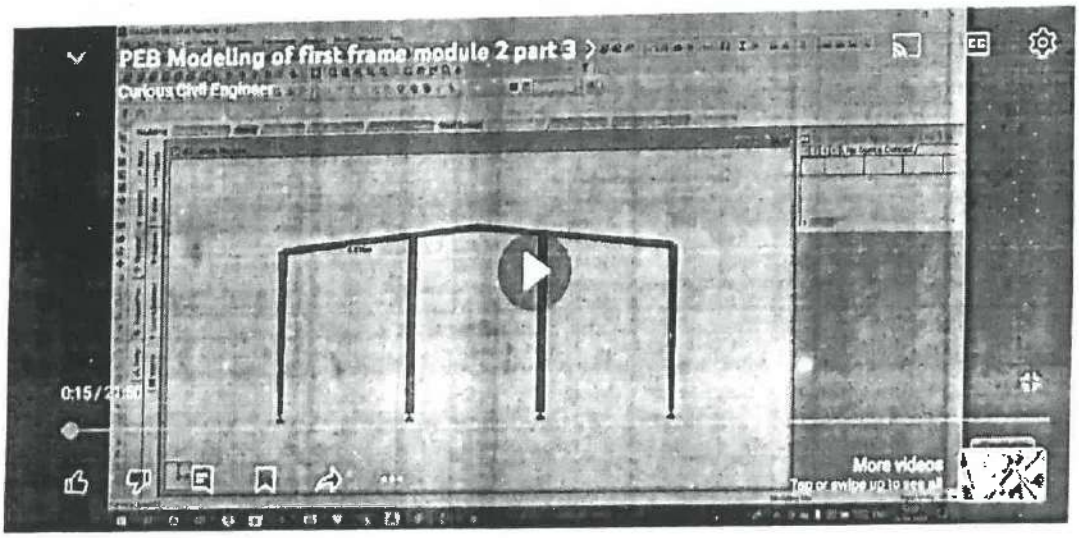
10.0 Attendance

BE Student List

Sr. No	Full Name	11-Jan	12-Jan	13-Jan	18-Jan	19-Jan	20-Jan	25-Jan	27-Jan	08-Feb	09-Feb	Avg
1	Vismay Vinoy	P	P	P	A	P	A	P	P	P	P	80
2	Shubham Prasad	P	A	A	P	P	A	P	P	P	A	60
3	Dhanshree Patil	P	A	P	A	P	P	A	A	P	P	40
4	Hrishikesh Dongre	P	A	P	P	A	P	P	P	P	P	80
5	Aditya Milind Jadhav	A	A	P	P	A	P	P	P	A	A	50
6	Rohit Yashwant Bedekar	P	P	P	A	A	A	A	P	P	P	60
7	Sahil Shashikant Waval	P	P	P	A	P	P	A	P	P	P	80
8	Rohan Rajan Parab	P	P	P	A	P	P	P	A	A	P	70
9	Shivani Suhas Pomendkar	A	A	A	P	P	P	P	A	P	P	46
10	Satyajeet Dubey	P	P	A	P	P	P	P	P	P	P	90
11	Yogesh Malvani	P	P	P	P	P	P	P	P	P	P	100
12	Tejashree Pawar	P	P	P	P	P	A	A	P	P	P	80
13	Rohit Suhas Matekar	P	P	A	A	P	P	P	P	P	P	80

11.0 Online Session (Link & Screenshot)

Link for online session: https://youtu.be/r6FRYYv3EgM?feature=shared



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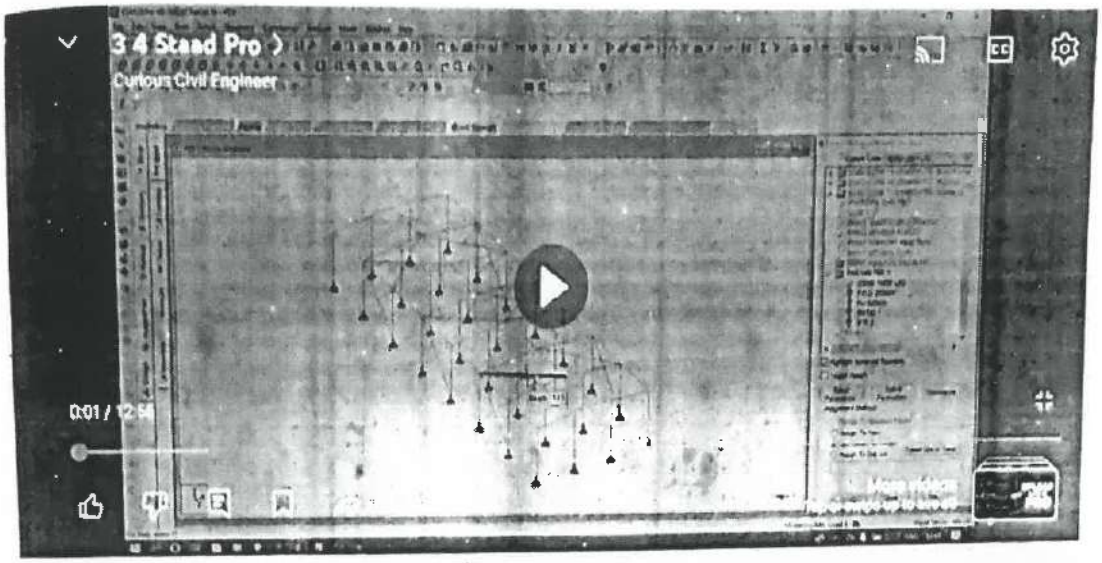

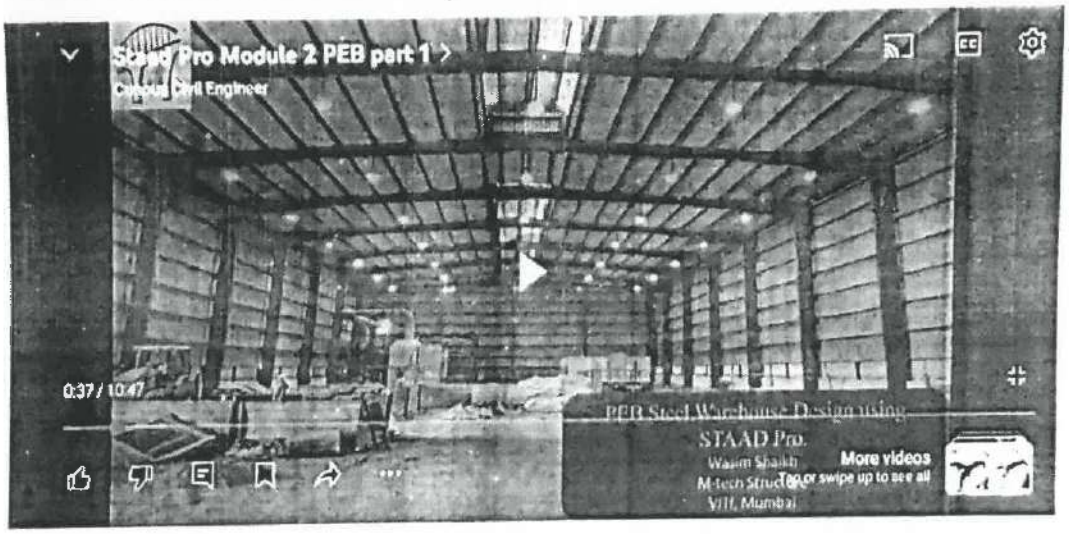

12.0 Result

BE Student List

Sr. No	Name of student	Remark
1	Vismay Vinoy	Qualified
2	Shubham Prasad	Not Qualified
3	Dhanshree Patil	Not Qualified
4	Hrishikesh Dongre	Qualified

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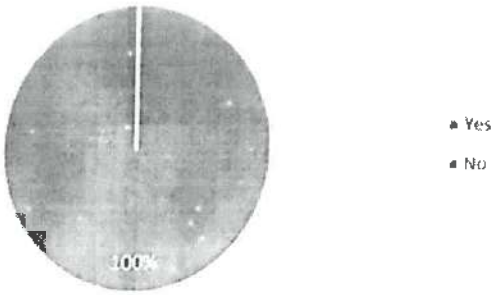
5	Aditya Milind Jadhav	Not Qualified
6	Rohit Yashwant Bedekar	Qualified
7	Sahil Shashikant Wayal	Qualified
8	Rohan Rajan Parab	Qualified
9	Shivani Suhas Pomendkar	Not Qualified
10	Satyajeet Dubey	Qualified
11	Yogesh Malvani	Qualified
12	Tejashree Pawar	Qualified
13	Rohit Suhas Matekar	Qualified

13.0 Feedback

In order to collect the feedback of the training session a google form was floated which consisted of specific questions to gauge the training program. Below is the question wise analysis of the feedback.

1.Do you feel Staad-Pro training would be beneficial for your career?



2.How was the curriculum of the Staad-Pro Training Program?

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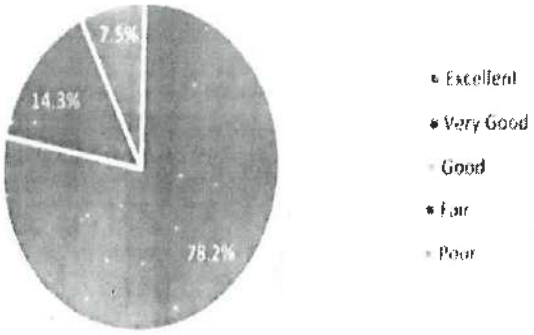
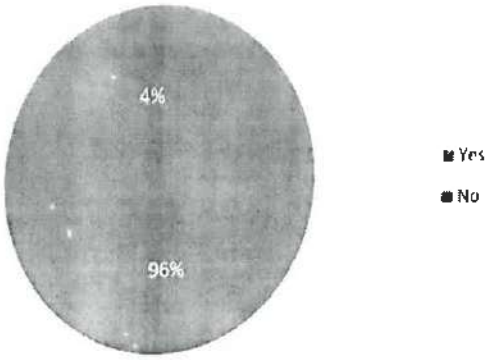
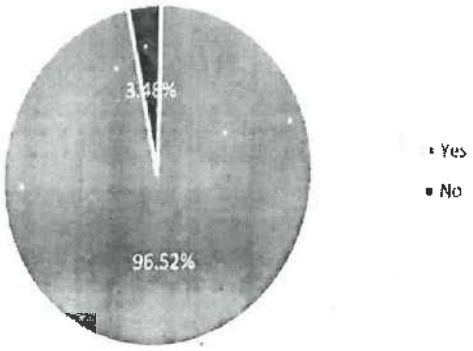


3.Was the Staad-Pro curriculum completed as planned?



4.Did the Staad-Pro training content meet our expectation?



5.Did your trainer respond to your queries in a timely manner?

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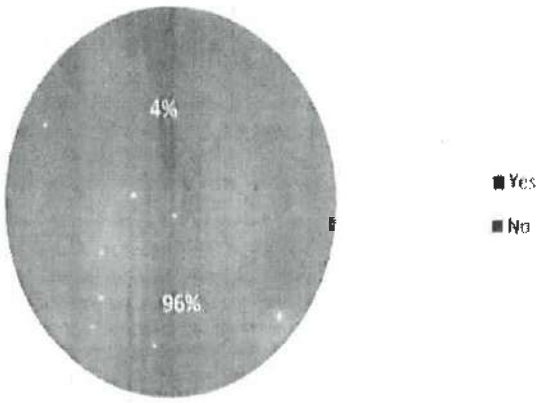
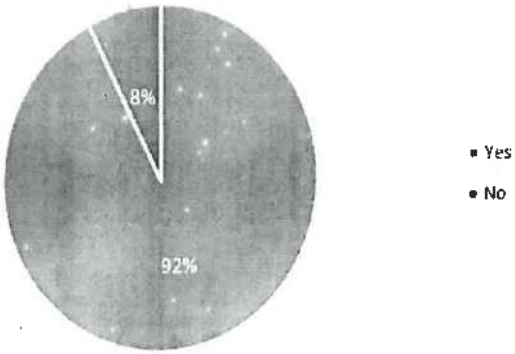
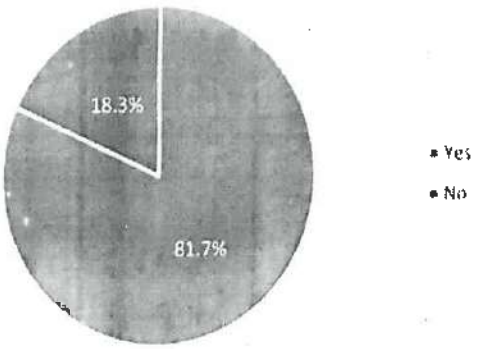


6.Was the time allotted for the training sufficient?



7.Where you able to practice alonge with the instructor?



8.How would you rate the course content in terms of being easy to follow?

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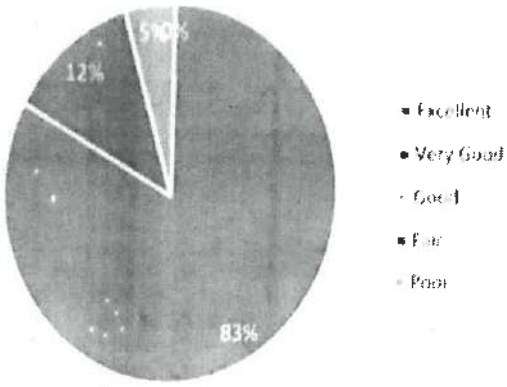
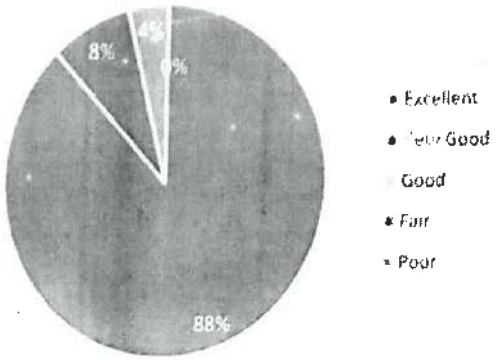
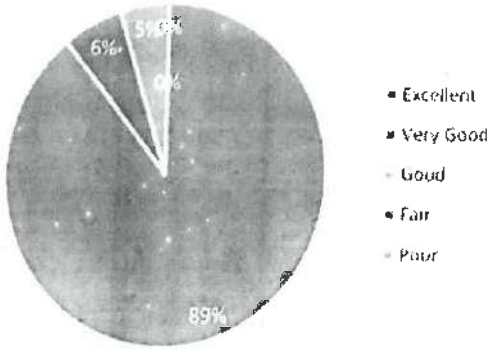


9 How would you rate the trainer for the Staad-Pro?



10.How was your overall experience with the Staad-Pro training?



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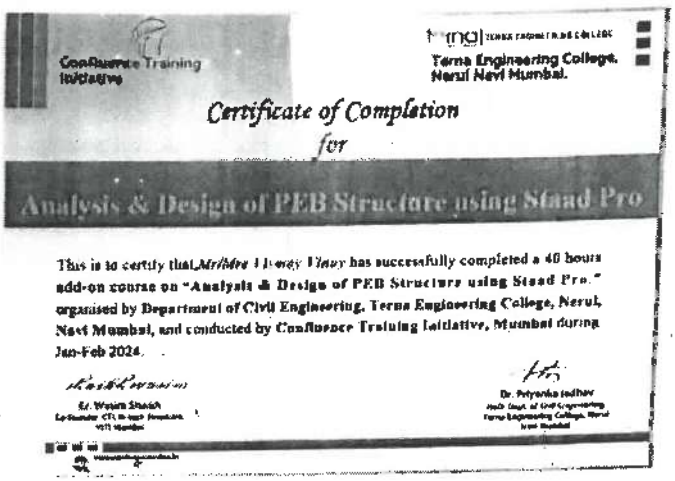
14.0 Sample Certificates



Confluence Training Initiative

Terna Engineering College, Nerul Navi Mumbai.

Certificate of Completion

for

Analysis & Design of PEB Structure using Staad Pro

This is to certify that *Mr/Mrs Pandey Vinay* has successfully completed a 40 hours add-on course on "Analysis & Design of PEB Structure using Staad Pro." organised by Department of Civil Engineering, Terna Engineering College, Nerul, Navi Mumbai, and conducted by Confluence Training Initiative, Mumbai during Jan-Feb 2024.

Er. Wasim Shaikh

Dr. Priyanka Jadhav

Confluence Training Initiative

Terna Engineering College, Nerul Navi Mumbai.

Certificate of Completion

for

Analysis & Design of PEB Structure using Staad Pro

This is to certify that *Mr/Mrs Satyajeet T Dubey* has successfully completed a 40 hours add-on course on "Analysis & Design of PEB Structure using Staad Pro." organised by Department of Civil Engineering, Terna Engineering College, Nerul, Navi Mumbai, and conducted by Confluence Training Initiative, Mumbai during Jan-Feb 2024.

Er. Wasim Shaikh

Dr. Priyanka Jadhav

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Confluence Training Initiative

Terna Engineering College, Nerul Navi Mumbai

Certificate of Completion

for

Analysis & Design of PEB Structure using Staad Pro

This is to certify that *Mr/Mrs Hrishikesh Umesh Dongre* has successfully completed a 40 hours add-on course on "Analysis & Design of PEB Structure using Staad Pro." organized by Department of Civil Engineering, Terna Engineering College, Nerul, Navi Mumbai, and conducted by Confluence Training Initiative, Mumbai during Jan-Feb 2024.

Er. Wasim Shaikh
Co-founder CTI, R-tech Structure, VITI Mumbai

Dr. Priyanka Jadhav
HoD Dept. of Civil Engineering, Terna Engineering College, Nerul Navi Mumbai

Prof. Ritesh Tandekar
Dept. T & P Coordinator

Prof. Poonam Patil
APC

Dr. Priyanka Salunkhe
HOD

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TERNA ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to University of Mumbai)

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Web : https://ternaengg.ac.in/

Report on

Add on Course - Basics of STAAD-Pro

Enrolled Students

S.E. Civil Engineering Students

Academic Year:

2023-2024

Conducted by

Dept. of Civil Engineering, TEC

In Association with

Department of Civil Engineering, Nerul, Navi Mumbai

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Bentley Education, USA

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CONTENT

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1. Meeting and Approval

1.1 Meeting

SUMMARY OF MINUTES OF THE MEETING

26th October 2023

With reference to meeting held and Minutes of meeting recorded the summary of minutes of meeting is as below.

The Department of Civil Engineering has planned to conduct Value Added Course to provide knowledge to students regarding for vital subjects of our discipline. The following faculty members were present in the meeting conducted on 25 October 2023 at Civil HOD Cabin to finalize the Value added course to be offered for this year.

The HOD and the staff members concluded the following Add on Course for the academic year 2023-2024

SL. No.	Name of Value Added Course	Semester	Hours	Course Incharge
1.	Value added Course (Basics of Staad- Pro)	IV	40	Pradip Sonawane.

In the meeting it was decided to prepare syllabus of the program by the staff in charge within a week from the date of meeting.

1) Dr. Priyanka Salunkhe (HOD)
2) Jamaluddin M. (Course Coordinator)
3) Pradeep Sonawane (Faculty Member)

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Dr. Priyanka Salunkhe
Dept. of Civil Engg.

1.2 Approval

TERNA PUBLIC CHARITABLE TRUST'S

TERNA ENGINEERING COLLEGE

Date:-03rd January 2024

To,

The Principal

Terna Engineering College,

Nerul, Navi Mumbai – 4000706

Subject: - Regarding Permission for conducting Value Added Course Basics of Staad-Pro.

Respected Sir,

Requirement of proficiency in software has become essential for students. In view of this we have decided to conduct an Value Added Course on Basics of Staad-Pro in Association with Bentley Education, USA during the academic year 2023 – 24 for semester-IV students. I request you to provide the permission to conduct the same. The selected course will be useful to students for learning basics of structural Analysis which will help students to set their skills and carry final year project using Staad-Pro software. Instructor of this course will be our faculty.

Kindly provide permission to do the same.

Thanking You.

Yours Faithfully.

Mr. Jamaluddin Maghrabi
AOC Incharge

Dr. Priyanka Salunkhe
HoD

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Fax No.+91 22 61115400 Web :www.terna.org.in, e- mail : principal@terna.org

Department of Civil Engineering

ACADEMIC YEAR 2023 – 2024

1. Title of the course : Value Added Course (STAAD-Pro)
2. Objective of the course : To make student learn Staad Pro Software which is required for analysis and design of structure. This will be beneficial to student for their final year project.
3. Prerequisite : Basics of Structural Analysis
4. Beneficiary : Students and Faculties
5. Date & Duration of the course:.08.01.2024 to 19.04.2024
6. No of hours required : 40 Hours
7. Internal Resources : Mr. Pradip Sonawane.
8. Internal Assessment : Assignment
9. Contents of the course : Enclosed
10. Credits / Certification : 75% attendance & submission of assignment are eligible for certification.
11. Venue : Civil Engineering Computer Lab.

Course Coordinator

HOD

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About Institute

Terna Public Charitable Trust's Terna Engineering College is one of the well-known and premium technical institute. It is located at Nerul, Navi Mumbai on a beautiful 3 acre campus. The institute is affiliated to University of Mumbai, approved by AICTE and accredited by National Board of Accreditation (NBA). This institution offers 7 UG, 4 PG and 3 PhD courses. Highest quality education is catered with curriculum extension by means of exceptional offerings like Engineering Products and Innovation Center (EPIC), Remote centre of IIT Bombay which facilitates student / faculty members to interact with IIT professors through video conferencing, Industry Institute Interaction Cell, Electronics club (collaboration with 25 local electronics SMEs), e-Yantra Embedded Systems and Robotics Lab, Apple lab, Texas Instruments Lab. We are a diverse, talented community united by passion for learning and quest for more. Terna motivates students to make a difference in our campus, in the state, country and around the world.

2.1 About Department

The Department of Civil Engineering was established in the year 2017. The Mission of Department is to promote the disciplines of Planning, Design, Construction, Operation, Maintenance and Research. It offers students technical knowledge with technique for better utilization of available resources and greater standardization of construction processes required by construction industry. We intend to develop students by giving training to make use of innovative design methods, techniques and practical implementation. Highly qualified and dedicated faculty are recruited and they are always on their toes to guide the students, form the backbone of the department.

Key Features:

- Well Equipped Laboratories – Materials and Concrete Technology, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, Engineering Geology, CAD Laboratory, Surveying Laboratory, Hydraulics and Fluid Mechanics Laboratories
- Consultancy Services Offered and Fully Equipped With Major Facilities Like Fully Automatic Compression Testing Machine 2000 kN (NABL Accredited), Fully Automatic Universal Testing Machine (UTM 1000 kN- NABL Accredited), Fully Automated Total Station for Professional Surveying
- Consultancy Services Offered for Non-Destructive Testing
- Faculties with Experience in Design and Execution of Residential, Commercial, Oil & Gas, Power Projects

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- Faculties with Experience in Research in the Field of Smart Materials & Smart Structures, Pavement Design & Analysis, Geotextile Materials for Soil Stabilization, Geotechnical Engineering, Remote Sensing & GIS
- Active Mentoring Processes for Continuous Assessment in Academics
- Learning Experience Through Active Consultancy Projects
- Industrial Visits-CIDCO, PWD, MMRDA, Rock Museum Nasik
- Internship for Students (With & Without Stipend)
- International Students Chapter Association & Merit Scholarships
- Expert Lectures by Industry Experts
- NPTEL Courses
- Skill Based, Project Based Learning, Interactive and Interest Based Core Domain Learning
- Patents, Designs and Copyright Development
- Achieved 100 % placement in AY 2022-23. Many students completed internship during winter vacations (2022) in renowned organizations like, Public Work Department (PWD), City and Industrial Development Corporation (CIDCO), and many more.

3. About Course

An add on course of basic training of STAAD-Pro software has been introduced by the Department of Civil Engineering, Terna Engineering College, Navi Mumbai for S.E.(Civil) students. This course is beyond their regular syllabus. This will be beneficial to students for their project work and ready for industry. Duration of course will be 30 hrs.

4. About Instructors

This course will be conducted by Mr.Pradeep Sonawane

- Mr.Pradeep Sonawane faculty of TEC having 8 years of teaching experience. He having 1 Year field experience in building construction work. He has carried out Planning, analysis & Design of different residential project work.

5. Course Scheme

The marking scheme of this course has been decided at the institute and the departmental level.

VALUE ADDED COURSE:-Basics of STAAD-Pro

Contact Hours: - 02 per week (Total 40)

Sem. : - IV

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Syllabus

Topic No.	Contents	Hours
1	Introduction to STAAD-Pro, Silent features , Menu of Preprocessor & Post processor	3
2	Modeling of structures with commands of Staad	3
3	Validation of Software with manual calculation for simply supported beam	6
4	Analysis of Beams with different types of loadings and support with exercises	6
5	Analysis of Plane Frame with different types of loadings and support with exercises	6
6	Analysis of Space Frame with floor loads, with exercises	6
7	Loads and load combinations as per IS codes	2
8	Modeling of G+2 residential building	8
	TOTAL	40

7. Course Objective and Course Outcome

After completion of course the student will be able to model, analyse and interpret the results from software

Course Objective

1. To provide basic knowledge of different Software in Civil Engineering.
2. To validate the software with manual calculations.
3. To understand and apply the basic functions of software.
4. To understand applications of codes in software.
5. To prepare the database and perform its statistical analysis using relevant software.

Course Outcome

On completion of this course, the students will be able to:

CO1- To understand the functions involved in various software related to civil engineering field.

CO2- To understand the various commands of software

CO3- To analyse the different types of structural members.

CO4- To understand loads and load combinations to be applied to the structure

CO5- To Provide hands-on training on analysis, modeling and design of R. C. C. framed structures.

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rogram Outcome

PO 1: -Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2: - Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

PO 3: - Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4: - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5: - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6: - The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: - Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8: - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: - Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: - Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12: - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcome

PSO 1: - Graduates will be able to plan, analyse, design and drawing and estimate for residential, commercial, industrial and infrastructure projects.They will be able to work on site for supervision of various construction activities.

PSO 2: - Graduates will be able to use different software related to Civil Engineering for developing skills required by the industry.

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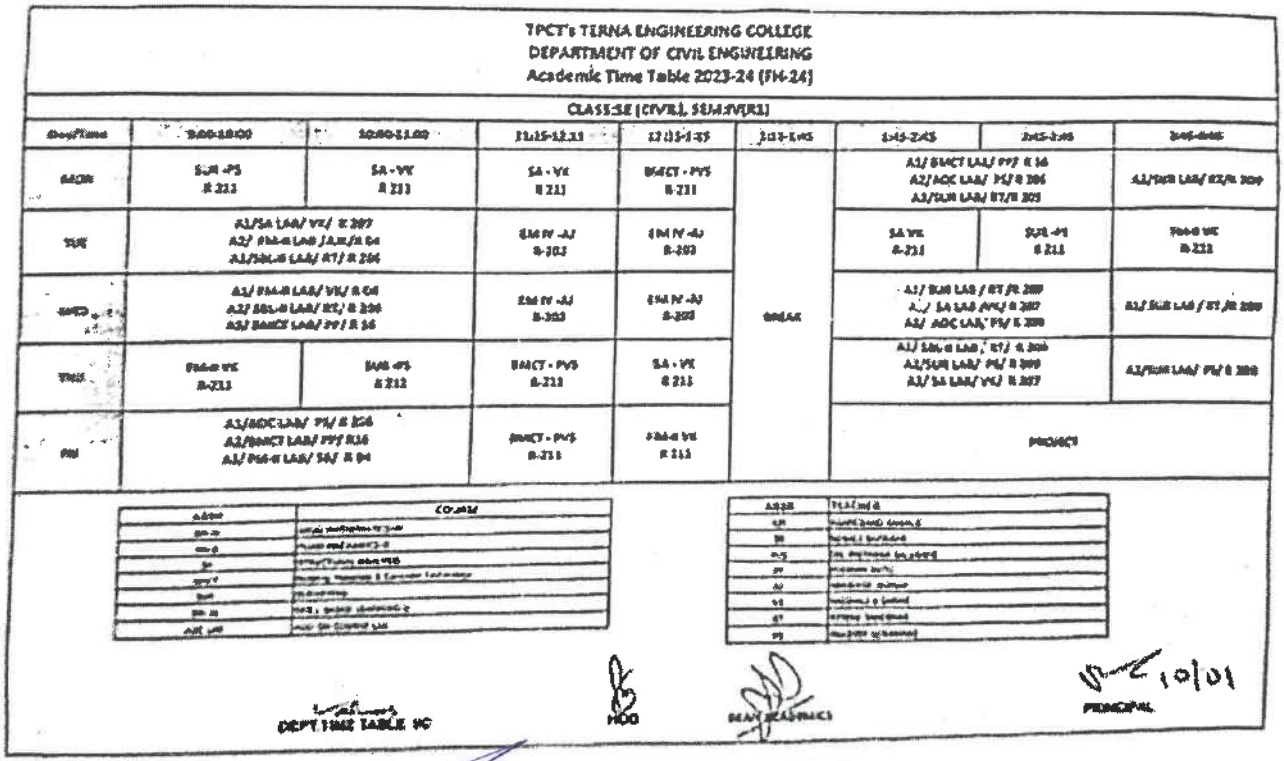
Mapping CO, PO and POS

Practical No.	Name of Experiment	CO	PO	PSO
1	Introduction to STAAD-Pro, Silent features , Menu of Pre-processor & Post processor	1	1,3,5,8,9,12	2
2	Modelling of structures with commands of Staad	2	1,2,3,5,8,9,12	2
3	Validation of Software with manual calculation for simply supported beam	2	1,2,3,5,8,9,12	2
4	Analysis of Beams with different types of loadings and support with exercises	3	1,2,3,5,8,9	2
5	Analysis of Plane Frame with different types of loadings and support with exercises	3	1,2,3,5,8,9	2
6	Analysis of Space Frame with floor loads, with exercises	3	1,2,3,5,8,9	2
7	Loads and load combinations as per IS codes	4	1,2,3,5,8,9	2
8	Modeling of G+2 residential building	5	1,2,3,5,8,9	2

9. Schedule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DEPARTMENT OF CIVIL ENGINEERING
Academic Time Table 2023-24 (FH-24)

CLASS:SE (CIVIL), SEM:IV(R2)

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J. List of Students:

