

Major Project Log Book

**Department of Computer Engineering
Terna Engineering College**

Plot No.12, Sector-22, Phase-II, Nerul, Navi Mumbai - 400 706

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Major Project Log Book

Terna Engineering College, Nerul, Navi Mumbai

Department of Computer Engineering

Academic Year: 2024-2025

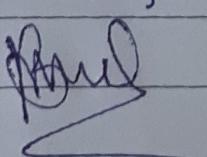
Class	B.E.VII/VIII	Division:	C
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Project Title	Online Voting System Using Blockchain
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Project Area	Mobile Application
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Group Id	C15
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Sr. No.	College ID	Roll No. (eg A24)	Name of the Student	Contact No.	e-mail
1	TU3F2122158	C23	Atharra S. Birje	9322786689	birjeatharra2122@ternaengg.ac.in
2	TU3F2122164	C28	Harsu A. Minde	9769984258	mindeharsu2122@ternaengg.ac.in
3	TU3F2122206	C61	Arneya A. Mane	9321583608	ameyamane2122@ternaengg.ac.in
4					

Name of the Guide:	Prof. Dnyangeshwar Thombwe
Signature of the Guide	

Terna Engineering College, Nerul, Navi Mumbai
Department of Computer Engineering

Institute Vision

To deliver value added quality education to the aspiring students, meeting stringent requirements of the changing technology, industry, business and society as a whole.

Institute Mission

To provide an environment of academic excellence and to adopt appropriate teaching- learning processes to produce competent and skilled engineers ready to meet global challenges.

Department Vision

To produce trained computer professionals who can successfully meet the demands of academia, IT Industry and research by building a strong teaching and research environment.

Department Mission

To provide industry and research oriented quality education to UG and PG students and train them to apply this knowledge for solving real world Problems and make them competitive in the ever-changing and challenging global work environment.

Terna Engineering College, Nerul, Navi Mumbai

Department of Computer Engineering

Program Educational Objectives

1. To prepare students for developing excellence in Professional Career, Research & Development and in Higher Education by having deep understanding of Mathematics, Computing and Engineering principles.
2. To enable students to meet real life challenges, designing appropriate computing systems that are technically sound, economically feasible and socially acceptable in current time changing environment by using modern tools.
3. To encourage, motivate and prepare Learner's for Lifelong-learning.
4. To develop the ability among students to scrutinize the social and human context of computing as it impacts individuals, team work, organizations and society including ethical, legal, security and global policy issues.
5. To train students with innovative ideas, entrepreneurship skills with best learning, teaching and leadership qualities.

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
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.
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.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
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.
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.
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.
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.
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.
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 OUTCOMES (PSOs)

1. Inculcate skills to recognize, analyse the problems related to databases, computing, networks and any other domain specific application and provide solutions.
2. Ability to develop efficient, secure, user friendly and cost-effective software systems.

Terna Engineering College, Nerul, Navi Mumbai
Department of Computer Engineering Academic

Academic Year: 2024-2025

Course Outcomes

B.E. Computer Sem. : VII/VIII

Subject : Major Project

Project-I

1. To develop the understanding of the problem domain through extensive review of literature.
2. To Identify and analyze the problem in detail to define its scope with problem specific data.
3. To know various techniques to be implemented for the selected problem and related technical skills through feasibility analysis.
4. To design solutions for real-time problems that will positively impact society and environment.
5. To develop clarity of presentation based on communication, teamwork and leadership skills.
6. To inculcate professional and ethical behavior.

Project-II

1. Implement solutions for the selected problem by applying technical and professional skills.
2. Analyze impact of solutions in societal and environmental context for sustainable development.
3. Collaborate best practices along with effective use of modern tools.
4. Develop proficiency in oral and written communication with effective leadership and teamwork.
5. Nurture professional and ethical behavior.
6. Gain expertise that helps in building lifelong learning experience.

