



Hope Foundation's  
**Finolex Academy of Management and Technology**  
Ratnagiri, Maharashtra -415639  
Information Technology Department

**Department of Information Technology**

# **MINI-PROJECT LOGBOOK**

## **GROUP MEMBERS**

1. Baseema Irfan Kazi
2. Sakshi Janardan Kanar
3. Sanika Rajendra Kalyankar

Supervisor/Guide

Dr./Prof. Swati Powar



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**Department of Information Technology**



**University of Mumbai**  
(Academic Year 2023-24)

**INSTITUTE VISION & MISSION**

**VISION**

The academy aspires to nurture students as leaders who are in tune with global trends, equipped with engineering knowledge and practical skills, to excel in creativity and innovation in order to play their part in technological advancement of the nation.

**MISSION**

1. To become foremost seat of advanced technical learning as a center of excellence in the region.
2. To offer state of the art facilities and quality education at affordable cost
3. To inculcate in students the culture of 'Play Hard and Play Fair'.
4. To advance sustainable development in the region through opportunities for entrepreneurship and industry-institute interaction.
5. To create a generation of young professionals who appreciate in all its aspects the necessity of balance between technological advances and traditional values.



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Information Technology Department**

## **Department of Information Technology**

### **DEPARTMENT VISION & MISSION**

#### **VISION**

Department endeavors to provide excellent Information Technology (IT) education and aspire to nurture students as leaders who are in tune with global IT Trends

#### **MISSION**

- M1- To become foremost seat of Information Technology (IT) learning at affordable cost
- M2 – To offer high Quality IT Education to advance sustainable development through opportunities in entrepreneurship and services
- M3 – To create a generation of young IT Professionals in all its aspects with the balance between technological advances and traditional values.



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**PROGRAM EDUCATIONAL OBJECTIVES (PEO's)**

<b>PEO1</b>	To provide learners with Core Competence in mathematical, scientific and basic engineering fundamentals necessary to formulate, analyze and solve hardware/software engineering problems.
<b>PEO2</b>	To prepare learners to solve business-centered problems by identifying, analyzing, developing, and implementing information system based solutions with modern programming tools. To encourage learners to use best practices and implement technologies to enhance information security and enable compliance, ensuring confidentiality, information integrity, and availability.
<b>PEO3</b>	To prepare learners for successful career in Indian and Multinational Organizations, Identify and evaluate current and emerging technologies. To provide our graduates with learning environment awareness of the life-long learning .To motivate students to pursue it throughout their career and higher studies. To encourage and motivate learners for Research & Development and entrepreneurship.
<b>PEO4</b>	To introduce learners to ethical codes and guidelines including professional, ethical, legal and public policy issues to perform excellence, show leadership skills and demonstrate good citizenship
<b>PEO5</b>	To develop effective written and oral communication skills to interact with clients, users, co-workers and managers. To enable learners work as part of teams on multidisciplinary projects and diverse professional environments to accomplish a common goal by integrating personal initiative and group cooperation.



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## PROGRAM OUTCOMES (POs)

	<b>PO Domain</b>	<b>Program Outcomes : The students of Information Technology (IT) Department will be able to :</b>
PO1	Engineering Knowledge	Apply the knowledge of mathematics, science and IT fundamentals to the solution of complex engineering problems.
PO2	Problem Analysis	Identify, formulate, review research literature, and analyse complex IT problems reaching substantiated conclusions using principles of mathematics, natural sciences, and engineering.
PO3	Design/Development of Solutions	Use research-based knowledge of IT and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO4	Investigation of user needs	Ability to investigate, identify and analyse user needs, and take them into account in selection, creation, evaluation, administration of IT-based solutions into the user environment.
PO5	Modern Tool Usage	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex IT activities with an understanding of the limitations.
PO6	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 in the field of IT.
PO7	Environment and Sustainability	Understand the impact of the professional IT solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics	Apply ethical principles and commit to professional ethics and responsibilities and norms of the IT practice.
PO9	Individual and Team Work	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication	Communicate effectively on complex IT 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.
PO11	Project Management and Finance	Demonstrate knowledge and understanding of the IT 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.



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PO12	Life-Long Learning	Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PSO 1	Realistic Framework Designing	Design an algorithm, component, or process to meet desired needs, within realistic constraints through analytical, logical and problem solving skills.
PSO2	IT Integration and Adaptability	Effectively integrate IT-based solutions into the user environment and Adapt themselves easily to emerging trends in Information Technology.