Sr. No.	Roll No.	Student Name	Sr. No.	Roll No.	Student Name
1	A01	Verma Samar	31	A31	Chandawale Aditya Vijay
2	A02	Mundhe Rohan	32	A32	Parab Prerna Kamlakar
3	A03	Karhadkar Ananya Shreenand	33	A33	Mokal Sanskruti Narendra
4	A04	Mhatre Tejas Chandrahas	34	A34	Birje Jayesh Mahesh
5	A05	Jundare Sujal Pravin	35	A35	Kindre Sakshi Anant
6	A06	Shaikh Sahil Raju	36	A36	Valvi Vipul Vikram
7	A07	Thakur Himanshu Deepak	37	A37	Joshi Mayuresh Nilesh
8	A08	Elegam Sarvesh Posamallu	38	A38	Nanavare Pragati Madhukar
9	A09	Madachane Sharwari Sagar	39	A39	Shinde Trupti Anil
10	A10	Desai Aniruddha Ajit	40	A40	Koli Anisha Rajesh
11	A11	Malap Ayush Bhagwan	41	A41	Juvale Kunal Naresh
12	A12	Palve Pratap Shamrao	42	A42	Salunkhe Soham Krishna
13	A13	Deshmukh Pratik Pratap	43	A43	Ingale Komal Sanjay
14	A14	Singh Karan Bijayendrapratap	44	A44	Patil Shantanu Vikas
15	A15	Makhija Mohnish Sandeep	45	A45	Khatu Siddhant Sachin
16	A16	Parkar Tanvi Vinayak	46	A46	Sanap Vidhiti Babasaheb
17	A17	Kurhade Chaitali Harishchandra	47	A47	Netake Prem Kundalik
18	A18	Pashte Viraj Ravindra	48	A48	Dhobale Hrushikesh Subhash
19	A19	Ghadage Prem Pratap	49	A49	Shirke Bhoomi Santosh
20	A20	Kumthekar Aaditya Sanjay	50	A50	Patil Kshitij Umesh
21	A21	Raut Saurabh Vikas	51	A51	Warde Vaibhavi Ramesh
22	A22	Panvalkar Ninad Sudarshan	52	A52	Wajge Yash Yogesh
23	A23	Sable Priyansh Vandan	53	A53	Kamble Bhagyashri Babasaheb
24	A24	Chavan Varunraj Balu	54	A54	Patil Sahil Pralhad
25	A25	Gangurde Chaitanya Mahesh	55	A55	Gurav Pratik Shashikant
26	A26	Qureshi Md Raza Firoz	56	A56	Sangle Himanshu Mangesh
27	A27	Takale Rupali Dhula	57	A57	Aher Swaraj Gulab
28	A28	Kamble Om Satish	58	A58	Bhosale Atharv Santaji
29	A29	Tupe Shubham Ramesh	59	A59	Desai Vaishnavi Balkrishna
30	A30	Shinde Rucha Ramesh			

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Attendance

A1 Batch

A1 Batch																								
Roll No.	Students Name	08-Jan	15-Jan	22-Jan	27-Jan	27-Jan	29-Jan	05-Feb	12-Feb	17-Feb	26-Feb	26-Mar	09-Mar	11-Mar	15-Mar	18-Mar	24-Mar	01-Apr	06-Apr	08-Apr	13-Apr	Total	% Atten.
A01	VERMA SAMAR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	100
A02	MUNDHE ROHAN		1	1	1		1	1			1	1	1	1	1	1	1	1	1	1	1	16	80
A03	KARHADKAR ANANYA\ SHREENAND	1	1		1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	17	85
A04	MHATRE TEJAS CHANDRAKAS	1		1	1		1		1	1	1	1		1	1	1	1	1		1	1	15	75
A05	JUNDARE SUJAL PRAVIN		1	1	1		1	1	1	1		1	1	1		1	1	1		1	1	15	75
A06	SHAIKH SAHIL RAJU		1	1	1		1	1		1	1	1	1		1	1	1	1	1	1	1	16	80
A07	THAKUR HIMANSHU DEEPAK		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	18	90
A08	ELEGAM SARVESH POSAMALLU		1	1	1	1	1		1	1	1		1	1	1		1	1		1	1	15	75
A09	MADACHANE SHARWARI SAGAR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	100
A10	DESAI ANIRUDDHA AJIT		1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	18	90
A11	MALAP AYUSH BHAGWAN	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	18	90
A12	PALVE PRATAP SHAMRAO		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	95
A13	DESHMUKH PRATIK PRATAP	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	18	90
A14	SINGH KARAN BIJAYENDRAPRATAP				1	1	1	1	1				1			1		1	1			9	45
A15	MAKHIJA MOHNISH SANDEEP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	100
A16	PARKAR TANVI VINAYAK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	100
A17	KURHADE CHAITALI HARISHCHANDRA	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	95
A18	PASHTE VIRAJ RAVINDRA		1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	18	90
A19	GHADAGE PREM PRATAP	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	19	95
A20	KUMTHEKAR AADITYA SANJAY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	100

A2 Batch																								
Roll No.	Students Name	10-Jan	17-Jan	20-Jan	24-Jan	31-Jan	07-Feb	10-Feb	14-Feb	24-Feb	28-Feb	06-Mar	13-Mar	16-Mar	20-Mar	27-Mar	30-Mar	03-Apr	06-Apr	10-Apr	11-Apr	Total	% Atten.
A21	RAUT SAURABH VIKAS		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	95
A22	PANVALKAR NINAD SUDARSHAN	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	18	90
A23	SABLE PRIYANSH VANDAN		1	1	1	1	1	1	1	1	1		1	1	1		1	1	1	1	1	17	85
A24	CHAVAN VARUNRAJ BALU		1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	18	90
A25	GANGURDE CHAITANYA MAHESH GANGURDE	1		1	1	1	1	1	1		1	1	1		1	1	1	1	1	1	1	17	85
A26	QURESHI MD RAZA FIROZ	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	100
A27	TAKALE RUPALI DHULA	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	18	90
A28	KAMBLE OM SATISH		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	95
A29	TUPE SHUBHAM RAMESH	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	18	90
A30	SHINDE RUCHA RAMESH	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	18	90
A31	CHANDAWALE ADITYA VIJAY		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	100
A32	PARAB PREENA KAMLAKAR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	95
A33	MOKAL SANSKRUTI NARENDRA	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	18	90
A34	BIRJE JAYESH MAHESH		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	100
A35	KINDRE SAKSHI ANANT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	100
A36	VALVI VIPUL VIKRAM																					0	0
A37	JOSHI MAYURESH NILESH	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1		1	1	1	18	90
A38	NANAVARE PRAGATI MADHUKAR		1	1	1		1	1	1	1	1		1	1	1	1	1		1	1	1	16	80
A39	SHINDE TRUPTI ANIL	1		1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	18	90
A40	KOLI ANISHA RAJESH	1	1	1	1		1	1	1	1	1		1	1	1	1	1		1	1	1	17	85

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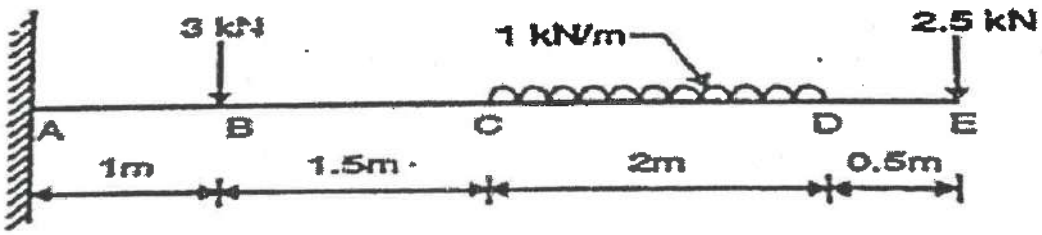
A3 Batch																								
Roll No.	Students Name	12-Jan	19-Jan	20-Jan	24-Jan	31-Jan	02-Feb	09-Feb	16-Feb	17-Feb	23-Feb	29-Feb	03-Mar	09-Mar	15-Mar	22-Mar	27-Mar	05-Apr	10-Apr	13-Apr	19-Apr	Total	% Attendance
A41	JIVALE KUNAL NARESH	1		1	1	1	1	1	1		1	1	1	1	1	1	1		1	1	1	17	85
A42	SALUNKHE SOHAM KRISHNA	1	1	1	1		1	1	1	1	1	1	1		1	1	1		1	1	1	17	85
A43	INGALE KOMAL SANJAY	1		1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	18	90
A44	PATIL SHANTANU VIKAS		1	1		1	1	1	1		1	1	1	1	1		1	1	1		1	15	75
A45	KHATU SIDDHANT SACHIN		1	1	1	1		1	1	1		1	1	1		1	1	1		1	1	15	75
A46	SANAP VIDHITI BABASAHEB	1		1	1		1	1	1	1			1		1	1	1	1	1	1	1	15	75
A47	NETAKE PREM KUNDALIK		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	95
A48	DHOBALE TRUSHIKESH SUBHASH		1	1	1	1	1	1			1	1	1	1	1	1	1	1		1		15	75
A49	SHIRKE BHOOMI SANTOSH	1		1	1		1		1	1	1	1	1	1	1		1	1	1	1	1	16	80
A50	PATIL KSHITIJ UMESH	1	1			1	1	1	1	1	1	1	1	1	1	1			1	1	1	16	80
A51	WARDE VAIBHAVI RAMESH		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	95
A52	WAIGE YASH YOGESH	1		1	1	1		1	1	1	1		1	1	1		1	1		1	1	15	75
A53	KAMBLE BHAGYASHRI BABASAHEB																					0	0
A54	PATIL SAHIL PRALHAD	1	1	1	1	1		1	1	1	1	1	1		1	1	1		1			15	75
A55	GURAV PRATIK SHASHIKANT	1	1		1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	17	85
A56	SANGLE HIMANSHU MANGESH	1		1	1		1	1	1			1	1	1	1	1		1	1	1	1	15	75
A57	AHER SWARAJ GULAB	1	1		1	1	1		1	1	1	1		1	1		1	1	1	1	1	16	80
A58	BHOSALE ATHARV SANTAJI																					0	0
A59	DESAI VAISHNAVI BALKRISHNA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	100

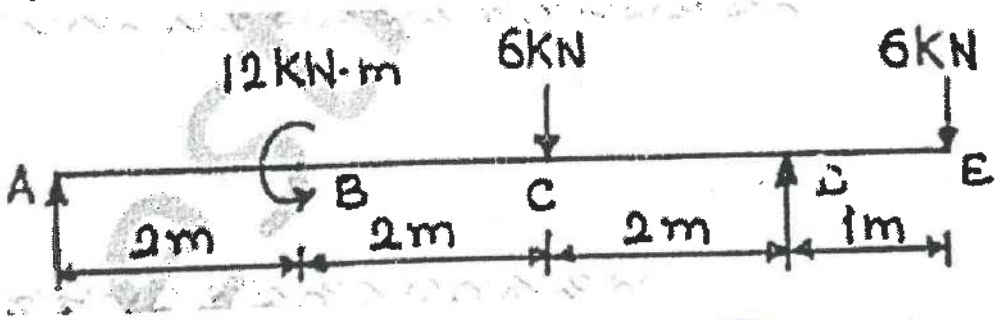
12. Assignments

12.1 Assignment No.1

1. Analyse the beam in STAAD-PRO and prepare a report.



2. Analyse the beam in STAAD-PRO and prepare a report.



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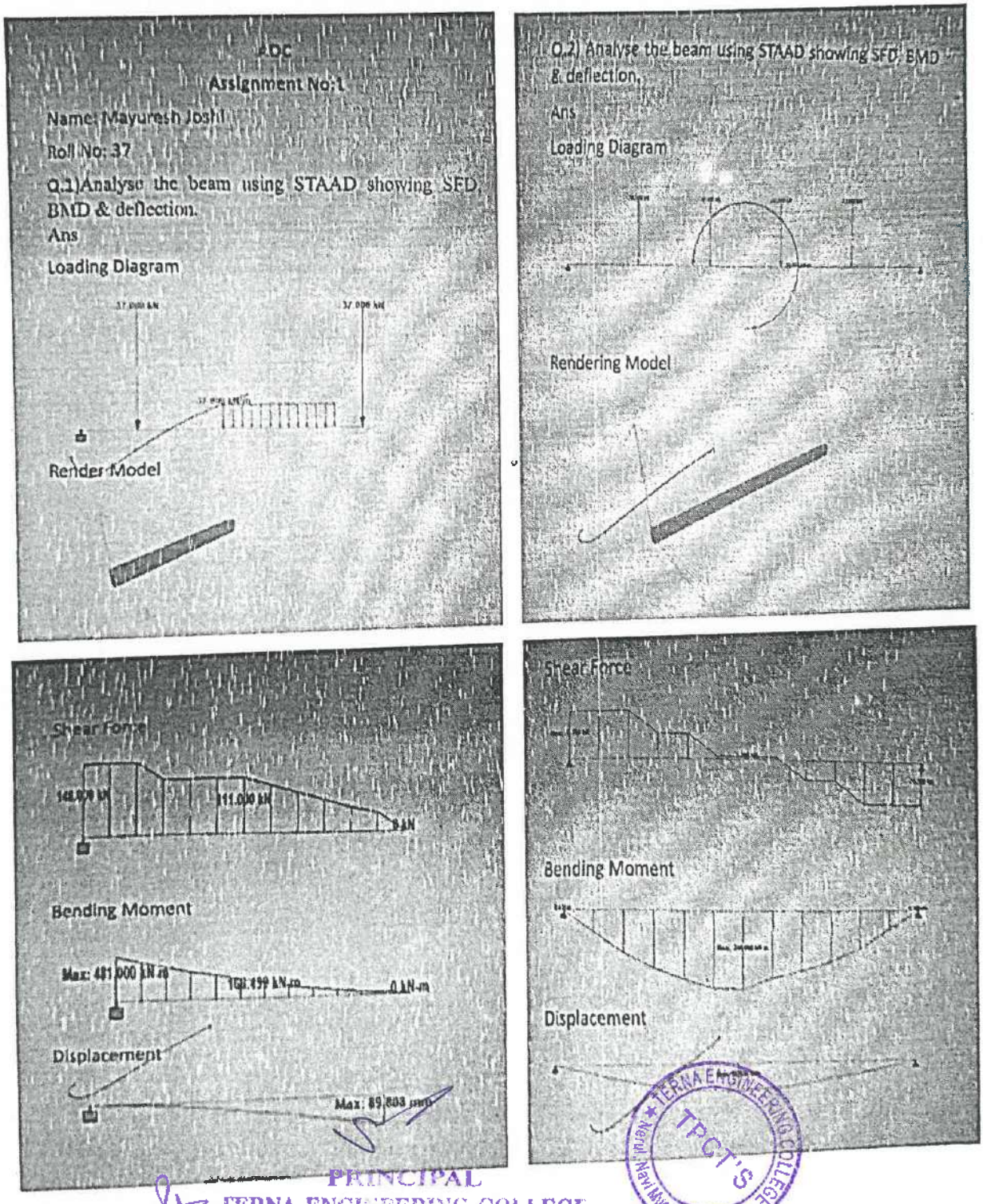
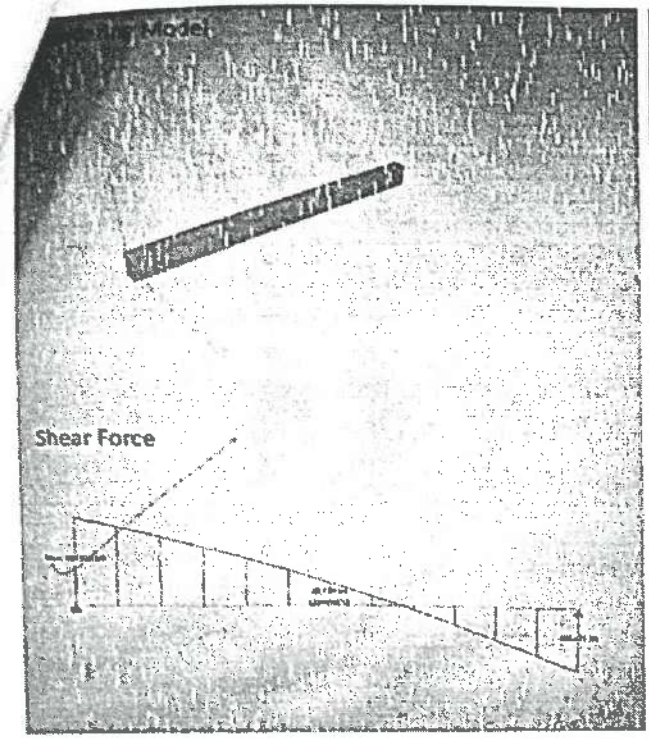
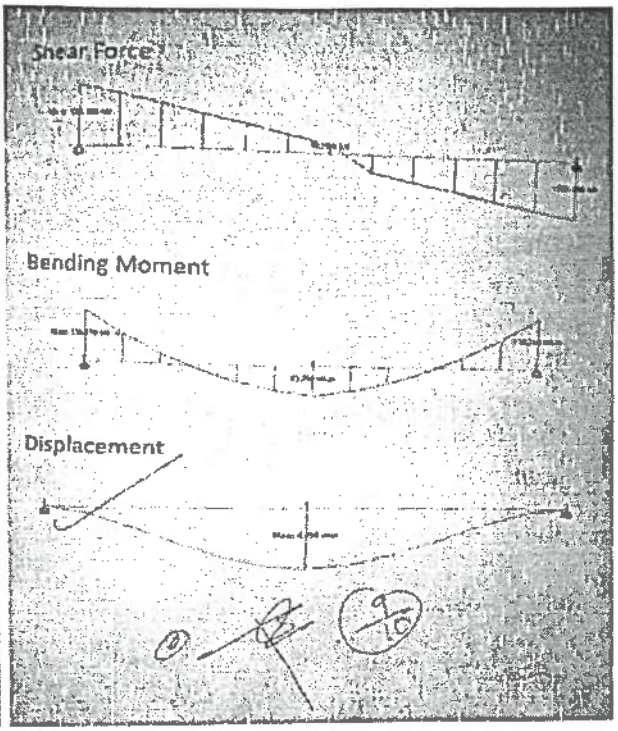
A fixed beam having span 6m carries a point load of 40kN at midspan.It also carries udl of 6kN/m over entire span. Analyse the beam using STAAD-PRO showing SFD,BMD & deflection.

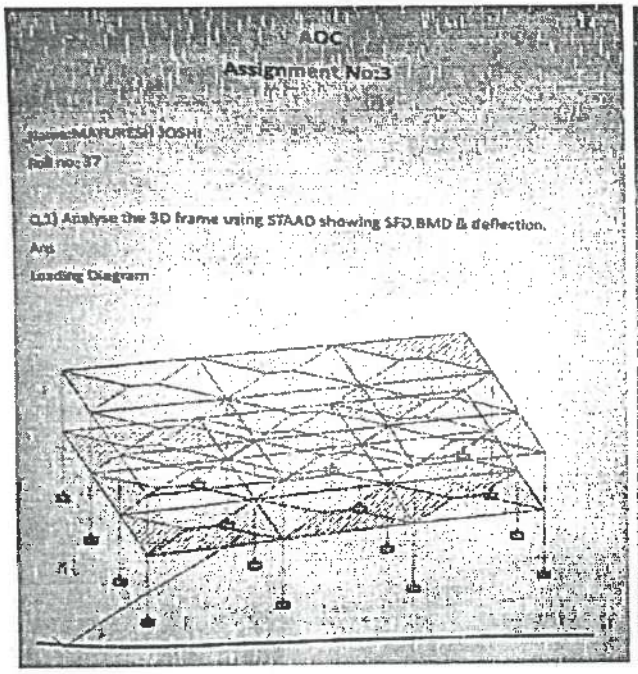
4. A 10m long beam having one end hinged and other roller support carries a clockwise moment of 10kNm at midspan and four point loads of 20 kN each at every 2m. Analyse the beam using STAAD-PRO showing SFD,BMD & deflection.

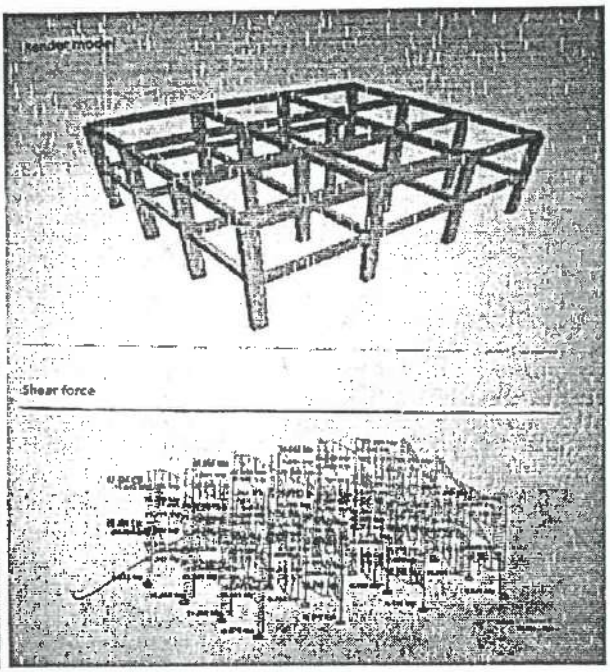
12.2 Sample Submission of Assignment No. 1











13. Rubrics for Evaluation TW

Assignments will be assigned to students each of 10 Marks. Marks will be credited as below.

Sr. No.	Description	Marks
1.	Modelling	4
2.	Successful run of Staad file	4
3.	SFD & BMD with deflected shapes	2

Credits / Certification : Those who have 75% attendance are eligible for certification.

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			Assignment-1				Assignment-2				Assignment-3				Assignment-4				Assignment-5			
			P	S	V	T	P	S	V	T	P	S	V	T	P	S	V	T	P	S	V	T
A01	TU7F2122043	VERMA SAMAR	2	2	1	5	1	2	1	8	1	2	2	7	3	2	1	6	1	2	1	6
A02	TU7F2122037	MUNDHE ROHAN	2	2	1	5	2	2	1	1	2	2	1	5	2	2	1	5	2	2	1	5
A03	TU7F2223001	KARHADKAR ANANYA SHREENAND	3	2.5	2	7.5	4	2	2	8	4	2	2	8	4	2	2	8	4	2	2	8
A04	TU7F2223002	MHATRE TEJAS CHANDRAKAS	3	2	1	6	3	2	1	6	1	2	3	6	3	2	3	8	3	2	2	7
A05	TU7F2223003	JUNDARE SUJAL PRAVIN	2	2	1	5	3	2	2	7	1	2.5	2	7.5	3	2.5	2	7.5	4	2	2	8
A06	TU7F2223004	SHAIKH SAHIL RAJU	3	2	2	7	3	2	2	7	3	2.5	2	7.5	4	2	2	8	4	2	2	8
A07	TU7F2223006	THAKUR HIMANSHU DEEPAK	3	2	2	7	3	2	2	7	4	2	2	8	4	2	2	8	4	2.5	2	8.5
A08	TU7F2223010	ELEGAM SARVESH POSAMALLU	4	2	2	8	4	2	2	8	4	2	2	8	3	2	2	7	3	2	2	7
A09	TU7F2223013	MADACHANE SHARWARI SAGAR	3	2	2	7	3	2	2	7	4	2	2	8	3	2.5	2	7.5	4	2.5	2	8.5
A10	TU7F2223015	DESAI ANIRUDDHA AJIT	3	2	1	6	2	2	1	5	3	2	1	6	3	2	1	6	3	2	2	7
A11	TU7F2223019	MALAP AYUSH BHAGWAN	3	2	2	7	4	2	2	8	3	2	2	7	3	2	2	7	4	2	2	8
A12	TU7F2223020	PALVE PRATAP SHAMRAO	3	2	2	7	4	2	2	8	3	2	2	7	4	2	2	8	4	2	2	8
A13	TU7F2223024	DESHMUKH PRATIK PRATAP	3	2	2	7	3	2	2	7	3	2	1	6	3	2	2	7	3	2	2	7
A14	TU7F2223028	SINGH KARAN BIJAYENDRAPRATAP				0				0				0				0				
A15	TU7F2223032	MAKHIJA MOHNISH SANDEEP	4	3	2	9	4	2.5	2	8.5	4	3.5	2	9.5	4	3	2	9	4	4	2	10
A16	TU7F2223035	PARKAR TANVI VINAYAK	4	2	2	8	4	2	2	8	4	2.5	2	8.5	4	2.5	2	8.5	4	3	2	9
A17	TU7F2223040	KURITADE CHAITALI HARISHCHANDRA	3	2	2	7	4	2	2	8	4	2	2	8	4	3	2	9	4	1	2	9
A18	TU7F2223041	PASITE VIRAJ RAVINDRA	3	2	2	7	3	2	2	7	4	2	2	8	4	2	2	8	4	2	2	8
A19	TU7F2223042	GHADAGE PREM PRATAP	3	2.5	2	7.5	3	2	2	7	4	2	2	8	4	2	2	8	4	2	2	8
A20	TU7F2223043	KUMTHEKAR AADITYA SANJAY	3	2	2	7	3	2	2	7	3	2	2	7	3	2	2	7	3	2	2	7
A21	TU7S2324001	RAUT SAURABH VIKAS	4	2	2	8	4	2	2	8	4	2.5	2	8.5	4	2.5	2	8.5	4	3	2	9
A22	TU7S2324002	PANVALKAR NINAD SUDARSHAN	3	2	2	7	3	2.5	2	7.5	4	2	2	8	4	3	2	9	4	3	2	9
A23	TU7S2324003	SABLE PRIYANSH VANDAN	3	2	1	6	3	2	1	6	3	2	2	7	3	2	2	7	4	2	2	8
A24	TU7S2324004	CHAVAN VARUNRAJ BALU	3	2.5	2	7.5	4	2	2	8	4	3	2	9	4	3	2	9	4	4	2	10
A25	TU7S2324005	GANGURDE CHAITANYA MAHESH GANGURDE	3	2	2	7	4	2	2	8	4	2	2	8	4	2	2	8	4	1	2	9
A26	TU7S2324006	QURESHI MD RAZA FIROZ	4	4	2	10	4	3.5	2	9.5	4	3	2	9	4	3	2	9	4	4	2	10
A27	TU7S2324007	TAKALE RUPALI DHULA	4	2.5	2	8.5	4	2.5	2	8.5	4	3	2	9	4	3	2	9	4	4	2	10
A28	TU7S2324008	KAMBLE OM SATISH	2	2	1	5	2	2	1	5	3	2	1	6	3	2	1	6	3	2	1	6
A29	TU7S2324009	TUPE SHUBHAM RAMESH	4	4	2	10	4	4	2	10	4	3.5	2	9.5	4	3	2	9	4	4	2	10
A30	TU7S2324010	SHINDE RUCHA RAMESH	3	3	2	8	3	3	2	8	3	2.5	2	7.5	3	2	2	7	3	2	2	7
A31	TU7S2324011	CHANDAWALE ADITYA VIJAY	3	2	2	7	3	2	2	7	3	2	1.5	6.5	3	2	2	7	3	2	2	7
A32	TU7S2324012	PARAB PRERNA KAMLAKAR	4	4	2	10	4	3	2	9	4	3	2	9	4	3	2	9	4	4	2	10
A33	TU7S2324013	MOKAL SANSKRUTI NARENDRA	4	3	2	9	4	3	2	9	4	3	2	9	4	3	2	9	4	3.5	2	9.5
A34	TU7S2324014	BIRJE JAYESH MAHESH	3	2	2	7	3	2.5	2	7.5	4	2	2	8	4	3	2	9	4	4	2	10
A35	TU7S2324015	KINDRE SAKSHI ANANT	4	2	2	8	4	2	2.5	8.5	4	2	2.5	8.5	4	3	2	9	4	3.5	2	9.5
A36	TU7S2324016	VALVI VIPUL VIKRAM				0				0				0				0				0
A37	TU7S2324017	JOSHI MAYURESH NILESH	4	3	2	9	4	3	2	9	4	3.5	2	9.5	4	3	2	9	4	4	2	10
A38	TU7S2324018	NANAVARE PRAGATI MADHUKAR	3	2	2	7	3	2	2	7	4	2	2	8	3	2	2	7	4	2	2	8
A39	TU7S2324019	SHINDE TRUPTI ANIL	4	4	2	10	4	2.5	2	8.5	4	3	2	9	4	3	2	9	4	4	2	10
A40	TU7S2324020	KOLI ANISHA RAJESH	3	2.5	2	7.5	3	2.5	2	7.5	4	2.5	2	8.5	4	2.5	2	8.5	4	1	2	9
A41	TU7S2324021	JUVALE KUNAL NARESH	3	2	2	7	3	2.5	2	7.5	4	2	2	8	4	2	2	8	4	3	2	9
A42	TU7S2324022	SALUNKHE SOHAM KRISHNA	3	2	1	6	3	2	1	6	3	2	1	6	3	2	2	7	3	2	2	7
A43	TU7S2324023	INGALE KOMAL SANJAY	4	2	2	8	4	2.5	2	8.5	4	3	2	9	4	3	2	9	4	3	2	9
A44	TU7S2324025	PATIL SHANTANU VIKAS	4	2	2	8	4	2.5	2	8.5	4	3	2	9	4	3	2	9	4	3	2	9
A45	TU7S2324026	KHATU SIDDHANT SACHIN	3	2	1	6	3	2	1	6	3	2	1	6	3	2	2	7	3	2	2	7
A46	TU7S2324024	SANAP VIDHITI BABASAHEB	3	2	2	7	3	2	2	7	3	2	2	7	3	2	2	7	4	2	2	8
A47	TU7S2324027	KETAKE PREM KUNDALIK	3	2	2	7	4	2	2	8	4	3	2	9	4	3	2	9	4	3	2	9
A48	TU7S2324028	DHOBALE HRUSHIKESH SUBHASH	3	2	1	6	3	2	2	7	3	2	2	7	3	2	2	7	3	2	2	7
A49	TU7S2324029	SHIRKE DHOOMI SANTOSH	2	2	1	5	3	2	1	6	2	2	1	5	3	2	2	7	3	2	1	6
A50	TU7S2324032	PATIL KSHITIJ UMESH	3	2	1	6	3	2	2	7	4	2	2	8	4	2	2	8	4	3	2	9
A51	TU7S2324031	WARDE VAIBHAVI RAMESH	4	4	2	10	4	3	2	9	4	2.5	2	8.5	4	3	2	9	4	3.5	2	9.5
A52	TU7S2324030	WAIGE YASH YOGESH	3	2	2	7	3	2	2	7	3	2	1	6	3	2	1	6	3	2	1	6
A54	TU7S2324034	PATIL SAHIL PRALHAD	3	2	1	6	3	2	1	6	3	2	1	6	3	2	2	7	3	2	2	7
A55	TU7S2324036	GURAV PRATIK SHASHIKANT	4	2	2	8	4	2	2	8	3	2	2	7	4	2	2	8	4	3	2	9
A56	TU7S2324038	SANGLE HIMANSHU MANGESH	3	2	1	6	2	2	4	8	3	2	2	7	3	1	1	5	3	2	1	6
A57	TU7S2324037	AHER SWARAJ GULAB	3	2	2	7	3	2.5	2	7.5	4	2	2	8	4	2	2	8	4	2.5	2	8.5
A58	TU7S2324035	BHOSALE ATHARV SANTAJI				0				0				0				0				0
A59	TU7S2324039	DESAI VAISHNAVI BALKRISHNA	4	2	2	8	4	2	2	8	4	2	2	8	4	2	2	8	4	2.5	2	8.5