Program Structure for Fourth Year Computer Engineering
UNIVERSITY OF MUMBAI (With Effect from 2022-2023)

Semester VII

Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned					
		Theory	Pract. Tcr.	Theory	Pract.	Total			
CSC701	Machine Learning	3	--	3	--	3			
CSC702	Big Data Analytics	3	--	3	--	3			
CSDC 701X	Department Level Optional Course-3	3	--	3	--	3			
CSDC 702X	Department Level Optional Course-4	3	--	3	--	3			
ILO 701X	Institute Level Optional Course-1	3	--	3	--	3			
CSL701	Machine Learning Lab	--	2	--	1	1			
CSL702	Big Data Analytics Lab	--	2	--	1	1			
CSDL 701X	Department Level Optional Course-3 Lab	--	2	--	1	1			
CSDL 702X	Department Level Optional Course-4 Lab	--	2	--	1	1			
CSP701	Major Project I	--	6*	--	3	3			
Total		15	14	15	7	22			
Course Code	Course Name	Examination Scheme							
		Theory			Term Work	Pract. & oral			
		Internal Assessment		End Sem Exam	Exam. Duration (in Hrs)				
		Test 1	Test 2	Avg					
CSC701	Machine Learning	20	20	20	80	3	--	--	100
CSC702	Big Data Analytics	20	20	20	80	3	--	--	100
CSDC 701X	Department Level Optional Course-3	20	20	20	80	3	--	--	100
CSDC 702X	Department Level Optional Course-4	20	20	20	80	3	--	--	100
ILO 701X	Institute Level Optional Course-1	20	20	20	80	3	--	--	100
CSL701	Machine Learning Lab	--	--	--	--	25	25	50	
CSL702	Big Data Analytics Lab	--	--	--	--	25	25	50	
CSDL 701X	Department Level Optional Course-3 Lab	--	--	--	--	25	-	25	
CSDL 702X	Department Level Optional Course-4 Lab	--	--	--	--	25	-	25	
CSP701	Major Project I	--	--	--	--	50	25	75	
Total		--	--	100	400	--	150	75	725

Course Code	Course Name	Credit
CSP701	Major Project I	03

Course Objectives:	
The project work facilitates the students to develop and prove Technical, Professional and Ethical skills and knowledge gained during graduation program by applying them from problem identification, analyzing the problem and designing solutions.	
Course Outcomes: Learner will able	
1	To develop the understanding of the problem domain through extensive review of literature
2	To Identify and analyze the problem in detail to define its scope with problem specific data.
3	To know various techniques to be implemented for the selected problem and related technical skills through feasibility analysis.
4	To design solutions for real-time problems that will positively impact society and environment.
5	To develop clarity of presentation based on communication, teamwork and leadership skills.
6	To inculcate professional and ethical behavior.

Guidelines:

1. Project Topic Selection and Allocation:

- Project topic selection Process to be defined and followed:
 - Project orientation can be given at the end of sixth semester.
 - Students should be informed about the domain and domain experts whose guidance can be taken before selecting projects.
 - Student's should be recommended to refer papers from reputed conferences/journals like IEEE, Elsevier, ACM etc. which are not more than 3 years old for review of literature.
 - Students can certainly take ideas from anywhere, but be sure that they should evolve them in the unique way to suit their project requirements. Students can be informed to refer Digital India portal, SIH portal or any other hackathon portal for problem selection.
- Topics can be finalized with respect to following criterion:
 - Topic Selection: The topics selected should be novel in nature (Product based, Application based or Research based) or should work towards removing the lacuna in currently existing systems.
 - Technology Used: Use of latest technology or modern tools can be encouraged.
 - Students should not repeat work done previously (work done in the last three years).

- o Project work must be carried out by the group of at least 2 students and maximum 4.
- o The project work can be undertaken in a research institute or organization/Industry/any business establishment. (out-house projects)
- o The project proposal presentations can be scheduled according to the domains and should be judged by faculty who are expert in the domain.
- o Head of department and senior staff along with project coordinators will take decision regarding final selection of projects.
- o Guide allocation should be done and students have to submit weekly progress report to the internal guide.
- o Internal guide has to keep track of the progress of the project and also has to maintain attendance report. This progress report can be used for awarding term work marks.
- o In case of industry/ out-house projects, visit by internal guide will be preferred and external members can be called during the presentation at various levels.

2. Project Report Format:

At the end of semester, each group needs to prepare a project report as per the guidelines issued by the University of Mumbai.

