CRITERION 2 PROGRAM CURRICULUM AND TEACHING – LEARNING PROCESSES 120

2.1.1. State the process used to identify extent of compliance of the University curriculum for attain Program Outcomes (POs) & Program Specific Outcomes (PSOs), mention the identified curricular gaps, if any (10)

SSM Institute of Engineering and Technology is affiliated to Anna University, Chennai and hence the Department of Computer Science and Engineering, SSMIET follows the curriculum prescribed by the Anna University, Chennai. Usually the regulations and curriculum is framed, reviewed by the Anna University in regular intervals usually once in four years.

PROGRAMME EDUCATIONAL OBJECTIVES:

Bachelor of Computer Science and Engineering curriculum is designed to impart Knowledge, Skill and Attitude on the graduates to;

PEO1. Apply their technical competence in computer science to solve real world problems, with technical and people leadership.

PEO2. Conduct cutting edge research and develop solutions on problems of social relevance.

PEO3. Work in a business environment, exhibiting team skills, work ethics, adaptability and lifelong learning.

PROGRAMME OUTCOMES (POs)

PO1	**Engineering knowledge**
	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2	**Problem Analysis**
	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3	**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.

PO4	**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.

PO5	**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.

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.

PO7	**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.

PO8	**Ethics**
	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering 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 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.

PO11	**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.

PO12	**Lifelong 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 (PSO)

Computer Engineering Programme Students will be able to:

- Exhibit design and programming skills to build and automate business solutions using cutting edge technologies.
- Strong theoretical foundation leading to excellence and excitement towards research, to provide elegant solutions to complex problems.
- Ability to work effectively with various engineering fields as a team to design, build and develop system applications.

2.2 Teaching - Learning Processes

2.2.1. Describe Processes followed to improve quality of Teaching & Learning

The Institution follows various practices for the attainment of Program outcomes and program specific outcomes in acquiescence with university curriculum:

Academic Calendar:

Academic calendar and semester plan are prepared well in advance with all the activities of the academic year which includes

1. Class committee meetings.
2. Internal assessment schedule.
3. Syllabus coverage schedule.

For the attainment of course outcome schedule is checked by HOD.

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

DINDIGUL-PALANI HIGHWAY, DINDIGUL-624 002

CALENDAR FOR THE ACADEMIC YEAR 2023-2024 (ODD-SEM) (UG V, VII SEMESTERS)

JULY 2023			AUGUST 2023			SEPTEMBER 2023			OCTOBER 2023			NOVEMBER 2023			DECEMBER 2023		
DATE	DAY	SCHEDULE	DATE	DAY	SCHEDULE	DATE	DAY	SCHEDULE	DATE	DAY	SCHEDULE	DATE	DAY	SCHEDULE	DATE	DAY	SCHEDULE
1	SAT		1	TUE		1	FRI	Unit II Completion	1	SUN		1	WED		1	FRI	
2	SUN		2	WED		2	SAT		2	MON	Gandhi Jayanthi	2	THU		2	SAT	
3	MON		3	THU		3	SUN		3	TUE	IT-2 (VII Semester)	3	FRI		3	SUN	
4	TUE		4	FRI		4	MON		4	WED	IT-2 (VII Semester)	4	SAT		4	MON	
5	WED		5	SAT		5	TUE		5	THU	IT-2 (VII Semester)	5	SUN		5	TUE	
6	THU		6	SUN		6	WED	Sri Krishna Jeyanthi	6	FRI	Sub. of IT-2 Marks/ RAW for IT-2(VIISem)	6	MON		6	WED	
7	FRI		7	MON		7	THU	IT-1 (VII Semester)	7	SAT		7	TUE	Unit V Completion	7	THU	
8	SAT		8	TUE	CMS for Unit II	8	FRI	IT-1 (VII Semester)	8	SUN		8	WED	IT-2 (V Sem) / IT-3 (VII Sem)	8	FRI	
9	SUN		9	WED		9	SAT	IT-1 (VII Semester)	9	MON	LTP -1/PM-2	9	THU	IT-2 (V Sem) / IT-3 (VII Sem)	9	SAT	
10	MON		10	THU		10	SUN		10	TUE	CCM 3	10	FRI	IT-2 (V Sem) / IT-3 (VII Sem)	10	SUN	
11	TUE		11	FRI		11	MON	Sub. of IT-1 Marks/ RAW for IT-1(VII Sem)	11	WED		11	SAT		11	MON	
12	WED		12	SAT		12	TUE	IT-1 (V Semester)	12	THU	CMS for Unit V	12	SUN	Deepavali	12	TUE	
13	THU		13	SUN		13	WED	IT-1 (V Semester)	13	FRI		13	MON		13	WED	
14	FRI		14	MON	Unit I Completion	14	THU	IT-1 (V Semester)	14	SAT		14	TUE	Sub. of IT-2, 3 Marks / RAW for IT (V & VIISem)	14	THU	
15	SAT		15	TUE	Independence Day	15	FRI	Sub. of IT-1 Marks/ RAW for IT-1(VSem)	15	SUN		15	WED		15	FRI	
16	SUN		16	WED	CCM-1	16	SAT		16	MON		16	THU	Lab Model Exam / DSM 5	16	SAT	
17	MON		17	THU	DSM 2	17	SUN		17	TUE		17	FRI	Lab Model Exam / Last Working Day	17	SUN	
18	TUE		18	FRI		18	MON	Sri Vinayaga Chathurthi	18	WED	Unit IV Completion	18	SAT		18	MON	
19	WED		19	SAT		19	TUE	LTP -1/PM-1	19	THU		19	SUN		19	TUE	
20	THU		20	SUN		20	WED	CCM 2	20	FRI		20	MON	UPE Starts (Tentative)	20	WED	
21	FRI		21	MON		21	THU	DSM 3	21	SAT		21	TUE		21	THU	
22	SAT		22	TUE		22	FRI	CMS for Unit IV	22	SUN		22	WED		22	FRI	
23	SUN		23	WED		23	SAT		23	MON	Sri Saraswathi pooja	23	THU		23	SAT	
24	MON	CMS for Unit I	24	THU		24	SUN		24	TUE	Vijayadashami	24	FRI		24	SUN	
25	TUE	DSM 1	25	FRI		25	MON		25	WED		25	SAT		25	MON	Christmas
26	WED	Commencement of Classes	26	SAT	CMS for Unit III	26	TUE	Unit III Completion	26	THU		26	SUN		26	TUE	
27	THU		27	SUN		27	WED		27	FRI		27	MON		27	WED	
28	FRI		28	MON		28	THU	Miladi Nabi	28	SAT		28	TUE		28	THU	
29	SAT	Moharam	29	TUE		29	FRI		29	SUN		29	WED	UTE Starts (Tentative)	29	FRI	
30	SUN		30	WED		30	SAT		30	MON	DSM 4	30	THU		30	SAT	
31	MON		31	THU					31	TUE					31	SUN	
Working Days		4	Working Days		24	Working Days		21	Working Days		21	Working Days		13	Working Days		NA
Cumulative Days		4	Cumulative Days		28	Cumulative Days		49	Cumulative Days		70	Cumulative Days		83	Cumulative Days		NA

DSM - Department Staff Meeting
IT- Internal Test
CMS - Course Material Submission
CCM - Class Committee Meeting

LTP - Letter to Parents
UTE - University Theory Exams
RAW - Remedial Action Work
Total number of working days : 83 days

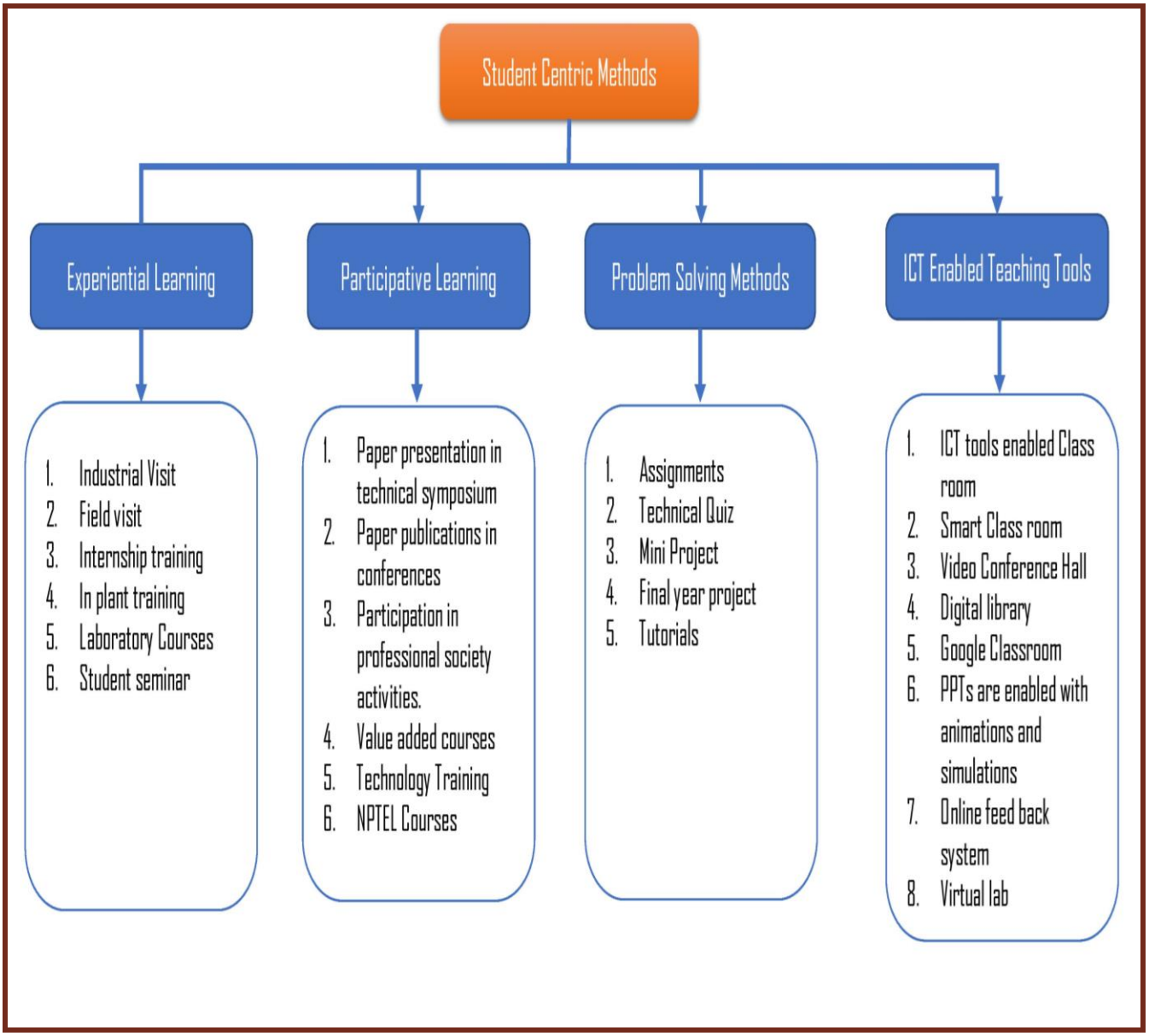
PM - Parents Meeting
UPE - University Practical Exams

Changes in the Academic calendar (if any) will be intimated to the students through circular.

Holiday | Working Day

PRINCIPAL

Pedagogical Initiatives:



Real life examples

1. Hands on projects

2. Experimental learning

3. Industrial visits

Collaborative learning

1. **Collaborative network learning (CNL occurs in interactive groups in which participants actively communicate and negotiate with one another within a contextual framework which may be facilitated by a coach, mentor or group leader)**

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul- Palani Highway, Dindigul – 624 002.

(Approved by AICTE, Affiliated to Anna University, Accredited by NAAC)

Department of Computer Science and Engineering

Innovative Practice

Degree, Semester& Branch: IV Semester B.E. CSE

Course Code & Title: CS3492-Database Management and Systems

Name of the Faculty member: Mrs.J.Dhanalakshmi

Name of the Topic: ER Diagram

Name of the Innovative Practices: Mind Map Session

Date and Duration: 16.04.2024 (5th Hour)

Description:

Problem Solving:

- The activity Problem Solving is a purposeful tool while listening to something interesting. This method used for assessing student performance. Advantage of this technique is that it provides quick feedback on whether the concept is reached to the students.
- Additionally, by asking students to add a question at the end, this assessment becomes an integrative task. Sometimes, instead of asking for the main point, a professor may wish to probe for the most disturbing or most surprising item.