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Results

Sr. No.	Roll No.	Name of Student	Status
1	A01	Verma Samar	Qualified
2	A02	Mundhe Rohan	Qualified
3	A03	Karhadkar Ananya Shreenand	Qualified
4	A04	Mhatre Tejas Chandrahas	Qualified
5	A05	Jundare Sujal Pravin	Qualified
6	A06	Shaikh Sahil Raju	Qualified
7	A07	Thakur Himanshu Deepak	Qualified
8	A08	Elegam Sarvesh Posamallu	Qualified
9	A09	Madachane Sharwari Sagar	Qualified
10	A10	Desai Aniruddha Ajit	Qualified
11	A11	Malap Ayush Bhagwan	Qualified
12	A12	Palve Pratap Shamrao	Qualified
13	A13	Deshmukh Pratik Pratap	Not Qualified
14	A14	Singh Karan Bijayendrapratap	Qualified
15	A15	Makhija Mohnish Sandeep	Qualified
16	A16	Parkar Tanvi Vinayak	Qualified
17	A17	Kurhade Chaitali Harishchandra	Qualified
18	A18	Pashte Viraj Ravindra	Qualified
19	A19	Ghadage Prem Pratap	Qualified
20	A20	Kumthekar Aaditya Sanjay	Qualified
21	A21	Raut Saurabh Vikas	Qualified
22	A22	Panvalkar Ninad Sudarshan	Qualified
23	A23	Sable Priyansh Vandan	Qualified
24	A24	Chavan Varunraj Balu	Qualified
25	A25	Gangurde Chaitanya Mahesh	Qualified
26	A26	Qureshi Md Raza Firoz	Qualified
27	A27	Takale Rupali Dhula	Qualified
28	A28	Kamble Om Satish	Qualified
29	A29	Tupe Shubham Ramesh	Qualified
30	A30	Shinde Rucha Ramesh	Qualified
31	A31	Chandawale Aditya Vijay	Qualified

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32	A32	Parab Prerna Kamlakar	Qualified
33	A33	Mokal Sanskruti Narendra	Qualified
34	A34	Birje Jayesh Mahesh	Qualified
35	A35	Kindre Sakshi Anant	Qualified
36	A36	Valvi Vipul Vikram	Not Qualified
37	A37	Joshi Mayuresh Nilesh	Qualified
38	A38	Nanavare Pragati Madhukar	Qualified
39	A39	Shinde Trupti Anil	Qualified
40	A40	Koli Anisha Rajesh	Qualified
41	A41	Juvale Kunal Naresh	Qualified
42	A42	Salunkhe Soham Krishna	Qualified
43	A43	Ingale Komal Sanjay	Qualified
44	A44	Patil Shantanu Vikas	Qualified
45	A45	Khatu Siddhant Sachin	Qualified
46	A46	Sanap Vidhiti Babasaheb	Qualified
47	A47	Netake Prem Kundalik	Qualified
48	A48	Dhobale Hrushikesh Subhash	Qualified
49	A49	Shirke Bhoomi Santosh	Qualified
50	A50	Patil Kshitij Umesh	Qualified
51	A51	Warde Vaibhavi Ramesh	Qualified
52	A52	Wajge Yash Yogesh	Qualified
53	A53	Kamble Bhagyashri Babasaheb	Not Qualified
54	A54	Patil Sahil Pralhad	Qualified
55	A55	Gurav Pratik Shashikant	Qualified
56	A56	Sangle Himanshu Mangesh	Qualified
57	A57	Aher Swaraj Gulab	Qualified
58	A58	Bhosale Atharv Santaji	Not Qualified
59	A59	Desai Vaishnavi Balkrishna	Qualified

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4. Feedback

https://docs.google.com/forms/d/e/1FAIpQLSdyREFZIt1oM5q5akjNyX16ck8yE0ATBHwBavs7oqm2k5ZQ3Q/viewform?usp=sf_link

ADD ON COURSE (Basics of Staad-Pro) FH-24

B I U

This form is for collecting feedback for the skill based training program conducted by the Civil Engineering Department from January 2024 to April 2024. Students should give a genuine feedback

Email ID *

Short answer text

Name of Student *

Short answer text

Roll NO. *

Short answer text

Batch *

- A1
- A2
- A3

Do you feel STAAD Pro ADD ON COURSE was beneficial for you? *

- YES
- NO

How was the curriculum of the STAAD Pro AOC program? Did it cover sufficient usage of the software? *

- EXCELLENT
- VERY GOOD
- GOOD
- FAIR
- POOR

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Was the STAAD Pro curriculum completed as planned? *

- YES
- NO

Did the STAAD pro course was helpful for understanding structural Engineering. *

- YES
- NO

Were your queries resolved *

- YES
- NO

Were you able to practice along with the instructor? *

- YES
- NO

How would you rate the course content in terms of being easy to follow? *

- EXCELLENT
- VERY GOOD
- GOOD
- FAIR
- POOR

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TERNA ENGINEERING COLLEGE
DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

OF COMPLETION FOR
ADD -ON COURSE (EXIT - COURSE)
PROUDLY PRESENTED TO

Chakor Shubham

This certificate is awarded in recognition of the successful completion of the value added course for ADD-ON COURSE (EXIT - COURSE) during Semester VIII from January - April 2024

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

TERNA ENGINEERING COLLEGE
DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

OF COMPLETION FOR
ADD -ON COURSE (EXIT - COURSE)
PROUDLY PRESENTED TO

Koli Sagarika Nitin

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr Priyanka Salunkhe
HOD

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Badgujar Kalpesh

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr Priyanka Salunkhe
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PROUDLY PRESENTED TO

Dhansay Zaid Zafarullah

Mr Dharmesh Gangani
FACULTY INCHARGE

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Prasad Shubham

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr Priyanka Salunkhe
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Parab Rohan Rajan

Mr Dharmesh Gangani
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Mane Sakshi Raju

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Charan Aishwarya

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Bhusare Anjali Sunil

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Kedari Aditya Mangesh

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Koppula Ashok Satish

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Mr.Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
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Singh Ankit Raj Ashok

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Mr.Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

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PROUDLY PRESENTED TO

Dabhade Vijay Sanjay

This certificate is awarded in recognition of the successful completion of the value added course ADD-ON COURSE(EXIT - COURSE) during Semester VIII from January - April 2024

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

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ADD-ON COURSE (EXIT - COURSE)
PROUDLY PRESENTED TO

Ghaware Sambodh

This certificate is awarded in recognition of the successful completion of the value added course ADD-ON COURSE(EXIT - COURSE) during Semester VIII from January - April 2024

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

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CERTIFICATE
OF COMPLETION FOR
ADD-ON COURSE (EXIT - COURSE)
PROUDLY PRESENTED TO

Chaudhari Hasmita Ganga

This certificate is awarded in recognition of the successful completion of the value added course ADD-ON COURSE(EXIT - COURSE) during Semester VIII from January - April 2024

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

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Chougale Parth Vinod

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Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

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PROUDLY PRESENTED TO

Bhavare Digvijay

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Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

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ADD-ON COURSE (EXIT - COURSE)
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Patil Sumit Dinesh

This certificate is awarded in recognition of the successful completion of the value added course ADD-ON COURSE (EXIT - COURSE) during Semester VIII from January - April 2024

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

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Khedkar Pranav Pravin

This certificate is awarded in recognition of the successful completion of the value added course for ADD-ON COURSE (EXIT - COURSE) during Semester VIII from January - April 2024

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FACULTY INCHARGE

Dr. Priyanka Salunkhe
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Mhatre Sharv Santosh

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Mali Srushti Shivaji

This certificate is awarded in recognition of the successful completion of the value added course for ADD-ON COURSE (EXIT - COURSE) during Semester VIII from January - April 2024

Mr Dharmesh Gangani
FACULTY INCHARGE

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Patil Sahil Ravindra

This certificate is awarded in recognition of the successful completion of the value added course for ADD-ON COURSE (EXIT - COURSE) during Semester VIII from January - April 2024

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
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Waghmare Nilesh

Mr Dharmesh Gangani

Dr. Priyanka Salunkhe
HOD

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PROUDLY PRESENTED TO

Vhoy Vinay Lakose

Mr Dharmesh Gangani

Dr. Priyanka Salunkhe
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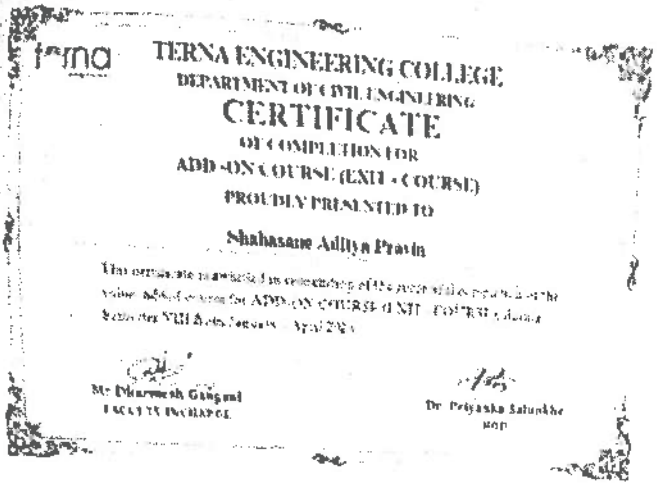

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Shahasane Aditya Pravin

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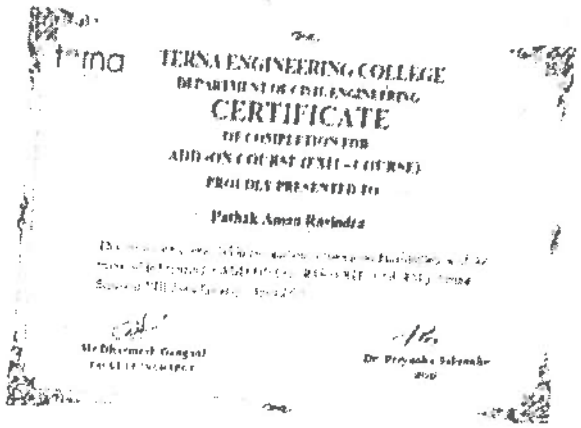
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD



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Pathak Aman Ravindra

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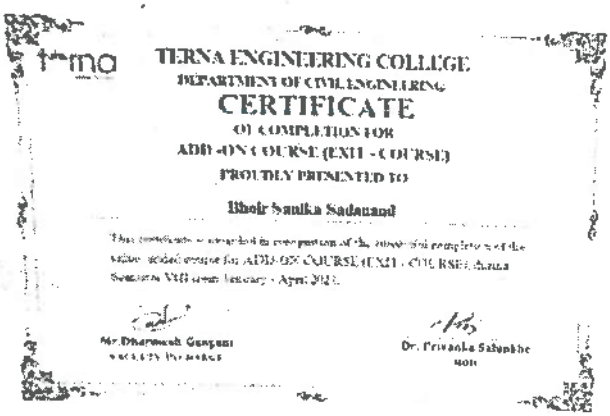

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OF COMPLETION FOR
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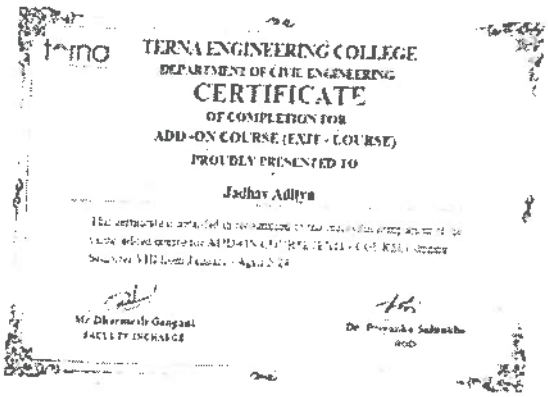
PROUDLY PRESENTED TO

Bhoir Sanika Sadanand

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD



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OF COMPLETION FOR
ADD-ON COURSE (EXIT - COURSE)
PROUDLY PRESENTED TO

Jadhav Aditya

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
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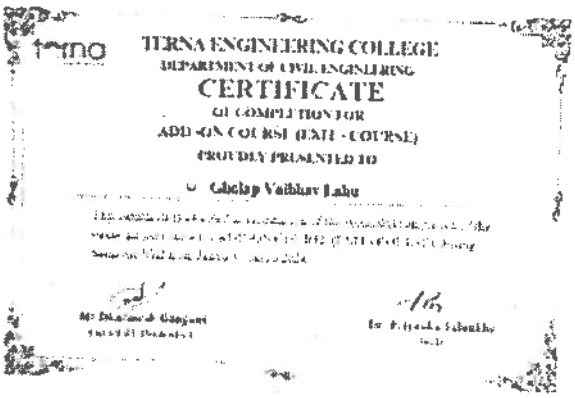

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PROUDLY PRESENTED TO

Gholap Vaibhav Lahu

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

Mr. Dharmesh Gangani

Subject Incharge

Dr. Priyanka Salunkhe

HOD

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TERNA PUBLIC CHARITABLE TRUST'S

TERNA ENGINEERING COLLEGE

Department of Civil Engineering

Report on

ETABS

Enrolled Students

T.E. and B.E. Civil Engineering

Academic Year:

2023-2024

Organized by

T&P Cell, Dept. of Civil Engineering, TEC

In Association with

Department of Civil Engineering, Nerul, Navi Mumbai

terna

&

Confluence Trainings, Nanded.

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CONTENT

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1. Meeting, Approval

1.1 Meeting

SUMMARY OF MINUTES OF THE MEETING

01.11.2023

With reference to meeting held and Minutes of meeting recorded the summary of minutes of meeting is as below.

The Department of Civil Engineering has planned to conduct Value added courses to provide knowledge to students regarding for vital subjects of our discipline. The following faculty members were present in the meeting conducted on 01 November 2023 at Civil HOD Cabin to finalize the Value added course to be offered for this year.

The HOD and the staff members concluded the following Value Added Courses for the academic year 2023-2024

Sl. No.	Name of Value Added Course	Semester	Hours	Staff Incharge
1.	ETabs	V & VII	40	Ritesh Tandekar

In the meeting it was decided to prepare syllabus & schedule of the program by the staff incharge within a week from the date of meeting.

1) Dr. Priyanka Salunkhe (HOD) & Add-on Incharge
2) Jamaluddin M. (Faculty)
3) Ritesh Tandekar (Course Coordinator)
4) Poonam Patil (APC)
5) Pradeep Sonwane (Faculty)

Dr. Priyanka Salunkhe
Dept. of Civil Engg.

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1.2 Approval

Regd. No. E-91, (Osmanabad) Dated 30-09-80

DTE INSTT.CODE: 3190

TERNA PUBLIC CHARITABLE TRUST'S

TERNA ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to University of Mumbai)

Plot No. 12, Sector 22, Opposite Railway Station, Nerul (W), Navi Mumbai- 400706. Ph. +91 22 61115444, Fax No. +91 22 61115400
Web: www.ternaengg.ac.in

Date: 01/11/2023

To,

The Principal

Terna Engineering College,

Nerul, Navi Mumbai – 4000706

Subject: - Regarding Permission for conducting Skill Based Learning program

Respected Sir,

To make the students industry ready and feedback received by students, we have decided to conduct Add on course on software's ETabs, Tekla and Staad-Pro in Association with Confluence Training, Nanded. during the academic year 2023 – 24. I request you kindly to provide the permission to conduct the same. The selected course will be useful to students for proficiency in above software.

Kindly provide permission to do the same.

Thanking You.

Yours Faithfully,

Mr. Jamaluddin Maghrabi

AOC Incharge

Dr. Priyanka Salunkhe

HOD

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TERNA ENGINEERING COLLEGE

Department of Civil Engineering

ACADEMIC YEAR 2023 – 2024

1. Title of the course : Course on ETab
2. Objective of the course : To make student learn ETab Software which is required for preparing Model an RCC structure with Analyze and Design Also Create Detailed drawing and material listing using CSI Detailer.
3. Prerequisite : Basics of RCC Design
4. Beneficiary : Students and Faculties
5. Date & Duration of the course: 29.11.2023 to 20.01.2024
6. No of hours required : 40 Hours
7. Internal Resources : Ritesh Tandekar
8. Internal Assessment : Assignment
9. Course Registration fees : [redacted]
10. Contents of the course : Enclosed
11. Credits / Certification : Those who have 75% attendance and scored above 60% eligible for certification.
12. Venue : Online

Course Coordinator

HOD

Dept. of Civil Engg.

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TERNA ENGINEERING COLLEGE

Department of Civil Engineering

ACADEMIC YEAR 2023 – 2024

CIRCULAR

All the students of semester, V & VII and faculties of department of Civil Engineering Terna Engineering College, Nerul, Navi Mumbai, are hereby informed to enroll their names for add on course "ETabs".

COURSE FEATURES:

Course Duration	: 40 Hours
Beneficiary	: Students & Faculties
Certificate	: Yes
Location	: Online
Schedule	: 29.11.2023 to 20.01.2024

HOD

Dept. of Civil Engg

PRINCIPAL

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2.0 About Institute

Terna Public Charitable Trust's Terna Engineering College is one of the well-known and it is located at Nerul, Navi Mumbai on a beautiful 3-acre campus. The institute is affiliated to University of Mumbai, approved by AICTE and accredited by National Board of Accreditation (NBA). This institution offers 7 UG, 4 PG, 3 PhD courses. Highest quality education is catered with curriculum extension by means of exceptional offerings like Engineering Products and Innovation Center (EPIC), Remote centre of IIT Bombay which facilitates student / faculty members to interact with IIT professors through video conferencing, Industry Institute Interaction Cell, Electronics club (collaboration with 25 local electronics SMEs), e-Yantra Embedded Systems and Robotics Lab, Apple lab, Texas Instruments Lab. We are a diverse, talented community united by passion for learning and quest for more. Terna motivates students to make a difference in our campus, in the state, country and around the world.

2.1 About Department:

The Department of Civil Engineering was established in the year 2017. The Mission of Department is to promote the disciplines of Planning, Design, Construction, Operation, Maintenance and Research. It offers students technical knowledge with technique for better utilization of available resources and greater standardization of construction processes required by construction industry. We intend to develop students by giving training to make use of innovative design methods, techniques and practical implementation. Highly qualified and dedicated faculty are recruited and they are always on their toes to guide the students, form the backbone of the department.

Key Features:

- Well Equipped Laboratories – Materials and Concrete Technology, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, Engineering Geology, Civil Computer Laboratory, Surveying Laboratory, Hydraulics and Fluid Mechanics Laboratories
- Consultancy Services Offered and Fully Equipped with Major Facilities Like Fully Automatic Compression Testing Machine 2000 kN (NABL Accredited), Fully Automatic Universal Testing Machine (UTM 100 Ton- NABL Accredited), Fully Automated Total Station for Professional Surveying
- Consultancy Services Offered for Non-Destructive Testing

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- Faculties with Experience in Design and Execution of Residential, Commercial, Oil & Gas, Power Projects
- Faculties with Experience in Research in the Field of Smart Materials & Smart Structures, Pavement Design & Analysis, Geotextile Materials for Soil Stabilization, Geotechnical Engineering, Remote Sensing & GIS
- Active Mentoring Processes for Continuous Assessment in Academics
- Learning Experience Through Active Consultancy Projects
- Industrial Visits-CIDCO, PWD, MMRDA, Rock Museum Nasik
- Internship for Students (With & Without Stipend)
- International Students Chapter Association & Merit Scholarships
- Expert Lectures by Industry Experts
- NPTEL Courses
- Skill Based, Project Based Learning, Interactive and Interest Based Core Domain Learning
- Patents, Designs and Copyright Development
- Achieved 100 % students intern during winter vacations (2019-2020) in renowned organizations like Airport Authority of India (AAI), Public Work Department (PWD), City and Industrial Development Corporation (CIDCO), Rashtriya Chemical Fertilizers (RCF), American Concrete Institute and so many.

3.0 About Course

An add on course of training of ETabs software has been introduced by the Department of Civil Engineering, Terna Engineering College, Navi Mumbai for T.E & B.E(Civil) students. This course is beyond their regular syllabus. This will be beneficial to students for their project work and ready for industry. Duration of course will be 40 hrs.

4.0 About Consultancy

Confluence Training Initiative (CTI) was started in year 2021 with aim of providing affordable access to high-quality training in civil engineering. With a very small and highly experienced team we have conducted multiple training programs in Pune & Mumbai and planned to keep on serving in the future. Following are some key features of our *add-on* training programs.

- ✓ Experienced resource personnel.
- ✓ Project based learning assignment on real life projects.
- ✓ Free additional online learning courses on E-Tabs.
- ✓ Traceable certificates with QR codes to curb forgery and more.

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5.0 Schedule

SCHEDULE FOR ETABS TRAINING PROGRAM			
Date	Day	Time	Module
29-Nov-23	Wednesday	4.00 PM to 8.00 PM	Module No. 1
2- Dec-23	Saturday	4.00 PM to 8.00 PM	Module No. 2
4- Dec-23	Monday	4.00 PM to 8.00 PM	Module No. 3
6- Dec-23	Wednesday	4.00 PM to 8.00 PM	Module No. 3
9- Dec-23	Saturday	4.00 PM to 8.00 PM	Module No. 4
16-Jan -24	Tuesday	4.00 PM to 8.00 PM	Module No. 5
17-Jan -24	Wednesday	4.00 PM to 8.00 PM	Module No. 6
18-Jan -24	Thursday	4.00 PM to 8.00 PM	Module No. 6
19-Jan -24	Friday	4.00 PM to 8.00 PM	Module No. 7
20-Jan -24	Saturday	4.00 PM to 8.00 PM	Module No. 7

6.0 Syllabus

Module	Course contents	Hours
1	**Introduction to ETABS**	4
	Industry application, feature, limitations etc (L1)	
	Basic configuration, initial settings and Introduction to GUI (L1)	
	Introduction to Menu-bar, tool bar and page setup (L1)	
2	**Initial Modeling in ETABS**	4
	Grid creation for uniform grid system (L2)	
	Creation of non-uniform grid system (L2)	
	Importing .dxf file from AutoCAD for grid creation (L2)	
3	**Modeling of RCC frame building in ETABS**	8
	Understanding Story data and grid data. (L2)	
	Creation of beams, columns, slab and wind panels in ETABS (L5)	
	Manual dead Load calculation as per IS 875 part 1 (L3)	
	Live load calculations per IS 875 Part 2 (L3)	
	Wind load calculation as per IS 875 Part 3. Generation of wind load using ETABS (L3)	
	Generation of Earthquake load using ETABS tools (l4)	
	Manual and auto Load case, Load Combination ETABS (L3)	

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4	**Analysis and Design**	4
	Running analysis, Error and warning removal in ETABS (L5)	
	Interpreting analysis results & Generating shear force and bending moment diagrams (L5)	
	Design and optimization of RCC element. (L5)	
CSI Detailer		
5	**Introduction to CSI Detailer**	4
	Applications, feature, advantages over other CAD tools and limitations (L2)	
6	**Detailing of RCC structure**	8
	Creation of: Grids, rafters, Purlins, rafter end connections, Base plate, Pad Footing, Cladding Gutters etc. (L4)	
7	**Post Processing**	8
	Clash detection and removal, general arrangement drawing (GA drawing), Assembly Drawing, Adding revisions and prints (L4)	

7.0 Course Objective & Course Outcome

After completion of the course the student will be able to analyze and design the structure in ETabs.

7.1 Course Objective

1. Familiarize with GUI of ETABS, CSI Detailer
2. Model an RCC structure with ETABS interface
3. Analyze and Design RCC structures using ETABS
4. Design Share wall and other important structural element
5. Create Detailed drawing and material listing using CSI Detailer

7.2 Course Outcome

On completion of this course, the students will be able to

1. Familiarize with GUI of ETABS, CSI Detailer
2. Model an RCC structure with ETABS interface
3. Analyze and Design RCC structures using ETABS
4. Design Share wall and other important structural element
5. Create Detailed drawing and material listing using CSI Detailer

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7.3 Program Outcome

PO 1: - Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2: - Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO 3: - Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4: - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5: - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6: - The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7: - Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8: - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: - Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: - Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12: - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcome

PSO 1: - Graduates will be able to plan, analyse, design and drawing and estimate for residential, commercial, industrial and infrastructure projects. They will be able to work on site for supervision of various construction activities.

PSO 2: - Graduates will be able to use different software related to Civil Engineering for developing skills required by the industry.

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8.0 CO, PO & PSO Mapping

Module	Course contents	CO	PO	PSO
1	Introduction to ETABS	1,2,3,4	1,2,3,4,5,6,7, 8,9,10,11,12	1,2
2	Initial Modeling in ETABS	1,2,3,4	1,2,3,4,5,6,7, 8,9,10,11,12	1,2
3	Modeling of RCC frame building in ETABS	1,2,3,4	1,2,3,4,5,6,7, 8,9,10,11,12	1,2
4	Analysis and Design	1,2,3,4	1,2,3,4,5,6,7, 8,9,10,11,12	1,2
5	Introduction to CSI Detailer	1,2,3,4,5	1,2,3,4,5,6,7, 8,9,10,11,12	1,2
6	Detailing of RCC structure	1,2,3,4,5	1,2,3,4,5,6,7, 8,9,10,11,12	1,2
7	Post Processing	1,2,3,4,5	1,2,3,4,5,6,7, 8,9,10,11,12	1,2

9.0 List of Students

BE Student List

Sr. No	Full Name	TUF ID	Sr. No	Full Name	TUF ID
1	Vaibhav Gholap	TU7F2021001	24	Mansi Khandekar	TU7F2021052
2	Aditya Shahasane	TU7F2021004	25	Palash Dipen Patel	TU7F2021025
3	Pranjal Mukherjee	TU7F2021005	26	Hrishikesh Dongre	TU7S2122001
4	Anurup Killedar	TU7F2021007	27	Brijesh Duduka	TU7S2122002
5	Pranav Pravin Khedkar	TU7F2021009	28	Aditya Milind Jadhav	TU7S2122003
6	Sahil Patil	TU7F2021010	29	Keshar Sanjay Lawane	TU7S2122004
7	Vismay	TU7F2021011	30	Rohit Yashwant Bedekar	TU7S2122005
8	Srushti Mali	TU7F2021014	31	Sahil Mahanand Pawar	TU7S2122007
9	Tejas Suryawanshi	TU7F2021015	32	Sahil Shashikant Wayal	TU7S2122008
10	Hasmita Ganga Chaudhari	TU7F2021019	33	Rohan Rajan Parab	TU7S2122006

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11	Anjali Bhusara	TU7F2021020	34	Shivani Suhas Pomendkar	TU7S2122010
12	Vijay Dabhade	TU7F2021032	35	Satyajeet Dubey	TU7S2122013
13	Shubham Prasad	TU7F2021033	36	Kartik Jagadish Siddamal	TU7S2122014
14	Aditya mangesh kedari	TU7F2021034	37	Yogesh Malvani	TU7S2122015
15	Sakshi Raju Mane	TU7F2021036	38	Tejashree Pawar	TU7S2122017
16	Sagarika Nitin Koli	TU7F2021037	39	Kajal Ashok Gaikar	TU7S2122018
17	Kalmesh Rajendra Badgujar	TU7F2021038	40	Siddhi Pradeep Gharat	TU7S2122019
18	Dhanshree patil	TU7F2021040	41	Shubhangi Dnyaneshwar Phadtare	TU7S2122020
19	Zaid Dhansay	TU7F2021042	42	Shweta Anil Chavan	TU7S2122022
20	Aman Ravindra Pathak	TU7F2021044	43	Rohit Suhas Matekar	TU7S2122023
21	Nimish gangaram loke	TU7F2021045	44	Pratik Dinkar Gaikwad	TU7S2122024
22	Komal Gondke	TU7F2021048	45	Jadhav Sakshi Sadashiv	TU7S2122026
23	Tanishq Sudhakar Kharat	TU7F2021049	46	Junaid Wani	TU7F1920038

TE Student List

Sr. No	Full Name	TUF ID	Sr. No	Full Name	TUF ID
1	Tambde Kshitij	TU7F2122001	24	Prachi Walhekar	TU7F2122042
2	Atharva chikane	TU7F2122003	25	Harsh Shinde	TU7S2223001
3	Aaditya Shinde	TU7F2122006	26	Aaryan Chirlekar	TU7S2223003
4	Priyesh Kolte	TU7F2122007	27	Soham mankumbare	TU7S2223006
5	Vinod Chinnarathod	TU752122009	28	Khushaal Sonawane	TU7S2223005
6	Ghonge Viraj	TU7F2122010	29	Aryan Ambhore	TU7S2223004
7	Vivek Ingle	TU7F2122011	30	Anish Ghadi	TU7S2223008
8	Sai Mhatre	TU7F2122012	31	Vaibhave : Keni	TU7S2223010
9	Shraddha deshmukh	TU7F2122013	32	Shailesh bowlekar	TU7S2223025
10	Janardan Bodke	TU7F2122015	33	Pranav Palekar	TU7S2223012
11	Vipul Mumbaikar	TU7F2122017	34	Gauri Dhumal	TU7S2223014
12	Sparsha Padghan	TU7F2122018	35	Shriya Jadhav	TU7S2223015
13	Kolekar mahesh	TU7S2223024	36	Soham Patil	TU7S2223016
14	Manav Mangle	TU7F2122025	37	Ayush Singh	TU7S2223018
15	Ahiwar Shubham	TU7F2122022	38	Vaishnavi Dombare	TU7S2223020
16	Shinde Neeraj	TU75F2122021	39	Sakshi Ranshur	TU7S2223021
17	Vedant Tambe	TU7F2122028	40	Pranjali Gharat	TU7S2223022
18	Gajendra Gavit	TU7F2122030	41	Mayur Kondlikire	TU7S2223024
19	Tanmay Kamble	TU7F2122031	42	Sejal Yedurkar	TU7S2223025
20	Swapneel Lubal	TU7F2122032	43	Akash Chorge	TU7S2223026
21	Nikhil karbhari	TU7F2122034	44	Vineet More	TUS72223029

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22	Shruti Shirsat	TU7F2122036	45	Rohit Tambe	TU7S2223032
23	Aishwarya Nandedkar	TU7F2122040	46	Sanika Gaokar	TU7S2223034