A project report should preferably contain at least following details:

- o Abstract
- o Introduction
- o Literature Survey/ Existing system
- o Limitation Existing system or research gap
- o Problem Statement and Objective
- o Proposed System
 - o Analysis Framework/ Algorithm
 - o Design details
 - o Methodology (your approach to solve the problem) Proposed System
- o Experimental Set up
 - o Details of Database or details about input to systems or selected data
 - o Performance Evaluation Parameters (for Validation)
 - o Software and Hardware Set up
- o Implementation Plan for Next Semester
 - o Timeline Chart for Term-I and Term-II (Project Management tools can be used.)
- o References

Desirable

Students can be asked to undergo some Certification course (for the technical skill set that will be useful and applicable for projects.)

3. Term Work:

Distribution of marks for term work shall be done based on following:

- o Weekly Log Report
- o Project Work Contribution
- o Project Report (Spiral Bound) (both side print)
- o Term End Presentation (Internal)

The final certification and acceptance of TW ensures the satisfactory performance on the above aspects.

4. Oral and Practical:

Oral and Practical examination (Final Project Evaluation) of Project I should be conducted by Internal and External examiners approved by University of Mumbai at the end of the semester.

Suggested quality evaluation parameters are as follows:

- o Quality of problem selected
- o Clarity of problem definition and feasibility of problem solution
- o Relevance to the specialization / industrial trends
- o Originality
- o Clarity of objective and scope
- o Quality of analysis and design
- o Quality of written and oral presentation
- o Individual as well as team work

**Program Structure for Fourth Year Computer Engineering
UNIVERSITY OF MUMBAI (With Effect from 2022-2023)**

Semester VIII

Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned					
		Theory	Pract. Tut.	Theory	Pract.	Total			
CSC801	Distributed Computing	3	--	3	--	3			
CSDC 801X	Department Level Optional Course -5	3	--	3	--	3			
CSDC 802X	Department Level Optional Course -6	3	--	3	--	3			
ILO 801X	Institute Level Optional Course -2	3	--	3	--	3			
CSL801	Distributed Computing Lab	--	2	--	1	1			
CSDL 801X	Department Level Optional Course -5 Lab	--	2	--	1	1			
CSDL 802X	Department Level Optional Course -6 Lab	--	2	--	1	1			
CSP801	Major Project 2	--	12*	--	6	6			
Total		12	18	12	9	21			
Course Code	Course Name	Examination Scheme							
		Theory			Term Work	Pract & oral			
		Internal Assessment		End Sem Exam	Exam Duration (in Hrs)				
		Test 1	Test 2	Avg					
CSC801	Distributed Computing	20	20	20	80	3	--	--	100
CSDC 801X	Department Level Optional Course -5	20	20	20	80	3	--	--	100
CSDC 802X	Department Level Optional Course -6	20	20	20	80	3	--	--	100
ILO 801X	Institute Level Optional Course -2	20	20	20	80	3	--	--	100
CSL801	Distributed Computing Lab	--	--	--	--	25	25	50	
CSDL 801X	Department Level Optional Course -5 Lab	--	--	--	--	25	25	50	
CSDL 802X	Department Level Optional Course -6 Lab					25	25	50	
CSP801	Major Project- 2	--	--	--	--	100	50	150	
Total		--	--	80	320	--	175	125	700

Major Project 1 and 2 :

- * Students can form groups with minimum 2 (Two) and not more than 4 (Four)
- * Faculty Load : In Semester VII - ½ hour per week per project group
In Semester VIII - 1 hour per week per project group

Course Code	Course Name	Credit
CSP801	Major Project 2	06

Course Objectives::	
The Project work facilitates the students to develop and prove Technical, Professional and Ethical skills and knowledge gained during graduation program by applying them from problem identification to successful completion of the project by implementing the solution.	
Course Outcomes: Student will able to	
1	Implement solutions for the selected problem by applying technical and professional skills.
2	Analyze impact of solutions in societal and environmental context for sustainable development.
3	Collaborate best practices along with effective use of modern tools.
4	Develop proficiency in oral and written communication with effective leadership and teamwork.
5	Nurture professional and ethical behavior.
6	Gain expertise that helps in building lifelong learning experience.

Guidelines:

- Internal guide has to keep track of the progress of the project and also has to maintain attendance report. This progress report can be used for awarding term work marks.