Goals (Learning Outcomes):

- The students will be able to understand the Entity Relationship Concepts.
- The students will be able to draw an ER Diagram for a Real World problem.

Use of appropriate method:

Justification for choosing the following Activities:

Mind map is a visual tool used to organize information graphically. It is hierarchical and represents relationships among parts of the whole. A mind map usually begins with a single concept, and then drawn as an image in the center of a blank page, where associated representations ideas will be added, such as words

and images. Main ideas will be connected directly to the central concept, and other sub topics branch out from the major ones. Mind mapping helps to think, collect knowledge, remember and create ideas.

Effective Presentation: (Implementation (Plan & Execution) with Proof):

- **Problem Solving:** All the students are participated in this activity.

2. **Computer supported collaborative learning (CSCL systems use technology to control and monitor interactions, to regulate tasks, rules, and roles, and to mediate the acquisition of new knowledge)**

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Dindigul- Palani Highway, Dindigul – 624 002.

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Department of Computer Science and Engineering

Innovative Teaching

Year/Sem: II/III

Subject Code & Name: CS3391-Object Oriented Programming

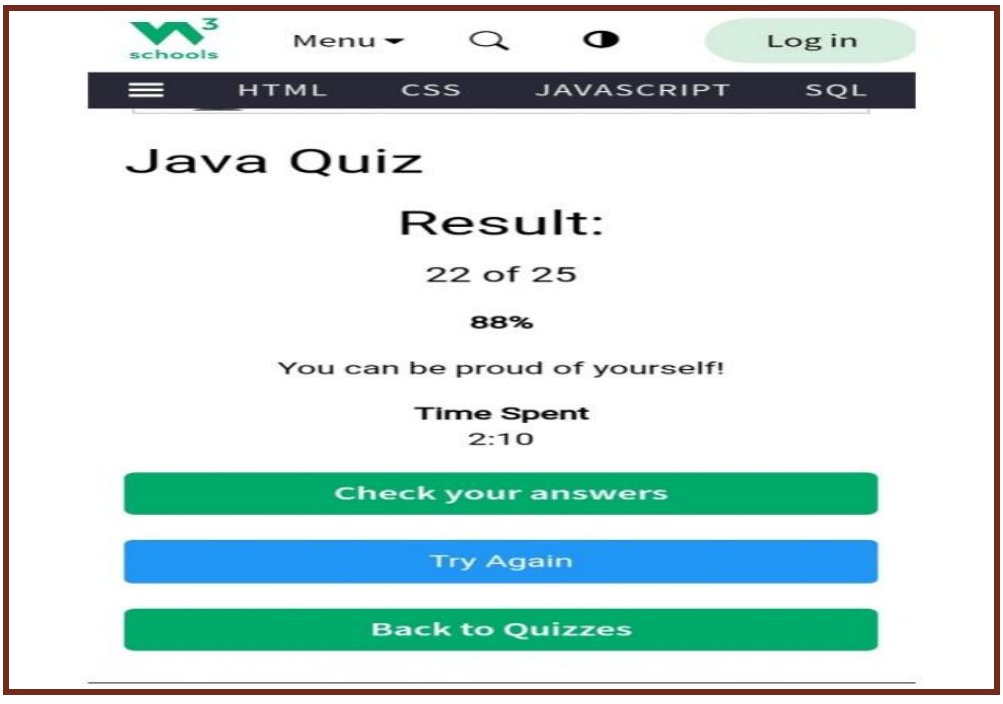
Faculty Handling: N. Anu Lavanya

MCQ

Students are asked to attend the quiz using the below link.

Enclosure: https://www.w3schools.com/java/java_quiz.asp

922122244002- Dhanachellam K.D



4. Learning Management system (Virtual Classrooms (i.e. geographically distributed classrooms linked by audio-visual network connections).

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Department of Computer Science and Engineering

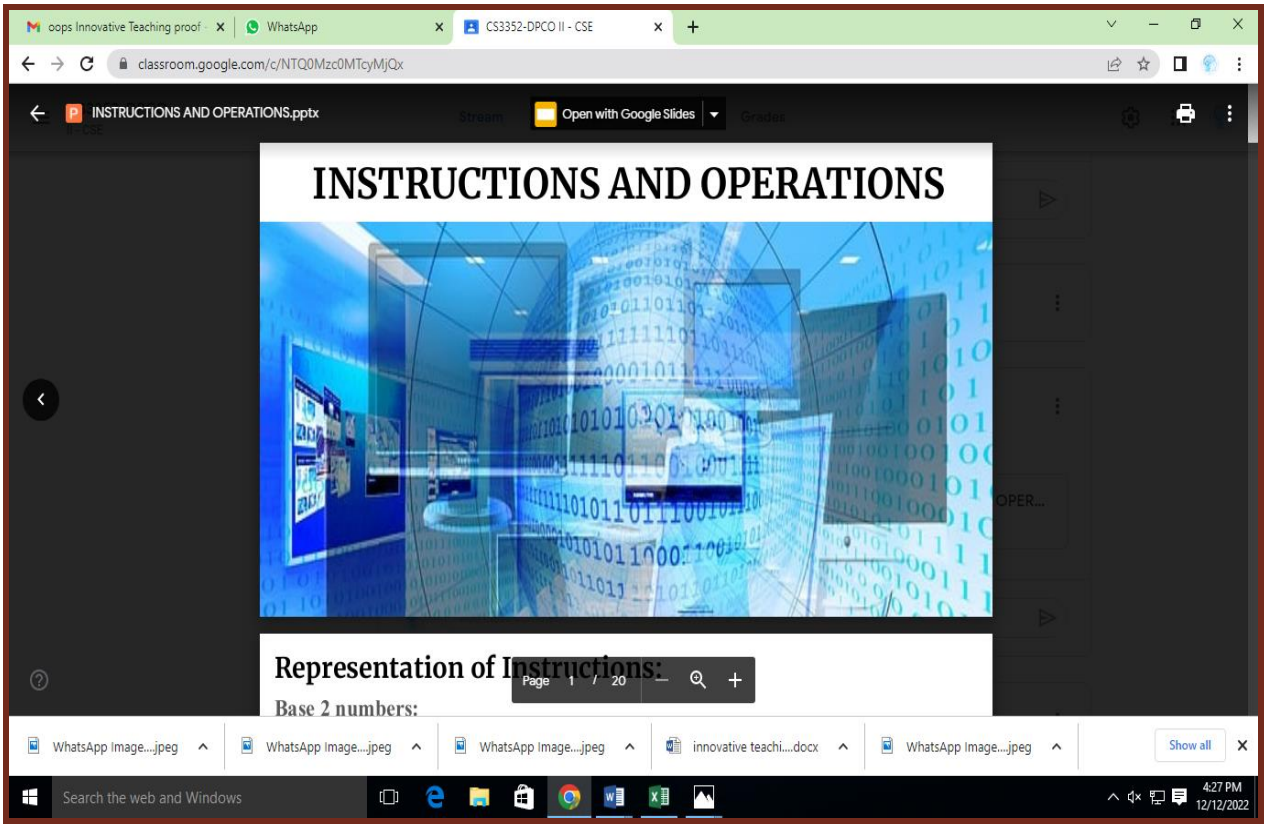
Sem/Year: III/ II

Subject Code& Name: CS 3351/ Digital Principles and Computer Organization

Faculty Handling: Ms N.J Divya, AP/CSE

COMPUTER-ASSISTED TEACHING AND LEARNING (Smart Classroom)

PRESENTATION



5. Student presentations

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Department of Computer Science and Engineering

Subject Code: CS3492-Database Management Systems **Year/Sem: II/IV**

Date: 21.05.2024

SEMINAR

Seminar topics were given on Implementation Techniques to II year CSE students for the following topics.

Sl.No	Student Name	Seminar Topic
1.	Sangeeth.N	Algorithm for Sorting and Join
2.	Pravin.M	File Organization
3.	Kanisha.G	Hashing Techniques
4.	Sarathy.V	B+ Tree
5.	SakthiHariharan.V	B Tree

5. Role play

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution)
Dindigul palani highway, Dindigul – 624 002, Tamil Nadu
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date:09.09.2024

Circular

The faculty coordinators are for Intra Department symposium Utsav on 7th, 8th, and 9th **October** 2024 as follows

S.No	Event Name	Date	Event Time	Venue	Faculty coordinators	Student coordinators
1	Paper Presentation (2 per team)	7.10.2024	9.00 am to 10.30 am	Video Conference Hall	Dr S.Sudhakar,AsP/CSE Mrs.A.Aldo Tenis, AsP/CSE Dr.M.Nanmalar AP/CSE	S.Karpagam M.Nivethitha S.Pavithraharini
2	JAM (1 per team)		10.30am to 11.30 pm	IV-CSE Class Room	Mrs.A.Padma priya, AP/CSE Mrs.RaniMangammal,AP/CSE	J.Umar Farook K.Thameem Raja S.MeenaS.Dharshini
3	Non-Technical Connection (3 per team)		11.30 am to 12.30pm	III-CSE Class Room	Mrs T.RaniMangammalAP/CSE Mrs.J.Dhanalakshmi, AP/CSE	V.Vishwa Darshini S.Sakthi Priya N.Sathiya Priya J.Turin Petci
4	Bug Buster (2 per team)	8.10.2024	9.00 am to 10.30 am	CSE Lab 2A&2B	Mrs.S.Suganya AP/CSE Mrs.J.Dhanalakshmi, AP/CSE	S.Dhiyanesh K.Anand Charukesan
6	Technical Connection (3 per team)		10.45 am to 11.45 am	III-CSE Class Room	Mrs K.Sureka AP/CSE Mrs D.Rekha AP/CSE Ms.V.Sudharsana, AP/CSE	J.Anisha J.Kaviya S.Kishor Kumar M.Syed Musharaf
7	Art from Waste (2 per team)		11.45am to 12.30pm	II –CSE Classroom	Mrs.A.Aldo Tenis, AsP/CSE Mrs.M.Moohambikai, AP/CSE Mrs.S.Suganya AP/CSE	R.Devaki N.Aarthi B.Manikandan C.Madhavaraj
8	Poster Design (2 per team)	9.10.24	9.00 am to 9.30 am	CSE Lab 2A&2B	Mrs.M.Moohambikai, AP/CSE Ms.V.Sudharsana, AP/CSE Mr.P.V.Samuel Devakumar, AP/CSE	T.Vijayalakshmi K.Bavani S.Santhana Kaleeswari
9	IPL Blitz (3 per team)		9.35 am to 11.00 am	III-CSE Class Room	Dr S.Sudhakar,AsP/CSE Dr.M.Nanmalar AP/CSE Mr.P.V.SamuelDevakumar,AP/CSE	M.KarthekeyanS. Indhira Raj S.Jeyaraman T.Srinivasan
10	Mystical Sketch (1 per team)		11.45am to 12.30pm	IV-CSE Class Room	Mrs.A.Padma priya, AP/CSE Mrs K.Sureka AP/CSE Ms.V.Sudharsana, AP/CSE	N.B.Amirtha Shree S.Harini S.Jeya Shree R.Mahima
11	Short-Film (4 per Team)		-	-	All CSE Faculty Members	M.Sherin Sithara D. Manthra Sri M.Kaja Lakshmi P.Mahendran

Coordinators
K.Sureka, AP/CSE
S.Suganya, AP/CSE

Student Coordinators
V. Manoj Kumar, IV/CSE
C.Vaishnavi, IV/CSE

HoD/CSE 12/9/24
Dr.C.Sujatha

To be circulated to: II CSE III CSE IV CSE

6. Quiz

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul- Palani Highway, Dindigul – 624 002.