10.0 Attendance

BE Student List

Sr. No	Full Name	19-Nov	2-Dec	4-Dec	8-Dec	9-Dec	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	AVG
1	Vaibhav Gholap	P	P	P	A	P	A	P	P	P	P	80
2	Aditya Shahasane	P	P	P	P	P	P	P	P	P	P	100
3	Pranjal Mukharjee	P	P	P	P	P	P	P	P	P	P	100
4	Anurup Killedar	P	A	P	P	A	P	P	P	P	P	80
5	Pranav Pravin Khedkar	P	P	P	P	P	P	P	P	P	P	100
6	Sahil Patil	P	P	P	A	A	A	A	P	P	P	60
7	Vismay Vinay	P	P	P	A	P	P	A	P	P	P	80
8	Srushti Mali	P	P	P	A	P	P	P	A	A	P	70
9	Tejas Suryawanshi	P	P	A	P	P	P	P	A	P	P	80
10	Hasmita Ganga Chaudhari	P	P	A	P	P	P	P	P	P	P	90
11	Anjali Bhusara	P	P	A	P	P	A	P	P	P	P	80
12	Vijay Dabhade	P	P	P	P	P	P	P	P	P	P	100
13	Shubham Prasad	P	P	P	P	P	A	A	P	P	P	80
14	Aditya mangesh kedari	P	P	A	A	P	P	P	P	P	P	80
15	Sakshi Raju Mane	P	P	P	A	P	P	P	P	P	P	90
16	Sagarika Nitin Koli	P	P	P	P	P	P	P	P	P	P	100
17	Kalpesh Rajendra Badgujar	P	P	P	P	P	A	A	P	P	P	80
18	Dhanshree patil	P	P	P	A	A	A	P	P	P	P	70
19	Zaid Dhansay	P	P	P	P	P	A	A	A	A	P	60
20	Aman Ravindra Pathak	P	P	P	P	P	P	P	P	P	P	100
21	Nimish gangaram loke	P	P	A	P	A	P	A	P	P	P	70
22	Komal Gondke	P	P	P	P	P	A	A	A	A	P	60
23	Tanishq Sudhakar Kharat	P	P	P	P	P	P	P	A	A	P	80
24	Mansi Khandekar	P	P	P	P	P	P	P	P	P	P	100
25	Palash Dipen Patel	P	P	P	P	P	P	P	P	P	P	100
26	Hrishikesh Dongre	P	P	P	P	P	P	P	P	P	P	100
27	Brijesh Duduka	P	P	P	P	P	P	P	P	P	P	100
28	Aditya Milind Jadhav	P	P	P	P	P	P	P	P	P	P	100
29	Keshar Sanjay Lawane	P	P	P	P	P	P	P	A	A	P	80
30	Rohit Yashwant Bedekar	P	P	P	P	P	P	P	P	P	P	100
31	Sahil Mahanand Pawar	P	P	A	P	A	P	A	P	P	P	70
32	Sahil Shashikant Wayal	P	P	P	P	P	P	P	P	P	P	100
33	Rohan Rajan Parab	P	P	P	P	P	P	P	P	P	P	100
34	Shivani Suhas Pomendkar	P	P	P	P	P	P	A	P	A	P	80

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35	Satyajeet Dubey	P	P	P	P	P	P	P	P	P	P	100
36	Kartik Jagadish Siddamal	P	P	P	P	P	P	P	P	A	P	90
37	Yogesh Malvani	P	P	P	P	P	P	P	P	P	P	100
38	Tejashree Pawar	P	P	P	P	P	P	P	P	P	P	100
39	Kajal Ashok Gaikar	P	P	P	P	P	P	P	P	A	P	90
40	Siddhi Pradeep Gharat	P	P	P	P	P	P	P	P	P	P	100
41	Shubhangi Dnyaneshwar Phadtare	P	P	P	P	P	P	P	P	P	P	100
42	Shweta Anil Chavan	P	P	P	P	P	P	P	P	P	P	100
43	Rohit Suhas Matekar	P	P	P	P	P	P	P	P	P	P	100
44	Pratik Dinkar Gaikwad	P	P	P	P	P	A	P	A	A	P	70
45	Jadhav Sakshi Sadashiv	P	P	P	P	P	P	P	P	P	P	100
46	Junaid Wani	P	P	P	P	P	A	A	P	P	P	80

TE Student List

Sr. No	Full Name	29-Nov	2-Dec	4-Dec	6-Dec	9-Dec	16-Jan	17-Jan	18-Jan	19-Jan	28-Jan	AVG
1	Tambde Kshitij	P	P	P	P	P	P	A	P	P	P	90
2	Atharva chikane	P	P	P	P	P	P	A	P	P	P	90
3	Aaditya Shinde	P	A	P	P	P	A	A	P	P	P	70
4	Priyesh Kolte	P	P	P	P	P	A	P	P	P	P	90
5	Vinod Chinnarathod	P	P	P	P	P	P	P	P	P	P	100
6	Ghonge Viraj	P	P	P	P	P	P	P	A	A	P	80
7	Vivek Ingle	P	A	A	P	A	A	P	P	P	P	60
8	Sai Mhatre	P	P	P	P	P	P	P	P	A	A	80
9	Shraddha deshmukh	P	P	P	P	P	P	P	P	P	P	100
10	Janardan Bodke	P	P	P	P	P	P	P	A	P	P	90
11	Vipul Mumbaikar	P	P	P	P	P	P	A	A	P	P	80
12	Sparsha Padghan	P	P	P	P	P	P	P	P	P	P	100
13	Kolekar mahesh	P	P	P	P	P	P	A	P	P	P	90
14	Manav Mangle	A	P	P	P	P	P	A	A	P	P	70
15	Ahiwar Shubham	P	P	P	P	P	P	P	A	P	P	90
16	Shinde Neeraj	P	P	P	P	P	P	P	A	P	P	90
17	Vedant Tambe	P	P	P	P	P	P	P	P	P	P	100
18	Gajendra Gavit	P	P	P	P	P	A	P	P	P	P	90
19	Tanmay Kamble	P	P	P	P	P	A	P	P	P	P	90
20	Swapneel Lubal	P	P	A	P	P	A	P	P	A	P	70
21	Nikhil karbhari	P	P	P	P	P	P	P	P	A	P	90
22	Shruti Shirsat	P	P	P	P	P	P	P	P	A	P	90
23	Aishwarya Nandedkar	A	A	P	P	P	P	P	P	A	P	70
24	Prachi Walhekar	P	P	P	P	P	P	P	A	A	P	80
25	Harsh Shinde	P	P	P	P	P	P	P	A	P	P	90

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26	Aaryan Chirlekar	P	P	P	P	P	P	P	A	A	P	80
27	Soham mankumbare	P	P	P	P	P	P	P	P	P	P	100
28	Khushaal Sonawane	P	P	P	P	P	P	P	P	P	P	100
29	Aryan Ambhore	P	P	P	P	P	P	P	A	P	P	90
30	Anish Ghadi	P	P	P	P	P	P	P	A	P	P	90
31	Vaibhavee Keni	P	P	P	P	P	P	P	A	A	P	80
32	Shailesh bowlekar	P	P	P	P	P	P	P	P	A	P	90
33	Pranav Palekar	P	P	P	P	P	P	P	P	A	P	90
34	Gauri Dhumal	P	P	P	P	P	P	P	A	A	P	80
35	Shriya Jadhav	P	A	A	A	P	P	P	P	P	P	70
36	Soham Patil	P	P	A	A	A	P	P	P	P	P	70
37	Ayush Singh	P	P	P	P	P	P	P	A	A	P	80
38	Vaishnavi Dombare	P	P	P	A	P	P	P	P	P	P	90
39	Sakshi Ranshur	P	P	P	P	P	P	P	P	P	P	100
40	Pranjali Gharat	P	P	P	A	A	P	P	P	P	P	80
41	Mayur Kondikire	P	P	P	P	P	P	P	P	P	P	100
42	Sejal Yedurkar	P	P	P	P	A	P	P	P	P	P	90
43	Akash Chorge	P	P	P	P	P	P	P	P	A	P	90
44	Vineet More	P	P	P	P	P	A	P	P	P	P	90
45	Rohit Tambe	P	P	P	P	P	P	P	A	P	P	90
46	Sanika Gaokar	P	P	P	P	P	P	A	P	P	P	90

11.0 Online Session (Link & Screenshot)

Link for online session : https://meet.google.com/qqa-idme-mez

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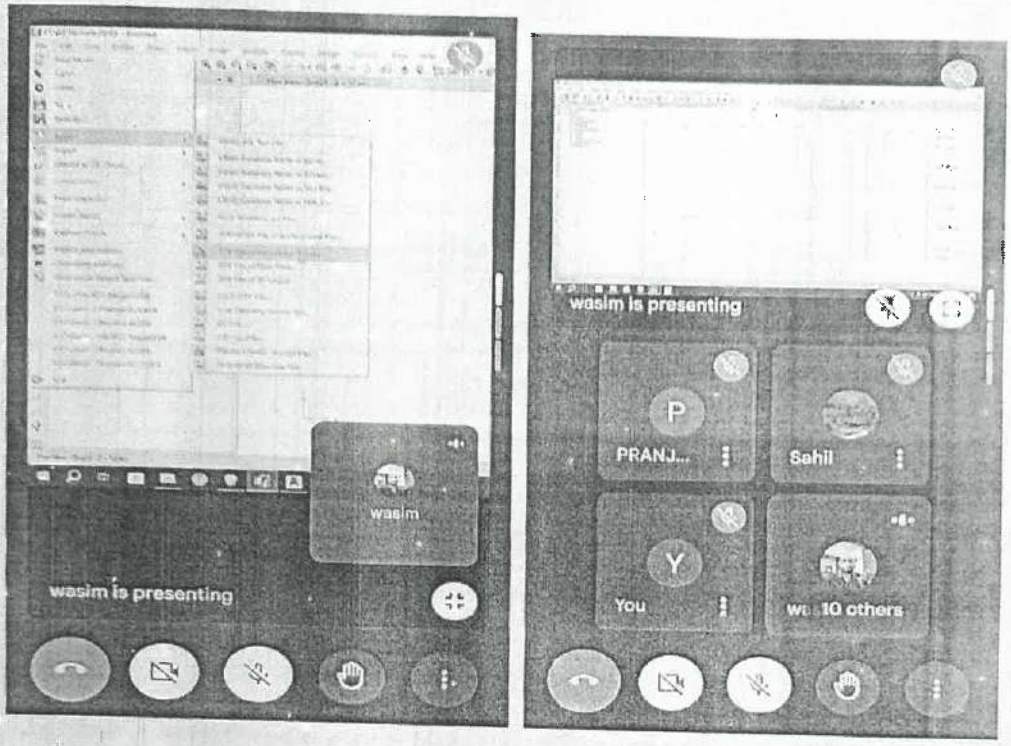
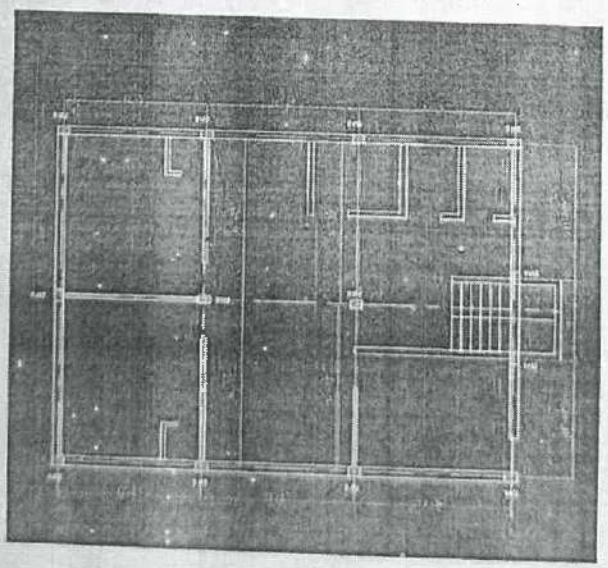


12.0 Assignments and Submission



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13.0 Rubrics

Assignment will be assigned to students each of 25 Marks. Marks will be credited as below.

Sr. No.	Description	Marks
1.	Modelling	10
2.	Understanding	10
3.	Attendance	5

14.0 Evaluation

Practical examination was carried out based on the types of Assignment questions. The results are as follows

BE Students

Sr. No	Name of student	Modeling (10)	Understanding (10)	Attendance (5)	TOTAL (25)
1	Vaibhav Gholap	7	4	4	15
2	Aditya Shahasane	8	8	5	21
3	Pranjal Mukherjee	4	7	4	15
4	Anurup Killedar	7	7	4	18
5	Pranav Pravin Khedkar	8	7	5	20
6	Sahil Patil	7	4	3	14
7	Vismay	7	6	4	17
8	Srushti Mali	5	5	4	14
9	Tejas Suryawanshi	7	5	4	16
10	Hasmita Ganga Chaudhari	7	5	4	16
11	Anjali Bhusara	7	7	3	17
12	Vijay Dabhade	9	7	4	20
13	Shubham Prasad	7	7	3	17

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14	Aditya mangesh kedari	8	8	4	20
15	Sakshi Raju Mane	9	8	3	20
16	Sagarika Nitin Koli	7	9	3	19
17	Kalpesh Rajendra Badgujar	7	8	4	19
18	Dhanshree patil	5	4	4	13
19	Zaid Dhansay	6	4	4	14
20	Aman Ravindra Pathak	7	7	4	18
21	Nimish gangaram loke	5	4	3	12
22	Komal Gondke	4	5	4	13
23	Tanishq Sudhakar Kharat	7	7	4	18
24	Mansi Khandekar	7	7	4	18
25	Palash Dipen Patel	7	7	4	18
26	Hrishikesh Dongre	7	7	4	18
27	Brijesh Duduka	7	7	4	18
28	Aditya Milind Jadhav	7	7	4	18
29	Keshar Sanjay Lawane	7	7	4	18
30	Rohit Yashwant Bedekar	7	7	4	18
31	Sahil Mahanand Pawar	5	5	4	14
32	Sahil Shashikant Wayal	7	7	4	18
33	Rohan Rajan Parab	7	7	4	18
34	Shivani Suhas Pomendkar	9	8	5	22
35	Satyajeet Dubey	7	8	4	19
36	Kartik Jagadish Siddamal	8	8	5	21
37	Yogesh Malvani	7	6	3	16
38	Tejashree Pawar	6	6	3	15
39	Kajal Ashok Gaikar	9	7	4	20

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40	Siddhi Pradeep Gharat	8	8	4	20
41	Shubhangi Dnyaneshwar Phadtare	6	6	4	16
42	Shweta Anil Chavan	7	7	3	17
43	Rohit Suhas Matekar	7	6	4	17
44	Pratik Dinkar Gaikwad	4	5	3	12
45	Jadhav Sakshi Sadashiv	6	7	3	16
46	Junaid Wani	6	7	3	16

TE Students

Sr. No	Name of student	Modeling (10)	Understanding (10)	Attendance (5)	TOTAL (25)
1	Tambde Kshitij	7	4	4	15
2	Atharva chikane	8	8	5	21
3	Aaditya Shinde	5	4	5	14
4	Priyesh Kolte	7	7	4	18
5	Vinod Chinnarathod	8	7	5	20
6	Ghonge Viraj	7	4	4	15
7	Vivek Ingle	7	3	4	14
8	Sai Mhatre	8	6	4	18
9	Shraddha deshmukh	7	5	4	16
10	Janardan Bodke	7	5	4	16
11	Vipul Mumbaikar	7	7	3	17
12	Sparsha Padghan	9	7	4	20
13	Kolekar mahesh	7	7	3	17
14	Manav Mangle	7	4	2	13
15	Ahiwar Shubham	9	8	3	20

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16	Shinde Neeraj	7	9	3	19
17	Vedant Tambe	7	8	4	19
18	Gajendra Gavit	7	8	4	19
19	Tanmay Kamble	8	7	5	20
20	Swapneel Lubal	5	3	4	12
21	Nikhil korbhari	7	7	4	18
22	Shruti Shirsat	7	7	4	18
23	Aishwarya Nandedkar	3	7	4	14
24	Prachi Walhekar	7	7	4	18
25	Harsh Shinde	7	7	4	18
26	Aaryan Chirlekar	7	7	4	18
27	Soham mankumbare	7	7	4	18
28	Khushaal Sonawane	7	7	4	18
29	Aryan Ambhore	7	7	4	18
30	Anish Ghadi	7	7	4	18
31	Vaibhavee Keni	7	7	4	18
32	Shailesh bowlekar	7	7	4	18
33	Pranav Palekar	7	7	4	18
34	Gauri Dhumal	9	8	5	22
35	Shriya Jadhav	6	3	4	13
36	Soham Patil	5	4	5	14
37	Ayush Singh	7	6	3	16
38	Vaishnavi Dombare	6	6	3	15
39	Sakshi Ranshur	9	7	4	20
40	Pranjali Gharat	8	8	4	20
41	Mayur Kondikire	6	6	4	16

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42	Sejal Yedurkar	7	7	3	17
43	Akash Chorge	7	6	4	17
44	Vineet More	7	7	3	17
45	Rohit Tambe	6	7	3	16
46	Sanika Gaokar	6	7	3	16

15.0 Result

BE Student List

Sr No	Full Name	Qualification	Sr No	Full Name	Qualification
1	Vaibhav Gholap	Qualified	24	Mansi Khandekar	Qualified
2	Aditya Shahasane	Qualifed	25	Palash Dipen Patel	Qualified
3	Pranjal Mukherjee	Qualified	26	Hrishikesh Dongare	Qualified
4	Anurup Killedar	Qualifed	27	Brijesh Duduka	Qualified
5	Pranav Pravin Khedkar	Qualified	28	Aditya Milind Jadhav	Qualified
6	Sahil Patil	Not Qualified	29	Keshar Sanjay Lawane	Qualified
7	Vismay	Qualified	30	Rohit Yashwant Bedekar	Qualified
8	Srushti Mali	Not Qualified	31	Sahil Mahanand Pawar	Not Qualified
9	Tejas Suryawanshi	Qualified	32	Sahil Shashikant Wayal	Qualified
10	Hasmita Ganga Chaudhari	Qualified	33	Rohan Rajan Parab	Qualified
11	Anjali Bhusara	Qualified	34	Shivani Suhas Pomendkar	Qualified
12	Vijay Dabhade	Qualified	35	Satyajeet Dubey	Qualified
13	Shubham Prasad	Qualified	36	Kartik Jagadish Siddamal	Qualified
14	Aditya mangesh kedari	Qualified	37	Yogesh Malvani	Qualified
15	Sakshi Raju Mane	Qualified	38	Tejashree Pawar	Qualified
16	Sagarika Nitin Koli	Qualified	39	Kajal Ashok Gaikar	Qualified
17	Kalpesh Rajendra Badgujar	Qualified	40	Siddhi Pradeep Gharat	Qualified
18	Dhanshree patil	Not Qualified	41	Shubhangi Dnyaneshwar Phadtare	Qualified
19	Zaid Dhansay	Not Qualified	42	Shweta Anil Chavan	Qualified
20	Aman Ravindra Pathak	Qualified	43	Rohit Suhas Matekar	Qualified

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21	Nimish gangaram Ighe	Not Qualified	44	Pratik Dinkar Gaikwad	Not Qualified
22	Komal Gondke	Not Qualified	45	Jadhav Sakshi Sadashiv	Qualified
23	Tanishq Sudhakar Kharat	Qualified	46	Junaid Wani	Qualified

TE Student List

Sr No	Full Name	Qualification	Sr No	Full Name	Qualification
1	Tambde Kshitij	Qualified	24	Prachi Vaibhav	Qualified
2	Atharva chikane	Qualified	25	Harsh Shinde	Qualified
3	Aaditya Shinde	Not Qualified	26	Aaryan Chirlekar	Qualified
4	Priyesh Kolte	Qualified	27	Soham mankumbare	Qualified
5	Vinod Chinnarathod	Qualified	28	Khushaal Sonawane	Qualified
6	Ghonge Viraj	Qualified	29	Aryan Ambhore	Qualified
7	Vivek Ingle	Not Qualified	30	Anish Ghadi	Qualified
8	Sai Mhatre	Qualified	31	Vaibhavee Kent	Qualified
9	Shraddha deshmukh	Qualified	32	Shailesh bewlekar	Qualified
10	Janardan Bodke	Qualified	33	Pranav Palekar	Qualified
11	Vipul Mumbaikar	Qualified	34	Gauri Dhumal	Qualified
12	Sparsha Padghan	Qualified	35	Shriya Jadhav	Not Qualified
13	Kolekar mahesh	Qualified	36	Soham Patil	Not Qualified
14	Manav Mangle	Not Qualified	37	Ayush Singh	Qualified
15	Ahiwar Shubham	Qualified	38	Vaishnavi Dombare	Qualified
16	Shinde Neeraj	Qualified	39	Sakshi Ranshur	Qualified
17	Vedant Tambe	Qualified	40	Pranjali Gharat	Qualified
18	Gajendra Gavit	Qualified	41	Mayur Kondilkire	Qualified
19	Tanmay Kamble	Qualified	42	Sejal Yedurkar	Qualified
20	Swapneel Lubal	Not Qualified	43	Akash Chorge	Qualified
21	Nikhil karbhari	Qualified	44	Vineet More	Qualified
22	Shruti Shirsat	Qualified	45	Rohit Tambe	Qualified
23	Aishwarya Nandedkar	Not Qualified	46	Sanika Gackar	Qualified

16.0 Feedback

In order to collect the feedback of the training session a google form was floated which consisted of specific questions to gauge the training program. Below is the question wise analysis of the feedback.

1.Do you feel ETabs training would be beneficial for your career?

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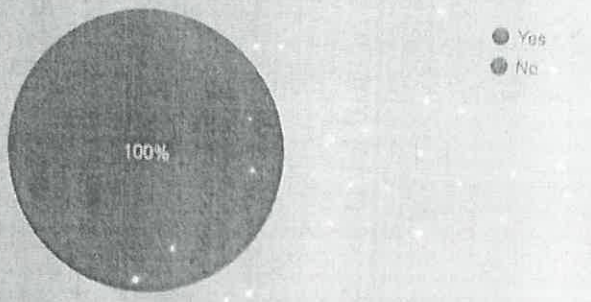
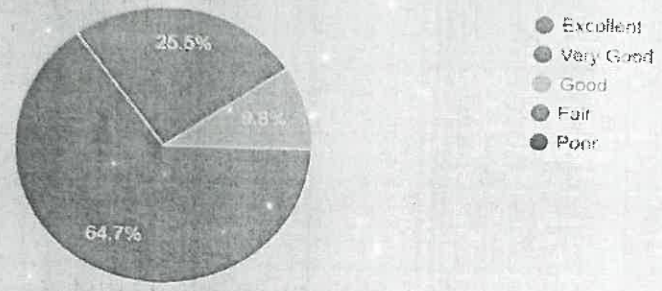
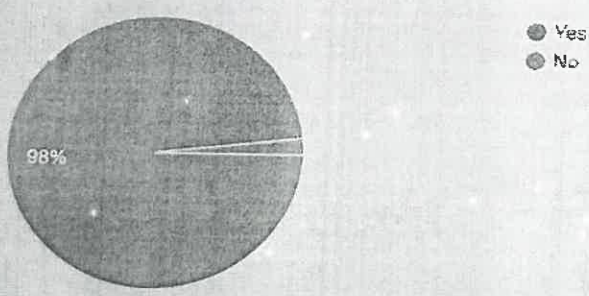


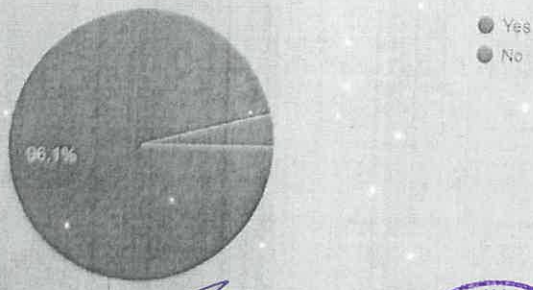
2.How was the curriculum of the ETabs training Program?



3.Was the ETabs curriculum completed as planned?



4.Did the ETab training content meet our expectation?



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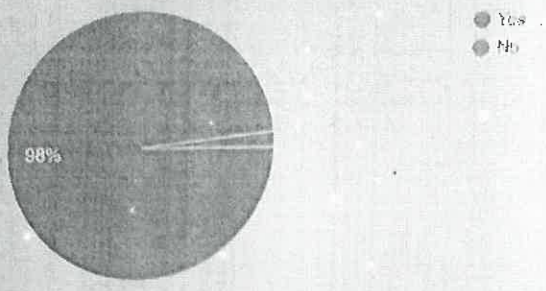
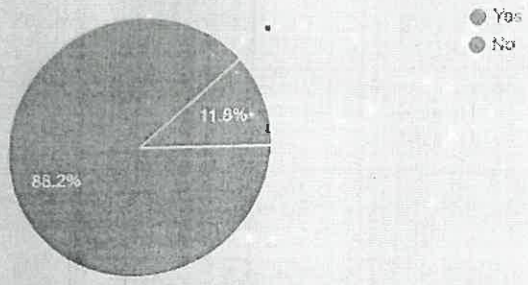
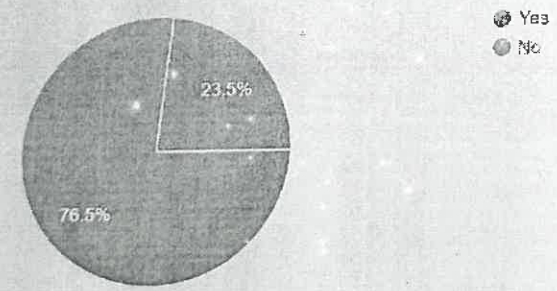
5.Did your trainer respond to your queries in a timely manner?



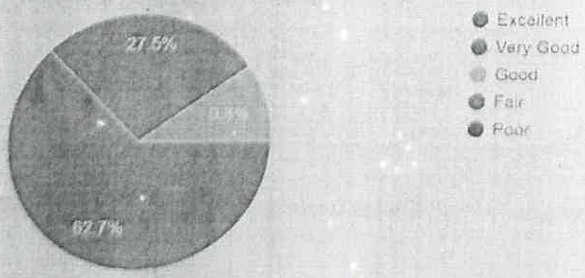
6.Was the time allotted for the training sufficient?



7.Where you able to practice alonge with the instructor?



8.How would you rate the course content in terms of being easy to follow?



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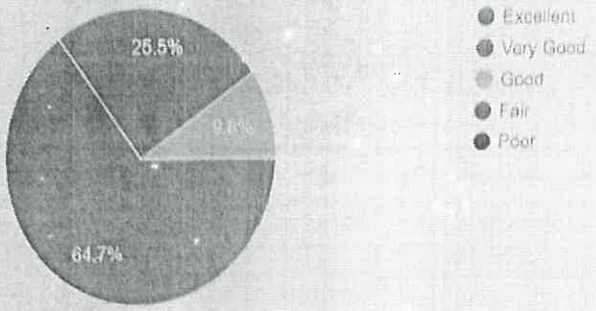
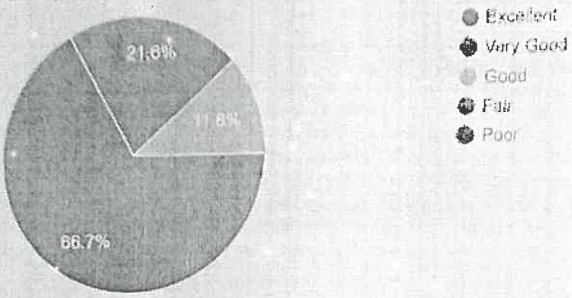
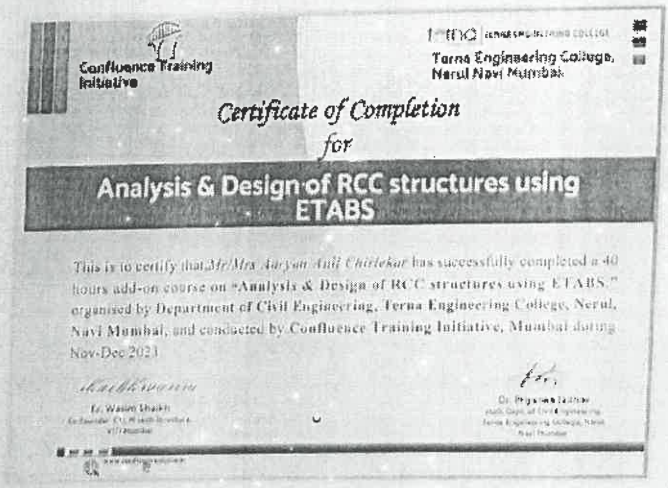
9.How would you rate the trainer for the ETab



10.How was your overall experience with the ETab training?



17.0 Sample Certificates


Confluence Training Initiative

Terna Engineering College, Nerul Navi Mumbai

Certificate of Completion

for

Analysis & Design of RCC structures using ETABS

This is to certify that *Mr/Mrs Aaryan Anil Chitlekar* has successfully completed a 40 hours add-on course on "Analysis & Design of RCC structures using ETABS." organised by Department of Civil Engineering, Terna Engineering College, Nerul, Navi Mumbai, and conducted by Confluence Training Initiative, Mumbai during Nov-Dec 2021

Er. Wasim Shaikh

Dr. Prajakta Zalte

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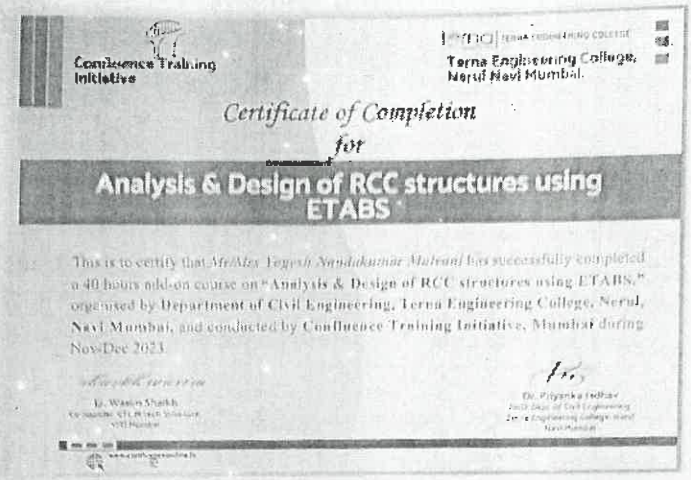

Confluence Training Initiative

Terna Engineering College, Nerul Navi Mumbai.

Certificate of Completion

for

Analysis & Design of RCC structures using ETABS

This is to certify that *Mr.Mitav Yogesh Nandakumar Mahrani* has successfully completed a 40 hours add-on course on "Analysis & Design of RCC structures using ETABS." organised by Department of Civil Engineering, Terna Engineering College, Nerul, Navi Mumbai, and conducted by Confluence Training Initiative, Mumbai during Nov-Dec 2023.

Dr. Priyanka Salunkhe

Prof. Ritesh Tandekar
Dept. T & P Coordinator

Prof. Poonam Patil
APC

Dr. Priyanka Salunkhe
HOD

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TERNA ENGINEERING COLLEGE

Department of Civil Engineering

Report on

Software Training - Tekla

Enrolled Students

B.E. Civil Engineering

Academic Year:

2023-2024

Organized by

T&P Cell, Dept. of Civil Engineering, TEC

In Association with

Department of Civil Engineering, Nerul, Navi Mumbai

terna

&

Confluence Trainings, Nanded.

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CONTENT

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1. Meeting, Approval

1.1 Meeting

SUMMARY OF MINUTES OF THE MEETING

01.11.2023

With reference to meeting held and Minutes of meeting recorded the summary of minutes of meeting is as below.

The Department of Civil Engineering has planned to conduct Value added courses to provide knowledge to students regarding for vital subjects of our discipline. The following faculty members were present in the meeting conducted on 01 November 2023 at Civil HOD Cabin to finalize the Value added course to be offered for this year.

The HOD and the staff members concluded the following Value Added Courses for the academic year 2023-2024

SL. No.	Name of Value Added Course	Semester	Hours	Staff Incharge
1.	Tekla	VIII	40	Ritesh Tandekar

In the meeting it was decided to prepare syllabus & schedule of the program by the staff incharge within a week from the date of meeting.

1) Dr. Priyanka Salunkhe (HOD) & Add-on Incharge
2) Jamaluddin M. (Faculty)
3) Ritesh Tandekar (Course Coordinator)
4) Poonam Patil (APC)
5) Pradeep Sonwane (Faculty)

Dr. Priyanka Salunkhe
Dept. of Civil Engg.

