# MINI-PROJECT LOGBOOK

GROUP MEMBERS

1. Nikunj Pratap Mistry
2. Anurag Hale
3. Shubham Khose

Supervisor/Guide

Dr./Prof. Madhuri Rao

THADOMAL SHAHANI
TSEC
ENGINEERING COLLEGE

Department of Information Technology

**TSEC, Mumbai - 400 050**

**University of Mumbai**

(Academic Year 2021-22)

# INSTITUTE VISION & MISSION

**VISION:**

Perpetuating and transcending the processes of:

- Contributing to evolving supply chain of human capital for National Economy
- Creating entrepreneurs and 'game changers' to support heightened level of economic activities underpinning ever increasing human aspiration
- Helping the Nation evolve as a total solution provider
- Value and wealth creation for the mankind

**MISSION:**

Focusing and practicing:

- Product and processes innovation
- Leveraging human cognitive and behavioral science for creating instructional content
- Pervasive and ubiquitous Information Communication Technologies for customized content for learning
- Acknowledge and facilitate various learning styles and learning abilities
- Migrating from teaching paradigm to learning paradigm
- Every day discourse shall inculcate research culture and further the cause of societal advancement
- Understand various markets and cultures
- Collaborative learning and emotional integrity
- Sensitizing about opportunities in Energy, Education, Environment and Health care sectors
- Extensively promoting computer aided design, analysis and manufacturing procedures
- Theoretical rigor to develop conceptual clarity
- Modeling and design of experiments to inculcate culture of investigation
- Helping foot print on Project management and collaborative human endeavor
- Interdisciplinary studies and exposure to functional areas

# INFORMATION TECHNOLOGY DEPARTMENT

**VISION:**

The department should be known globally for its core competence in terms of intuitive and intelligent architectural solutions on “conversion of problem to logic”.

**MISSION:**

Focusing and practicing:

- Theoretical rigour to develop conceptual clarity.
- Modelling and design of experiments to inculcate culture of investigation.
- Making project based learning-learning as a pervasive pedagogy.
- Transcending learning in the emerging areas of Artificial Intelligence, Deep Learning, Block-chain technology and Quantum Computing.
- Short term training program in evolving fields of Information Technology.
- Collaborative learning, interdisciplinary studies and exposure to functional areas.
- Sensitising all concerned about automation in IT services, software product and software process innovation.
- Introducing risk management, risk mitigation and the process of hedging.
- Inculcating and enhancing the culture of entrepreneurship, start-up ventures and incubation process.
- Metamorphosis from teaching paradigm to learning paradigm.
- Every day discourse shall inculcate research culture and create IPR in terms of process and product patents, by understanding various markets and culture

# PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

**PEO I:** To create graduates committed to further the cause of information technology to enable enterprises to seize the massive opportunity emerging in IT services & IT product marketplace.

**PEO II:** To build theoretical rigor, conceptual clarity in learners & engaging them to develop an attitude and temperament to be productive in workplace.

**PEO III:** Help Learners to develop competency & skill sets in customizing software products in the niche/specialized areas like Big data Analytics, Artificial Intelligence, Deep learning& Block chain technologies.

**PEO IV:** Help learners to develop competency in "Conversion of problem to logic" and in acquiring modelling & simulation skills.

**PEO V:** Help them to develop environment consciousness build intellectual & emotional integrity & capacity to remain focused for a long time to achieved said goals.

# 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 Contributing to supply chain of human capital for Indian IT industry & knowledge economy

PSO2 Pupils get initiated to emerging areas and going up in the academic value chain.

PSO3 Pupils understand and demystify technology marketplace (product &process) & cultures of various geographies.

PSO4 Offering cost & quality arbitrage to aspiring private capital in getting invested in our company.

PSO5 Sensitizing graduates about the possibilities of leveraging ICT technologies for offering solutions to the nation building process & contributing to further the cause of the people at large.