(Approved by AICTE, Affiliated to Anna University, Accredited by NAAC)

Department of Computer Science and Engineering

Year/Sem/: II/III

Subject Code & Name: CS3301 Data Structures

Faculty Handling: S.SUGANYA

Topic: UNIT II

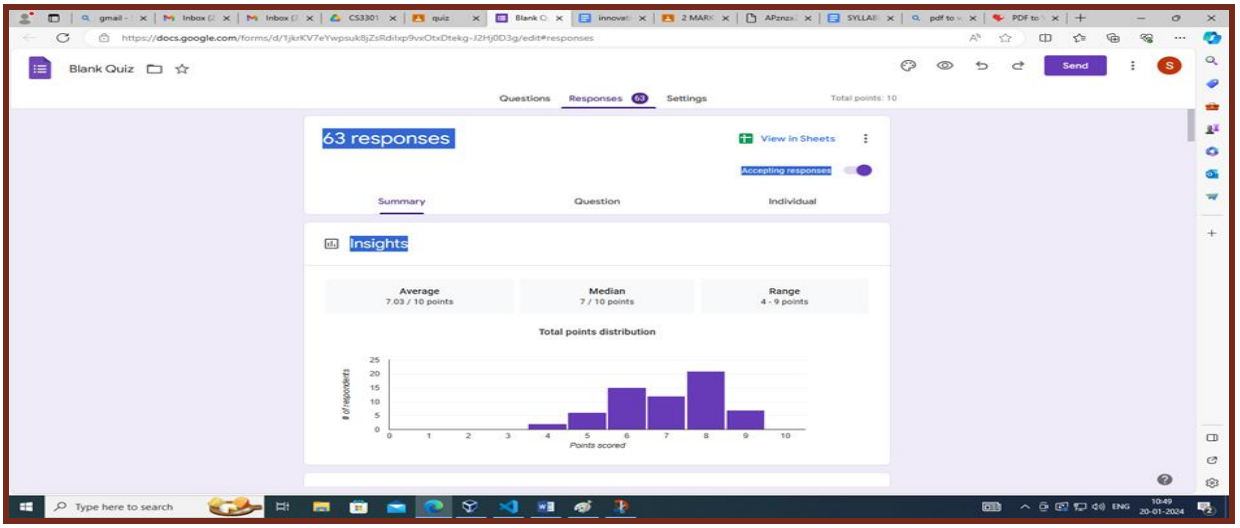
MCQ IN GCR

Students of II year go through the link given below and answer the given questions.

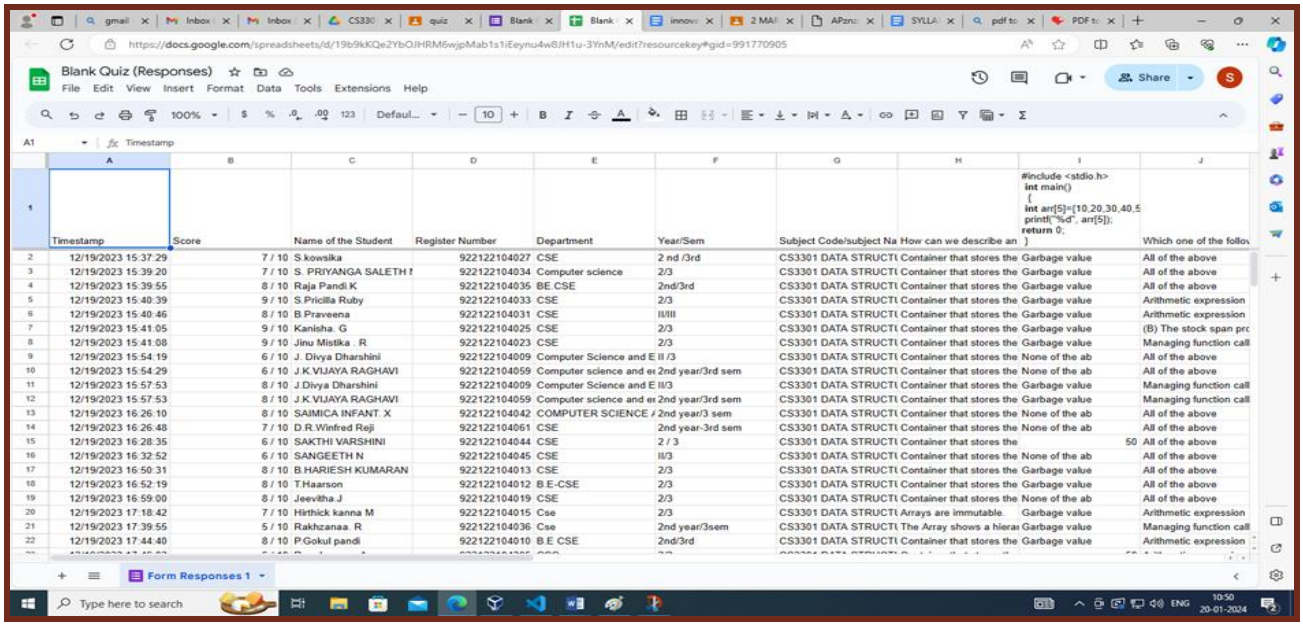
https://classroom.google.com/c/NjI1Mzc3MzA5NTAy/a/NjQ5OTYwNTI0NDg0/details

Blank Quiz - Google Forms

Generally, an MCQ consists of a problem, known as a stem, which is then followed by a series of alternative answers. Students generally choose one of these answers in relation to the problem or question posed.

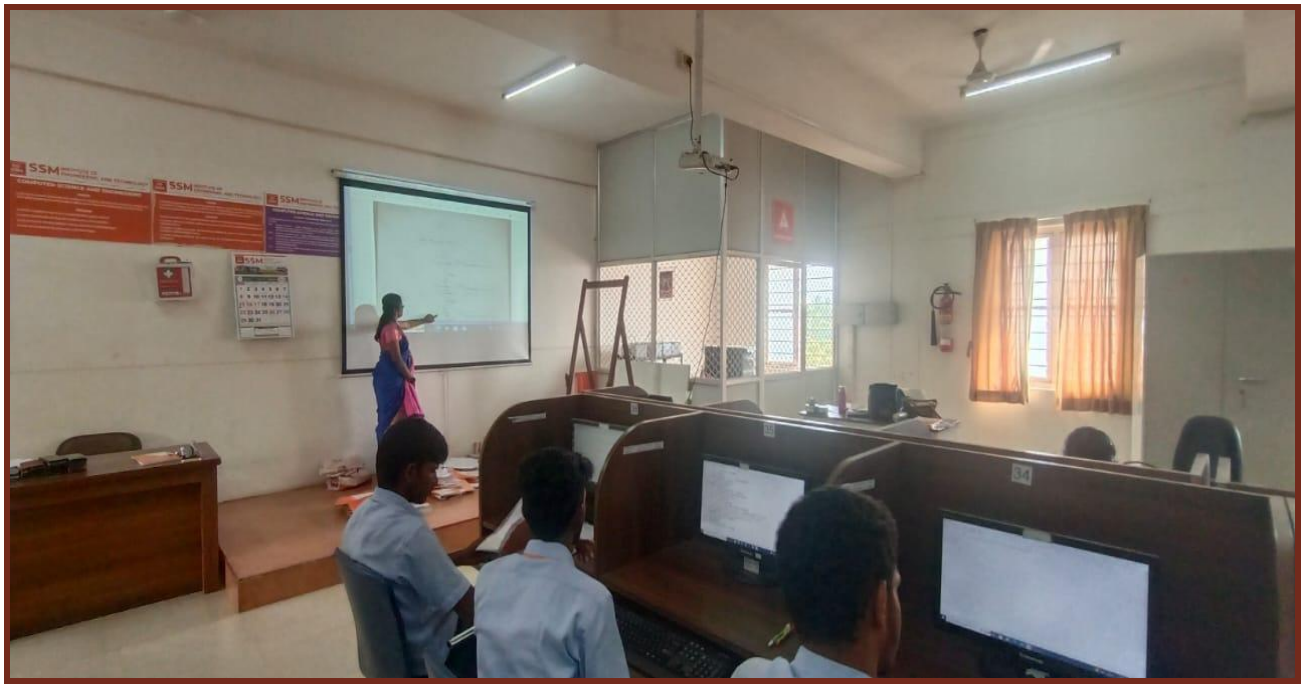


If the module/subject learning outcome is requiring to access the ability of the student to demonstrate their understanding then following example could be an option.



Blank Quiz (Responses)

Timestamp	Score	Name of the Student	Register Number	Department	Year/Sem	Subject Code/subject Na	How can we describe an		Which one of the follo
12/19/2023 15:37:29	7 / 10	S.kowsika	922122104027	CSE	2 nd /3rd	CS3301 DATA STRUCTI	Container that stores the	Garbage value	All of the above
12/19/2023 15:39:20	7 / 10	S. PRIYANGA SALETH I	922122104034	Computer science	2/3	CS3301 DATA STRUCTI	Container that stores the	Garbage value	All of the above
12/19/2023 15:39:55	8 / 10	Raja Pandi.K	922122104035	BE CSE	2nd/3rd	CS3301 DATA STRUCTI	Container that stores the	Garbage value	All of the above
12/19/2023 15:40:39	9 / 10	S.Pricilla Ruby	922122104033	CSE	2/3	CS3301 DATA STRUCTI	Container that stores the	Garbage value	Arithmetic expression
12/19/2023 15:40:46	8 / 10	B.Praveena	922122104031	CSE	II/III	CS3301 DATA STRUCTI	Container that stores the	Garbage value	Arithmetic expression
12/19/2023 15:41:05	9 / 10	Kanisha. G	922122104025	CSE	2/3	CS3301 DATA STRUCTI	Container that stores the	Garbage value	(B) The stock span pro
12/19/2023 15:41:08	9 / 10	Jinu Mistika . R	922122104023	CSE	2/3	CS3301 DATA STRUCTI	Container that stores the	Garbage value	Managing function call
12/19/2023 15:54:19	6 / 10	J. Divya Dharshini	922122104009	Computer Science and E	II /3	CS3301 DATA STRUCTI	Container that stores the	None of the ab	All of the above
12/19/2023 15:54:29	6 / 10	J.K.VIJAYA RAGHAVI	922122104059	Computer science and ex	2nd year/3rd sem	CS3301 DATA STRUCTI	Container that stores the	None of the ab	All of the above
12/19/2023 15:57:53	8 / 10	J.Divya Dharshini	922122104009	Computer Science and E	II/3	CS3301 DATA STRUCTI	Container that stores the	Garbage value	Managing function call
12/19/2023 15:57:53	8 / 10	J.K.VIJAYA RAGHAVI	922122104059	Computer science and ex	2nd year/3rd sem	CS3301 DATA STRUCTI	Container that stores the	Garbage value	Managing function call
12/19/2023 16:26:10	8 / 10	SAIMICA INFANT. X	922122104042	COMPUTER SCIENCE /	2nd year/3 sem	CS3301 DATA STRUCTI	Container that stores the	None of the ab	All of the above
12/19/2023 16:26:48	7 / 10	D.R.Winfred Reji	922122104061	CSE	2nd year-3rd sem	CS3301 DATA STRUCTI	Container that stores the	None of the ab	All of the above
12/19/2023 16:28:35	6 / 10	SAKTHI VARSHINI	922122104044	CSE	2 / 3	CS3301 DATA STRUCTI	Container that stores the	50	All of the above
12/19/2023 16:32:52	6 / 10	SANGEETH N	922122104045	CSE	II/3	CS3301 DATA STRUCTI	Container that stores the	None of the ab	All of the above
12/19/2023 16:50:31	8 / 10	B.HARIESH KUMARAN	922122104013	CSE	2/3	CS3301 DATA STRUCTI	Container that stores the	Garbage value	All of the above
12/19/2023 16:52:19	8 / 10	T.Haarson	922122104012	B.E-CSE	2/3	CS3301 DATA STRUCTI	Container that stores the	Garbage value	All of the above
12/19/2023 16:59:00	8 / 10	Jeevitha.J	922122104019	CSE	2/3	CS3301 DATA STRUCTI	Container that stores the	None of the ab	All of the above
12/19/2023 17:18:42	7 / 10	Hirthick kanna M	922122104015	Cse	2/3	CS3301 DATA STRUCTI	Arrays are immutable.	Garbage value	Arithmetic expression
12/19/2023 17:39:55	5 / 10	Rakhzanaa. R	922122104036	Cse	2nd year/3sem	CS3301 DATA STRUCTI	The Array shows a hierar	Garbage value	Managing function call
12/19/2023 17:44:40	8 / 10	P.Gokul pandi	922122104010	B.E CSE	2nd/3rd	CS3301 DATA STRUCTI	Container that stores the	Garbage value	Arithmetic expression



ICT supportive learning

The following teaching – learning methods are being used by the faculty for better content delivery

1. Animation

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul- Palani Highway, Dindigul – 624 002.

(Approved by AICTE, Affiliated to Anna University, Accredited by NAAC)

Department of Computer Science and Engineering

Year/Sem: III/VI

Subject Code & Name: CCS370/UI and UX Design

Faculty Handling: N. J Divya

Date: 28.02.24

PROBLEM BASED LEARNING

Students of III year class have been segregated into different batches and problem with real world customers was identified and design a solution using UI and UX tool of Figma.

Sample project

Problem Statement: Travelers often struggle to find concise and relevant information when researching destinations on travel blogs. They feel overwhelmed by lengthy articles and cluttered layouts, making it difficult to quickly find the information they need to plan their trips efficiently.