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1.2 Approval

DTE INSTT.CODE: 3190

Regd. No. E-91, (Osmanabad) Dated 30-09-80

TERNA PUBLIC CHARITABLE TRUST'S

TERNA ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to University of Mumbai)

Plot No. 12, Sector 22, Opposite Railway Station, Nerul (W), Navi Mumbai- 400706, Ph. +91 22 61115444, Fax No. +91 22 61115400
Web: www.ternaengg.ac.in

Date: 01/11/2023

To,

The Principal

Terna Engineering College,

Nerul, Navi Mumbai – 4000706

Subject: - Regarding Permission for conducting Skill Based Learning program

Respected Sir,

To make the students industry ready and feedback received by students, we have decided to conduct Add on course on software's ETabs, Tekla and Staad-Pro in Association with Confluence Training, Nanded. during the academic year 2023 – 24. I request you kindly to provide the permission to conduct the same. The selected course will be useful to students for proficiency in above software.

Kindly provide permission to do the same.

Thanking You.

Yours Faithfully,

Mr. Jamaluddin Maghrabi
AOC Incharge

Dr. Priyanka Salunkhe
HOD

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TERNA ENGINEERING COLLEGE

Department of Civil Engineering

ACADEMIC YEAR 2023 – 2024

1. Title of the course : Course on Tekla
2. Objective of the course : To make student learn Tekla Software which is required for analysis and design of steel structure. This will be beneficial to student for their final year project and for placement as a Design Engineer.
3. Prerequisite : Basics of Analysis and design of Steel Structure.
4. Beneficiary : Students and Faculties
5. Date & Duration of the course: 23.04.2024 to 03.05.2024
6. No of hours required : 40 Hours
7. Internal Resources : Ritesh Tandekar
8. Internal Assessment : Assignment
9. Course Registration fees [redacted]
10. Contents of the course : Enclosed
11. Credits / Certification : Those who have 75% attendance for certification.
12. Venue : Offline

Course Coordinator

HOD

Dept. of Civil Engg

TERNA PUBLIC CHARITABLE TRUST'S

TERNA ENGINEERING COLLEGE

Department of Civil Engineering

ACADEMIC YEAR 2023 – 2024

CIRCULAR

All the students of semester VIII and faculties of department of Civil Engineering Terna Engineering College, Nerul, Navi Mumbai, are hereby informed to enroll their names for add on course "Tekla".

COURSE FEATURES:

Course Duration	: 40 Hours
Beneficiary	: Students & Faculties
Certificate	: Yes
Location	: Offline
Schedule	: 23.04.2024 to 03.05.2024

HOD

Dept. of Civil Engg

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2.0 About Institute

Terna Public Charitable Trust's Terna Engineering College is one of the well-known and it is located at Nerul, Navi Mumbai on a beautiful 3-acre campus. The institute is affiliated to University of Mumbai, approved by AICTE and accredited by National Board of Accreditation (NBA). This institution offers 7 UG, 4 PG, 3 PhD courses. Highest quality education is catered with curriculum extension by means of exceptional offerings like E gineering Products and Innovation Center (EPIC), Remote centre of IIT Bombay which facilitates student / faculty members to interact with IIT professors through video conferencing, Industry Institute Interaction Cell, Electronics club (collaboration with 25 local electronics SMEs), e-Yantra Embedded Systems and Robotics Lab, Apple lab, Texas Instruments Lab. We are a diverse, talented community united by passion for learning and quest for more. Terna motivates students to make a difference in our campus, in the state, country and around the world.

2.1 About Department:

The Department of Civil Engineering was established in the year 2017. The Mission of Department is to promote the disciplines of Planning, Design, Construction, Operation,
Maintenance and Research. It offers students technical knowledge with technique for better utilization of available resources and greater standardization of construction processes required by construction industry. We intend to develop students by giving training to make use of innovative design methods, techniques and practical implementation. Highly qualified and dedicated faculty are recruited and they are always on their toes to guide the students, form the backbone of the department.

Key Features:

- Well Equipped Laboratories – Materials and Concrete Technology, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, Engineering Geology, Civil Computer Laboratory, Surveying Laboratory, Hydraulics and Fluid Mechanics Laboratories
- Consultancy Services Offered and Fully Equipped with Major Facilities Like Fully Automatic Compression Testing Machine 2000 kN (NABL Accredited), Fully Automatic Universal Testing Machine (UTM 100 Ton- NABL Accredited), Fully Automated Total Station for Professional Surveying
- Consultancy Services Offered for Non-Destructive Testing

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- Faculties with Experience in Design and Execution of Residential, Commercial, Oil & Gas, Power Projects
- Faculties with Experience in Research in the Field of Smart Materials & Smart Structures, Pavement Design & Analysis, Geotextile Materials for Soil Stabilization, Geotechnical Engineering, Remote Sensing & GIS
- Active Mentoring Processes for Continuous Assessment in Academics
- Learning Experience Through Active Consultancy Projects
- Industrial Visits-CIDCO, PWD, MMRDA, Rock Museum Nasik
- Internship for Students (With & Without Stipend)
- International Students Chapter Association & Merit Scholarships
- Expert Lectures by Industry Experts
- NPTEL Courses
- Skill Based, Project Based Learning, Interactive and Interest Based Core Domain Learning
- Patents, Designs and Copyright Development
- Achieved 100 % students intern during winter vacations (2019-2020) in renowned organizations like Airport Authority of India (AAI), Public Work Department (PWD), City and Industrial Development Corporation (CIDCO), Rashtriya Chemical Fertilizers (RCF), American Concrete Institute and so many.

3.0 About Course

An add on course of training of Tekla software has been introduced by the Department of Civil Engineering, Terna Engineering College, Navi Mumbai for B.E (Civil) students. This course is beyond their regular syllabus. This will be beneficial to students for their project work and ready for industry. Duration of course will be 40 hrs.

4.0 About Consultancy

Confluence Training Initiative (CTI) was started in year 2021 with aim of providing affordable access to high-quality training in civil engineering. With a very small and highly experienced team we have conducted multiple training programs in Pune & Mumbai and planned to keep on serving in the future. Following are some key features of our *add-on* training programs.

- ✓ Experienced resource personnel.
- ✓ Project based learning assignment on real life projects.
- ✓ Free additional online learning courses on Tekla.
- ✓ Traceable certificates with QR codes to curb forgery and more.

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5.0 Schedule

SCHEDULE FOR TEKLA TRAINING PROGRAM			
Date	**Day**	**Time**	**Module**
23-April-24	Tuesday	9.00 AM to 1.00 PM	Module No. 1
24- April-24	Wednesday	9.00 AM to 1.00 PM	Module No. 2
25- April-24	Thursday	9.00 AM to 1.00 PM	Module No. 2
26- April-24	Friday	9.00 AM to 1.00 PM	Module No. 3
27- April-24	Saturday	9.00 AM to 1.00 PM	Module No. 3
29- April-24	Monday	9.00 AM to 1.00 PM	Module No. 4
30- April-24	Tuesday	9.00 AM to 1.00 PM	Module No. 4
01- May-24	Wednesday	9.00 AM to 1.00 PM	Module No. 5
02- May-24	Thursday	9.00 AM to 1.00 PM	Module No. 5
03- May-24	Friday	9.00 AM to 1.00 PM	Module No. 5

6.0 Syllabus

Module	Course contents	Hours
1	**Introduction to Tekla structure**	2
	Applications, feature, advantages over other CAD tools and limitations	
2	**Basic Modeling Techniques**	10
	Modeling of various joints: Beam Column Joints of various types. Modeling of Tapered sections beams. Modeling of Base plates.	
3	**Drawing and Output**	10
	Numbering and reports, Principles of working with drawings, Creating General Arrangement Drawings, Creating Assembly Drawings, Creating Single Part Drawings and Multi Drawi ge and multi numbering etc.	
4	**Detailing of steel warehouse**	8
	Creation of: Grids, rafters, Purlins, ralter end connections, Base plate, Pad Footing, Cladding Gutters etc.	
5	**Introduction to Concrete Modeling**	10
	Isolated Footing generation part, Creation of piles in Tekla, Creation of strip footings in Foundation with Tekla, Creation of Slab and discount of materials in Tekla, Creation of Structural	

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	Columns in Tekla, Creation of concrete beams in Tekla and Rebar modelling	

7.0 Course Objective & Course Outcome

After completion of the course the student will be able to model and design connection details in Tekla.

7.1 Course Objective

1. Understand various commands in Tekla software
2. Model the structure in Tekla
3. Understand different types of connection (Bolted & Welded)
4. To produce fabrication drawings
5. Understand the fabrication drawing and bill of quantities

7.2 Course Outcome

On completion of this course, the students will be able to

1. Model the structure in Tekla
2. Design connection details
3. Understand fabrication drawings
4. Produce bill of quantities

7.3 Program Outcome

PO 1: - Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO 2: - Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
PO 3: - Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO 4: - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO 5: - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO 6: - The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

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PO 7: - Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8: - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: - Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: - Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12: - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcome

PSO 1: - Graduates will be able to plan, analyze, design and drawing and estimate for residential, commercial, industrial and infrastructure projects. They will be able to work on site for supervision of various construction activities.

PSO 2: - Graduates will be able to use different software related to Civil Engineering for developing skills required by the industry.

8.0 CO, PO & PSO Mapping

Module	Course contents	CO	PO	PSO
1	Introduction to Tekla structure	1	1,2,5,9,11,12	1,2
2	Basic Modeling Techniques	1,2	1,2,3,4,8,9, 11,12	1,2
3	Drawing and Output	3,4	1,2,3,9,10, 11,12	1,2
4	Detailing of steel warehouse	2,3	1,2,3,4,5,6,7, 8,9,10,11,12	1,2
5	Introduction to Concrete Modeling	1,2,4	1,2,3,9,10, 11,12	1,2

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9.0 List of Students

BE Student List

Sr. No	Full Name	TUF ID	Sr. No	Full Name	TUF ID
1	Vaibhav Gholap	TU7F2021001	18	Komal Gondke	TU7F2021048
2	Aditya Shahasane	TU7F2021004	19	Tanishq Sudhakar Kharat	TU7F2021049
3	Pranav Pravin Khedkar	TU7F2021009	20	Mansi Khandekar	TU7F2021052
4	Sahil Patil	TU7F2021010	21	Palash Dipen Patel	TU7F2021025
5	Rushikesh Jalinder Mohite	TU7F2021013	22	Brijesh Duduka	TU7S2122002
6	Tejas Suryawanshi	TU7F2021015	23	Aditya Milind Jadhav	TU7S2122003
7	Anjali Bhusara	TU7F2021020	24	Sahil Shashikant Wayal	TU7S2122008
8	Vijay Dabhade	TU7F2021032	25	Krutika Sawant	TU7S2122009
9	Sakshi Raju Mane	TU7F2021036	26	Shivani Suhas Pomendkar	TU7S2122010
10	Sagarika Nitin Koli	TU7F2021037	27	Abhay Nagothanekar	TU7S2122011
11	Kalpesh Rajendra Badgujar	TU7F2021038	28	Milind Thikade	TU7S2122012
12	Dhanshree patil	TU7F2021040	29	Tejashree Pawar	TU7S2122017
13	Zaid Dhansay	TU7F2021042	30	Kajal Ashok Gaikar	TU7S2122018
14	Sahil Ananta Mhatre	TU7F2021043	31	Siddhi Pradeep Gharat	TU7S2122019
15	Aman Ravindra Pathak	TU7F2021044	32	Shweta Anil Chavan	TU7S2122022
16	Nimish gangaram loke	TU7F2021045	33	Rohit Suhas Matekar	TU7S2122023
17	Rohit Shrimant Shelke	TU7F2021046	34	Jadhav Sakshi Sadashiv	TU7S2122026

10.0 Attendance

BE Student List

Sr. No	Full Name	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	29-Apr	30-Apr	01-May	02-May	03-May	AVG
1	Vaibhav Gholap	P	P	P	A	P	A	P	P	P	P	80
2	Aditya Shahasane	P	P	P	P	P	P	P	P	P	P	100
3	Pranav Pravin Khedkar	P	P	P	P	P	P	P	P	P	P	100
4	Sahil Patil	P	P	P	P	P	A	A	P	P	P	80
5	Rushikesh Jalinder Mohite	P	P	P	A	P	P	A	A	P	P	70
6	Tejas Suryawanshi	P	P	A	P	P	P	P	A	P	P	80
7	Anjali Bhusara	P	P	A	P	P	A	P	P	P	P	80
8	Vijay Dabhade	P	P	P	P	P	P	P	P	P	P	100

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9	Sakshi Raju Mane	P	P	P	A	P	P	P	P	P	P	90
10	Sagarika Nitin Koli	P	P	P	P	P	P	P	P	P	P	100
11	Kalpesh Rajendra Badgujar	P	P	P	P	P	A	A	P	P	P	80
12	Dhanshree patil	P	P	P	A	A	P	P	P	P	P	80
13	Zaid Dhansay	P	P	P	P	P	A	A	P	P	P	80
14	Sahil Ananta Mhatre	A	P	A	P	P	P	P	P	P	P	80
15	Aman Ravindra Pathak	P	P	P	P	P	P	P	P	P	P	100
16	Nimish gangaram loke	P	P	A	P	A	P	A	P	P	A	80
17	Rohit Shrimant Shelke	A	A	P	P	A	P	A	P	P	P	60
18	Komal Gondke	P	P	P	P	P	P	P	A	A	P	80
19	Tanishq Sudhakar Kharat	P	P	P	P	P	P	P	A	A	P	80
20	Mansi Khandekar	P	P	P	P	P	P	P	P	P	P	100
21	Palash Dipen Patel	P	P	P	P	P	P	P	P	P	P	100
22	Brijesh Duduka	P	P	P	P	P	P	P	P	P	P	100
23	Aditya Milind Jadhav	P	P	P	P	P	P	P	P	P	P	100
24	Sahil Shashikant Wayal	P	P	P	P	P	P	P	P	P	P	100
25	Krutika Sawant	A	A	A	A	A	A	P	P	P	P	40
26	Shivani Suhas Pomendkar	P	P	P	P	P	P	A	P	A	P	80
27	Abhay Nagothanekar	A	A	P	P	P	A	A	P	P	A	50
28	Milind Thikade	P	P	A	A	A	P	P	P	P	A	60
29	Tejashree Pawar	P	P	P	P	P	P	P	P	A	A	80
30	Kajal Ashok Gaikar	A	P	P	A	P	P	P	P	P	P	80
31	Siddhi Pradeep Gharat	P	P	P	P	A	P	P	P	P	P	90
32	Shweta Anil Chavan	P	P	P	P	P	P	P	P	P	P	100
33	Rohit Suhas Matekar	P	P	P	P	P	P	P	P	P	P	100
34	Jadhav Sakshi Sadashiv	A	P	P	A	P	P	P	P	P	P	80

11.0 Result

BE Student List

Sr. No	Full Name	Qualification	Sr. No	Full Name	Qualification
1	Vaibhav Gholap	Qualified	18	Komal Gondke	Qualified
2	Aditya Shahasane	Qualified	19	Tanishq Sudhakar Kharat	Qualified
3	Pranav Pravin Khedkar	Qualified	20	Mansi Khandekar	Qualified
4	Sahil Patil	Qualified	21	Palash Dipen Patel	Qualified
5	Rushikesh Jalinder Mohite	Not Qualified	22	Brijesh Duduka	Qualified

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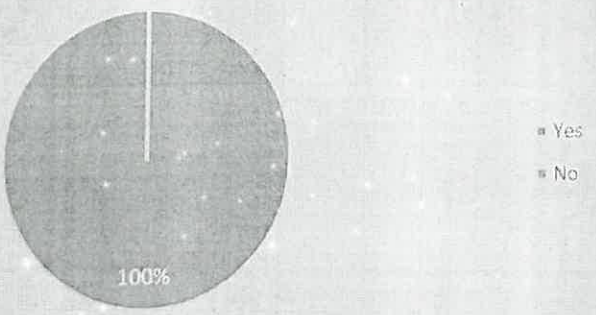
6	Tejas Suryawanshi	Qualified	23	Aditya Milind Jadhav	Qualified
7	Anjali Bhusara	Qualified	24	Sahil Shashikant Wayal	Qualified
8	Vijay Dabhade	Qualified	25	Krutika Sawant	Not Qualified
9	Sakshi Raju Mane	Qualified	26	Shivani Suhas Pomendkar	Qualified
10	Sagarika Nitin Koli	Qualified	27	Abhay Nagothanekar	Not Qualified
11	Kalpesh Rajendra Badgujar	Qualified	28	Milind Thikade	Not Qualified
12	Dhanshree patil	Qualified	29	Tejashree Pawar	Qualified
13	Zaid Dhansay	Qualified	30	Kajal Ashok Gaikar	Qualified
14	Sahil Ananta Mhatre	Qualified	31	Siddhi Pradeep Gharat	Qualified
15	Aman Ravindra Pathak	Qualified	32	Shweta Anil Chavan	Qualified
16	Nimish gangaram loke	Qualified	33	Rohit Suhas Matekar	Qualified
17	Rohit Shrimant Shelke	Not Qualified	34	Jadhav Sakshi Sadashiv	Qualified

12.0 Feedback

In order to collect the feedback of the training session a google form was floated which consisted of specific questions to gauge the training program. Below is the question wise analysis of the feedback.

1.Do you feel Tekla training would be beneficial for your career?



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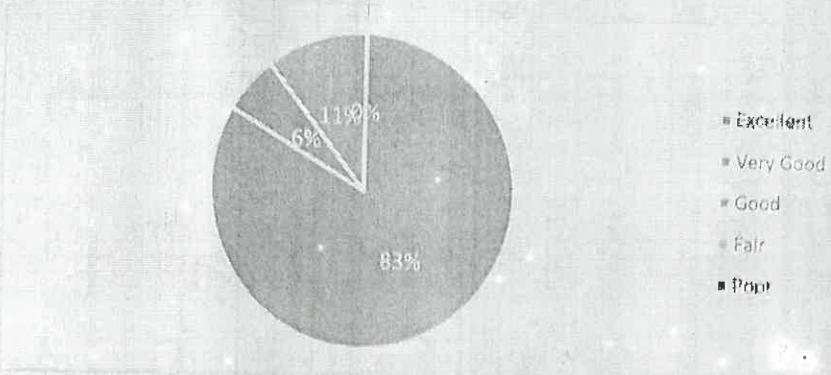
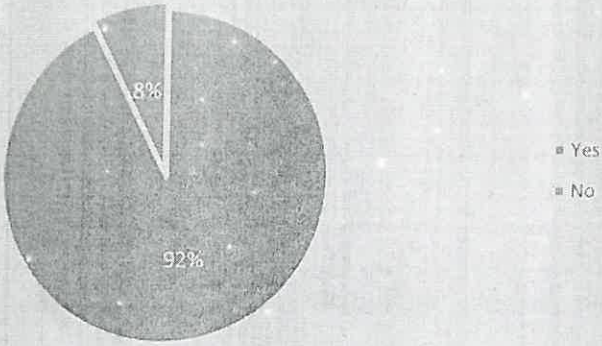
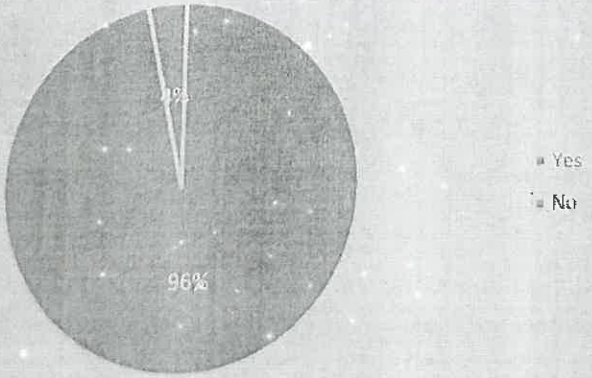
2.How was the curriculum of the Tekla training Program?



3.Was the Tekla curriculum completed as planned?



4.Did the Tekla training content meet our expectation?



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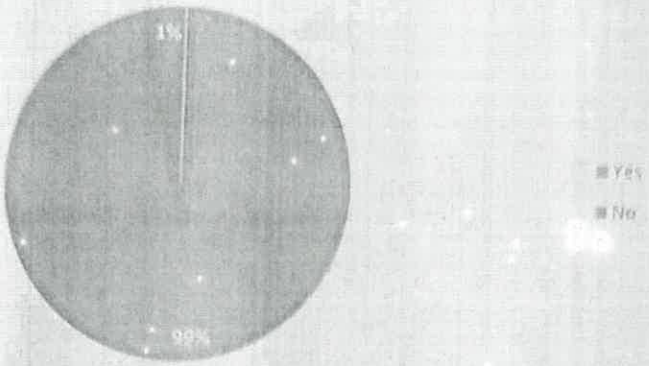
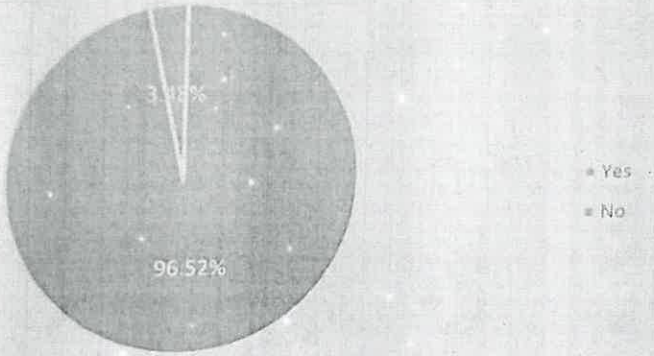
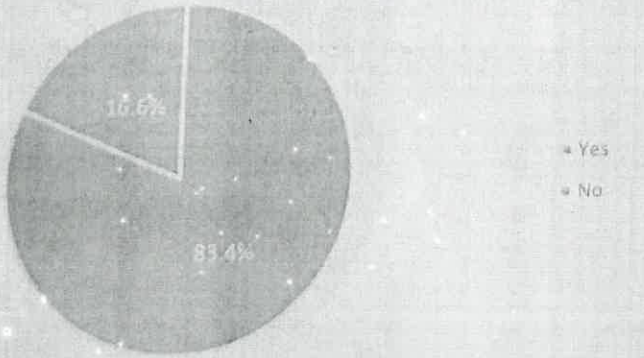
5.Did your trainer respond to your queries in a timely manner?



6.Was the time allotted for the training sufficient?



7.Where you able to practice alonge with the instructor?



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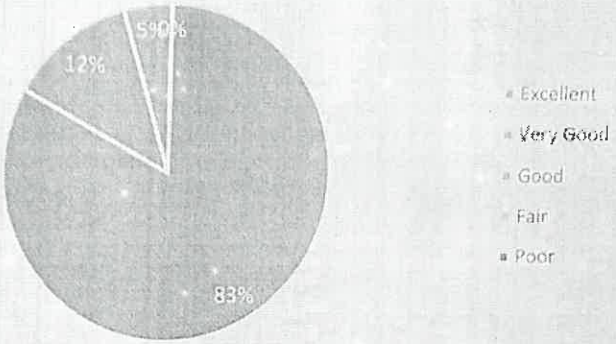
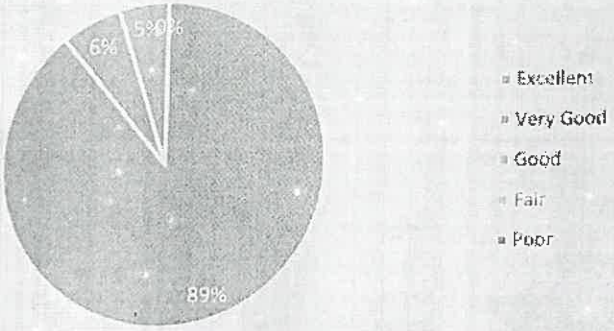
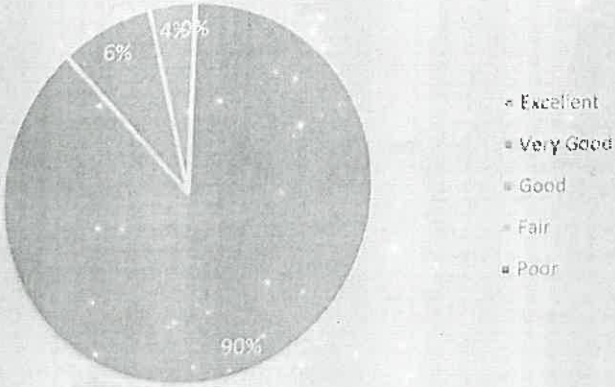
8.How would you rate the course content in terms of being easy to follow?



9.How would you rate the trainer for theTekla?



10.How was your overall experience with the Tekla training?



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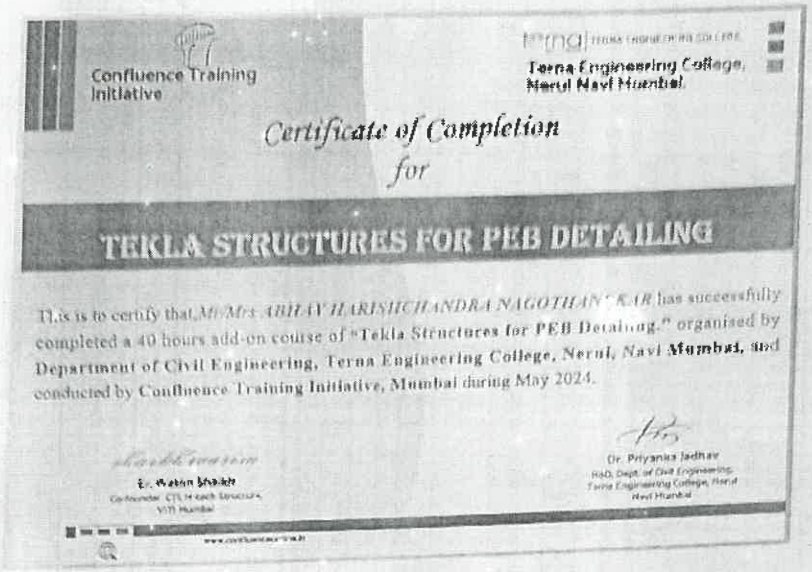
13.0 Sample Certificates



Confluence Training Initiative

Terna Engineering College, Nerul Navi Mumbai

Certificate of Completion
for

TEKLA STRUCTURES FOR PEB DETAILING

This is to certify that *Mr/Mrs ABHAY HARISHCHANDRA NAGOTHANKAR* has successfully completed a 40 hours add-on course of "**Tekla Structures for PEB Detailing.**" organised by **Department of Civil Engineering, Terna Engineering College, Nerul, Navi Mumbai,** and conducted by **Confluence Training Initiative, Mumbai** during May 2024.

Er. Wasim Shaikh
Co-founder, CTI Teach Structures, Vithi Mumbai

Dr. Priyanka Jadhav
HoD, Dept. of Civil Engineering, Terna Engineering College, Nerul Navi Mumbai

Confluence Training Initiative

Terna Engineering College, Nerul Navi Mumbai.

Certificate of Completion
for

TEKLA STRUCTURES FOR PEB DETAILING

This is to certify that *Mr/Mrs ANJALI SUNIL BHUSARA* has successfully completed a 40 hours add-on course of "**Tekla Structures for PEB Detailing.**" organised by **Department of Civil Engineering, Terna Engineering College, Nerul, Navi Mumbai,** and conducted by **Confluence Training Initiative, Mumbai** during May 2024.

Er. Wasim Shaikh
Co-founder, CTI Teach Structures, Vithi Mumbai

Dr. Priyanka Jadhav
HoD, Dept. of Civil Engineering, Terna Engineering College, Nerul Navi Mumbai

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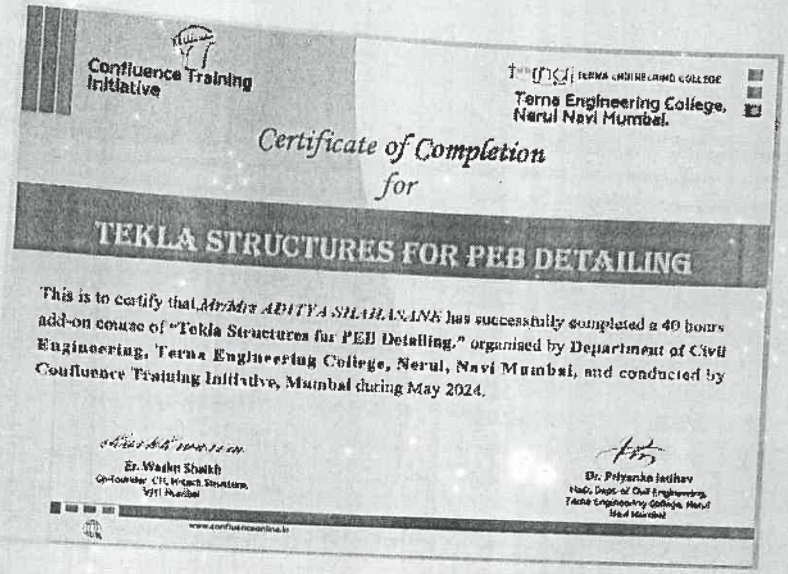

Confluence Training Initiative

Terna Engineering College, Nerul Navi Mumbai.

Certificate of Completion

for

TEKLA STRUCTURES FOR PEB DETAILING

This is to certify that *Mr/Ms ADITYA SHARANAN* has successfully completed a 40 hours add-on course of "**Tekla Structures for PEB Detailing.**" organised by **Department of Civil Engineering, Terna Engineering College, Nerul, Navi Mumbai,** and conducted by **Confluence Training Initiative, Mumbai** during May 2024.

Er. Wasim Shaikh
Co-founder CTI, Project Structure, VJTI Mumbai

Dr. Priyanka Jadhav
Head, Dept. of Civil Engineering, Terna Engineering College, Nerul Navi Mumbai

www.confluenceonline.in

Prof. Ritesh Tandekar
Dept. T & P Coordinator

Prof. Poonam Patil
APC

Dr. Priyanka Salunkhe
HOD

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TERNA PUBLIC CHARITABLE TRUST'S

TERNA ENGINEERING COLLEGE

Department of Civil Engineering

Report on

Software Training - STAAD-Pro

Enrolled Students

B.E. Civil Engineering

Academic Year:

2023-2024

Organized by

T&P Cell, Dept. of Civil Engineering, TEC

In Association with

Department of Civil Engineering, Nerul, Navi Mumbai

&

Confluence Trainings, Nanded.

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CONTENT

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TERNA ENGINEERING COLLEGE ★ Nerul, Navi Mumbai ★ 400706 ★ TPO C.T.S.

1. Meeting, Approval

1.1 Meeting

SUMMARY OF MINUTES OF THE MEETING

01.11.2023

With reference to meeting held and Minutes of meeting recorded the summary of minutes of meeting is as below.

The Department of Civil Engineering has planned to conduct Value added courses to provide knowledge to students regarding for vital subjects of our discipline. The following faculty members were present in the meeting conducted on 01 November 2023 at Civil HOD Cabin to finalize the Value added course to be offered for this year.

