1. **Industry-Oriented Mini-Project**

There shell be an Industry-Oriented Mini-Project to be taken up during the vacation after III year II semester examinations. However, the Mini-Project and its report shall be evaluated in IV year I semester. The Industry-Oriented Mini-Project shall be submitted in report-form and should be presented before the committee, which shall be evaluated as SEE for 100 marks. The committee consists of Head of the Department, supervisor and a senior faculty member.
There shall be no CIE for Industry-Oriented Mini-Project

2. Objective and outcomes

Students will experience different process (Software development, Software Testing and Software management) in software industry
Outcomes: Student able to

- Analysis and Design a software system.
- Write Test cases to the a software system

3. Student Team formation

Section wise Students Roll number are arrange in ascending order of their CGPA. Form team with snack order.

4. Problem statement sources

Students shell prepare problem statements from

- Research Paper (IEEE/ACM/Elsevier Transaction papers)
- Industry
- Smart India Hackathon/other competitions (kaggle..)
- Society
- Business process Automation

5. Final outcome of projects

- A application software (web/android/IOT system/other apps)
- A research Paper implementation (simulation the experiment)

6. Project Team milestones

Sl.No	Items	Duration	
1	Problem statement (Form 1& 2)	1 week	
2	Project Requirements (Form 3)	1 week	
3	Functionality implementation -1 (Form 3)	4 week	
4	Project Review-1 by PRC		
5	Functionality implementation -2(Form 3)	4 week	
6	Functional Test cases (Form 4)	1 week	
7	Justification and conclusion (Form 5)	2 week	
8	Submission report		
9	Project Review-2 by PRC		

7. Final submission check list
    1. Executable source code and (or) binary code in CD
    2. GitHub project URL
    3. Project Report in Spiral Binding
    4. All Forms(1to 5)

8. Responsibilities

A. **Mini-Project Class coordinator (Class In-charge)**:

- Form Teams Based on Their CGPA
- Prepare Proposed project titles list from section PRC (Project Review committee) Members
- Conduct PRC-Project Reviews

B. Project Teams:

- Select a project title from above List
- Project teams submit Form/reports to Supervisor as Project Team milestones to Project supervisor

C. Project Supervisor:

- Give Three and above proposed projects Abstract to class In-charge
- Track and Guide Projects Progressive
- Record Team Attendance

Form 1: Project Information Form

1.Team No: 7

2.Project Title:

Chatbot Music Recommendation System

3.Team Details:

Sl. No	Hall ticket Number	Name
1	20EG105410	G Keerteshwar Reddy
2	20EG105424	Mahesh Pawar
3	20EG105716	D Akhil

4.Problem Statement:

Recommendation of Music to the users based on their emotions during conversation or a word with a chatbot using Machine learning and Natural Language Processing.

5.Source of Project: IEEE, 2021 6th International Conference on Communication and Electronics Systems (ICCES)

6.FinalOutcome:

7.What are parameters consider for project evaluation

8.Development Environment:

Interactive Chatbot, Application Program
Interface, Interactive Systems, Recommender Systems,Playlist generation,
IBM Tone Analyzer API, Last.fm API,
CakeChat server.

Signature Team Members **Signature Supervisor**

1

2

3

Form 3: Project Requirement and Progress Document

1.Team No:
2. Project Title:

3. Functional Requirements

Actors	Usecases	senarios

3. Functionality Status

Sl.No	List of Functions	Status

Comments :

Form 2:Literature Documents

1.Team No:
2. Project Title:

Comparison of Existing Methods

Slno	Author (s)	Method	Advantages	Disadvantages
1				
2				
3				

References

[1] Ravi, P.Haritha, D. "Efficient computation of min & max iceberg queries using value based property" Journal of Engineering Science and Technology Reviewthis , 2019, 12(6), pp. 202–207

Form 4: Functional Test cases

1.Team No:
2. Project Title:

3.Test cases :

Sl.No	Use Case	Function Being Tested	Initial System State	Input	Expected Output	Test Result

Signature Supervisor

Form 5: Justification and Conclusion

1.Team No:
2. Project Title:

3. Justification

Sl.No	Parameter	Exiting value	Improved value	Justification

4.conclusion

Signature Supervisor