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**STUDENT INFORMATION**

**Project Title: Laptop Price Prediction**

	Student 1	Student 2	Student 3
<b>Student ID</b>	T-21-0162	T-21-0250	T-21-0415
<b>Name</b>	Baseema Kazi	Sakshi Kanar	Sanika Kalyankar
<b>Class with Division</b>	TE IT	TE IT	TE IT
<b>Contact No.</b>	7517517367	8928008425	7507878708
<b>Email ID :</b>	<a href="mailto:kazibaseema04@gmail.com">kazibaseema04@gmail.com</a>	<a href="mailto:sakshikanar548@gmail.com">sakshikanar548@gmail.com</a>	<a href="mailto:sanikakalyankar2@gmail.com">sanikakalyankar2@gmail.com</a>
<b>Address</b>	MIDC, Ratnagiri	MIDC, Ratnagiri	Mirjole, Ratnagiri



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## **Department of Information Technology**

### **INSTRUCTIONS TO STUDENTS:**

1. The logbook must be submitted to the Guide or Co-Guide for verification and evaluation of project activities at least once in a week.
2. Log book duly signed by guide must be submitted with project report for evaluation at the end of semester to the department.

### **DECLARATION**

I declare that this project represents my ideas in my own words without plagiarism and wherever others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my project work. I promise to maintain minimum 75% attendance, as per the University of Mumbai norms. I understand that any violation of the above will be cause for disciplinary action by the Institute.

Yours Faithfully

1. Baseema Kazi

2. Sakshi Kanar

3. Sanika Kalyankar

**(Date & Signature of Students)**





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### **Letter of Acceptance**

I undersigned, Dr./Prof. Swati Powar working in Information

Technology Department, willing to guide the project titled **Laptop Price Prediction** for the Mini-Project-2 (A & B) Semester V /VI respectively for the Academic Year 2021-22.

The names of the students are:

1. Baseema Kazi
2. Sakshi Kanar
3. Sanika Kalyankar

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**(Project Guide)**

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**(Mini-Project Coordinator)**

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**(HOD-Information Technology)**



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### PROJECT OBJECTIVES

PROB NO.	PROJECT OBJECTIVES
1.	To acquaint with the process of identifying the needs and converting it into the problem.
2.	To familiarize the process of solving the problem in a group.
3.	To understand working of classification algorithms.
4.	To understand comparative analysis of classification algorithms.

### PROJECT OUTCOMES

PRO NO.	PROJECT OUTCOMES	POs covered	PSOs covered
1.	Identify problems based on societal/research needs.	PO2,PO4	PSO2
2.	Apply Knowledge and skill to solve societal problem in a group.	PO3,PO1	PSO2
3.	Understand a wide variety of machine learning algorithm.	PO5,PO3	PSO1
4.	Understand the difference between algorithms.	PO5,PO3	PSO2



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**PRO-PO-PSO MAPPING**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PS01	PSO2
<b>PRO1</b>	0	2	0	2	0	0	0	0	0	0	0	1
<b>PRO2</b>	2	0	2	0	0	0	0	0	0	0	0	1
<b>PRO3</b>	0	0	2	0	2	0	0	0	0	0	1	0
<b>PRO4</b>	2	0	0	0	2	0	0	0	0	0	0	1

**COURSE OUTCOMES**

CO No.	COURSE OUTCOME	POs covered	PSOs covered
CO1	Identify problems based on societal /research needs.	PO1, PO3,PO5	PSO1
CO2	Apply Knowledge and skill to solve societal problems in a group.	PO1, PO2, PO4	PSO1, PSO2
CO3	Develop interpersonal skills to work as member of a group or leader.	PO8, PO10	
CO4	Draw the proper inferences from available results through theoretical/ experimental/simulations.	PO3, PO5, PO6	PSO1, PSO2
CO5	Analyze the impact of solutions in societal and environmental context for sustainable development.	PO7, PO6	PSO2
CO6	Use standard norms of engineering practices	PO8, PO9	PSO2
CO7	Excel in written and oral communication.	PO10, PO12	PSO2
CO8	Demonstrate capabilities of self-learning in a group, which leads to lifelong learning.	PO9, PO12	PSO2
CO9	Demonstrate project management principles during project work.	PO11	PSO1, PSO2



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**CO-PO-PSO MAPPING**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	0	2	0	2	0	0	0	0	0	0	0	3	0
CO2	2	3	0	3	0	0	0	0	0	0	0	0	2	1
CO3	0	0	0	0	0	0	0	2	3	0	0	0	0	0
CO4	0	0	1	0	3	2	0	0	0	0	0	0	1	3
CO5	0	0	0	0	0	0	2	3	0	0	0	0	0	2
CO6	0	0	0	0	0	0	0	2	3	0	0	0	1	1
CO7	0	0	0	0	0	0	0	0	0	3	0	2	0	3
CO8	0	0	0	0	0	0	0	0	2	0	0	3	0	2
CO9	0	0	0	0	0	0	0	0	0	0	3	0	2	1