The HOD and the staff members concluded the following Value Added Courses for the academic year 2023-2024

SL. No.	Name of Value Added Course	Semester	Hours	Staff Incharge
1.	Software Training (Staad Pro)	VIII	40	Ritesh Tandekar

In the meeting it was decided to prepare syllabus & schedule of the program by the staff incharge within a week from the date of meeting.

1) Dr. Priyanka Salunkhe (HOD) & Add-on Incharge
2) Jamaluddin M. (Faculty)
3) Ritesh Tandekar (Course Coordinator)
4) Poonam Patil (APC)
5) Pradeep Sonwane (Faculty)

Dr. Priyanka Salunkhe
Dept of Civil Engg.

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Nerul, Navi Mumbai - 400 706

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How was the curriculum of the Primavera AOC program? Did it cover sufficient usage of the software? *

- EXCELLENT
- VERY GOOD
- GOOD
- FAIR
- POOR

Was the Primavera curriculum completed as planned? *

- YES
- NO

Did the Primavera course was helpful for understanding construction engineering and management? *

- YES
- NO

Were your queries resolved *

- YES
- NO

Were you able to practice along with the instructor? *

- YES
- NO

How would you rate the course content in terms of being easy to follow? *

- EXCELLENT
- VERY GOOD
- GOOD
- FAIR
- POOR

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How would you rate the trainer for the Primavera course? *

- EXCELLENT
- VERY GOOD
- GOOD
- FAIR
- POOR

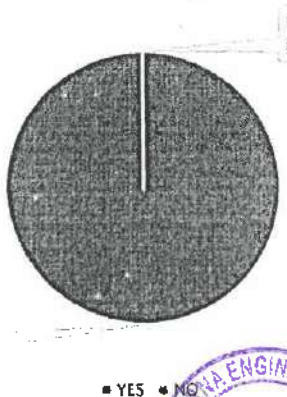
How was your overall experience with the add on course (Primavera)? *

- EXCELLENT
- VERY GOOD
- GOOD
- FAIR
- POOR

Do you have any suggestion or feedback for us?

Long answer text

Do you feel Primavera ADD ON COURSE was beneficial for you?



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Nerul Mumbai - 400 706

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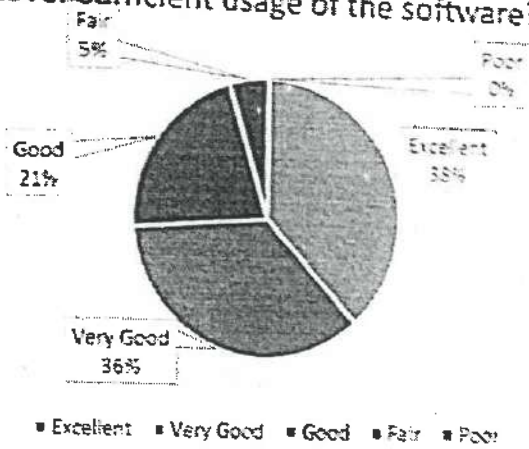
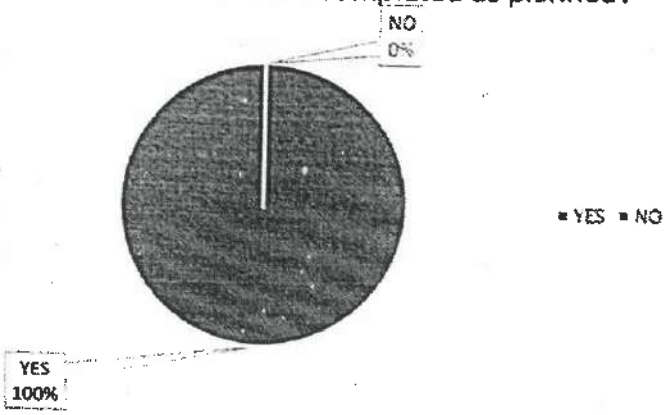
TPCT'S
Nerul, Navi Mumbai - 400706

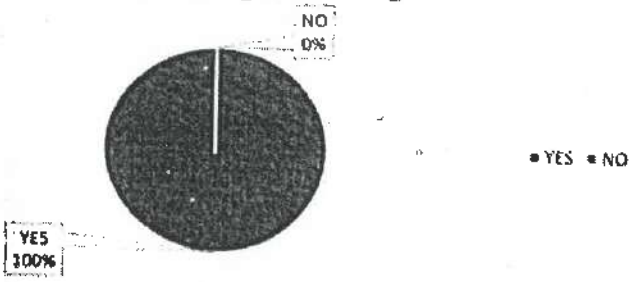
How was the curriculum of the Primavera AOC program? Did it cover sufficient usage of the software?



Was the Primavera curriculum completed as planned?



Did the Primavera course was helpful for understanding construction engineering and management?



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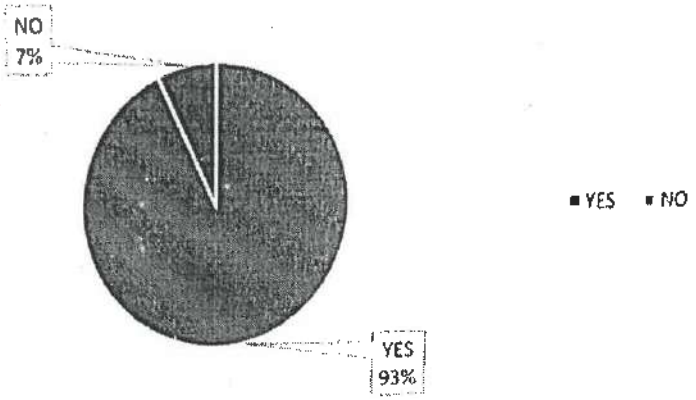
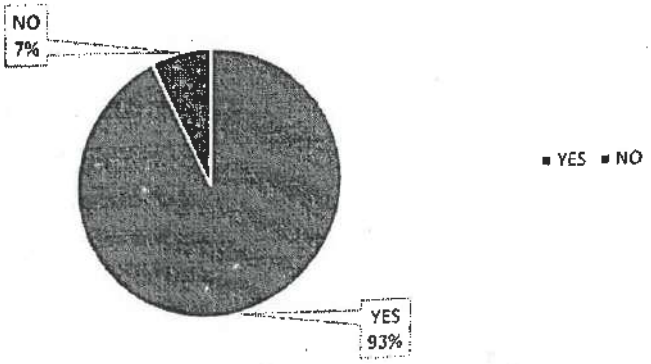
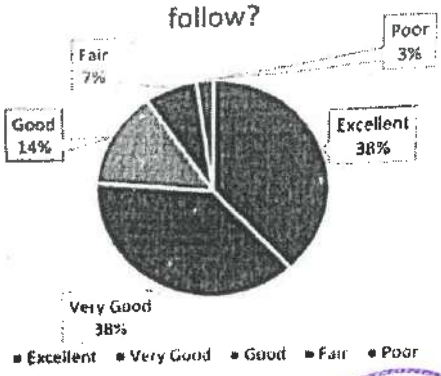
Were your queries resolved?



Were you able to practice along with the instructor?



How would you rate the course content in terms of being easy to follow?



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How would you rate the trainer for the Primavera course?

How was your overall experience with the add on course (Primavera)?

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Certificates

terna

TERNA ENGINEERING COLLEGE

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **VISMAY VINOY**

Student of final year has satisfactory completed Value Added Course in *Primavera p6* during the entire semester –VII during academic year 2023-24 in association with Bentley. This certificate has been issued to him/her after qualifying the exam.

Course In charge *HOD* *Principal*

terna

TERNA ENGINEERING COLLEGE

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **YOGESH MALWANI**

Student of final year has satisfactory completed Value Added Course in *Primavera p6* during the entire semester –VII during academic year 2023-24 in association with Bentley. This certificate has been issued to him/her after qualifying the exam.

Course In charge *HOD* *Principal*

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TERNA ENGINEERING COLLEGE

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **KRUTIKA SAWANT**

Student of final year has satisfactory completed Value Added Course in *Primavera p6* during the entire semester –VII during academic year 2023-24 in association with Bentley. This certificate has been issued to him/her after qualifying the exam.

Course In charge *HOD* *Principal*

terna

TERNA ENGINEERING COLLEGE

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **ROHIT BEDEKAR**

Student of final year has satisfactory completed Value Added Course in *Primavera p6* during the entire semester –VII during academic year 2023-24 in association with Bentley. This certificate has been issued to him/her after qualifying the exam.

Course In charge *HOD* *Principal*

Mrs. Poonam Patil
Course in charge

Dr. Priyanka Salunkhe
HOD

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Nerul, Navi Mumbai - 400 706

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Terna Engineering College, Nerul Navi Mumbai

Department of Civil Engineering

Report on

ADD ON COURSE (Exit Course)

Enrolled Students

B.E. Civil Engineering

Academic Year:

2023-2024 (FH-24)

Organized by

Department of Civil Engineering, Nerul, Navi Mumbai

CONTENT

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TERNA PUBLIC CHARITABLE TRUST'S

TERNA ENGINEERING COLLEGE, NERUL

Date:- 25/10/2023

To,

The Principal,

Terna Engineering College,

Nerul, Navi Mumbai – 400706

Subject: - Regarding Permission for Conducting Add-on Course (Exit - Course)

The Department of Civil Engineering intends to provide an Add-on Course (Exit - Course) for final year students to improve their basics of the important subjects. The objective of the course is to solve MCQs on core subjects of civil Engineering. This Course will help students in many entrance exam like GATE & other competitive exams. We request you to provide the permission to conduct the same. Instructor of this course will be our faculty.

Kindly provide the permission to do the same.

Thanking you.

Mr. Jamaluddin Maghrabi
AOC Incharge

Dr. Priyanka Salunkhe
HOD

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1. Meeting

1.1 Meeting

SUMMARY OF MINUTES OF THE MEETING

Date: 26/10/2023

With reference to meetings held and Minutes of meeting recorded the summary of minutes of meeting is as below.

The Department of Civil Engineering has planned to conduct an ADD - ON Course to provide knowledge to students regarding vital subjects of our discipline. The following faculty members were present in the meeting conducted on 25th October 2023, at Civil HOD Cabin to finalize the ADD - ON course to be offered for this semester.

The HOD and the staff members concluded the following Add on Course for the academic year 2023-2024

SR. No.	Name of Value Added Course	Semester	Hours	Subject Incharge
1.	ADD – ON Course (Exit Course)	VIII	40hrs	Mr. Dharmesh Gangani

In the meeting it was decided to prepare the syllabus of the program by the staff in charge within a week from the date of meeting.

1) Dr. Priyanka Salunkhe (HOD)
2) Mr. Jamalludin Maghrabi
3) Mr. Dharmesh Gangani
4) Mr. Agarchand Kawale

Mr. Dharmesh Gangani
Subject Incharge

Dr. Priyanka Salunkhe
HOD

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TERNA ENGINEERING COLLEGE, NERUL

Department of Civil Engineering

ACADEMIC YEAR 2023 – 2024 (FH-24)

1. Title of the course : ADD – ON Course (Exit Course)
2. Objective of the course : This course's primary goals were to increase students' knowledge and Proficiency in answering multiple-choice questions (MCQs) in the Foundational subjects of civil engineering.
3. Prerequisite : TRCS, DDSS, QSEV, CT, SA, SOM
4. Beneficiary : Students
5. Date & Duration of the course: Throughout the Semester
6. No of hours required : 40 Hours
7. Internal Resources : Mr. Dharmesh Gangani
8. Internal Assessment : MCQ Test
9. Contents of the course : Enclosed
10. Credits / Certification : Minimum 50% Marks in MCQs Test and 75% Attendance are Eligible for certification.
11. Venue : Civil Engineering Classrooms (203 & 211)

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2. About Institute

Terna Public Charitable Trust's Terna Engineering College is one of the well-known and it is located at Nerul, Navi Mumbai on a beautiful 3 acre campus. The institute is affiliated to University of Mumbai, approved by AICTE and accredited by National Board of Accreditation (NBA). This institution offers 7 UG, 4 PG and 3 PhD courses. Highest quality education is catered with curriculum extension by means of exceptional offerings like Engineering Products and Innovation Center (EPIC), Remote center of IIT Bombay which facilitates student / faculty members to interact with IIT professors through video conferencing, Industry Institute Interaction Cell, Electronics club (collaboration with 25 local electronics SMEs), e-Yantra Embedded Systems and Robotics Lab, Apple lab, Texas Instruments Lab. We are a diverse, talented community united by passion for learning and quest for more. Terna motivates students to make a difference in our campus, in the state, country and around the world.

2.1 About Department

The Department of Civil Engineering was established in the year 2017. The Mission of Department is to promote the disciplines of Planning, Design, Construction, Operation,
Maintenance and Research. It offers students technical knowledge with technique for better utilization of available resources and greater standardization of construction processes required by construction industry. We intend to develop students by giving training to make use of innovative design methods, techniques and practical implementation. Highly qualified and dedicated faculty are recruited and they are always on their toes to guide the students, forming the backbone of the department.

Key Features:

- Well Equipped Laboratories – Materials and Concrete Technology, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, Engineering Geology, CAD Laboratory, Surveying Laboratory, Hydraulics and Fluid Mechanics Laboratories
- Consultancy Services Offered and Fully Equipped With Major Facilities Like Fully Automatic Compression Testing Machine 200 Tons (NABL Accredited), Fully Automatic Universal Testing Machine (UTM 100 Ton- NABL Accredited), Fully Automated Total Station for Professional Surveying
- Consultancy Services Offered for Non-Destructive Testing

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- Faculties with Experience in Design and Execution of Residential, Commercial, Oil & Gas, Power Projects
- Faculties with Experience in Research in the Field of Smart Materials & Smart Structures, Pavement Design & Analysis, Geotextile Materials for Soil Stabilization, Geotechnical Engineering, Remote Sensing & GIS
- Active Mentoring Processes for Continuous Assessment in Academics
- Learning Experience Through Active Consultancy Projects
- Industrial Visits-CIDCO, PWD, MMRDA, Rock Museum Nasik
- Internship for Students (With & Without Stipend)
- International Students Chapter Association & Merit Scholarships
- Expert Lectures by Industry Experts
- NPTEL Courses
- Skill Based, Project Based Learning, Interactive and Interest Based Core Domain Learning
- Patents, Designs and Copyright Development
- Achieved 100 % students intern during winter vacations (2019-2020) in renowned organizations like Airport Authority of India (AAI), Public Work Department (PWD), City and Industrial Development Corporation (CIDCO), Rashtriya Chemical Fertilizers (RCF), American Concrete Institute and so many.

3. About Course

An ADD - ON course (Exit Course) has been introduced by the Department of Civil Engineering, Terna Engineering College, Navi Mumbai for Final Year students in Sem-VIII. This course's primary goals were to increase student's knowledge and proficiency in answering multiple-choice questions (MCQs) in the foundational subjects of civil engineering. This course is beyond their regular syllabus.

4. About Instructor

This course has been conducted by Mr. Dharmesh Gangani, Assistant Professor (Masters in Structural Engineering) & Mr. Agarchand Kawale, Assistant Professor (Masters in Water Resource Engineering).

5. Course Scheme

The marking scheme of this course has been decided at the institute and the departmental level.

Contact Hours: - 05 hrs per week

Sem. : - VIII

Attendance	MCQs Test	TOTAL
10	15	25

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6. Syllabus

Topic No.	Contents	Hours
1	Bolted and welded connections for axial force, beam to beam and beam to column connections, Tension members with welded and bolted end connection using single angle section & double angle section. Compression members, classification of cross sections, types of buckling, effective length of column and slenderness ratio, buckling curves. Design strength of laterally unsupported beams, web buckling, web crippling, shear lag effect and deflection.	08
2	Stress- strain curve of concrete and steel, characteristics of concrete and steel reinforcement. Concept of balanced, under reinforced and over reinforced sections. Concepts of probability and reliability, characteristic load, characteristic strength. Singly and doubly reinforced Rectangular and Flanged sections for flexure, shear and bond. Beams subjected to bending, shear and torsion. Limit state of collapse: compression for short and slender column. Members subjected to combined axial and uniaxial as well as biaxial bending.	08
3	Units of measurement of various items of works, Measurement systems for specific items of civil engineering structures, deduction rules for Masonry & Plastering work. Factors affecting rate analysis, Task work, sources of materials, Study of IS 7272 regarding labor output, District Schedule of Rates (DSR) Technical sanction, Contingencies, Work charged establishments etc. Various terms such as depreciation, sinking fund, capitalized value, years purchase etc	06
4	Properties of fresh and hardened concrete, factors affecting of workability, vibration of concrete, Types of vibrators: Internal, external, surface and table vibrators Durability: factors affecting durability, relation between durability and permeability, laboratory tests on durability such as Permeability test, Rapid chloride penetration test (RCPT). Definition and objectives, Types of mix as per IS:456, Mix design for compressive strength and flexural strength in accordance with IS 10262 and IS 456 Non-Destructive Testing: Need, application and limitation, Schmidt Rebound hammer test, Ultrasonic Pulse Velocity test.	06
5	Three hinged elastic arches, Determination of normal thrust, radial shear and bending moment for Symmetrical & Unsymmetrical parabolic three hinged arches Influence lines for Reactions, shear force and bending moment at a section of cantilever, simply supported, overhanging beams without internal hinges Deflection of Statically determinate structures, Application of Unit Load Method for calculating slope and deflection of a point on rigid jointed frames and deflection of a point on Pin jointed truss	06
6	Types of Stresses and Strains, stress-strain curve, different types of Elastic moduli and relationships between them, Poisson's ratio, factor of safety	06

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	A.F. S.F. and B M Diagrams for statically determinate SS and Cantilever beams without internal hinges and for single loading like point load, UDL, UVL or Couple moment. Area Moment of inertia, Parallel and Perpendicular axis theorem, polar moment of inertia. Radius of gyration. (Rectangular, Triangular, Circular, Semicircular section and their combination) Strain energy due to axial force and impact loads in columns, due to bending in beams, due to torsion of shaft	
	TOTAL	**40hrs**

7. Course Objective and Course Outcome

Course Objective

1. To make students familiar with behavior of steel structure and their components under the action of various loads. To Study various clauses of IS 800:2007
2. To study various clauses of IS: 456-2000 and their significance in the RCC design
3. To Study DSR & various methods of estimates for specific items of civil engineering structures
4. To enable the students to understand the mechanized and precise procedure of concrete production in Ready Mix Plants. To understand the basic non-destructive tests conducted on concrete to check the in place strength and durability of concrete.
5. To analyze for axial force in the Coplanar, perfect trusses and analysis of 3- Hinged arches. To study the concept of Influence Line Diagrams for Reactions, SF and B M in beams.
6. To learn stress - strain behavior and physical properties of materials. To Study AF, SFD & BMD of simply supported & Cantilever Structure.

Course Outcome

On completion of this course, the students will be able to:

CO1: Use the knowledge of Limit State Design philosophy & clauses of IS 800:2007 as applied to steel structures.

CO2: Apply various clauses specified in IS: 456-2000 for designing structural members with safety and economy.

CO3: Estimate approximate cost of the structure by various methods & prepare detailed estimates of various civil engineering structures.

CO4: Identify the ingredients and properties of fresh and hardened concrete. To interpret and design concrete mix for various grades for various exposure conditions

CO5: To Calculate radial shear, normal thrust and bending moment in parabolic 3- Hinged arches. Calculate deflection of statistically determinate structure.

CO6 : To Calculate stress and strain. Draw Influence Line Diagrams for axial forces in trusses, Reactions, SF and B M in beams and find their values when rolling loads are passing over them

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Program Outcome

PO 1: - Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2: - Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

PO 3: - Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4: - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5: - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6: - The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: - Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8: - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: -Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: - Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12: - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcome

PSO 1: - Graduates will be able to plan, analyses, design and drawing and estimate for residential, commercial, industrial and infrastructure projects. They will be able to work on site for supervision of various construction activities.

PSO 2: - Graduates will be able to use different software related to Civil Engineering for developing skills required by the industry.

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8. Mapping CO, PO and POS

Mod. No	Topic of Content	CO	PO	PSO
1	Bolted and welded connections for axial force, beam to beam and beam to column connections, Tension members with welded and bolted end connection using single angle section & double angle section. Compression members, classification of cross sections, types of buckling, effective length of column and slenderness ratio, buckling curves. Design strength of laterally unsupported beams, web buckling, web crippling, shear lag effect and deflection.	1	1, 2, 3, 4, 5, 6, 7, 8, 10, 12	1,2
2	Stress- strain curve of concrete and steel, characteristics of concrete and steel reinforcement. Concept of balanced, under reinforced and over reinforced sections. Concepts of probability and reliability, characteristic load, characteristic strength. Singly and doubly reinforced Rectangular and Flanged sections for flexure, shear and bond. beams subjected to bending, shear and torsion. Limit state of collapse: compression for short and slender column. Members subjected to combined axial and uniaxial as well as biaxial bending.	2	1, 2, 3, 4, 5, 6, 7, 8, 10, 12	1,2
3	Units of measurement of various items of works, Measurement systems for specific items of civil engineering structures, deduction rules for Masonry & Plastering work. Factors affecting rate analysis, Task work, sources of materials, Study of IS 7272 regarding labor output, District Schedule of Rates (DSR) Technical sanction, Contingencies, Work charged establishments etc. Various terms such as depreciation, sinking fund, capitalized value, years purchase etc	3	1, 2, 3, 4, 5, 6, 7, 8, 10, 12	1,2
4	Properties of fresh and hardened concrete, factors affecting of workability, vibration of concrete, Types of vibrators: Internal, external, surface and table vibrators Durability: factors affecting durability, relation between durability and permeability, laboratory tests on durability such as Permeability test, Rapid chloride penetration test (RCPT). Definition and objectives, Types of mix as per IS:456, Mix design for compressive strength and flexural strength in accordance with IS 10262 and IS 456 Non-Destructive Testing: Need, application and limitation, Schmidt Rebound hammer test, Ultrasonic Pulse Velocity test.	4	1, 2, 3, 4, 5, 6, 7, 8, 10, 12	1

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5	Three hinged elastic arches, Determination of normal thrust, radial shear and bending moment for Symmetrical & Unsymmetrical parabolic three hinged arches Influence lines for Reactions, shear force and bending moment at a section of cantilever, simply supported, overhanging beams without internal hinges Deflection of Statically determinate structures, Application of Unit Load Method for calculating slope and deflection of a point on rigid jointed frames and deflection of a point on Pin jointed truss	5	1, 2, 3, 4, 5, 6, 7, 8, 10, 12	1
6	Types of Stresses and Strains, stress-strain curve, different types of Elastic moduli and relationships between them, Poisson's ratio, factor of safety A.F. S.F. and B M Diagrams for statically determinate SS and Cantilever beams without internal hinges and for single loading like point load, UDL, UVL or Couple moment. Area Moment of inertia, Parallel and Perpendicular axis theorem, polar moment of inertia. Radius of gyration. (Rectangular, Triangular, Circular, Semicircular section and their combination) Strain energy due to axial force and impact loads in columns, due to bending in beams, due to torsion of shaft	6	1, 2, 3, 4, 5, 6, 7, 8, 10, 12	1

9. Schedule

TPCT's TERNA ENGINEERING COLLEGE
DEPARTMENT OF CIVIL ENGINEERING
Academic Time Table 2023-24 (FH-24)
CLASS:BE (CIVIL), SEM:VIII (R1)

Day/Time	9:00-10:00	10:00-11:00	11:15-12:15	12:15-1:15	1:15-1:45	1:45-2:45	2:45-3:45	3:45-4:45
MON	PM SB R-203	IWT RT R-203	A3/CM LAB /PP / R 207		BREAK			
TUE	RRR DG R-203	CM PP R 203	RRR DG R-211	AOC-BE -DG R-211		IWT RT R-203	PM SB R-203	AOC-BE AK R 203
WED			A2/CM LAB /PP / R 207			PM SB R 203	AOC-BE -DG R-203	AOC-BE DG R 203
THU	A1/CM LAB /PP / R 207		CM PP R-203	IWT RT R-203		RRR DG R-203	CM PP R-203	AOC-BE DG R 203
FRI	PROJECT					PROJECT		

ABBR	COURSE
CM	CONSTRUCTION MANAGEMENT
RAR	REPAIRS REMEDIATION & RETROFITTING
IWT	INDUSTRIAL WASTE TREATMENT
PM	PROJECT MANAGEMENT
AOC	AOC ON CHARM

ABBR	TEACHER
AK	ACADEMIC CHARGE
BT	BITESH TAMRAKAR
DG	DHANESH GANGANI
PP	PUSHKAR PATIL
SB	SUNIL BAGWAN

TIME TABLE IC HOD DEAN ACADEMICS PRINCIPAL 10/01

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10. List of Students

Roll No.	ID No	Student Name	Roll No.	ID No	Student Name
A01	TU7F2021001	GHOLAP VAIBHAV LAHU	A37	TU7F2021045	LOKE NIMISH GANGARAM
A02	TU7F2021002	BHOIR SANIKA SADANAND	A38	TU7F2021046	SHELKE ROHIT SHRIMANT
A03	TU7F2021003	GAWADE SAURABH KAILAS	A39	TU7F2021048	GONDKE KOMAL
A04	TU7F2021004	SHAHASANE ADITYA PRAVIN	A40	TU7F2021049	KHARAT TANISHQ
A05	TU7F2021006	WALANJ PRATIK SANTOSH	A41	TU7F2021052	KHANDEKAR MANSI DILIP
A06	TU7F2021005	MUKHERJEE PRANJAL	A42	TU7F2021053	PATIL TANISHQ SOMNATH
A07	TU7F2021007	KILLEDAR ANURUP ANIL	A43	TU7F2021028	HOTKAR AKSHATA
A08	TU7F2021008	MHATRE SHARV SANTOSH	A44	TU7F2021026	MAHADIK SAHIL RAJESH
A09	TU7F2021009	KHEDKAR PRANAV PRAVIN	A45	TU7F2021027	SINGH SAHIL DEEPRAJ
A10	TU7F2021010	PATIL SAHIL RAVINDRA	A46	TU7F2021025	PATEL PALASH DIPEN
A11	TU7F2021011	VINOY VISMAY LUKOSE	A47	TU7S2122001	DONGRE HRISHIKESH
A12	TU7F2021012	WAGHMARE NILESH	A48	TU7S2122002	DUDUKA BRIJESH
A13	TU7F2021013	MOHITE RUSHIKESH	A49	TU7S2122003	JADHAV ADITYA
A14	TU7F2021014	MALI SRUSHTI SHIVAJI	A50	TU7S2122004	LAWANE KESHAR
A15	TU7F2021015	SURYAWANSHI TEJAS DILIP	A51	TU7S2122005	BEDEKAR ROHIT
A16	TU7F2021016	PATIL SUMIT DINESH	A52	TU7S2122007	PAWAR SAHIL
A17	TU7F2021017	BHUSARA DIGVIJAY	A53	TU7S2122008	WAYAL SAHIL
A18	TU7F2021019	CHAUDHARI HASMITA GANGA	A54	TU7S2122006	PARAB ROHAN RAJAN
A19	TU7F2021020	BHUSARA ANJALI SUNIL	A55	TU7S2122009	SAWANT KRUTIKA
A20	TU7F2021024	KOPPULA ASHOK SATISH	A56	TU7S2122010	POMENDKAR SHIVANI
A21	TU7F2021022	AMBRE ANURAG SANJAY	A57	TU7S2122011	NAGOTHANEKAR ABHAY
A22	TU7F2021029	CHOUGULE PARTH VINOD	A58	TU7S2122012	THIKADE MILIND JANU
A23	TU7F2021031	GHAWARE SAMBODH	A59	TU7S2122013	DUBEY SATYAJEET
A24	TU7F2021032	DABHADE VIJAY SANJAY	A60	TU7S2122014	SIDDAMAL KARTIK
A25	TU7F2021033	PRASAD SHUBHAM	A61	TU7S2122015	MALVANI YOGESH
A26	TU7F2021034	KEDARI ADITYA MANGESH	A62	TU7S2122017	PAWAR TEJASHREE
A27	TU7F2021035	CHAVAN AISHWARYA	A63	TU7S2122018	GAIKAR KAJAL
A28	TU7F2021036	MANE SAKSHI RAJU	A64	TU7S2122019	GHARAT SIDDHI
A29	TU7F2021037	KOLI SAGARIKA NITIN	A65	TU7S2122020	PHADTARE SHUBHANGI
A30	TU7F2021038	BADGUJAR KALPESH	A66	TU7S2122021	PANPALIYA KAUSTUBH
A31	TU7F2021039	CHAKOR SHUBHAM	A67	TU7S2122022	CHAVAN SHWETA
A32	TU7F2021040	PATIL DHANSHREE VIKAS	A68	TU7S2122023	MATEKAR ROHIT
A33	TU7F2021042	DHANSAY ZAID ZAFARULLAH	A69	TU7S2122026	JADHAV SAKSHI SADASHIV
A34	TU7F2021043	MHATRE SAHIL ANANTA	A70	TU7F1920030	KASBE DHANANJAY
A35	TU7F2021041	SINGH ANKIT RAJ ASHOK	A71	TU7F1920038	WANI JUNAID AHMAD
A36	TU7F2021044	PATHAK AMAN RAVINDRA			

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11. Rubrics for Evaluation

Term Work

	Head	Marks (25)
1	Attendance	10
2	MCQs Test	15

Attendance

	Head	Marks
1	91% onwards	10
2	81%- 90%	9
3	75%- 80%	8

Credits / Certification : Those who have 75% attendance and scored Minimum 50% in MCQ Test are eligible for certification.