2 Project Report Format:

At the end of semester, each group needs to prepare a project report as per the guidelines issued by the University of Mumbai. Report should be submitted in hardcopy. Also, each group should submit softcopy of the report along with project documentation, implementation code, required utilities, software and user Manuals.

A project report should preferably contain at least following details:

- o Abstract
- o Introduction
- o Literature Survey/ Existing system
- o Limitation Existing system or research gap
- o Problem Statement and Objective
- o Proposed System
 - o Analysis Framework/ Algorithm
 - o Design details
 - o Methodology (your approach to solve the problem) Proposed System
- o Experimental Set up

- o Details of Database or details about input to systems or selected data
- o Performance Evaluation Parameters (for Validation)
- o Software and Hardware Set up
- o Results and Discussion
- o Conclusion and Future Work
- o References
- o Appendix – List of Publications or certificates

Desirable:

Students should be encouraged -

- o to participate in various project competition.
- o to write minimum one technical paper & publish in good journal
- o to participate in national / international conference.

3. Term Work:

Distribution of marks for term work shall be done based on following:

- a. Weekly Log Report
- b. Completeness of the project and Project Work Contribution
- c. Project Report (Black Book) (both side print)
- d. Term End Presentation (Internal)

The final certification and acceptance of TW ensures the satisfactory performance on the above aspects.

4. Oral & Practical:

Oral & Practical examination (Final Project Evaluation) of Project 2 should be conducted by Internal and External examiners approved by University of Mumbai at the end of the semester.

Suggested quality evaluation parameters are as following:

- a. Relevance to the specialization / industrial trends
- b. Modern tools used
- c. Innovation
- d. Quality of work and completeness of the project
- e. Validation of results
- f. Impact and business value
- g. Quality of written and oral presentation
- h. Individual as well as team work

Terna Engineering College, Nerul, Navi Mumbai

Department of Computer Engineering

Academic Year 2024-2025

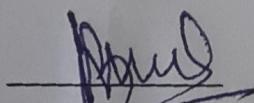
Letter of Acceptance

I undersigned, Prof. Dnyaneshwar Thombare working in department of Computer Engineering, willing to guide the project titled Online Voting System Using Blockchain

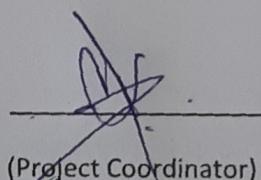
for the Major Project-I Semester VII /VIII respectively for the academic year 2023-2024

The names of the students are:

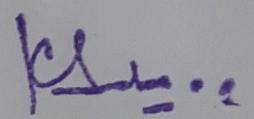
Sr. No	Div	Roll No	Name of the Student
1	C	23	Atharva S. Birje
2	C	28	Harsh A. Minde
3	C	61	Ananya A. Mane
4			



(Project Guide)



(Project Coordinator)



(HOD Computer)

Terna Engineering College, Nerul, Navi Mumbai

Department of Computer Engineering

Academic Year 2024-2025

Major Project I CO-PO-PSO MAPPING

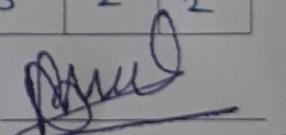
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	3	2	1		2	1	2		2	2	2
CO2	3	3	3	3	2	1		1	1	2	1	2	3	2
CO3	2	2	3	2	3	1			1	2	1	2	3	3
CO4	2	3	3	2	2	2	3	1	1	2	1	2	3	3
CO5	1	2	2	1	2			2	3	3	3	2	2	2
CO6	1	1	2	1	1	2	1	3	2	2	2	2	1	1

Major Project II CO-PO-PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	2	3	1	1	2	2	2	2	2	3	3
CO2	2	2	3	2	2	3	3	2	2	1	1	2	2	2
CO3	3	2	3	2	3	1		1	2	2	2	2	3	3
CO4	1	2	2	1	2	1		2	3	3	3	2	2	2
CO5	1	1	2	1	1	2	1	3	2	2	2	2	1	1
CO6	2	2	2	1	2			2	2	2	2	3	2	2