Solution:

Proposed Solution: Designing a user-friendly travel blog website in Figma that prioritizes simplicity and accessibility, focusing on presenting key information in a clear and organized manner to help travelers easily discover and plan their trips.

1. Design Objectives:

The design objectives focus on creating a user-friendly and visually appealing travel blog website that simplifies the process of discovering and planning trips for travelers. This includes prioritizing simplicity, accessibility, and engaging visual storytelling to enhance the overall user experience.

2. End-to-End User Research:

Research Objective:

The research objectives aim to gain insights into the needs, preferences, and pain points of travellers when using travel blogs. This includes understanding how users currently navigate and interact with travel content online and identifying opportunities to improve the user experience.

Timeline:

Conducting user research, both qualitative and quantitative, typically spans 4-6 weeks, including planning, data collection, analysis, and reporting phases.

Product Survey:

1. Is the website easy to navigate?
2. Does the website load quickly?
3. Are the travel recommendations relevant to your interests?
4. Is the content visually engaging?
5. Do you find the information provided helpful for planning your trips?
6. Would you recommend this website to a friend?
7. Did you encounter any technical issues while using the website?
8. Did you find it easy to search for specific destinations or topics?
9. Did you feel inspired by the content on the website?
10. Did you find the website layout and design visually appealing?

Google form of the survey:
https://docs.google.com/forms/d/e/1FAIpQLSfVrjg6mBIqAzICJR04vItC9cwAVXs7Kb_wVaXRpr2fLOAJA/viewform?usp=pp_url

Qualitative Research:

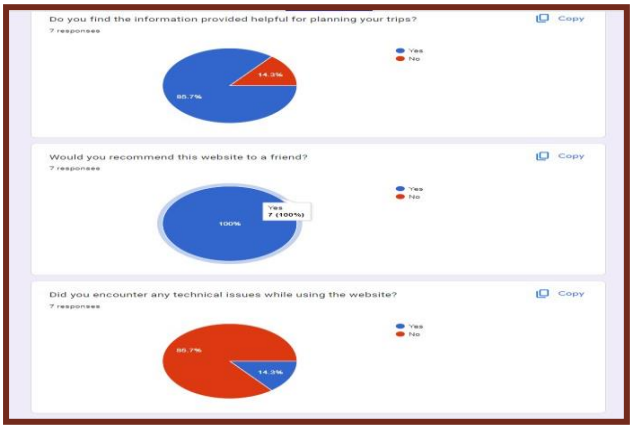
Qualitative research involves gathering in-depth insights and opinions from users to understand their experiences, preferences, and motivations. Based on the provided questions, qualitative research can involve conducting interviews or focus groups with a smaller group of participants to delve deeper into their responses and gather rich qualitative data. Participants can provide detailed explanations and anecdotes about their experiences, allowing researchers to identify trends, patterns, and areas for improvement.

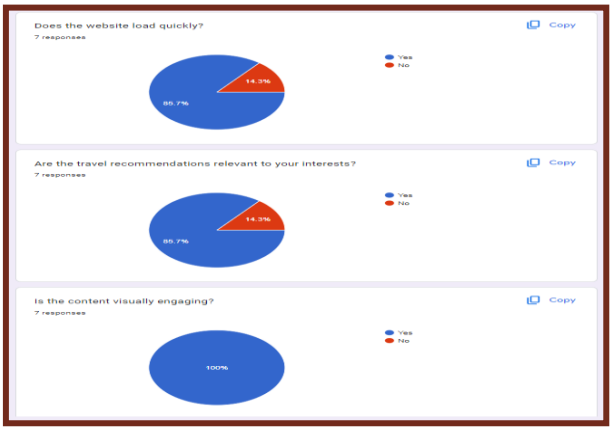
Quantitative Research:

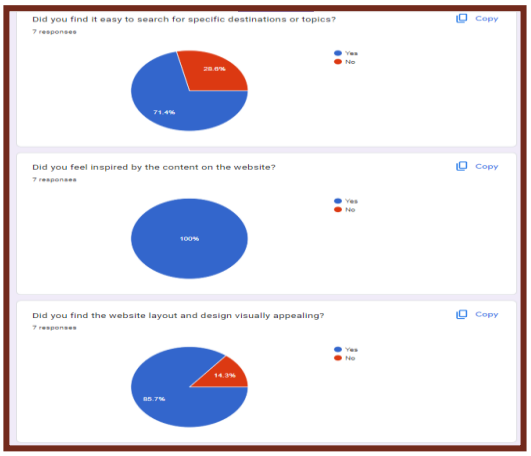
Quantitative research involves collecting numerical data and statistical analysis to measure users' perceptions and behaviors objectively. Based on the provided questions, quantitative research can be conducted through online surveys distributed to a larger sample of participants. Participants can rate their responses on a numerical scale or select predefined options, allowing researchers to quantify user feedback and identify trends and correlations across the dataset. Statistical analysis can be used to analyze the survey results and draw statistically significant conclusions about users' preferences and satisfaction levels with the travel blog website.

Survey Analysis:

Quantitative research involves online survey of 10 question which were taken from 10 peoples and the followings we are finding:







Creating User Personas:

Names: Sarah

Age: 34

Occupation: Marketing Manager Location: Bangalore

Education: ME CSE

Sarah:

Sarah is a driven and busy professional working as a marketing manager at a tech company. She leads a hectic lifestyle, juggling between her demanding job and personal commitments. Despite her busy schedule, Sarah loves to travel during her vacations to unwind and explore new destinations. She values authentic experiences and seeks opportunities to immerse herself in local cultures and cuisines**.**

Goals:

1. Wants to find off-the-beaten-path destinations and local experiences that align with her interests.

2. Seeks travel inspiration and insider tips to capture stunning photographs during his trips.

3. Aims to efficiently plan her trips to maximize her limited leisure time and make the most of her travel experiences.

Pain Points:

1. Finds it challenging to sift through excessive information and cluttered layouts on travel blogs.

2. Struggles to find authentic and unique travel recommendations beyond popular tourist attractions.

3. Feels overwhelmed by conflicting travel advice and unreliable information when planning her trips.

Needs:

User personas represent the diverse needs and preferences of travelers, guiding the design and development of the travel blog website to address their specific goals and pain points effectively.

Ideation Process:

Why It Is Happening:

1. Users are overwhelmed by the abundance of travel information online, leading to decision fatigue and uncertainty during trip planning. Existing travel blog websites often prioritize quantity over quality, resulting in cluttered layouts and inconsistent user experiences.

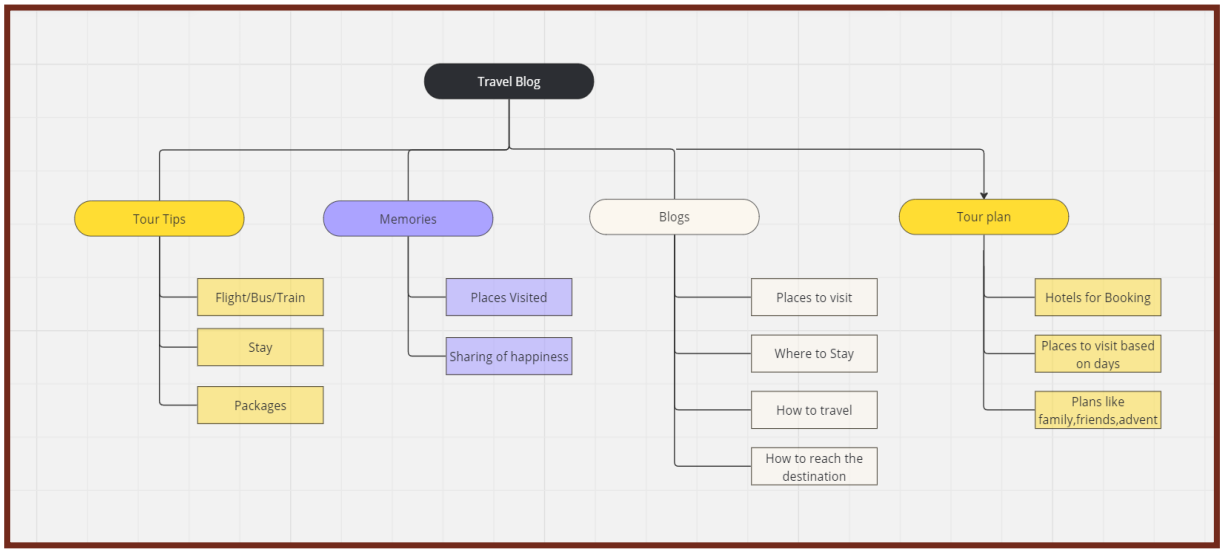
2. Travelers seek personalized and reliable recommendations to enhance their travel experiences and discover unique destinations and activities.

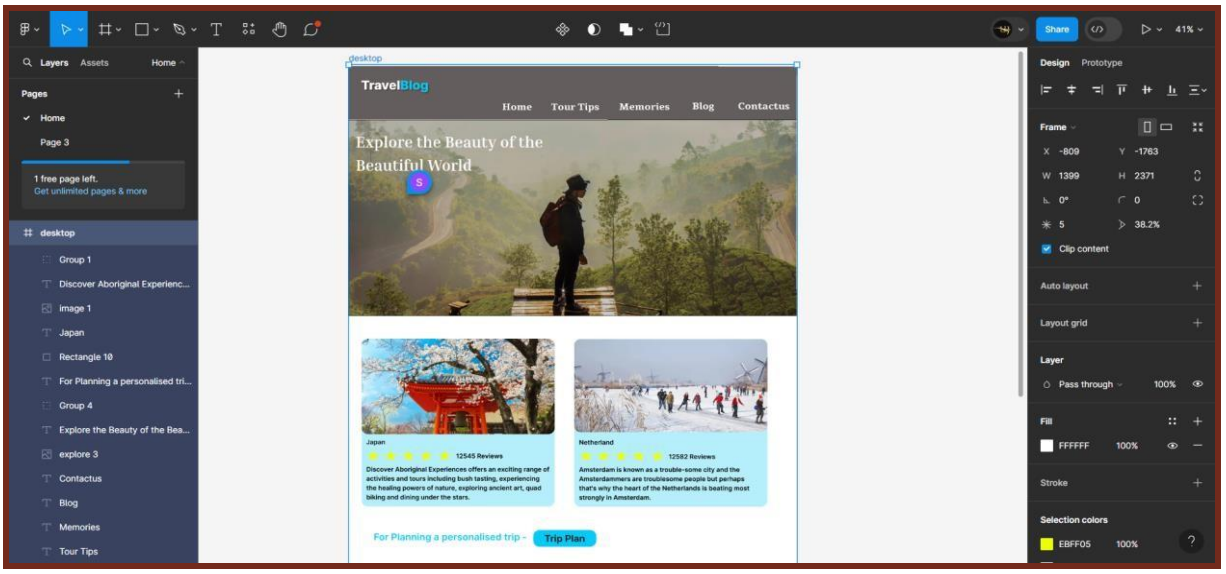
What Can We Do?

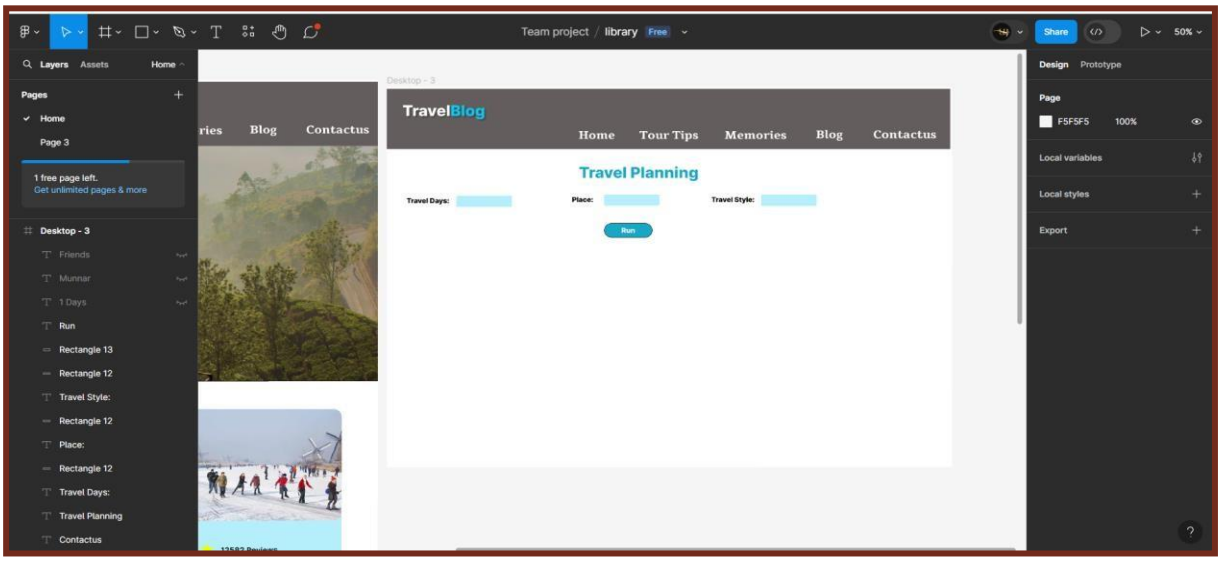
1. Simplify the user interface and streamline the content to prioritize clarity and ease of navigation for users.