12. Attendance

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Department of Civil Engineering
Bachelor Year Engineering
Academic Year 2023 - 2024 (FH-24)
BE (SEM VIII)

Name of Subject: AOC
Faculty Name: Mr. Dharmesh Gangani

Roll No.	Student Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	% Attend	Marks
Dates :-		10/1	12/1	16/1	17/1	17/1	18/1	23/01	23/01	24/01	24/01	30/01	31/1	3/1	7/2	7/2	8/2	12/2	27/2	28/2	28/2	29/2	12/3	12/3	13/3	13/3	15/3	19/3	20/3	20/3	21/3	26/03	27/03	27/03	28/3		
A01	GHOLAP YAIBHAV LAHU		1		1	1	1	1	1		1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1									
A02	BHOR SANIKA SADANAND	1	1	1			1	1	1			1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1			1	1	1	1		79	8
A03	GAVADE SAURABH KALAS																1	1	1	1	1	1	1	1		1	1	1	1		1	1	1		1	76	8
A04	SHAHASANE ADITYA PRAVIN	1			1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1		1	1	1								29	
A05	VALANJ PRATIK SANTOSH												1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1		1	1	82	9
A06	MUKHERJEE PRANJAL	1	1		1	1		1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1				1	1	1	1	1	1	1	47	
A07	KILLEDAR ANURUP ANIL			1	1	1	1										1	1	1	1	1	1	1	1	1			1	1	1	1		1	1		73	9
A08	MHATRE SHARV SANTOSH	1	1	1		1	1	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1			1	56	
A09	KHEDKAR PRANAV PRAVIN		1		1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1					76	8
A10	PATIL SAHIL RAVINDRA	1	1	1		1	1	1	1	1	1	1		1	1	1		1	1	1	1	1	1	1	1	1	1	1			1	1	1	1		73	8
A11	VINOY YISMAY LUKOSE	1	1		1	1	1	1	1	1	1		1	1	1			1	1	1	1	1	1	1		1	1	1			1	1			1	76	8
A12	VAGHMARE NILESH BABURAO	1	1		1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1			1	1	1	1	1		82	9
A13	MOHITE RUSHIKESH JALINDER											1						1	1	1	1	1	1	1	1	1	1	1			1	1	1	1		85	9
A14	MALI SRUSHTI SHIVAJI		1		1		1	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1				1	1	1	1	47	
A15	SURYAVANSHI TEJAS DILIP												1	1	1	1		1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	82	9
A16	PATIL SUMIT DINESH		1				1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1				1	1	1	1				47	
A17	BHUSARA DIGVIJAY	1	1		1	1	1	1	1			1		1		1		1	1	1	1	1	1	1		1	1	1	1	1	1		1	1	1	76	8
A18	CHAUDHARI HASMITA	1	1		1	1	1	1	1		1	1		1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1		76	8
A19	BHUSARA ANJALI SUNIL	1	1		1	1	1			1	1	1		1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1		82	9
A20	KOPPULA ASHOK SATISH		1	1	1	1	1	1	1	1		1	1	1	1	1		1	1	1	1	1	1	1				1	1	1	1	1	1	1	1	76	8
A21	AMBRE ANURAG SANJAY		1					1	1									1	1	1	1	1	1	1	1	1		1	1	1	1					79	8
A22	CHOUGULE PARTH VINOD		1	1	1	1	1	1		1	1	1	1	1	1			1	1	1	1	1					1	1	1	1						44	
A23	GHAVARE SAMBODH	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1						76	8
A24	DARHADE VIJAY SANJAY	1		1	1	1	1	1	1	1			1	1	1			1	1	1	1	1	1	1	1		1	1	1							79	8
A25	PRASAD SHUBHAM	1	1				1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1		1	1	1	1	1	1			76	8
																																				82	9

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Faculty Name: Mr. Dharmesh Gangani		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	% Attend	Marks
Dates :-		10/1	12/1	16/1	17/1	17/1	18/1	23/01	23/01	24/01	24/01	30/01	31/1	31/1	7/2	7/2	8/2	12/2	27/2	28/2	28/2	29/2	12/3	12/3	13/3	13/3	15/3	19/3	20/3	20/3	2/3	26/03	27/03	27/03	28/3		
Roll No.	Student Name																																				
A26	KEDARI ADITYA MANGESH	1	1		1	1		1	1	1		1		1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1		82	9
A27	CHAYAN AISHVARYA	1	1		1	1	1	1	1	1	1	1		1			1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1		79	8
A28	MANE SAKSHI RAJU		1	1		1	1	1	1			1	1	1	1		1	1	1	1	1	1			1	1	1	1	1	1		1	1	1	1	76	8
A29	KOLI SAGARIKA NITIN	1	1	1	1	1		1	1			1	1	1	1		1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1		76	8
A30	BADGUJAR KALPESH		1		1	1		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1				76	8
A31	CHAKOR SHUBHAM	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1		1	1	1	1	1	76	8
A32	PATIL DHANSHREE		1	1	1	1			1	1	1	1		1	1	1	1	1	1	1	1	1	1	1		1	1	1			1	1				76	8
A33	DHANSAY ZAID	1		1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1		1				76	8
A34	MHATRE SAHIL ANANTA		1	1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1				1	1		1	1	1	1	1	73	8
A35	SINGH ANKIT RAJ ASHOK	1	1	1	1	1		1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		82	9
A36	PATHAK AMAN RAVINDRA	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1			1	1	1	1			1	1	1	1			76	8
A37	LOKE NIMISH GANGARAM		1	1				1	1	1		1	1	1			1	1	1	1	1	1	1	1	1	1				1	1	1	1	1		85	9
A38	SHELKE ROHIT SHRIMANT	1	1	1	1	1	1	1	1			1	1	1	1		1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1		76	8
A39	GONDKE KOMAL	1	1	1	1	1		1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1		85	9
A40	KHARAT TAMISHQ		1				1	1				1	1	1	1		1	1	1	1	1	1	1	1			1	1	1	1					79	8
A41	KHANDEKAR MANSI DILIP	1	1		1	1		1	1	1	1	1	1	1	1		1	1	1	1	1			1	1	1	1								47	
A42	PATIL TANISHQ SOMNATH	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1						79	8
A43	HOTKAR AKSHATA JAYSING	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1			1	82	9
A44	MAHADIK SAHIL RAJESH																1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1		85	9
A45	SINGH SAHIL DEEPRAJ																1	1	1	1	1	1													21	
A46	PATEL PALASH DIPEN		1				1	1	1								1	1	1	1	1	1					1	1			1				29	
A47	DONGRE HRISHIKESH	1	1		1	1	1	1	1			1				1	1	1	1	1	1	1	1	1	1	1									53	
A48	DUDUKA BHUVESH	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					1	1	1	1	1	1			76	8
A49	JADHAV ADITYA	1		1	1	1	1	1	1	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1		79	8
A50	LAVANE KESHAR														1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1	1	76	8
																	1	1	1	1	1	1	1	1	1	1			1	1			1	44		

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Faculty Name: Mr. Dharmesh Gangani		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	% Attend	Marks
Dates :-		10/1	12/1	16/1	17/1	17/1	18/1	23/01	23/01	24/01	24/01	30/01	31/1	31/1	7/2	7/2	8/2	12/2	27/2	28/2	28/2	29/2	12/3	12/3	13/3	13/3	15/3	15/3	20/3	20/3	2/3	25/03	27/03	27/03	28/3		
Roll No.	Student Name																																				
A51	BEDEKAR ROHIT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1	1			1	1				79	8
A52	PAWAR SAHIL		1					1	1									1	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	56	
A53	VAYAL SAHIL	1		1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						76	8
A54	PARAB ROHAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1		1				1				76	8
A55	SAVANT KRUTIKA	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	91	10
A56	POKENDKAR SHIVANI		1	1	1	1		1	1			1					1	1	1	1	1	1	1	1	1	1	1	1	1		1	1				65	
A57	NAGOTHANEKAR ABHAY		1	1		1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1		1			76	8
A58	THKDE MILIND																	1	1	1	1	1	1	1	1	1	1	1			1		1	1	1	44	
A59	DUBEY SATYAJEET		1	1	1		1	1	1	1	1	1	1	1			1	1	1	1	1	1			1	1	1	1		1	1	1	1	1	1	79	8
A60	SIDDAMAL KARTIK	1	1		1	1	1	1	1			1		1	1		1	1	1	1	1	1	1	1	1		1	1	1	1	1		1		76	8
A61	MALYANI YOGESH	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	91	10
A62	PAWAR TEJASHREE	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				85	9
A63	GAIKAR KAJAL	1					1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1	1	1	1	1	1	1		71	8
A64	GHARAT SIDDH	1	1	1				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1				79	8
A65	PHADTARE SHUBHANGI	1	1		1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1		85	9
A66	PANPALIYA KAUSTUBH																	1	1	1	1	1			1	1	1	1	1	1						32	
A67	CHAVAN SHWETA	1	1	1		1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1		85	9
A68	MATEKAR ROHIT	1	1				1	1	1		1	1	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	82	9
A69	JADHAV SAKSHI	1		1			1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1		76	8
A70	KASBE DHANAJAY MAHADEV																	1	1	1	1	1						1	1	1					1	26	
A71	VANI JUNAID	1	1	1/5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1	1	1	91	10

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13. Result

The marks obtained by students in MCQ test are as follows:

Roll No.	Student Name	Quiz 01	Quiz 02	Quiz 03	Quiz 04	Quiz 05	AVG Marks	Remark
A01	Gholap Vaibhav Lahu	12	10	11	8	14	11	Qualified
A02	Bhoir Sanika Sadanand	7		13			10	Qualified
A03	Gawade Saurabh Kailas							Disqualified
A04	Shahasane Aditya Pravin	8		12		15	12	Qualified
A05	Walanj Pratik Santosh							Disqualified
A06	Mukherjee Pranjal	9	12	12			11	Qualified
A07	Killedar Anurup Anil							Disqualified
A08	Mhatre Sharv Santosh		10	10	13		11	Qualified
A09	Khedkar Pranav Pravin		12	12	14		13	Qualified
A10	Patil Sahil Ravindra	11				12	12	Qualified
A11	Vinoy Vismay Lukose	9	12		14		12	Qualified
A12	Waghmare Nilesh	9	11	11			10	Qualified
A13	Mohite Rushikesh							Disqualified
A14	Mali Srushti Shivaji		9	9	7	14	10	Qualified
A15	Suryawanshi Tejas Dilip							Disqualified
A16	Patil Sumit Dinesh		10	10	12		11	Qualified
A17	Bhusara Digvijay		9	9	10		9	Qualified
A18	Chaudhari Hasmita Ganga	12	13	13		14	13	Qualified
A19	Bhusara Anjali Sunil	11		12	9		11	Qualified
A20	Koppula Ashok Satish		14			15	15	Qualified
A21	Ambre Anurag Sanjay							Disqualified
A22	Chougule Parth Vinod		9	10		14	11	Qualified
A23	Ghaware Sambodh		14	14		12	13	Qualified
A24	Dabhade Vijay Sanjay	7		10	12	11	9	Qualified
A25	Prasad Shubham		12	12		14	13	Qualified
A26	Kedari Aditya Mangesh	9	8	6	10		8	Qualified
A27	Chavan Aishwarya		10	10	12		11	Qualified
A28	Mane Sakshi Raju		11	11			11	Qualified
A29	Koli Sagarika Nitin	7		12	8		9	Qualified
A30	Badgujar Kalpesh		14	14	13		14	Qualified
A31	Chakor Shubham		12		13	15	13	Qualified
A32	Patil Dhanshree Vikas		12	13	14		13	Qualified
A33	Dhansay Zaid Zafarullah	11		12		14	12	Qualified
A34	Mhatre Sahil Ananta		15	15		15	15	Qualified
A35	Singh Ankit Raj Ashok	6	14	14			11	Qualified
A36	Pathak Aman Ravindra		15	14		12	14	Qualified
A37	Loke Nimish Gangaram	12	15	15			14	Qualified
A38	Shelke Rohit Shrimant	13	15	15	9	14	13	Qualified
A39	Gondke Komal	10	12		12		11	Qualified
A40	Kharat Tanishq		11	11			11	Disqualified
A41	Khandekar Mansi Dilip	12	10	10	14		12	Qualified
A42	Patil Tanishq Somnath		14	14	13		14	Qualified

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A43	Hotkar Akshata		10		7	10	9	Qualified
A44	Mahadik Sahil Rajesh							Disqualified
A45	Singh Sahil Deepraj							Disqualified
A46	Patel Palash Dipen		11	11			11	Disqualified
A47	Dongre Hrishikesh		12	12	15	9	12	Qualified
A48	Duduka Brijesh		6	6	8	3	6	Disqualified
A49	Jadhav Aditya	9	5	5	15	14	10	Qualified
A50	Lawane Keshar				15	10	13	Disqualified
A51	Bedekar Rohit	6	10	10	11	8	9	Qualified
A52	Pawar Sahil		14	14			14	Disqualified
A53	Wayal Sahil	8			12	12	11	Qualified
A54	Parab Rohan Rajan	11	9	9	14		11	Qualified
A55	Sawant Krutika	8	6	6	11	11	8	Qualified
A56	Pomendkar Shivani	9	5	5			6	Disqualified
A57	Nagothanekar Abhay		12	12		12	12	Qualified
A58	Thikade Milind Janu							Disqualified
A59	Dubey Satyajeet		12	8	10		10	Qualified
A60	Siddamal Kartik		8	8		11	9	Qualified
A61	Malvani Yogesh	10	14	14		14	13	Qualified
A62	Pawar Tejashree		10	10		10	10	Qualified
A63	Gaikar Kajal		8	8	13	11	10	Qualified
A64	Gharat Siddhi	7	13	13	13	9	11	Qualified
A65	Phadtare Shubhangi	9	12	12	15	10	12	Qualified
A66	Panpaliya Kaustubh							Disqualified
A67	Chavan Shweta		9	9	11	7	9	Qualified
A68	Matekar Rohit	11	12		12		12	Qualified
A69	Jadhav Sakshi Sadashiv	7	10	10	15		11	Qualified
A70	Kasbe Dhananjay							Disqualified
A71	Wani Junaid Ahmad		3	3		7	4	Disqualified

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14. Feedback Form

Feedback on ADD-ON Course (Exit Course)

B I U

This form is for collecting feedback on ADD-ON Course (Exit Course) conducted by the Civil Department from January - 24 to April - 24 (FH-24)

This form is automatically collecting emails from all respondents. Change settings

Name of Students *

Short answer text

Roll No *

Short answer text

Batch *

- A1
- A2
- A3

Do you feel ADD-ON Course was beneficial to you *

- Yes
- No

ADD-ON Course was proficient to increase students' knowledge in Core Subject of Civil Engineering

- Yes
- No

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ADD-ON Course was proficient in answering multiple-choice questions (MCQs) in the foundational subjects of civil engineering

- Yes
- No

Did ADD-ON Course was useful in other Competitive Exams *

- Yes
- No

Queries regarding subjects were resolved *

- Yes
- No

How would you rate the way of teaching *

- Excellent
- Very Good
- Good
- Fair
- Poor

How do you rate the course content of ADD ON Content *

- Excellent
- Very Good
- Good
- Fair
- Poor

Do you have any suggestion or feedback for us?

Long answer text

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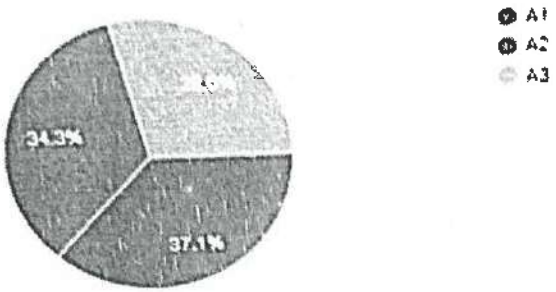
eedback from Students

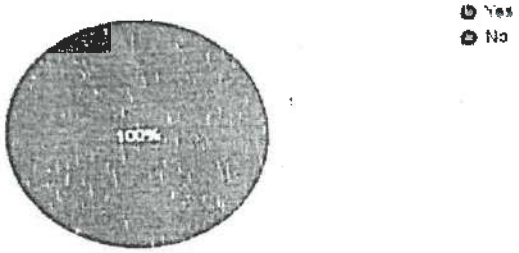
Batch

35 responses



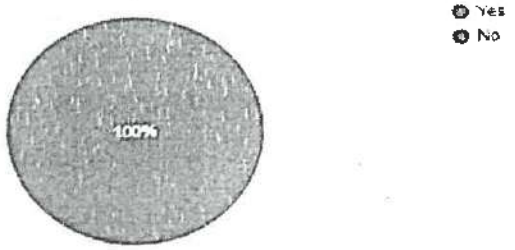
Do you feel ADD-ON Course was beneficial to you

35 responses



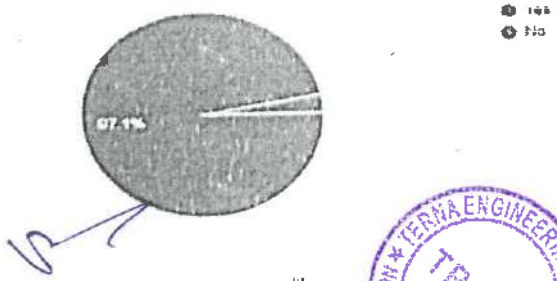
ADD-ON Course was proficient to increase students' knowledge in Core Subject of Civil Engineering

35 responses



ADD-ON Course was proficient in answering multiple-choice questions (MCQs) in the foundational subjects of civil engineering

35 responses



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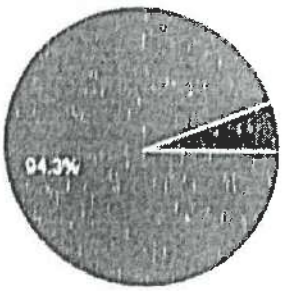
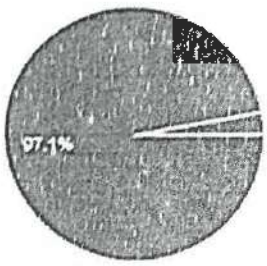
did ADD-ON Course was useful in other Competitive Exams

35 responses



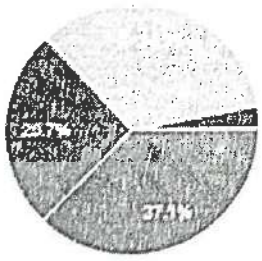
Queries regarding subjects were resolved

35 responses



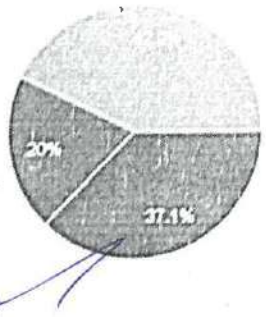
How would you rate the way of teaching

35 responses



How do you rate the course content of ADD ON Content

35 responses



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PROUDLY PRESENTED TO

Jadhav Sakshi Sadashiv

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr Priyanka Salunkhe
HOD

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Dhotre Shubhangi

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Malvani Yogesh

Mr Dharmesh Gangani
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Pawar Tejashree

Mr Dharmesh Gangani
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Siddanal Kartik

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Dubey Satyajeet

Mr Dharmesh Gangani
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Nagothaonkar Abhay

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

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PROUDLY PRESENTED TO

Sawant Kritika

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

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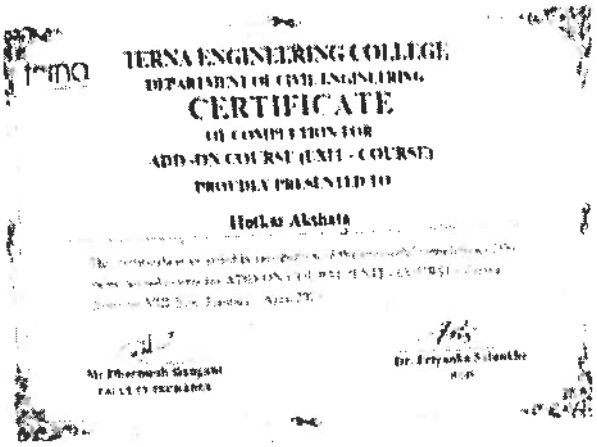
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DEPARTMENT OF CIVIL ENGINEERING
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ADD-ON COURSE (EXIT - COURSE)
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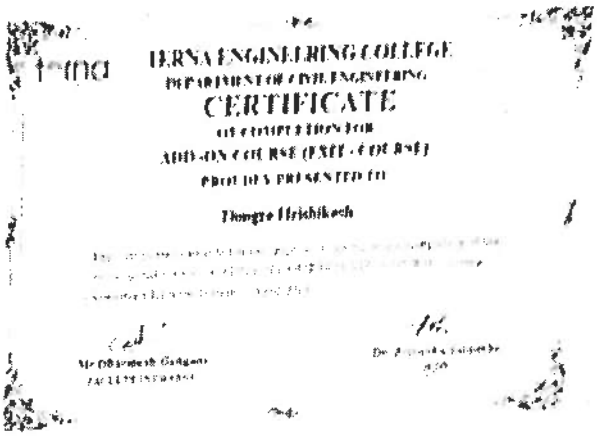
Hotkar Akshata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CERTIFICATE
OF COMPLETION FOR
ADD-ON COURSE (EXIT - COURSE)
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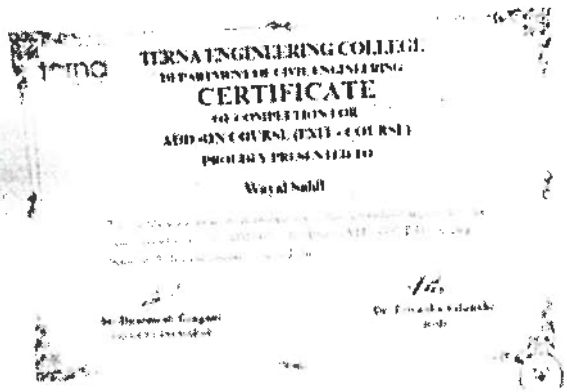
Thorge Hrishikesh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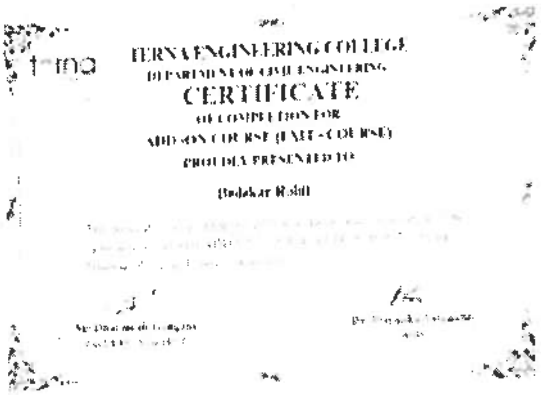
ADD-ON COURSE (EXIT - COURSE)
PROUDLY PRESENTED TO
Wayal Sahil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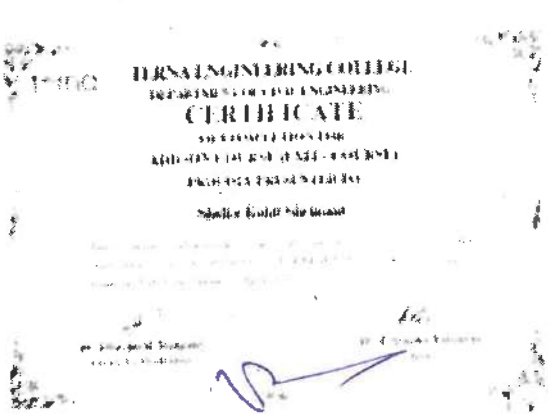
Dalakar Rohit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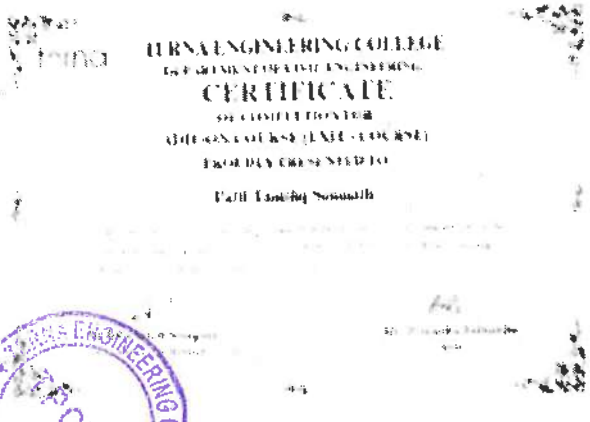
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CERTIFICATE
Patil Tanishq Somnath

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PROUDLY PRESENTED TO

Patil Dhanshree Vikas

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

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PROUDLY PRESENTED TO

Gaulke Komal

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

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PROUDLY PRESENTED TO

Mukherjee Pranjal

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

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PROUDLY PRESENTED TO

Loke Nimish Gangaram

Mr Dharmesh Gangani
FACULTY INCHARGE

Dr. Priyanka Salunkhe
HOD

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PROUDLY PRESENTED TO

Khandekar Mansi Dilip

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Mhatre Sahil Ananta

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TERNA PUBLIC CHARITABLE TRUST'S

TERNA ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to University of Mumbai)

Plot No. 12, Sector 22, Opposite Railway Station, Nerul (W), Navi Mumbai- 400706. Ph. +91 22 61115444, Fax No.+91 22 61115400

Web :

Report on

Value Added Course - Primavera

Enrolled Students

B.E. Civil Engineering

Academic Year:

2023-2024

Organized by

Department of Civil Engineering, Nerul, Navi Mumbai

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CONTENT

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1. Meeting and Approval

1.1 Meeting

SUMMARY OF MINUTES OF THE MEETING

3.7.2023

With reference to meetings held and Minutes of meeting recorded the summary of minutes of meeting is as below.

The Department of Civil Engineering has planned to conduct an Value Added Course to provide knowledge to students regarding vital subjects of our discipline. The following faculty members were present in the meeting conducted on 3 July, 2023 at Civil HOD Cabin to finalize the Value added course to be offered for this year.

The HOD and the staff members concluded the following Add on Course for the academic year 2023-2024

SL. No.	Name of Value Added Course	Semester	Hours	Staff Incharge
1.	Value Added Course (Primavera)	VII	15	Poonam Patil

In the meeting it was decided to prepare the syllabus of the program by the staff in charge within a week from the date of meeting.

1) Dr. Priyanka Salunkhe (HOD)
2) Jamaluddin M. (IQAC Incharge)
3) Poonam Patil (Course Coordinator)

Poonam Patil
Course Coordinator

Dr. Priyanka Salunkhe
HoD Dept. of Civil Engg.

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TERNA PUBLIC CHARITABLE TRUST'S

TERNA ENGINEERING COLLEGE

Date:-09.07.2023

To,

The Principal

Terna Engineering College,

Nerul, Navi Mumbai – 4000706

Subject: - Regarding Permission for conducting Value Added Course Basics on Water Gems & Primavera.

Respected Sir,

Requirement of proficiency in software has become essential for students. In view of this we have decided to conduct a Value Added Course on Water Gems & Primavera in Association with Bentley Education, USA during the academic year 2023 – 24 for semester-VII students. I request you to provide the permission to conduct the same. The selected course will be useful to students for learning water supply and drainage system & Project planning and management. Instructor of this course will be our faculty.

Kindly provide permission to do the same.

Thanking You.

Yours Faithfully.

Prof. Jamaluddin Maghrabi
AOC Incharge

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Nerul, Navi Mumbai - 400 706

Dr. Priyanka Salunkhe
HoD

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TERNA ENGINEERING COLLEGE, NERUL

Department of Civil Engineering

Department of Civil Engineering

ACADEMIC YEAR 2023 – 2024

1. **Title of the course** : Value Added Course (Primavera)
2. **Objective of the course** : To make student learn Primavera which is required for planning and scheduling of construction project. This will be beneficial to student their final year project.
3. **Prerequisite** : CPM & PERT
4. **Beneficiary** : Students and Faculties
5. **Date & Duration of the course**: Throughout the Semester
6. **No of hours required** : 15 Hours
7. **Internal Resources** : Poonam Patil
8. **Internal Assessment** : Assignment
9. **Contents of the course** : Enclosed
10. **Credits / Certification** : 75% attendance and scored above 50% in Assignment eligible for certification.
11. **Venue** : Civil Engineering Software Lab

Mrs. Poonam Patil

Course Coordinator

Dr. Priyanka Salunkhe

HoD Dept. of Civil Engg

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2. About Institute

Terna Public Charitable Trust's Terna Engineering College is one of the well-known and It is located at Nerul, Navi Mumbai on a beautiful 3 acre campus. The institute is affiliated to University of Mumbai, approved by AICTE and accredited by National Board of Accreditation (NBA). This institution offers 7 UG, 4 PG and 3 PhD courses. Highest quality education is catered with curriculum extension by means of exceptional offerings like Engineering Products and Innovation Center (EPIC), Remote center of IIT Bombay which facilitates student / faculty members to interact with IIT professors through video conferencing, Industry Institute Interaction Cell, Electronics club (collaboration with 25 local electronics SMEs), e-Yantra Embedded Systems and Robotics Lab, Apple lab, Texas Instruments Lab. We are a diverse, talented community united by passion for learning and quest for more. Terna motivates students to make a difference in our campus, in the state, country and around the world.

2.1 About Department

The Department of Civil Engineering was established in the year 2017. The Mission of Department is to promote the disciplines of Planning, Design, Construction, Operation,
Maintenance and Research. It offers students technical knowledge with technique for better utilization of available resources and greater standardization of construction processes required by construction industry. We intend to develop students by giving training to make use of innovative design methods, techniques and practical implementation. Highly qualified and dedicated faculty are recruited and they are always on their toes to guide the students, forming the backbone of the department.

Key Features:

- Well Equipped Laboratories – Materials and Concrete Technology, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, Engineering Geology, CAD Laboratory, Surveying Laboratory, Hydraulics and Fluid Mechanics Laboratories
- Consultancy Services Offered and Fully Equipped With Major Facilities Like Fully Automatic Compression Testing Machine 200 Tons (NABL Accredited), Fully Automatic Universal Testing Machine (UTM 100 Ton- NABL Accredited), Fully Automated Total Station for Professional Surveying
- Consultancy Services Offered for Non-Destructive Testing
- Faculties with Experience in Design and Execution of Residential, Commercial, Oil & Gas, Power Projects
- Faculties with Experience in Research in the Field of Smart Materials & Smart Structures, Pavement Design & Analysis, Geotextile Materials for Soil Stabilization, Geotechnical Engineering, Remote Sensing & GIS

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- Active Mentoring Processes for Continuous Assessment in Academics
- Learning Experience Through Active Consultancy Projects
- Industrial Visits-CIDCO, PWD, MMRDA, Rock Museum Nasik
- Internship for Students (With & Without Stipend)
- International Students Chapter Association & Merit Scholarships
- Expert Lectures by Industry Experts
- NPTEL Courses
- Skill Based, Project Based Learning, Interactive and Interest Based Core Domain Learning
- Patents, Designs and Copyright Development
- Achieved 100 % students intern during winter vacations (2019-2020) in renowned organizations like Airport Authority of India (AAI), Public Work Department (PWD), City and Industrial Development Corporation (CIDCO), Rashtriya Chemical Fertilizers (RCF), American Concrete Institute and so many.

3. About Course

An add on course on Oracle Primavera P6 software has been introduced by the Department of Civil Engineering, Terna Engineering College, Navi Mumbai for B.E.(Civil) students. Oracle Primavera P6 is a project, program and portfolio management tool that's used for planning, managing and executing your project work. It's designed to handle large and small projects in many diverse industries, such as construction, manufacturing, energy, and IT. This course is beyond their regular syllabus. This will be beneficial to students for their project work and ready for industry. Duration of course will be 15 hrs.

4. About Instructor

This course will be conducted by Prof. Poonam Patil faculty of TEC having 3 years teaching experience and Master in Construction Engineering and Management and Certified for Primavera Software.

5. Course Scheme

The marking scheme of this course has been decided at the institute and the departmental level.

Value Added Course:-Primavera

Contact Hours: - 01 per week (Total 15)

Sem. : - VII

Attendance	Assignment	TOTAL
10	40	50

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6. Syllabus

Topic No.	Contents	Hours
1	Introduction of software.	1
2	Various tools used & various default settings in Primavera.	1
3	Generation of OBS, EPS, New project.	2
4	Creation of Calendar, WBS for the project & Creating and defining activities for the project.	2
5	Assign Resources to the activities & Resource analysis and leveling of the project.	2
6	Creating Baseline to project & preparing grant chart.	2
7	Generation of report & web site.	2
8	Planning of G+3 Residential building.	3
	TOTAL	15

7. Course Objective and Course Outcome

After completion of course the student will be able to plan & schedule for any construction project.