Guide: Prof. Dnyaneshwar Thombare

Signature of the Guide



Weekly Attendance and Progress Report

Week No	Date	Roll No	Attendance	Progress / Suggestions	Mapping			Marks / 10	Sign of Guide
					CO	PO	PSO		
1	11/07/24	C23	✓	Major Project	PO11	9			
		C28	✓	Guide Selection	PO9	10			
		C44	✓			9			
		C63	✓			10			
2	18/07/24	C23	✓	Topic finalization	CO1	PO2	PSO1	9	
		C28	✓	(Objective, Statement, Scope).	CO2	PO3	9		
		C44	✓		PO9	9			
		C63	✓			9			
3	25/07/24	C23	✓	Literature study	CO1	PO2	PSO1	9	
		C28	✓	Started	PO4	8			
		C44	✓		PO12				
		C63	✓						

Weekly Attendance and Progress Report

Week No	Date	Roll No	Attendance	Progress / Suggestions	Mapping			Marks / 10	Sign of Guide
					CO	PO	PSO		
4 01/08/24	C23	✓	Continued with literature study.	CO1 PO1 PSO1					
	C28	✓	& finding limitations.	CO3 PO2 PS5	✓	✓		16/16	✓
	C44	✓							
	C63	✓			PO12				
5 08/08/24	C23	✓	Abstract, Problem statement and objective	CO2 PO2 PSO1					
	C28	✓			PO3			10/10	
	C44	✓			PO6				
	C63	✓	Finalization.						
6 15/08/24	C23	✓	Started making project timeline chart	PO9					
	C28	✓			PO11				
	C44	✓							
	C63	✓	(Gantt chart).						

Weekly Attendance and Progress Report

Week No	Date	Roll No	Attendance	Progress / Suggestions	Mapping			Marks / 10	Sign of Guide
					CO	PO	PSO		
7 22/08/24	C23	✓		Started with the COs	CO10	PO10	PSO10	<i>Parth</i>	<i>Parth</i>
	C28	✓		Started with the COs					
	C44	✓							
	C63	✓							
8 29/08/24	C23	✓		REVIEW - 1	CO5	PO2	PSO1	<i>Parth</i>	<i>Parth</i>
	C28	✓							
	C44	✓							
	C63	✓							
9 05/09/24	C23	—		Started to	CO1	PO4	PSO1	<i>Parth</i>	<i>Parth</i>
	C28	✓		Prepare Survey					
	C44	—		Paper.					
	C63	✓							

Weekly Attendance and Progress Report

Week No	Date	Roll No	Attendance	Progress / Suggestions	Mapping			Marks / 10	Sign of Guide
					CO	PO	PSO		
10	12/09/24	C23		Analysis is ok	CO1	PO2	PSO1		
		C28		Survey Paper & Document	CO2	PO4		10	
		C44					PO12		
		C63		Collection					
11	19/09/24	C23		Completed the	CO4	PO2	PSO2		
		C28		'Analysis And	PO3				
		C44		'Design'					
		C63						9	
12	26/09/24	C23		Started Algorithm	CO1	PO3	PSO2		
		C28		& Flowchart			PO5		
		C44							
		C63							

Weekly Attendance and Progress Report

Week No	Date	Roll No	Attendance	Progress / Suggestions	Mapping			Marks / 10	Sign of Guide
					CO	PO	PSO		
13	31/10/24	C23		Started with CO3 PO11					
		C28		RMMI Plans					
		C44		Feasibility					
		C63		Analysis.					
		C23		Survey Paper.	CO1	PO2	PSO1		
14	10/10/24	C28		Review - 2	CO5	PO4	PSO2		
		C44			CO2,3	PO9,10			
		C63			CO4	PO11			
		C23		Completed	CO5	PO10		10	
		C28		Report & PPT.					
15	17/10/24	C44							
		C63							

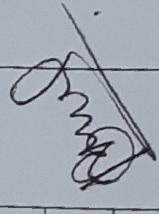
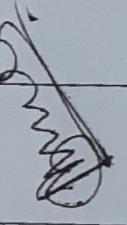
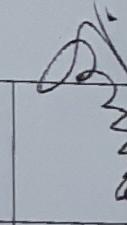
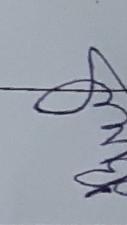
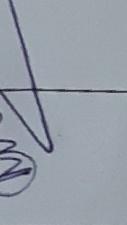
Weekly Attendance and Progress Report