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**SCHEDULE FOR MINI PROJECT**

Date	Week	Contents	Remark	Guide Sign
01/01/2024	1	Group Formation		
03/02/2024	2	Topic and algorithm selection		
26/02/2024	3	Dataset Obtained		
26/02/2024	4	Created Feasibility report		
18/03/2024	5	Data cleaning and visualization		
18/03/2024	6	Implementation of Decision tree algorithm		
25/03/2024	7	Implementation of Random forest algorithm		
15/04/2024	8	Report and Presentation		



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**PROGRESS/ATTENDANCE REPORT**

Title of the Project: Laptop Price Prediction	
Group No. 05	Name of Student 1: Baseema Kazi
	Name of Student 2: Sakshi Kanar
	Name of Student 3: Sanika Kalyankar
Name of the Supervisor/Guide: Dr./Prof. Swati Powar	

Sr. No	Date	Progress/Suggestion				Mapping		
		1	2	3		CO	PO	PSO
1	01/01/24	P	P	P	Group Formation	1,7	1,3,5	1
2	03/02/24	P	P	P	Group meeting for deciding project	2,7,9	2,6,7	1,2
3	26/02/24	P	P	P	Selecting an appropriate topic and discussing it with the guide.	7	4,6	2
4	26/02/24	P	P	P	Gathering information and references	5	8,12	1
5	18/03/43	P	P	P	Assigning task for every group member	4	2,7,3	2



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6	18/03/24	P	P	P	Importing libraries, datasets and code work	2,7,9 9	2,6,7	1,2
7	25/03/24	P	P	P	Code Work	7	4,6	2
8	15/04/24	P	P	P	Presenting the progress of the project Finishing the remnant task and review	5	8,12	1

**Name, Date & Sign of the Supervisor/Guide**



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**REVIEW-I FORM**

Group No: 05

Title of Mini-Project: Laptop Price Prediction

Date of Review-I: \_\_\_\_\_

No. of students in project team: 03

**Student Mini-Project Performance Analysis (Put Tick as per your Observation)**

	Excellent (3)	Very Good (2)	Good (1)		
Sr. No.	Observation		(3)	(2)	(1)
1	Quality of problem and Clarity				
2	Literature Survey				
3	Innovativeness in solutions				
4	Feasibility Of the Project				
5	Usage of technology				
6	Cost effectiveness and Societal impact				
7	Overall Presentation & Performance				
Comments:					

**Project Guide & Panel Members Signature:** 1)  
2)  
3)

**Name, Date & Signature**  
**Project Coordinator**

**Name, Date & Signature**  
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**REVIEW-II FORM**

Group No: 05

Title of Mini-Project: Laptop Price Prediction

Date of Review-II: \_\_\_\_\_

No. of students in project team: 3

**Student Mini-Project Performance Analysis (Put Tick as per your Observation)**

	Excellent (3)	Very Good (2)	Good (1)			
Sr. No.	Observation			(3)	(2)	(1)
1	Usage of effective skill sets					
2	Design and Implementation					
3	Testing and Analysis					
4	Use of standard engineering norms					
5	Cost effectiveness and Societal impact					
6	Contribution of an individual member in team					
7	Overall Presentation & Performance					
Comments:						

**Project Guide & Panel Members Signature:** 1)  
2)  
3)

**Name, Date & Signature**

Project Coordinator

**Name, Date & Signature**

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**EXAMINER'S FEEDBACK FORM**

Name of External examiner:

College of External examiner:

Name of Internal examiner:

Date of Examination: / /

No. of students in project team:

Availability of separate lab for the project: Yes/ No

**Student Performance Analysis (Put Tick as per your Observation)**

	Excellent (3)	Very Good (2)	Good (1)			
Sr. No.	Observation			(3)	(2)	(1)
1	Quality of problem and Clarity					
2	Innovativeness in solutions					
3	Cost effectiveness and Societal impact					
4	Full functioning of working model as per stated requirements					
5	Effective use of skill sets					
6	Effective use of standard engineering norms					
7	Contribution of an individual's as member or leader					
8	Clarity in written and oral communication					
9	Overall performance					

- o Can same mini project extend to next semester by adding new objectives/ideas? (Yes/ No)
- o If yes, suggest new Innovative Technique/Idea/ objectives related to this project.

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**Name, Date & Signature**  
**External Examiner**

**Name, Date & Signature**  
**Internal Examiner**

**Name, Date & Signature**



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