LOG BOOK FOR MAJOR PROJECT II

PROJECT GROUP NO: 01

GROUP MEMBERS

1. Aniket Gode   (BE-A-127)

2. Vikas Mandal (BE-A-168

3. Deepak Singh (BE-A-132)

Name of the Guide: Dr. Subhash K. Shinde

DEPARTMENT OF COMPUTER ENGINEERING

LOKMANYA TILAK COLLEGE OF ENGINEERING

KOPARKHAIRANE, NAVI MUMBAI

UNIVERSITY OF MUMBAI

Academic Year

2020-21

INSTITUTE VISION & MISSION

VISION:

To create technically competent and ethically responsible professionals capable of providing efficient solutions to the contemporary world.

MISSION:

We aim to excel in our continual efforts, towards being one of the most recognized institutions by:

1. Providing a conductive environment comprising high end infrastructure and state-of-the-art laboratory facilities wherein the students, faculty and staff can collectively enhance their technical potential.
2. Encouraging innovation through research activities for the benefits of society.
3. Developing competent professionals responsive to changing technology.
4.

COMPUTER ENGINEERING DEPARTMENT

VISION:

To create Computer Engineers who are technically sound and socially conscious and able to excel in multidisciplinary fields in global environment.

MISSION:

1. To impart strong professional knowledge through innovative teaching methodologies.
2. To inculcate leadership qualities and entrepreneur skills with social and ethical values for technological development of the Nation.
3. To support technology transformation for societal and environmental benefits
4. To promote the skill for futuristic research practices.

PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

PEO1	Aspire successful career in the field of Computer Engineering utilizing technical and professional skills while complying with ethical standards
PEO2	Provide techno-social solutions through communication, entrepreneurial, collaborative and engineering skill
PEO3	Indulge in life-long learning through higher studies, Research and continuing education.

PROGRAM OUTCOMES (POs)

PO's	OUTCOMES
PO1	An ability to apply knowledge of mathematics, science and engineering fundamentals in the field of computing.
PO2	Critically identify, formulate and evaluate emerging topics and the recent development in the field and Provide solution to futuristic engineering problems.
PO3	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context.
PO4	Ability in requirement gathering, design and implementation of software with computer systems to analyze and interpret the data.
PO5	An ability to use the techniques, logical and analytical skills and modern engineering tools necessary for engineering practice.
PO6	An ability to design a system component or process to meet desired needs within realistic constraints such as economic, environmental, social, cultural and safety issues.
PO7	An ability to understand an impact of engineering knowledge towards society and environment with need to sustainable solutions.
PO8	To inculcate professional ethics.
PO9	An ability to function effectively, individually and in teams to accomplish a common goal.
PO10	An ability to communicate solutions of complex computing problems effectively using reports and presentations to wide range of audiences.
PO11	To instill leadership and managerial skills in multidisciplinary environment.
PO12	Recognition of the need for and an ability to engage in life-long learning.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1	Students must be able to apply knowledge of mathematics and engineering to complex problems in software engineering.
PSO2	To motivate students for pursuing higher education and research in the field of computer engineering.
PSO3	To develop leadership qualities and entrepreneurship in global environment.

STUDENT INFORMATION

Project Title: E-Governance of Agriculture

Name of the Guide: Dr. Subhash K. Shinde

Academic Year: 2020-21

	Student 1	Student 2	Student 3
Name	Aniket Gode	Vikas Mandal	Deepak Singh
ERP No.	170600019	170600033	170600345
Division	A	A	A
Contact No.	9130469780	702157314	9167024095
E-mail	godeani21@gmail.com	vikasmandal4@gmail.com	s.deepak2527@gmail.com
Address	Flat no.101 building no.08 Rajas CHS opposite Hello kids Manisha Nagar gate no.01 Kalwa west	Room no.14, Behind Jai Bharat School, Mulund Colony, Mulund West Mumbai-82	Shivshakti Chawl, Suryanagar, Vikhroli(W), Mumbai-83

ABOUT LOG BOOK:

Log Book is to be maintained by final year students to record all the activities performed in order to complete the Major Project work in semester VII and VIII.

The log book is the formal way for faculty to know and evaluate the student's attitude, project development and progress. Therefore, this log book is important documentation for project work carried out by students.

INSTRUCTIONS TO STUDENTS:

1. The logbook must be submitted to the Guide or Co-Guide for verification and evaluation of project activities atleast 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 and whereever 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 .
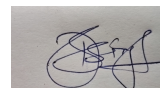
Yours Faithfully

1._____

2._____

3._____

(Signature of Students)

LOKMANYA TILAK COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER ENGINEERING

**Academic Year
(2020-21)**

Letter of Acceptance

I undersigned, Prof. **Dr. Subhash K. Shinde** working in Computer department, LTCOE, willing to

guide the project titled **E-Governance of Agriculture** for the Major Project-I and Major Project-II of

B.E. Semester VII and VIII respectively for the academic year 2020-21.