Week No	Date	Roll No	Attendance	Progress / Suggestions	Mapping			Marks / 10	Sign of Guide
					CO	PO	PSO		
01	10/01/25	C 23	Fixed The Text - Stack & Started The Implementation	co1 po3 ps02	10	10	10	10	10
		C 28		po5					
		C 61		16					
02	17/01/25	C 23	Completed 25% Implementation.	co1 po3 ps02	9	9	9	9	9
		C 28							
		C 61							
03	24/01/25	C 23	Completed 50% Implementation	co1 po3 ps02	9	9	9	9	9
		C 28							
		C 61						10	10

Weekly Attendance and Progress Report

Week No	Date	Roll No	Attendance	Progress / Suggestions	Mapping			Marks / 10	Sign of Guide
					CO	PO	PSO		
4	31/01/2025	C23		Made updates in PPT	CO1	PO3	PSO2	10	✓
		C28		as Per suggestion.	CO4	PO10		10	✓
		C61		Started with further		PO12		10	✓
		C		implementation.				10	✓
5	07/02/2025	C23		Survey Paper	CO1	PO3	PSO2	10	✓
		C28		Completed.				10	✓
		C61						10	✓
		C						10	✓
6	14/02/2025	C23		Multifactor	CO1	PO3	PSO2	9	✓
		C28		Authentication	PO6			9	✓
		C61		Started				9	✓
		C						9	✓

Weekly Attendance and Progress Report

Week No	Date	Roll No	Attendance	Progress / Suggestions	Mapping			Marks / 10	Sign of Guide
					CO	PO	PSO		
7 25/02/2025	C 23			154. Project Implementation.	CO2	PO6	9	9	
	C 28				PO7	9	9	9	
	C 61							9	
	C							9	
8 4/03/2025	C 23			Report Preparation	CO4	PO10	10	10	
	C 28			Started.					
	C 61								
	C								
9 11/03/2025	C 23			Research Paper Started.	CO6	PO4 PSO1	9	9	
	C 28				CO4	PO10 PSO2	9	9	
	C 61							9	
								9	

Weekly Attendance and Progress Report

Week No	Date	Roll No	Attendance	Progress / Suggestions	Mapping			Marks / 10	Sign of Guide
					CO	PO	PSO		
10 18/03/2025	C23			Blackbook Preparation Started	CO4	PO10	PSO2		
	C28								
	C61								
11 25/03/2025	C23			Research Paper Completed	CO6	PO4	PSO1		
	C28				CO4	PO10	PSO2		
	C61				PO12				
12 1/04/2025	C23			Research & Survey Paper Published	CO4	PO4	PSO1		
	C28				CO6	PO10	PSO2		
	C61				PO12				

Weekly Attendance and Progress Report

Week No	Date	Roll No	Attendance	Progress / Suggestions	Mapping			Marks / 10	Sign of Guide
					CO	PO	PSO		
13	08/04/2025	C23 C28 C61		Blackbook per prepared & checked from guide.	P09	P010	P502		
14	15/04/2025	C23 C28 C61		Blackbook updated COY & printed as per the guide's instructions.	P04	P010	P502		
15	23/04/2025	C23 C28 C61		final Major Project Presentation. Done	C01	P09	P501		

Terna Engineering College, Nerul, Navi Mumbai

Certification Course Completion Details

Div, Roll No	Name of the Student	Course Details	Duration
C23	Atharra S. Birje	Mastering Solidity, the Ethereum Programming Language (Udemy)	3 Months
C28	Harsh A. Minde	Build A Chat App with Firebase, Flutter & Provider. (Udemy).	2 Months
C61	Ameya A. Mane	Flutter Masterclass - Your Complete Guide to APP Development(Udemy)	2 Months

Name and Signature of the Guide: Prof. Dnyaneshwar Thombare Dnyaneshwar Thombare

Terna Engineering College, Nerul, Navi Mumbai

Department of Computer Engineering

Academic Year 2024 - 2025

Publication Details

Paper 1: Name of Authors: Prof. Dnyaneshwar Thombre,

Atharra Birje, Harsh Minde, Ameya Mane, Jyotiraditya Patil.

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A Comprehensive Approach. (Research Paper).

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Paper 2: Name of Authors: Prof. Dnyaneshwar Thombre,

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