2. Curate high-quality and visually appealing travel content, including captivating imagery and engaging storytelling, to inspire and inform users

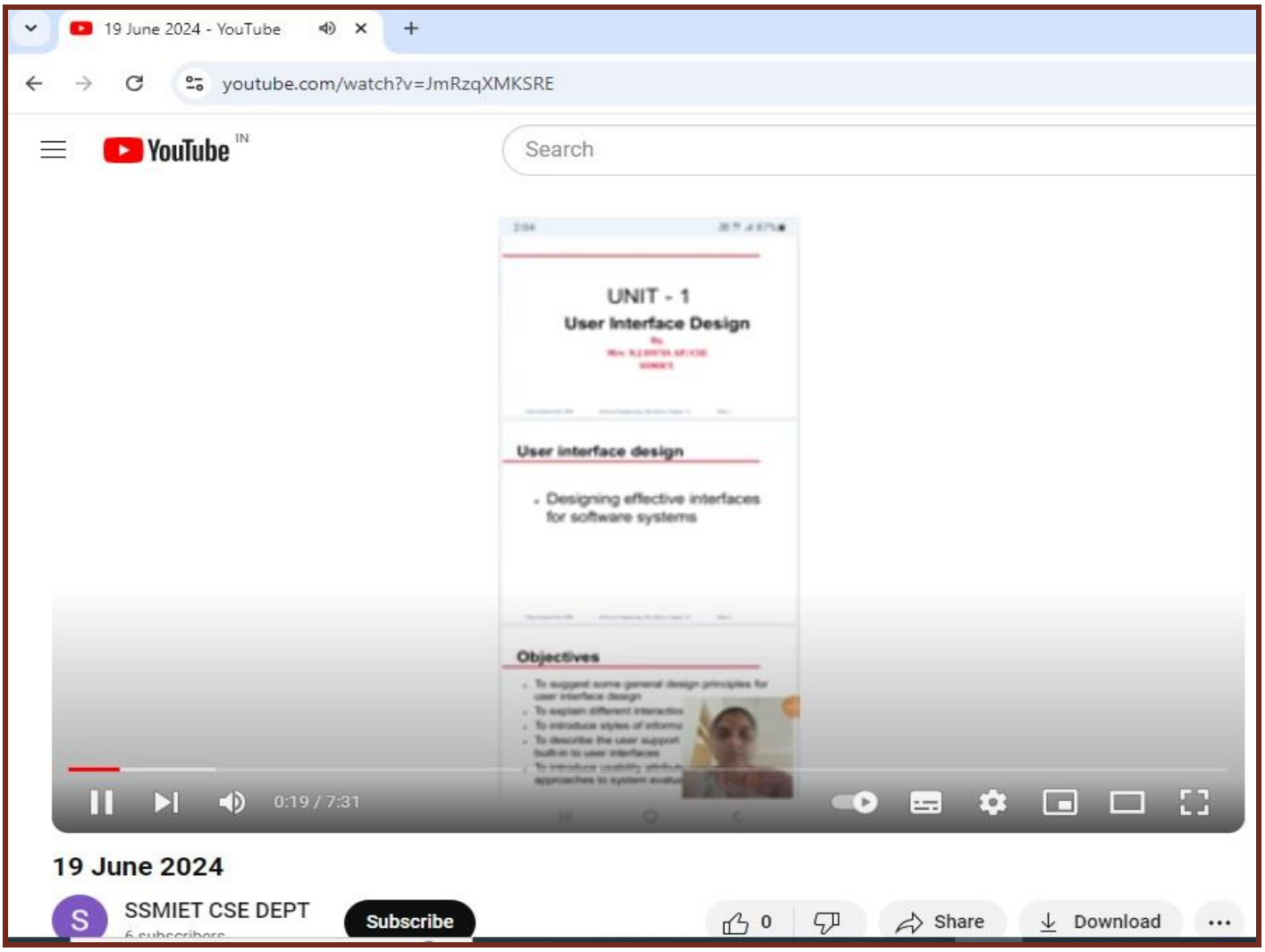
Flow chart:





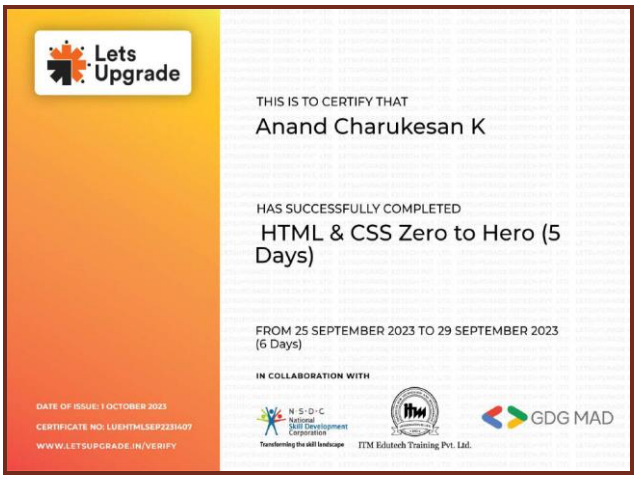


2.You tube demos



3. e-learning resources:

S.NO	E-LEARNING RESOURCES	NUMBER OF STUDENTS CERTIFIED	SAMPLE CERTIFICATES
1	NPTEL	09	
2	Infosys Springboard	01	
3	Mind luster	03	

4	Great Learning	02	
5	Coursera	02	
6	Accenture	03	
7	Lets Upgrade	02	

8	IBM Cognitive Class	02	
9	Microsoft Virtual Academy	04	

Methodologies to Support Slow Learners and to Encourage Elite Students.

a. Appointment of Class Coordinators and Mentors:

The department has appointed Class coordinators for each semester to monitor a class of students.

Student Mentor is also appointed for every 20 students entering in the First year. This Mentor establishes a close relationship with each student, orients them to college practices, follows their progress regularly (e.g., with at least fortnightly/monthly meetings) and guides them throughout the four-year course.

The class coordinator will take care of academic performance of the whole class and coordinates teaching learning process implementation.

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Phone: 0451–2448800–99 (100 Lines) Fax: 0451–2448855.

Department of Computer Science and Engineering

02.01.2024

RESPONSIBILITIES ALLOCATION

Academic Year: 2023 – 2024 **Semester: EVEN**

Sl. No.	Faculty Name	NBA	NAAC	DEPARTMENT/ INSTITUTION RESPONSIBILITY	Mentoring	Remarks
1	Dr. C. SUJATHA	Coordinator	Coordinator	Head of the Department	-	
2	Dr. G. PRABU	Criterion 9	Criterion 6	Autonomous coordinator, Lab I In-charge, Build Club – SPOC, R & D, Budget I/C.	IV CSE	
3	Mrs. M.MOOHAMBIKAI	Criterion 5	Criterion 3	Time Table I/C, Faculty Activity, Association In-charge, Class In-charge (III CSE).	III CSE (I/C)	
4	Mrs. A. ALDO TENIS	Criterion 7	Criterion 2 (Assist)	IIC (Assist), MoM In-charge, Association (Assist) , Stationary I/C.	III CSE	
5	Mr. G.MURUGAN	Criterion 10	Criterion 5	Placement I/C, IIC I/C, NIRF, CSI Chapter I/C, Class In-charge (II CSE)	II CSE (I/C)	
6	Mrs. S. SUGANYA	Criterion 6	Criterion 4	Exam Cell I/C, Course File I/C, MoU I/C	II CSE	
7	Ms. N. ANU LAVANYA	Criterion 2	Criterion 2	Naan Mudhalvan coordinator, Student Activity I/C, IQAC.	III CSE	
8	Mrs. J.DHANALAKSHMI	Criterion 3	Criterion 1	Class In-charge (IV CSE), Affiliation, CSI Chapter, Course File I/C	IV CSE (I/C)	
9	Mrs. N.J. DIVYA	Criterion 1	Criterion 6 (Assist)	Admission I/C, Scholarship I/C, Alumni I/C.	IV CSE	
10	Mrs. A. PADMA PRIYA	Criterion 4	Criterion 7	Class In-charge (II CSBS),Exam cell I/C (CSBS & AIDS), MoM (Assist)	II CSBS (I/C)	
11	Mrs.T.RANI MANGAMMAL	Criterion 4 (Assist)	Criterion 7 (Assist)	R & D (Assist), Library I/C.	II CSE	
12	Mr. R. RAVI	Criterion 6 (Assist)	Criterion 4 (Assist)	Website In-Charge (Assist)	III CSE	
13	Ms. V. SUDHARSANA	Criterion 3 (Assist)	Criterion 1 (Assist)	Exam cell(Assist)	-	
14	Mrs.S.DIVYA	Criterion 2 (Assist)	Criterion 2 (Assist)	Industrial Visit I/C, Profiling I/C	II CSBS	
15	Mrs.R. ANITHA	Criterion 5 (Assist)	Criterion 3 (Assist)	Faculty Activities (Assist), Event In-charge (Assist)	II AIDS	
16	Mrs.DEVI BALA	Criterion 10 (Assist)	Criterion 5 (Assist)	Time Table In-charge (AIDS & CSBS)	II AIDS (I/C)	
17	Mr.SAMUEL DEVAKUMAR	Criterion 5 (Assist)	Criterion 3 (Assist)	Website In-charge, UBA Coordinator	-	
18	Mrs.D.DEVI SHREE	Criterion 9 (Assist)	Criterion 5 (Assist)	Time Table (Assist), Budget (Assist)	-	

Time Table I/C

HoD/CSE 2/1/24

b. Diagnosing and Tracking Student Performance and Attendance:

The performance of students is reviewed by each course teacher during the semester. Based on the marks obtained in their assessment, the students are identified as slow learners, if they score less than 50 % in each subject.

Year II- Semester III Name of the Mentor & Dept: Mrs S. Suganya, AP – CSE

Subject Code	Subject Name	Unit Test (100) I	Unit Test (100) II	Internal Test(100) I	Internal Test(100) II	Internal Test(100) III	Model Exam 100	Internal Marks 20	Univ. Exam Grade	Month & Year of Passing
MA3354	Discrete Mathematics			60	54			39	A+	
CS3351	DPCO			59	59			49	A+	
CS3352	FDS			58	57			38	A+	
CS3301	Data Structure			59	56			39	O	
CS3391	Oops			56	59			39	A+	
CS3311	Data Structure DS Lab							59	O	
CS3351	DPCO Lab							49	O	
CS3381	Oops Lab							58	O	
CS3361	Data Science DS Lab							58	O	
Percentage / CGPA									8.94	
Sign. of Mentor										
Sign. of HoD										

Total No.of hours: 581 No.of hours present: 559 Attendance(%): 96.2

Sign.of.Father/Mother/Guardian:.....Prinicipal:.....

Details of Leave

S.No.	Date of Leave	Reason	With / Without Permission	Number of Days	Cumulative no.of days	Student's Signature	Mentor's Signature
1	25-10-23	Throat pain	With	1	1	M.Dhi	
2	3-11-23	Fever	With	1	2	M.Dhi	
3	23-11-23	Going to temple	With	1	3	M.Dhi	
4							
5							
6							
7							
8							
9							
10							

The efforts will be made to strengthen teaching, and/or provide additional teaching as needed. Reviewing student attendance in connection with performance, and advising students about attending classes, making up classes missed, and giving additional help are also useful.

20.9.23
Instructions for Mentoring
Instructions for proper dress code.
Discuss about NP Tech online courses.

27.9.23
Discuss about subject related queries.
how to participate competitions in other colleges.

04.10.23
Placements regarding information are discussed

25/10/23
About fees and placement

29/11/23
Discussion about classes and subjects
About getting solution for problems.
Give a idea about semester exams.

23/2/24 [even] Discussed about College timing changing,
Subject related Queries.
General Discussions.

27/4/24 Discuss about IT1 Exam preparation and notes availability.