The names of the students are:

1. Aniket Gode

2. Vikas Mandal

3. Deepak Singh

_____   _____   _____

   (Project Guide)   (BE Project Coordinator)   (HOD Computer)

MAJOR PROJECT-II

Project Title	E-Governance for Agriculture
Branch/Semester/Year	Computer/Sem-8/2020-21
Name of the Guide	Prof. Dr. Subhash K. Shinde

Program Structure

B.E. Computer Engineering
Fourth Year (Computer) (Semester VIII)

Course Code	Course Name	Teaching Scheme			Credits Assigned			
		Theory	Pract	Tut	Theory	TW/ Pract	Tut	Total
CSP805	Major Project II	-	12	-	-	6	-	6

Course Code	Course Name	Examination Scheme							
CSP805	Major Project II	Internal Assessment							
		Internal Assessment			End Sem Exam	Exam Duration	TW	oral	Total
		Test 1	Test1	Avg					
		-	-	-	-	-	50	50	100

GUIDELINES FOR ASSESSMENT OF
MAJOR PROJECT II

Project II should be assessed based on following points:
- Quality of problem selected
- Clarity of Problem definition and Feasibility of problem solution
- Relevance to the specialization / Industrial trends
- Clarity of objective and scope
- Quality of work attempted
- Validation of results
- Quality of Written and Oral Presentation

Term Work:
Student has to submit weekly progress report to the internal guide and where as internal guide has to keep track on the progress of the project and also has to maintain attendance report. This progress report can be used for awarding term work marks. In case of industry projects, visit by internal guide will be preferred to get the status of project. Distribution of marks for term work shall be as follows:
a) Weekly Attendance on Project Day
b) Project work contributions as per objective
c) Project Report (Hard Bound)
d) Term End Presentation (Internal)

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

Course Outcomes of Project-II

CSP805.1	Develop a solution using coding according to design
CSP805.2	Design test cases for a solution
CSP805.3	Implementation of a project for the social, cultural, global and environmental responsibilities
CSP805.4	Encourage teamwork, leadership qualities, ethics and communication within team
CSP805.5	Present project findings and conclusion effectively in written and oral form
CSP805.6	Demonstrate the knowledge, skills and attitudes of a professional engineer

CO-PO-PSO Mapping of Project-II

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	●				●				●				●		
CO2															
CO3				●	●		●		●						●
CO4									●	●					●
CO5									●	●					●
CO6		●		●					●						●

Schedule for Major Project – II

Date	Week	Contents	Remark	Guide Sign
29/1/2021	1	Procuring all the Required Datasets through Open-Source Platforms		
5/2/2021	2	Development of Image-Recognition Engine for Plant Disease Detection		
12/2/2021	3	Data-Preparation for Crop-Prediction		
19/2/2021	4	Modelling Crop-Prediction model and testing		
26/2/2021	5	Data-Preparation for Fertilizer Recommendation Engine		
5/3/2021	6	Modelling Fertilizer Recommendation model		
12/3/2021	7	Adding functionality of Displaying remedies after detecting disease		
19/3/2021	8	Study and Research of appropriate Front-End technology for Web-App		
26/3/2021	9	Designing Wire-frame of Front-End and Back-End		
9/4/2021	10	Development of Front-End and Back-End		
16/4/2021	11	Integrating Front-End with Back-End		
23/4/2021	12	Testing of Web-App and getting the final results		
30/4/2021	13	Preparation for presentation		
8/5/2021	14	Final Project Report		

Department of Computer Engineering

Academic Year- 2020-21
Major Project-II (Sem-VIII)
Progress/Attendance Report

Title of the Project: E-Governance of Agriculture	
Group No.	Name of Student 1: Aniket Gode
	Name of Student 2: Vikas Mandal
01	Name of Student 3: Deepak Singh
Name of the Guide: Prof. Dr. Subhash K. Shinde	

Sr. No	Date	Attendance			Progress/Suggestion	Mapping		
		1	2	3		CO	PO	PSO
1	29/1/2021	P	P	P	Procuring all the Required Datasets through Open-Source Platforms	4	9, 10	3
2	5/2/2021	P	P	P	Development of Image-Recognition Engine for Plant Disease Detection	1	1,5, 9	1
3	12/2/2021	P	P	P	Data-Preparation for Crop-Prediction	4	9, 10	3
4	19/2/2021	P	P	P	Modelling Crop-Prediction model and testing	4	9, 10	3
5	26/2/2021	P	P	P	Data-Preparation for Fertilizer Recommendation Engine	6	2,4, 9	3
6	5/3/2021	P	P	P	Modelling Fertilizer Recommendation model	1,6	1,2, 4,5, 9	1,3

7	12/3/2021	P	P	P	Adding functionality of Displaying remedies after detecting disease	1	1,5, 9	1
8	19/3/2021	P	P	P	Study and Research of appropriate Front-End technology for Web-App	4	9, 10	3
9	26/3/2021	P	P	P	Designing Wire-frame of Front-End and Back-End	1,4	1,5, 9, 10	1
10	9/4/2021	P	P	P	Development of Front-End and Back-End	1	1,5, 9	1
11	16/4/2021	P	P	P	Integrating Front-End with Back-End	1,4	1,5, 9, 10	1
12	23/4/2021	P	P	P	Testing of Web-App and getting the final results	3, 4	9, 10	3
13	30/4/2021	P	P	P	Presentation1	4,5	9, 10	2
14	8/05/2021	P	P	P	Documentation work for the Major-Project-II	4,5	9, 10	2
15	28/05/2021	P	P	P	Presentation2	4,5	9, 10	2

Sign of the Guide