Course Objective

1. To learn & understand basic commands of primavera software.
2. To prepare a schedule for different activities in the given completion time of project.
3. To analyse the project requirement & time management.

Course Outcome

On completion of this course, the students will be able to:

CO1: Understand basic commands & create a project.

CO2: Create calendars, a WBS & Add activities & their relationships.

CO3: Define & assign roles and resources & Analyzing resources.

CO4: Prepare bar chart of different activities.

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Program Outcome

PO 1: -Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2: - Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

PO 3: - Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4: - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5: - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6: - The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: - Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8: - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: -Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: - Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12: - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcome

PSO 1: - Graduates will be able to plan, analyse, design and drawing and estimate for residential, commercial, industrial and infrastructure projects. They will be able to work on site for supervision of various construction activities.

PSO 2: - Graduates will be able to use different software related to Civil Engineering for developing skills required by the industry.

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8. Mapping CO, PO and POS

Practical No.	Name of Experiment	CO	PO	PSO
1	Introduction of software.	1	1,2,3,5,8,9,11,12	2
2	Various tools used & various default settings in Primavera.	1	2,3,5,8,9,11,12	2
3	Generation of OBS, EPS, New project.	1	3,5,8,9,11,12	2
4	Creation of Calendar, WBS for the project & Creating and defining activities for the project.	2	3,5,8,9,11,12	2
5	Assign Resources to the activities & Resource analysis and leveling of the project.	3	3,5,8,9,11,12	2
6	Creating Baseline to project & preparing grant chart.	3	3,5,8,9,11,12	2
7	Generation of report & web site.	4	3,5,8,9,11,12	2
8	Planning of G+3 Residential building.	4	3,5,8,9,11,12	2

9. Schedule

TPCT's TERNA ENGINEERING COLLEGE
DEPARTMENT OF CIVIL ENGINEERING
Academic Time Table 2023-24 (SH-23) (R4)

POONAM PATIL

Day/Time	9:00-10:00	10:00-11:00	11:15-12:15	12:15-1:15	1:15-1:45	1:45-2:45	2:45-3:45	3:45-4:45
MON		EG PP R 203	EG A3 PP R-210		BREAK	EG A1 PP R-210		
TUE	EG PP R 211	AOC-II A2 PP R-206				SBL A3 PP R-206		
WED		AOC-II A1 PP R-206						
THU	EG A2 PP R-210							
FRI			AOC-II PP R-206	EG PP R 203		MINI PROJECT		

DEPT. TIME TABLE I/C

HOD

DEAN ACADEMICS

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10. List of Students

Roll No.	Student Name	Roll No.	Student Name
1	GHOLAP VAIBHAV LAHU	39	PATHAK AMAN RAVINDRA
2	BHOIR SANIKA SADANAND	40	LOKE NIMISH GANGARAM
3	GAWADE SAURABH KAILAS	41	SHELKE ROHIT SHRIMANT
4	SHAHASANE ADITYA PRAVIN	43	GONDKE KOMAL SHASHIKANT
5	WALANJ PRATIK SANTOSH	44	KHARAT TANISHQ SUDHAKAR KHARAT
6	MUKHERJEE PRANJAL PARIJAT M	45	KHANDEKAR MANSI DILIP
7	KILLEDAR ANURUP ANIL	46	PATIL TANISHQ SOMNATH
8	MHATRE SHARV SANTOSH	47	HOTKAR AKSHATA JAYSING
9	KHEDKAR PRANAV PRAVIN	48	MAHADIK SAHIL RAJESH
10	PATIL SAHIL RAVINDRA	49	SINGH SAHIL DEEPRAJ
11	VINOY VISMAY LUKOSE	50	PATEL PALASH DIPEN
12	WAGHMARE NILESH BABURAO	51	DONGRE HRISHIKESH
13	MOHITE RUSHIKESH JALINDER	52	DUDUKA BRIJESH
14	MALI SRUSHTI SHIVAJI	53	JADHAV ADITYA
15	SURYAWANSHI TEJAS DILIP	54	LAWANE KESHAR
16	PATIL SUMIT DINESH	55	BEDEKAR ROHIT
17	BHUSARA DIGVIJAY DASHRATH	56	PAWAR SAHIL
19	CHAUDHARI HASMITA GANGA	57	WAYAL SAHIL
20	BHUSARA ANJALI SUNIL	58	PARAB ROHAN
22	KOPPULA ASHOK SATISH	59	SAWANT KRUTIKA
23	AMBRE ANURAG SANJAY	60	POMENDKAR SHIVANI
24	CHOUGULE PARTH VINOD	61	NAGOTHANEKAR ABHAY
27	DABHADE VIJAY SANJAY	63	DUBEY SATYAJEET
28	PRASAD SHUBHAM SURESHKUMAR	64	SIDDAMAL KARTIK
29	KEDARI ADITYA MANGESH	65	MALVANI YOGESH
30	CHAVAN AISHWARYA FATTESING	66	PAWAR TEJASHREE
31	MANE SAKSHI RAJU	67	GAIKAR KAJAL
32	KOLI SAGARIKA NITIN	68	GHARAT SIDDHI
33	BADGUJAR KALPESH RAJENDRA	69	PHADTARE SHUBHANGI
34	CHAKOR SHUBHAM RAMKRUSHN	71	CHAVAN SHWETA
35	PATIL DHANSHREE VIKAS PATIL	72	MATEKAR ROHIT
36	DHANSAY ZAID ZAFARULLAH	75	JADHAV SAKSHI
37	MHATRE SAHIL ANANTA	76	KASBE DHANANJAY MAHADEV
38	SINGH ANKIT RAJ ASHOK	77	WANI JUNAID

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11. Attendance

Department of Civil Engineering

Bachelor Year Engineering (SEM VII)

Academic Year 2023 - 2024 (SH-23)

BE (SEM VII)

Name of Subject: AOC II Primavera

Faculty Name: Poonam Patil

Roll No.	Student Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Date		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
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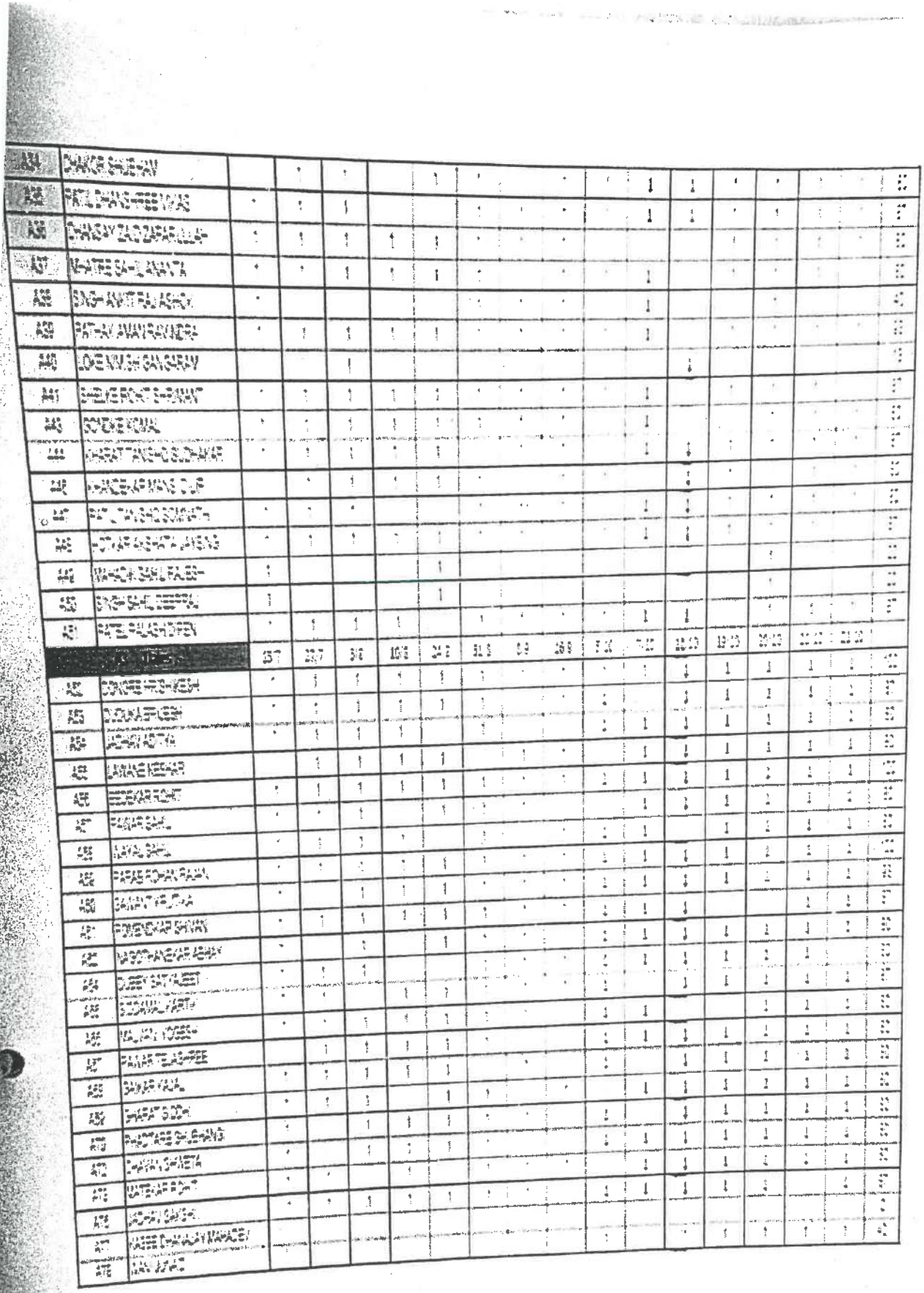

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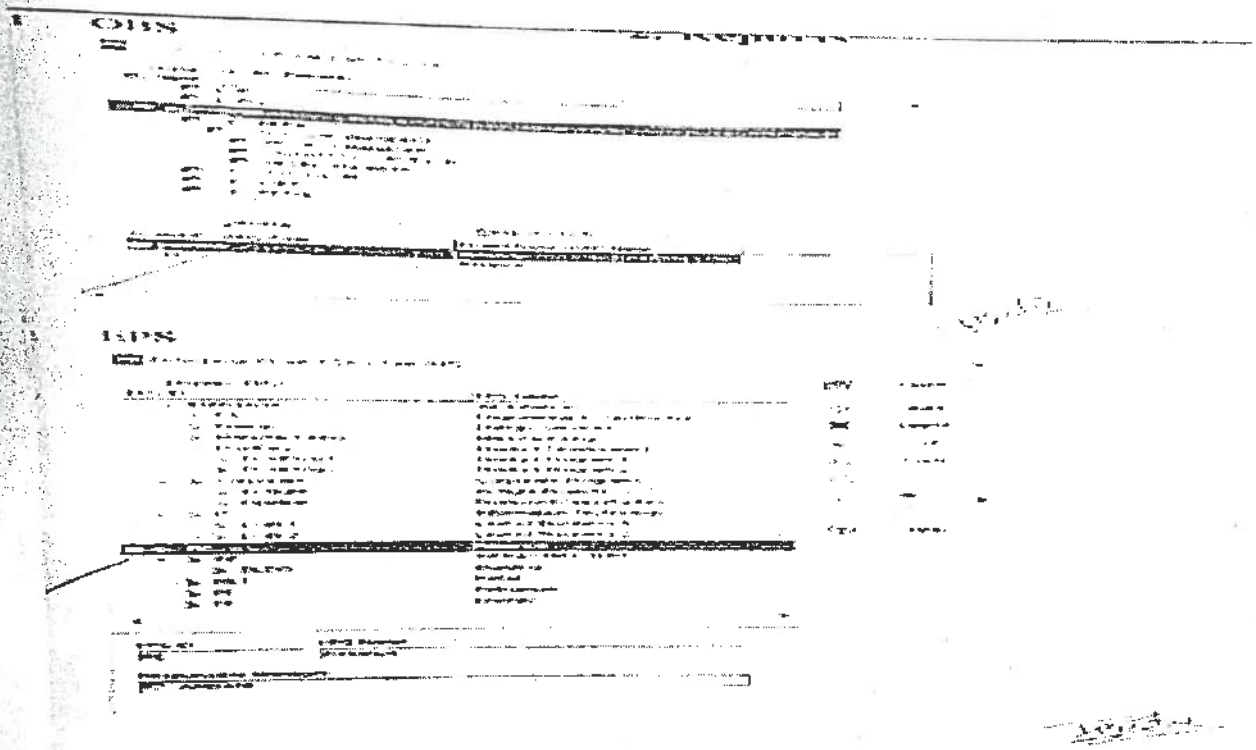
12. Assignments

12.1 Assignment No.1

Prepare Organizational Breakdown Structure (OBS) & Enterprise Project Structure (EPS)

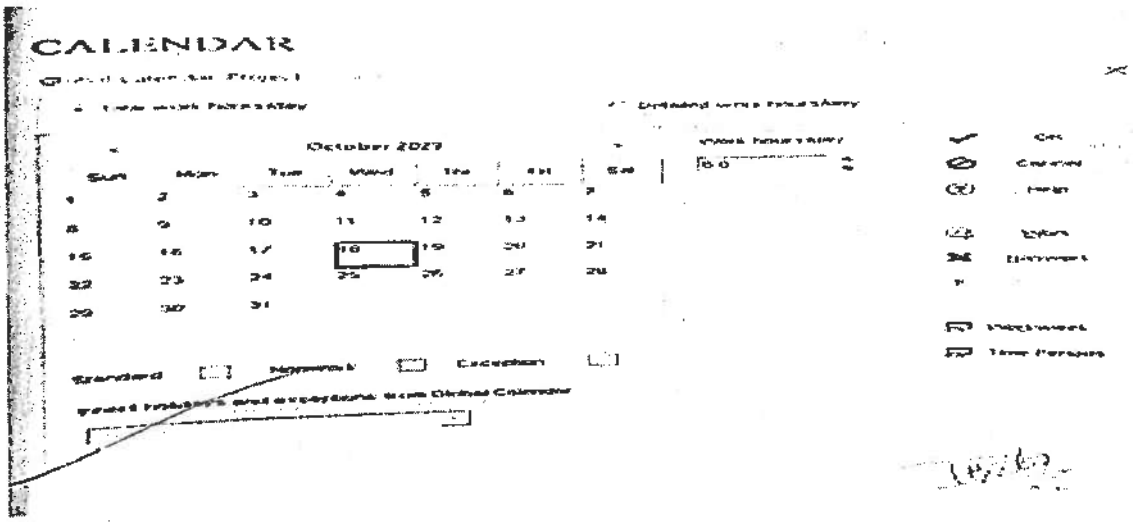
Sample:



12.2 Assignment No. 2

Creating a new calendar

Sample:



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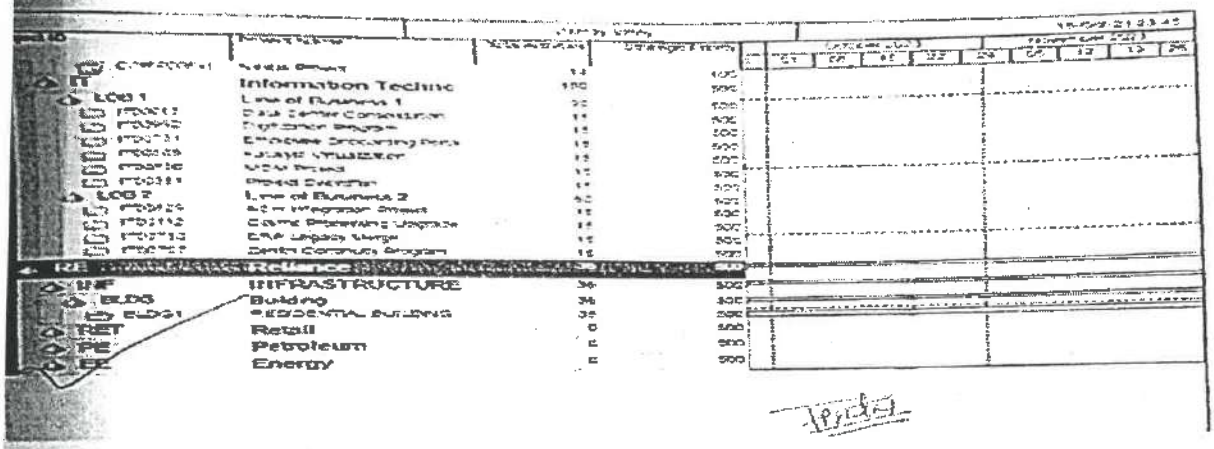
Assignment No. 3

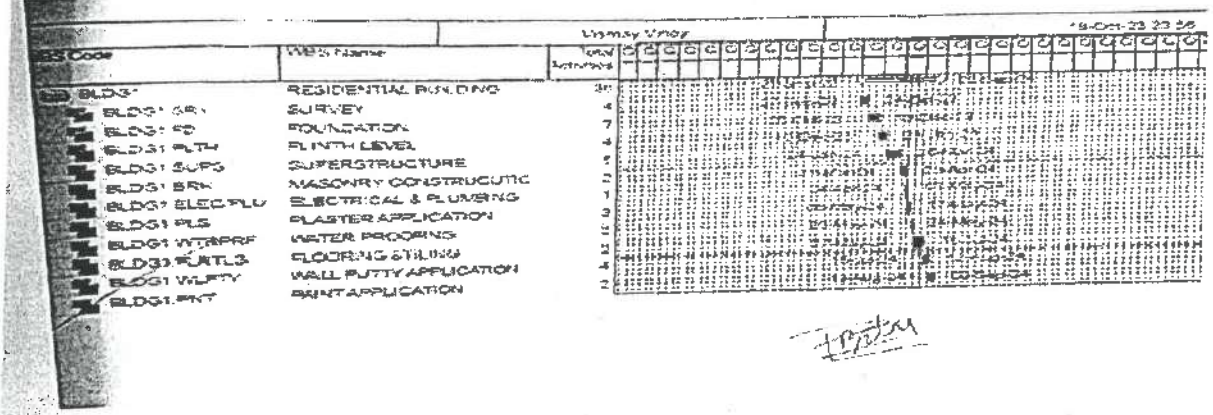
te a new Project
nple:

PROJECT



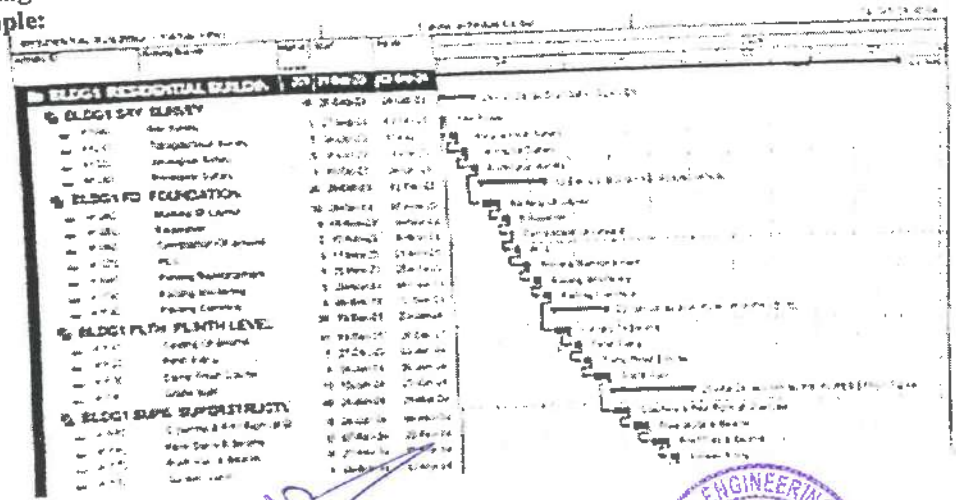
12.4 Assignment No. 4

Creating WBS for above project
Sample:



12.5 Assignment No. 5

Adding Activities for each WBS
Sample:



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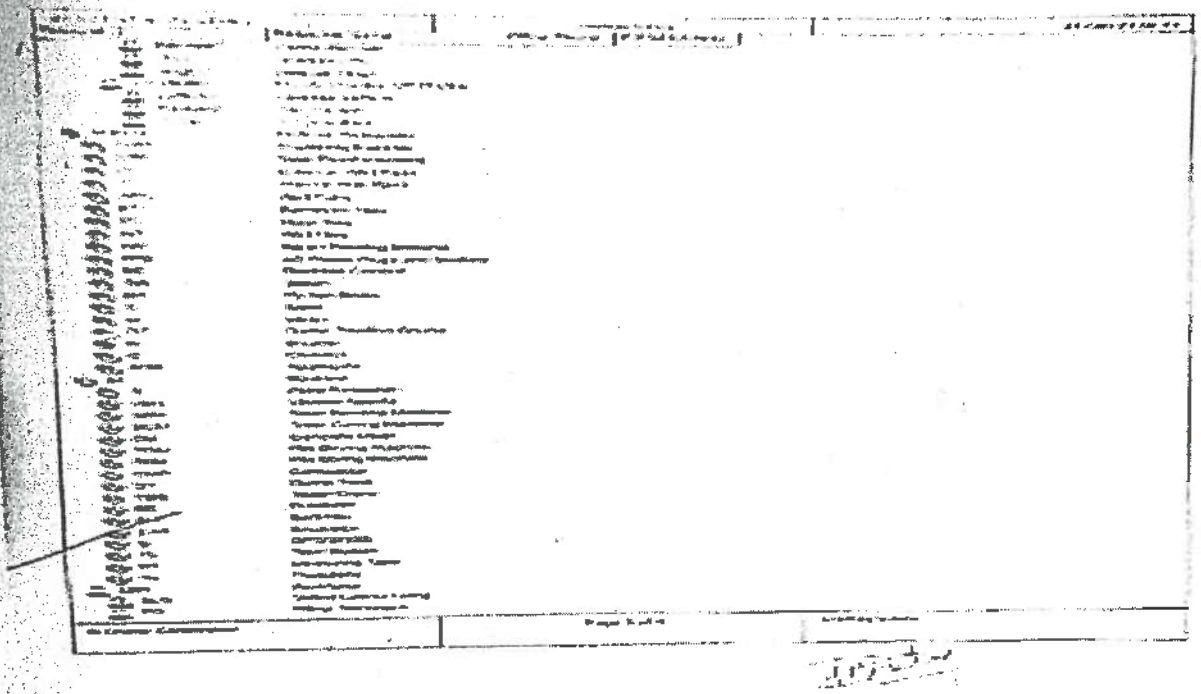
6 Assignment No. 6

signing resources for each activity

mple:

RESOURCES



13. Rubrics for Evaluation TW

Term Work

	Head	Marks (50)
1	Attendance	10
2	Assignment	40

Attendance

	Head	Marks
1	91% onwards	10
2	81%- 90%	9
3	75%- 80%	8

Assignments

40 marks for each assignment is divided under following heads

	Head	Marks
1	Understanding	15
2	Performance	15
3	On time submission	10

Credits / Certification : Those who have 75% attendance and scored above 50% in practical are eligible for certification.

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14. Evaluation of TW

Term work was assessed based on Assignment submission as per Rubrics mentioned above. Practical examination was carried out based on the types of Assignment questions. The marks obtained by students in TW are as follows:

Roll No.	Student Name	Attendance	Assignment
A01	GHOLAP VAIBHAV LAHU	8	34
A02	BHOIR SANIKA SADANAND	8	32
A03	GAWADE SAURABH KAILAS	0	8
A04	SHAHASANE ADITYA	9	30
A05	WALANJ PRATIK SANTOSH	9	25
A06	MUKHERJEE PRANJAL	8	20
A07	KILLEDAR ANURUP ANIL	8	20
A08	MHATRE SHARV SANTOSH	9	32
A09	KHEDKAR PRANAV PRAVIN	10	36
A10	PATIL SAHIL RAVINDRA	0	8
A11	VINOY VISMAY LUKOSE	10	39
A12	WAGHMARE NILESH	8	25
A13	MOHITE RUSHIKESH	0	8
A14	MALI SRUSHTI SHIVAJI	9	30
A15	SURYAWANSHI TEJAS DILIP	8	20
A16	PATIL SUMIT DINESH	0	7
A17	BHUSARA DIGVIJAY	9	37
A19	CHAUDHARI HASMITA	10	36
A20	BHUSARA ANJALI SUNIL	0	15
A22	KOPPULA ASHOK SATISH	9	20
A23	AMBRE ANURAG SANJAY	0	12
A24	CHOUGULE PARTH VINOD	9	20
A27	DABHADE VIJAY SANJAY	8	30
A28	PRASAD SHUBHAM	10	35
A29	KEDARI ADITYA MANGESH	10	35
A30	CHAVAN AISHWARYA	8	25
A31	MANE SAKSHI RAJU	9	34
A32	KOLI SAGARIKA NITIN	9	35
A33	BADGUJAR KALPESH	8	20
A34	CHAKOR SHUBHAM	8	20
A35	PATIL DHANSHREE VIKAS	9	32
A36	DHANSAY ZAID ZAFARULLAH	8	20
A37	MHATRE SAHIL ANANTA	8	20
A38	SINGH ANKIT RAJ ASHOK	0	10

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A39	PATHAK AMAN RAVINDRA	10	35
A40	LOKE NIMISH GANGARAM	0	8
A41	SHELKE ROHIT SHRIMANT	9	33
A43	GONDKE KOMAL	8	34
A44	KHARAT TANISHQ SUDHAKAR	9	31
A45	KHANDEKAR MANSI DILIP	8	30
A46	PATIL TANISHQ SOMNATH	8	20
A47	HOTKAR AKSHATA JAYSING	9	30
A48	MAHADIK SAHIL RAJESH	0	10
A49	SINGH SAHIL DEEPRAJ	0	10
A50	PATEL PALASH DIPEN	9	34
A51	DONGRE HRISHIKESH	10	38
A52	DUDUKA BRIJESH	9	30
A53	JADHAV ADITYA	8	36
A54	LAWANE KESHAR	8	35
A55	BEDEKAR ROHIT	10	38
A56	PAWAR SAHIL	8	35
A57	WAYAL SAHIL	8	35
A58	PARAB ROHAN RAJAN	10	37
A59	SAWANT KRUTIKA	10	35
A60	POMENDKAR SHIVANI	9	30
A61	NAGOTHANEKAR ABHAY	8	30
A63	DUBEY SATYAJEET	8	20
A64	SIDDAMAL KARTIK	9	33
A65	MALVANI YOGESH	8	38
A66	PAWAR TEJASHREE	8	35
A67	GAIKAR KAJAL	8	35
A68	GHARAT SIDDHI	8	35
A69	PHADTARE SHUBHANGI	8	35
A71	CHAVAN SHWETA	8	32
A72	MATEKAR ROHIT	9	30
A75	JADHAV SAKSHI	0	10
A76	KASBE DHANAJAY MAHADEV	0	10
A77	WANI JUNAID	0	10

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Results

Roll No.	Student Name	Qualified
A01	GHOLAP VAIBHAV LAHU	Qualified
A02	BHOIR SANIKA SADANAND	Qualified
A03	GAWADE SAURABH KAILAS	Not Qualified
A04	SHAHASANE ADITYA	Qualified
A05	WALANJ PRATIK SANTOSH	Qualified
A06	MUKHERJEE PRANJAL	Qualified
A07	KILLEDAR ANURUP ANIL	Qualified
A08	MHATRE SHARV SANTOSH	Qualified
A09	KHEDKAR PRANAV PRAVIN	Qualified
A10	PATIL SAHIL RAVINDRA	Not Qualified
A11	VINOY VISMAY LUKOSE	Qualified
A12	WAGHMARE NILESH	Qualified
A13	MOHITE RUSHIKESH	Not Qualified
A14	MALI SRUSHTI SHIVAJI	Qualified
A15	SURYAWANSHI TEJAS DILIP	Qualified
A16	PATIL SUMIT DINESH	Not Qualified
A17	BHUSARA DIGVIJAY	Qualified
A19	CHAUDHARI HASMITA	Qualified
A20	BHUSARA ANJALI SUNIL	Not Qualified
A22	KOPPULA ASHOK SATISH	Qualified
A23	AMBRE ANURAG SANJAY	Not Qualified
A24	CHOUGULE PARTH VINOD	Qualified
A27	DABHADE VIJAY SANJAY	Qualified
A28	PRASAD SHUBHAM	Qualified
A29	KEDARI ADITYA MANGESH	Qualified
A30	CHAVAN AISHWARYA	Qualified
A31	MANE SAKSHI RAJU	Qualified
A32	KOLI SAGARIKA NITIN	Qualified
A33	BADGUJAR KALPESH	Qualified
A34	CHAKOR SHUBHAM	Qualified
A35	PATIL DHANSHREE VIKAS	Qualified
A36	DHANSAY ZAID ZAFARULLAH	Qualified
A37	MHATRE SAHIL ANANTA	Not Qualified
A38	SINGH ANKIT RAJ ASHOK	Qualified
A39	PATHAK AMAN RAVINDRA	Not Qualified
A40	LOKE NIMISH GANGARAM	Qualified
A41	SHELKE ROHIT SHRIMANT	Qualified
A43	GONDKE KOMAL	Qualified
A44	KHARAT TANISHQ SUDHAKAR	Qualified
A45	KHANDEKAR MANSI DILIP	Qualified

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A46	PATIL TANISHQ SOMNATH	Qualified
A47	HOTKAR AKSHATA JAYSING	Qualified
A48	MAHADIK SAHIL RAJESH	Not Qualified
A49	SINGH SAHIL DEEPRAJ	Not Qualified
A50	PATEL PALASH DIPEN	Qualified
A51	DONGRE HRISHIKESH	Qualified
A52	DUDUKA BRIJESH	Qualified
A53	JADHAV ADITYA	Qualified
A54	LAWANE KESHAR	Qualified
A55	BEDEKAR ROHIT	Qualified
A56	PAWAR SAHIL	Qualified
A57	WAYAL SAHIL	Qualified
A58	PARAB ROHAN RAJAN	Qualified
A59	SAWANT KRUTIKA	Qualified
A60	POMENDKAR SHIVANI	Qualified
A61	NAGOTHANEKAR ABHAY	Qualified
A63	DUBEY SATYAJEET	Qualified
A64	SIDDAMAL KARTIK	Qualified
A65	MALVANI YOGESH	Qualified
A66	PAWAR TEJASHREE	Qualified
A67	GAIKAR KAJAL	Qualified
A68	GHARAT SIDDHI	Qualified
A69	PHADTARE SHUBHANGI	Qualified
A71	CHAVAN SHWETA	Qualified
A72	MATEKAR ROHIT	Qualified
A75	JADHAV SAKSHI	Qualified
A76	KASBE DHANAJAY MAHADEV	Not Qualified
A77	WANI JUNAID	Not Qualified

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16. Feedback

Questions Responses 42 Settings

ADD ON COURSE (PRIMAVERA) SH-23

This form is for collecting feedback for the skill based training program conducted by the Civil Engineering Department from July 23 to October 23. Students should give a genuine feedback

This form is automatically collecting emails from all respondents. Change settings

Email ID *

Short answer text

Name of Student *

Short answer text

Roll NO. *

Short answer text

Batch *

- A1
- A2
- A3

Do you feel Primavera ADD ON COURSE was beneficial for you? *

- YES
- NO

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