11/5/24 3rd semester University Exam Results discussion.

- "Mentee's Performance Record" system is used for each student, and carried through for the four college years.

Roll No: 22RCS008

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MENTEE'S PERFORMANCE RECORD

Name of the student: DHIVYASHREE. M Gender: M/F

Name of the Course: B.E. Branch: CSE Batch: 2022–2026

Mode of Admission: GQ(FG/NFG) / MQ / LE/TR University Registration No.: 922122104008 E-mail ID: haripdhivya39@gmail.com

Aadhar No: 4181 1478 3944

Date of Birth: 01.03.2005 Blood Group: A1+Ve Religion/ Caste: H/Vaniya chettiyar BC

	Name of the Father	Mother	Guardian
	C. Manikandan	M. Muthupetchi	

Staying at: Hostel: I / II / III / IV Dayscholar: I / II / III / IV With Parent: I / II / III / IV With Guardian: I / II / III/ IV

Name of the School / Polytechnic/College Studied: St. Jasoph's Girls hr. Sec. School % of Marks: Cut - off Marks: 181.5

Identification Marks: 1. A mole on a right ring finger
2. A scar on a left leg

Residential Address with Phone No.

	Temporary	Permanent
	SPR Nagar 4th cross,	SPR Nagar 4th cross,
	Rajakkapatti, Thadicombu road,	Rajakkapatti, Thadicombu road,
	Dindigul.	Dindigul.
Emergency Phone	9043103515	8015177818

Specimen Signature of

Father	Mother	Guardian
C-Loganathan	M. Muthupetchi	
C-Loganathan	M. Muthupetchi.	

Employment Details - Official Address with Phone Number & Stamp Size Photo

Father	Mother	Guardian
Mill Worker	Office (work)	Stamp size Photo

c. Improving Academic Performance:

The performance of the slow learners is improved through Tutorial classes, where additional problems are solved and students interact with each other in addition to a faculty member for each 20 students.

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Department of Computer Science and Engineering

List of Advanced and Slow Learners

Academic Year : 2023-2024(Odd Semester) Subject Code & Name:CB3491-Cryptography and Cybersecurity

Class & Semester & Dept: III & V Sem Faculty In-charge: Ms J.Dhanalakshmi, AP/CSE

Advanced Learners

Sl. No.	Register Number	Student Name
1.	922121104024	KIRUTHIKA G
2.	922121104030	MEENA S
3.	922121104043	RAKSHITHA.V.P
4.	922121104049	SHIVANI.K
5.	922121104055	UMAR FAROOK.J
6.	922121104305	SYED MUSHARAF.M

Slow Learners

Sl. No.	Register Number	Student Name
1.	922121104009	DHANUSH PRAVEEN T
2.	922121104015	JEEVA.G
3.	922121104039	PANOJ KUMAR C
4.	922121104303	KANNAN.D.B
5.	922121104302	DANIEL RAJ.L

Action Taken

1. For Advanced Learners we encouraged them to take seminars on advanced concepts and prepare them for taking classes.It will be interactive class and useful for other students also.
2. For slow learners we advised them to go through the notes and important questions posted in GCR Link for better understanding, Give them important questions to study and keep a regular test in their class hours

d. Enhancing Communication and Presentation Skills:

The department in coordination with English department provides slots in English language Laboratory, where students can listen to tapes to improve their English, particularly spoken English in which they are weak. Such students will be given special chances and such opportunities are not only confined to elite students.

Slow Learners are provided with language and soft-skill development throughout their education (not only in the last two or three semesters). This makes the slow learners more interactive and oriented to confidence-building, rather than „exam oriented, ‟ and „job-oriented‟.

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Department of Computer Science and Engineering

Topic: Self Introduction

Topic: Self Introduction

e. Class Room Teaching

Faculty use traditional chalk and board method and also use other methodologies like power point presentations, overhead projections for better understanding of the course. Innovative methods like explaining with the help of models, animations, charts, real time analogies and brain storming are made which make the class room teaching more interactive and interesting.

Tutorial classes are conducted for analytical subjects where a class of students is divided into three groups, each with a teaching faculty. Therefore individual attention can be given to the students to solve the problems.

University questions are solved in the classrooms.

NPTEL materials motivate the faculty, in exploring new teaching methodologies. It helps in the obtaining a sound understanding of the course fundamentals, design and implementation issues, etc.

Increasing Student Participation in the Classroom:

a. The students of different learning abilities are grouped together. The groups are instructed to choose topics from the syllabus, which may be different or the same. The groups are made to present a seminar for 10 to15 minutes each, showing how an issue can be looked at from different perspectives. Making one group of students present and the other groups ask questions is a good method to get students to interact, think and discuss.

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Department of Computer Science and Engineering

Sem/Year: III/ II

Subject Code& Name: CS 3351/ Digital Principles and Computer Organization

Faculty Handling: Ms N.J Divya, AP/CSE

Date: 12.12.2022

FLIPPED CLASSROOM

II Year CSE of 66 students were divided into 11 teams and each with maximum of 6 members allocated and the topics was given priorly to the students in the class. They will prepare the topics and note down the important points in that topic and argue with the opposite team as a debate. From this debate they will explore some unknown facts about that topic.

TEAM MEMBERS:

Team No	Name of the student	Topic Allocated	Team members in
Team 1	AARTHI N	**Assembly Language**	**Team1 and Team3**
	ANISHA J		
	AMIRTHA SHREE		
	JEYA SHREE S		
	KAJALAKSHMI M		
	KAVIYA J		
Team 2	ANAND CHARUKESAN K	**Data Hazards**	**Team 2,4 and 7**
	ANDRUES K		
	ARUN PRAKASH P		
	DHIYANESH S		
	HABIB RAHUMAN K		
	JEYARAMAN S		
Team 3	DHANUSH PRAVEEN T	**High Level Language**	**Team1 and Team3**
	JEEVA G		
	INDHIRARAJ S		
	KARTHEKEYAN M		
	KAVIN P		
	KISHOR KUMAR S		
Team 4	KAVI KANNAN S	**Structural Hazard**	**Team 2,4 and 7**
	MADHAVARAJ C		
	MANIKANDAN B		
	MANOJ KUMAR V		
	MATHAVAN S		
	MOHAMAD RILA M		
Team 5	HARINI S	**Cache Memory**	**Team 5 and Team 6**
	BAVANI K		
	DEVAKI R		
	DHARSHINI S		
	KARPAGAM S		
	KIRUTHIKA G		
Team 6	MAHIMA R	**Control Hazard**	**Team 2,4 and Team 7**
	MANTHRA SRI D		
	MEENA S		
	NIVETHITHA M		
	NITHYABALA M		
	PAVITHRAHARINI S		

b. On-line assignments are also given to increase the student's participation in the classroom and they are also asked to collect other on-line materials including movie clips, simulations, and Laboratory demonstrations given in the syllabus. This enables the „backbenchers" to come to the front, thus making less confident, bored or disruptive students engaged.

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Department of Computer Science and Engineering

Year/Sem: IV/VII

Subject Code & Name: CS8791/Cloud Computing

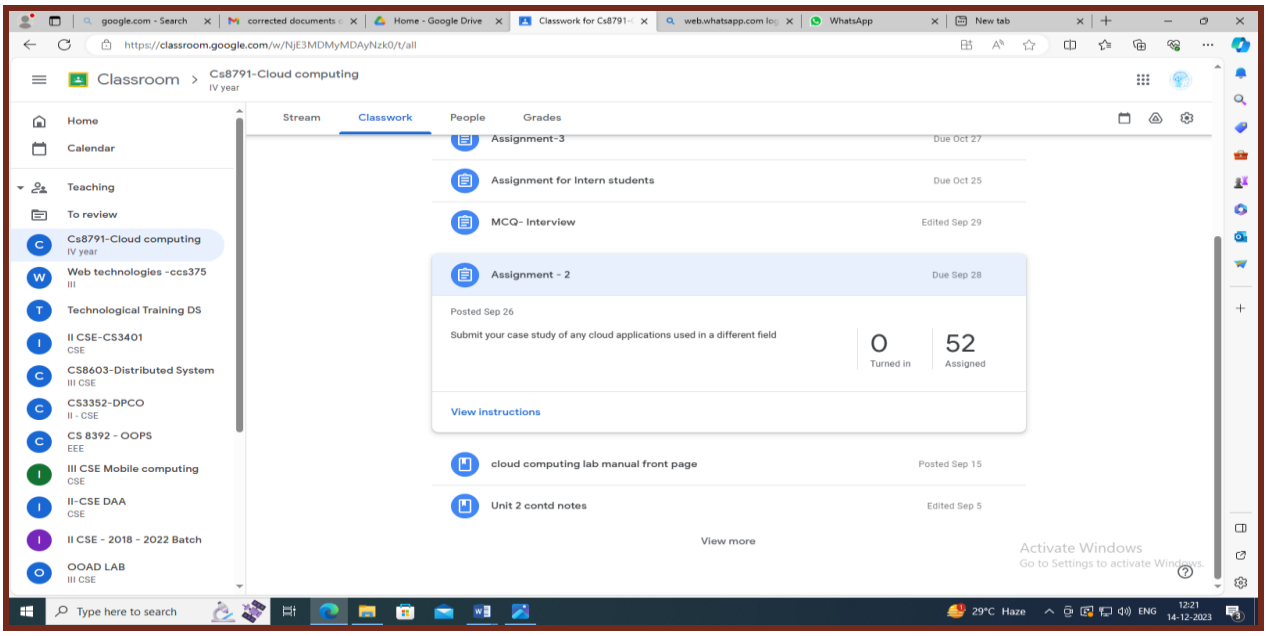
Faculty Handling: N. J Divya

PROBLEM BASED LEARNING AND CASE STUDY

IV year CSE students are asked to submit the case study on or before as per schedule given earlier.

Pick up any real time business application chooses a cloud service and implemented in their application.

After seen a tutorial write a content on your own for the above scenario and submit it in GCR on or **before 06/12/2023.**



Experiments

Faculty prepare laboratory manual well ahead of the semester which includes Do's and Don'ts of the laboratory, list of experiments, the procedure on how the experiments are to be done and sample calculations.

Faculty test runs the experiments before starting of the semester and makes a record in laboratory manual which helps in offering constructive suggestions to the students. In order to attain the COs and POs the following performances Indicators are used as guidelines for the conduction of experiments in the laboratory:

1. Ability to conduct experiment: The students will be able to conduct the entire experiment with negligible help from the faculty Members.

2. Data observation and presentation:

3. Subject Knowledge: The students will fully understand the experiment, including its purpose and results and be able to discuss experimental protocols in a clear and precise manner.

Continuous Assessment in laboratory:

The students are asked to maintain an observation and record of all the experiments done in the laboratory.