# STUDENT INFORMATION

**Project Title:** **Hotel Management System**

| | Student 1 | Student 2 | Student 3 |
|---|---|---|---|
| **Student ID** | | | |
| **Name** | Nikunj Mistry | Anurag Hale | Shubham Khose |
| **Class with Division** | S1<br>S14 | S1<br>S11 | S1<br>S13 |
| **Contact No.** | 9004256895 | 9653614721 | 9869016556 |
| **E-mail** | nikunjmistry1000@gmail.com | anuraghalee@gmail.com | shubhamkhose28@gmail.com |
| **Address** | 62/4 khetwadi | 103 nilgiri tower, | Room no-132 |
| | Back road J.J Mansion | kharghar | B,Azad Nagar |
| | 4th floor | | Lala Nigam Road,Colaba |
| | Mumbai-400004 | | Room no-132/B,Azad Nagar,Lala Nigam Road,Colaba,Mumbai-400005 |

## 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. Nikunj Mistry

2. Anurag Hale

3. Shubham Khose

**(Date & Signature of Students)**

# Letter of Acceptance

I undersigned, Dr./Prof. Madhuri Rao working in Information Technology Department, willing to guide the project titled Bill Management System

for the Mini-Project-1 (A & B) Semester IV respectively for the Academic Year 2021-22.

The names of the students are:

1. Nikunj Mistry
2. Anurag Hale
3. Shubham Khose

**(Project Guide)** **(Mini-Project Coordinator)** **(HOD-Information Technology)**

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# 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. | | |
| CO3 | Develop interpersonal skills to work as member of a group or leader. | | |
| CO4 | Draw the proper inferences from available results through theoretical/ experimental/simulations. | | |
| CO5 | Analyze the impact of solutions in societal and environmental context for sustainable development. | | |
| CO6 | Use standard norms of engineering practices | | |
| CO7 | Excel in written and oral communication. | | |
| CO8 | Demonstrate capabilities of self-learning in a group, which leads to lifelong learning. | | |
| CO9 | Demonstrate project management principles during project work. | | |

# CO-PO-PSO MAPPING

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | | | | | | | | | | | | | | | |
| CO2 | | | | | | | | | | | | | | | |
| CO3 | | | | | | | | | | | | | | | |
| CO4 | | | | | | | | | | | | | | | |
| CO5 | | | | | | | | | | | | | | | |
| CO6 | | | | | | | | | | | | | | | |
| CO7 | | | | | | | | | | | | | | | |
| CO8 | | | | | | | | | | | | | | | |
| CO9 | | | | | | | | | | | | | | | |

# SCHEDULE FOR MINI PROJECT

| Date | Week | Contents | Remark | Guide Sign |
|---|---|---|---|---|
| 21/1/2022 | 1 | Introduction to python mini project | | |
| 28/1/2022 | 2 | Deciding a project | | |
| 4/2/2022 | 3 | Defining Problem statement & case study | | |
| 11/2/2022 | 4 | Designing Bill GUI | | |
| 18/2/2022 | 5 | Qrscanner for detecting qrcode | | |
| 25/2/2022 | 6 | Working on Whatsapp automation | | |
| 4/3/2022 | 7 | Connecting sql database with python | | |
| 11/3/2022 | 8 | Working on automation of existing names | | |
| 25/3/2022 | 9 | Project Showcase | | |
| | | | | |
| | | | | |

# PROGRESS/ATTENDANCE REPORT

| | |
|---|---|
| Title of the Project: | |
| Group No. | Name of Student 1: Nikunj Pratap Mistry |
| | Name of Student 2: Anurag Hale |
| | Name of Student 3: Shubham Khose |
| | |
| Name of the Supervisor/Guide: Dr./Prof. Madhuri Rao | |

| **Sr. No** | **Date** | **Attendance** | | | | **Progress/Suggestion** | **Mapping** | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | | CO | PO | PSO |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6 | | | | | Presentation1 | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |

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

# REVIEW-I FORM

Group No: 3

Title of Mini-Project: Bill Management-System

Date of Review-I: 3/03/2022

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 | 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**
**HOD-Information Technology**

# REVIEW-II FORM

Group No: 3

Title of Mini-Project: Bill Management-System

Date of Review-II: 21/4/2022

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**
**HOD-Information Technology**

# 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 | | | |

- Can same mini project extend to next semester by adding new objectives/ideas? (Yes/ No)
- 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**
**HOD-Information Technology**