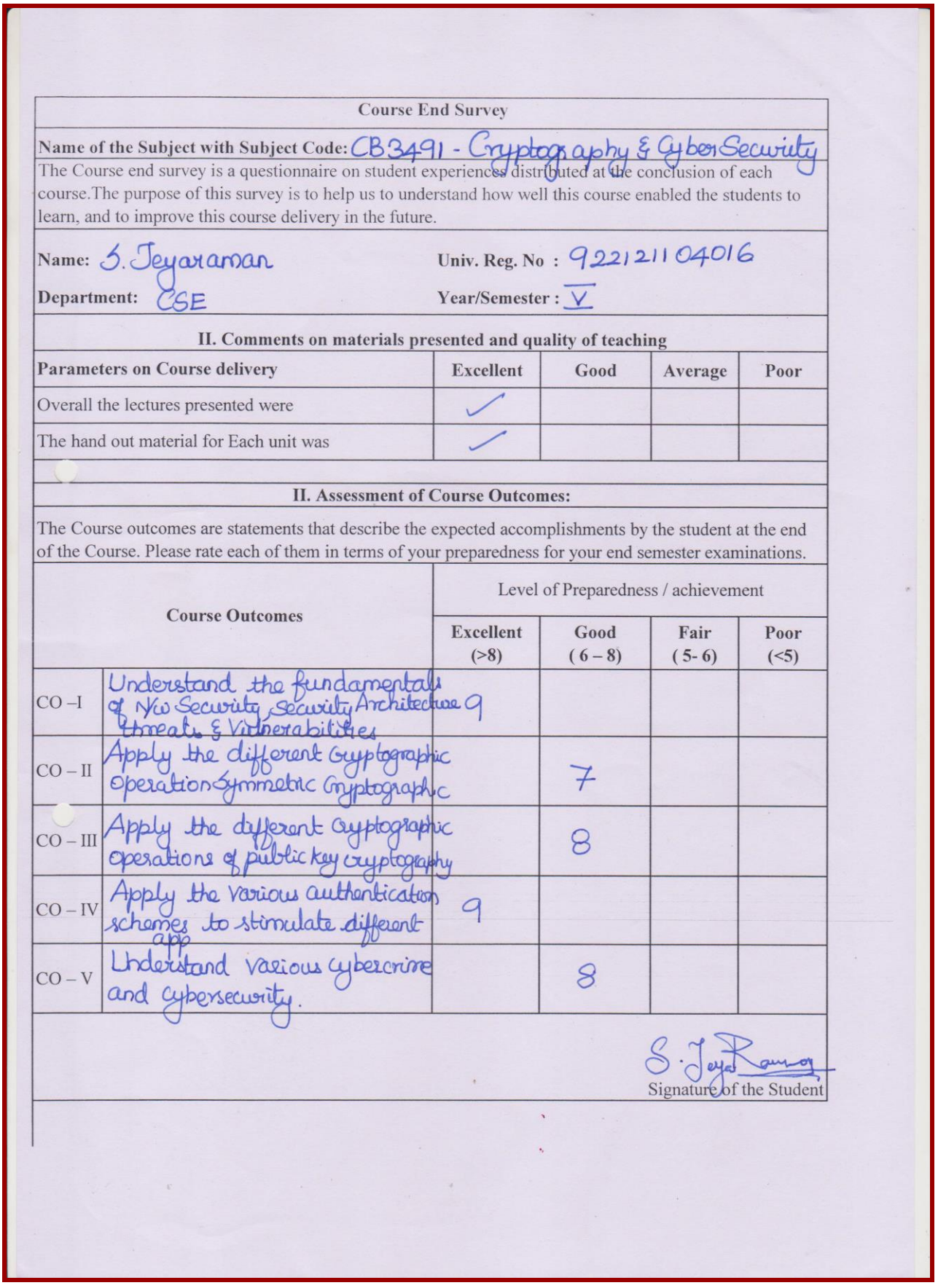
The observations and records are evaluated on weekly basis.

The faculty makes a record of the date on which the experiment is done, the date on which the observation and records are evaluated which helps in continuous monitoring and assessment of the students. This also aids in completing the laboratory course within the stipulated time.

To evaluate course outcome, model exams are conducted at the completion of laboratory course.

Student's feedback of teaching learning process and action taken:

1. Semester Course Outcome (CO) Report: These contain information on student performance and feedback and actions taken in consequence thereof.



Course End Survey

Name of the Subject with Subject Code: CB3491 - Cryptography & Cyber Security

The Course end survey is a questionnaire on student experiences distributed at the conclusion of each course.The purpose of this survey is to help us to understand how well this course enabled the students to learn, and to improve this course delivery in the future.

Name: S. Jeyaraman **Univ. Reg. No :** 922121104016

Department: CSE **Year/Semester :** V

II. Comments on materials presented and quality of teaching

Parameters on Course delivery	Excellent	Good	Average	Poor
Overall the lectures presented were	✓			
The hand out material for Each unit was	✓			

II. Assessment of Course Outcomes:

The Course outcomes are statements that describe the expected accomplishments by the student at the end of the Course. Please rate each of them in terms of your preparedness for your end semester examinations.

Course Outcomes		Level of Preparedness / achievement			
		Excellent (>8)	Good (6 – 8)	Fair (5- 6)	Poor (<5)
CO –I	Understand the fundamentals of Nw Security, Security Architecture Threats & Vulnerabilities	9			
CO – II	Apply the different Cryptographic operation Symmetric Cryptographic		7		
CO – III	Apply the different Cryptographic operations of public key cryptography		8		
CO – IV	Apply the various authentication schemes to stimulate different app	9			
CO – V	Understand various cybercrime and cybersecurity.		8		

S. Jeya Raman

Signature of the Student

2. Semester Programme Outcome (PO) Report. These include an analysis of statistical data on student achievement and progression in the internal assessment and Anna University Examinations. The failure rates and the academic performance of the students are analysed. The Reports will record any significant difficulties that have been identified from student feedback about the faculty who handled the course and actions taken in consequence of these.

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

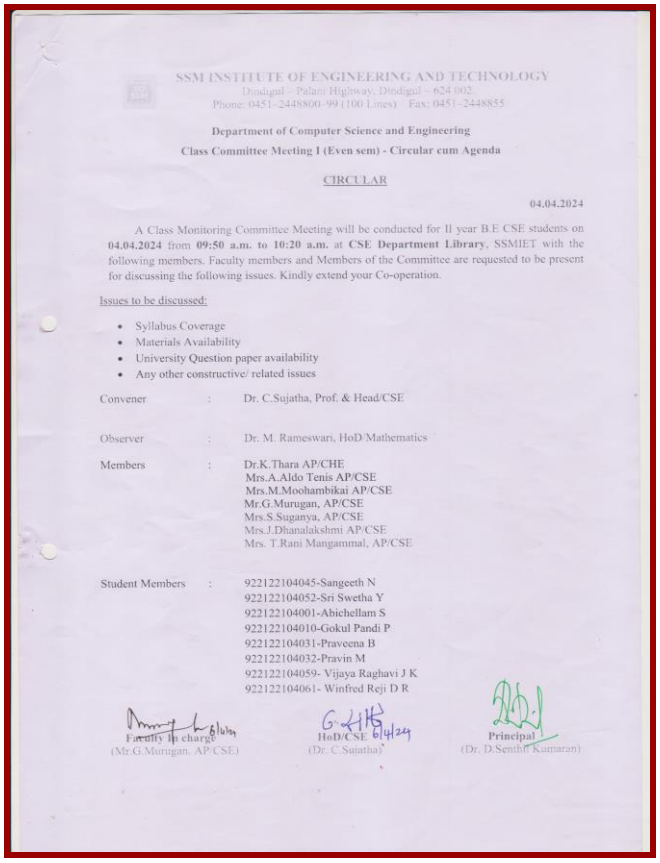
Department of Computer Science and Engineering

Exit survey Evaluation

PO No	PO Description	1	2	3	4	5	Total	weighted Avg	% of Attainment
PO1	Ability to apply the knowledge of mathematics, science, engineering fundamentals to solve engineering problems.	4	6	9	22	16	57	3.70	74.04
PO2	Ability to Identify , review research literature and analyze Engineering problems.	2	4	10	26	15	57	3.84	76.84
PO3	Ability to design solutions for complex engineering problemswith appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.	3	4	11	22	17	57	3.81	76.14
PO4	Ablity to conduct experiments,analyse data, interpret data and synthesise the information to provide valid conclusions.	2	5	7	20	23	57	4.00	80.00
PO5	Ability to Create, select and use modern tools in developing solutions.	4	7	10	16	20	57	3.72	74.39
PO6	Ability to apply reasoning to evaluate societal, health, safety, legal and cultural issuesand the consequent responsibilities relevant to the professional engineering practice..	3	2	17	22	13	57	3.70	74.04
PO7	Ability to understand the impact of the engineering solutions in societal and environmental contexts and the need for sustainable development.	2	6	13	22	14	57	3.70	74.04
PO8	Abilityto apply ethical principles in your responsibilities	3	6	13	17	18	57	3.72	74.39

PO9	Ability to Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	4	2	10	23	18	57	3.86	77.19
PO10	Ability to articulate ideas, communicate effectively, in writing and verbally.	2	4	12	15	24	57	3.96	79.30
PO11	Ability to work, as a member and leader in a team, to manage projects and in multidisciplinary environments.	3	4	12	18	20	57	3.84	76.84
PO12	Ability to engage in independent and life-long learning	1	4	14	14	24	57	3.98	79.65
PSO1	To understand the principles of basic engineering and acquire the hardware and software aspects of computer science and engineering	1	6	13	19	18	57	3.82	76.49
PSO2	To design and develop applications or products using various programming languages	1	3	17	23	13	57	3.77	75.44
		Average							76%
Signature of the CoOrdinator		Signature of the HOD							

3. Periodic Review. The Class committee meeting will analyse the performance of the students and the Department will review the performance of the faculty members based on student's feedback twice in a semester.



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Dindigul – Palani Highway, Dindigul – 624 002.
Phone: 0451–2448800–99 (100 Lines) Fax: 0451–2448855

Department of Computer Science and Engineering
Class Committee Meeting I (Even sem) - Circular cum Agenda

CIRCULAR

04.04.2024

A Class Monitoring Committee Meeting will be conducted for II year B.E CSE students on **04.04.2024** from **09:50 a.m. to 10:20 a.m.** at **CSE Department Library**, SSMIET with the following members. Faculty members and Members of the Committee are requested to be present for discussing the following issues. Kindly extend your Co-operation.

Issues to be discussed:

- Syllabus Coverage
- Materials Availability
- University Question paper availability
- Any other constructive/ related issues

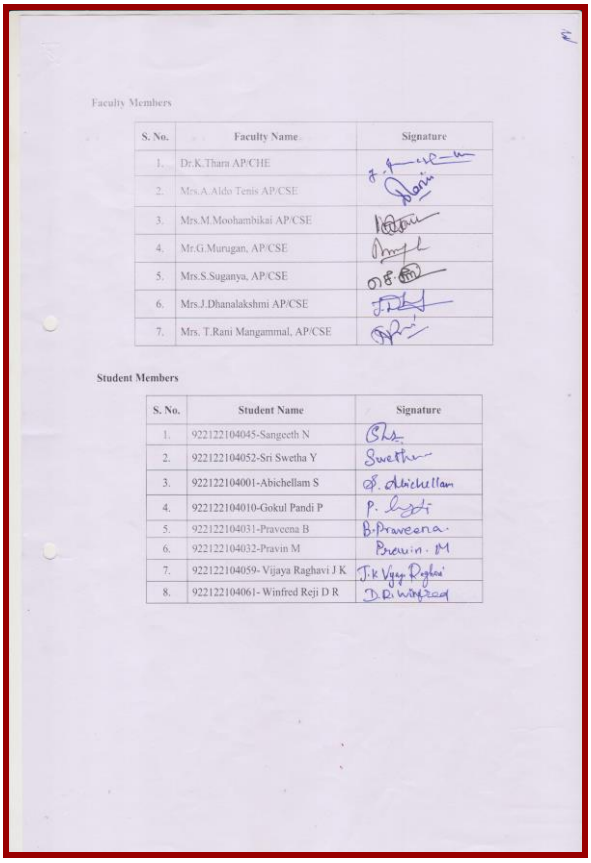
Convener : Dr. C.Sujatha, Prof. & Head/CSE

Observer : Dr. M. Rameswari, HoD/Mathematics

Members : Dr.K.Thara AP/CHE
Mrs.A.Aldo Tenis AP/CSE
Mrs.M.Moohambikai AP/CSE
Mr.G.Murugan, AP/CSE
Mrs.S.Suganya, AP/CSE
Mrs.J.Dhanalakshmi AP/CSE
Mrs. T.Rani Mangammal, AP/CSE

Student Members : 922122104045-Sangeeth N
922122104052-Sri Swetha Y
922122104001-Abichellam S
922122104010-Gokul Pandi P
922122104031-Praveena B
922122104032-Pravin M
922122104059- Vijaya Raghavi J K
922122104061- Winfred Reji D R

Faculty in charge (Mr.G.Murugan, AP/CSE) | HoD/CSE 6/4/24 (Dr. C.Sujatha) | Principal (Dr. D.Senthil Kumaran)



Faculty Members

S. No.	Faculty Name	Signature
1.	Dr.K.Thara AP/CHE	
2.	Mrs.A.Aldo Tenis AP/CSE	
3.	Mrs.M.Moohambikai AP/CSE	
4.	Mr.G.Murugan, AP/CSE	
5.	Mrs.S.Suganya, AP/CSE	
6.	Mrs.J.Dhanalakshmi AP/CSE	
7.	Mrs. T.Rani Mangammal, AP/CSE	

Student Members

S. No.	Student Name	Signature
1.	922122104045-Sangeeth N	
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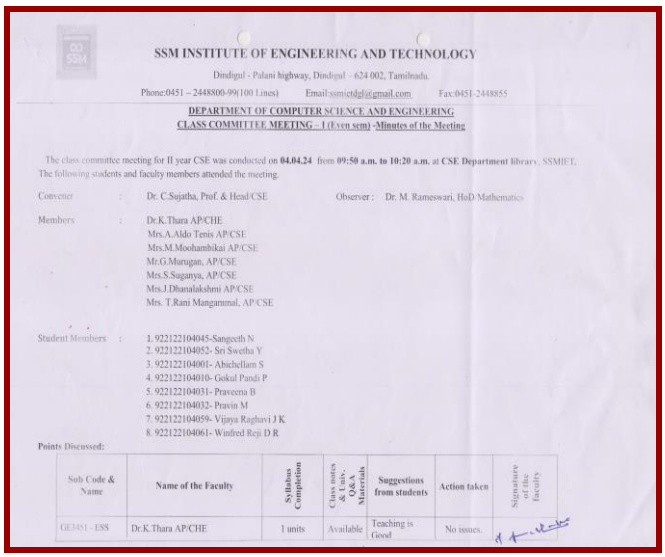

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Dindigul - Palani highway, Dindigul – 624 002, Tamilnadu.
Phone:0451 – 2448800-99(100 Lines) Email:ssmietdgl@gmail.com Fax:0451-2448855

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CLASS COMMITTEE MEETING – I (Even sem) -Minutes of the Meeting

The class committee meeting for II year CSE was conducted on **04.04.24** from **09:50 a.m. to 10:20 a.m.** at **CSE Department** library, SSMIET. The following students and faculty members attended the meeting.

Convener : Dr. C.Sujatha, Prof. & Head/CSE Observer : Dr. M. Rameswari, HoD/Mathematics

Members : Dr.K.Thara AP/CHE
Mrs.A.Aldo Tenis AP/CSE
Mrs.M.Moohambikai AP/CSE
Mr.G.Murugan, AP/CSE
Mrs.S.Suganya, AP/CSE
Mrs.J.Dhanalakshmi AP/CSE
Mrs. T.Rani Mangammal, AP/CSE

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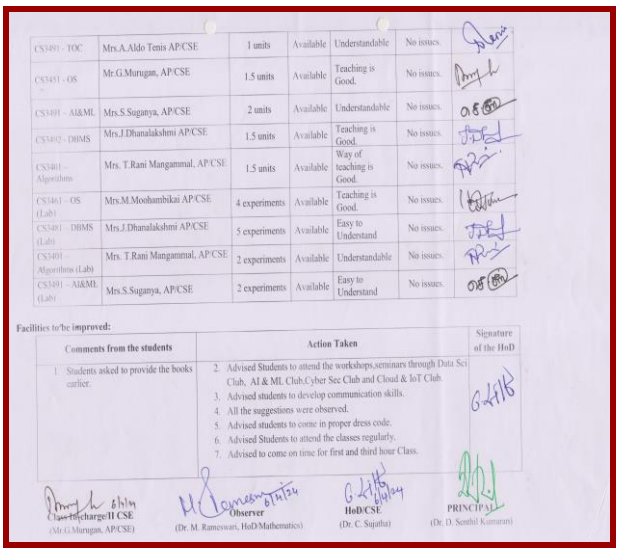
8. 922122104061- Winfred Reji D R

Points Discussed:

Sub Code & Name	Name of the Faculty	Syllabus Completion	Class notes & Q.B. & Materials	Suggestions from students	Action taken	Signature of the Faculty
GE3451 - ESS	Dr.K.Thara AP/CHE	1 units	Available	Teaching is Good	No issues.	



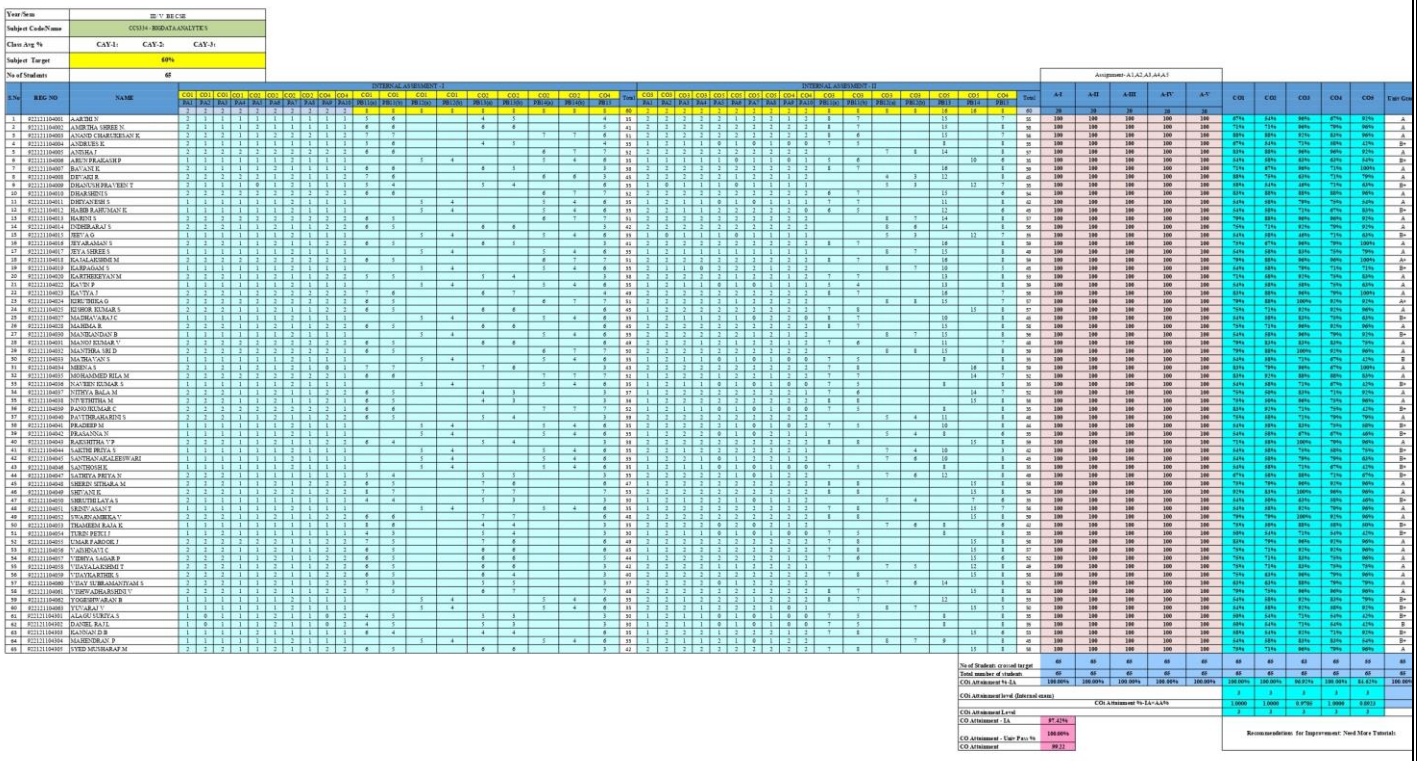
CS3491 - TOC	Mrs.A.Aldo Tenis AP/CSE	1 units	Available	Understandable	No issues.	
CS3451 - OS	Mr.G.Murugan, AP/CSE	1.5 units	Available	Teaching is Good.	No issues.	
CS3491 - AI&ML	Mrs.S.Suganya, AP/CSE	2 units	Available	Understandable	No issues.	
CS3492 - DBMS	Mrs.J.Dhanalakshmi AP/CSE	1.5 units	Available	Teaching is Good.	No issues.	
CS3401 – Algorithms	Mrs. T.Rani Mangammal, AP/CSE	1.5 units	Available	Way of teaching is Good.	No issues.	
CS3461 – OS (Lab)	Mrs.M.Moohambikai AP/CSE	4 experiments	Available	Teaching is Good.	No issues.	
CS3481 – DBMS (Lab)	Mrs.J.Dhanalakshmi AP/CSE	5 experiments	Available	Easy to Understand	No issues.	
CS3401 – Algorithms (Lab)	Mrs. T.Rani Mangammal, AP/CSE	2 experiments	Available	Understandable	No issues.	
CS3491 – AI&ML (Lab)	Mrs.S.Suganya, AP/CSE	2 experiments	Available	Easy to Understand	No issues.	

Facilities to be improved:

Comments from the students	Action Taken	Signature of the HoD
1. Students asked to provide the books earlier.	2. Advised Students to attend the workshops,seminars through Data Sci Club, AI & ML Club,Cyber Sec Club and Cloud & IoT Club 3. Advised students to develop communication skills. 4. All the suggestions were observed. 5. Advised students to come in proper dress code. 6. Advised Students to attend the classes regularly. 7. Advised to come on time for first and third hour Class.	

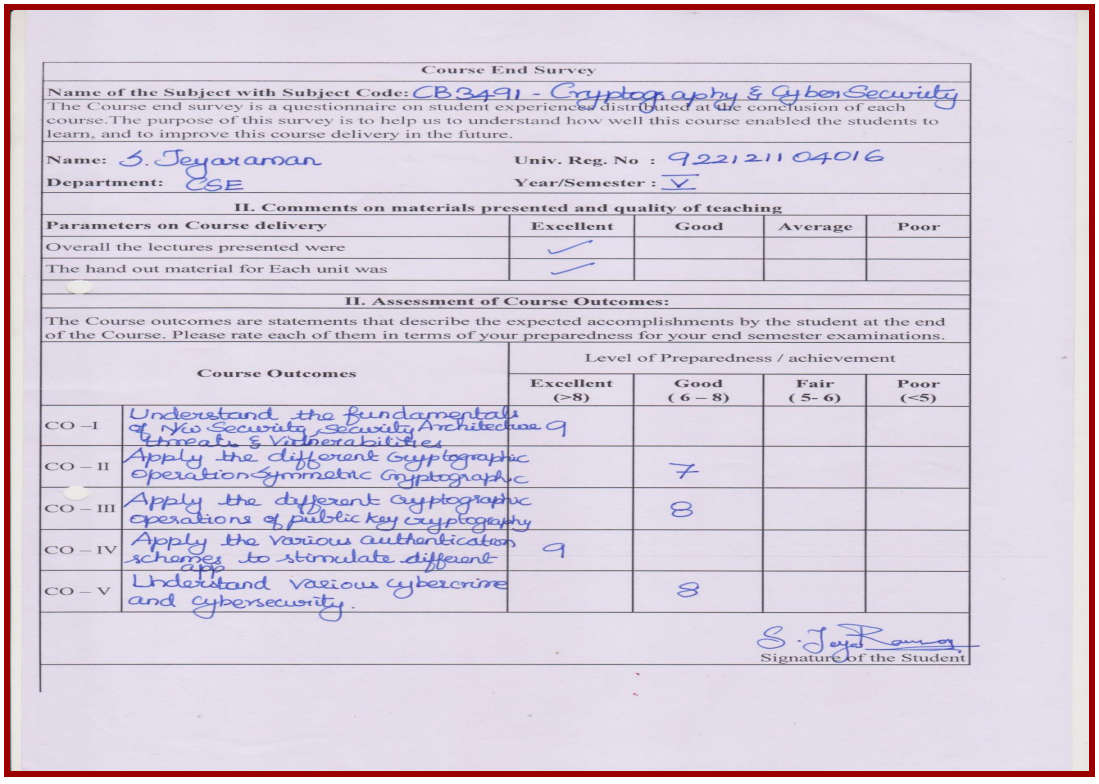
Class Incharge/II CSE (Mr.G.Murugan, AP/CSE) | Observer (Dr. M. Rameswari, HoD/Mathematics) | HoD/CSE (Dr. C. Sujatha) | PRINCIPAL (Dr. D. Senthil Kumaran)

4. Anna University examination result. These relate to both academic standards and to the quality of teaching and learning and may provide statistical data on the attainment of COs and POs.



Year/Sem	III / V BE CSE
Subject Code/Name	CCS334 - BIGDATA ANALYTICS
Class Avg %	CAY-1: CAY-2: CAY-3:
Subject Target	60%
No of Students	65

5. Course feedback after Completion of the syllabus. Held on the last day of each Semester, this provides an open forum for students to provide feedback about each term, including all the courses, guest seminars, workshops and other activities. Elected student representatives will pass on student comments anonymously if so wished but the spirit of the sessions is informal and the intention is to create a constructive dialogue between students and staff. .



Course End Survey

Name of the Subject with Subject Code: CB3491 - Cryptography & Cyber Security

The Course end survey is a questionnaire on student experiences distributed at the conclusion of each course. The purpose of this survey is to help us to understand how well this course enabled the students to learn, and to improve this course delivery in the future.

Name: S. Jeyaraman **Univ. Reg. No :** 922121104016

Department: CSE **Year/Semester :** V

II. Comments on materials presented and quality of teaching

Parameters on Course delivery	Excellent	Good	Average	Poor
Overall the lectures presented were	✓			
The hand out material for Each unit was	✓			

II. Assessment of Course Outcomes:

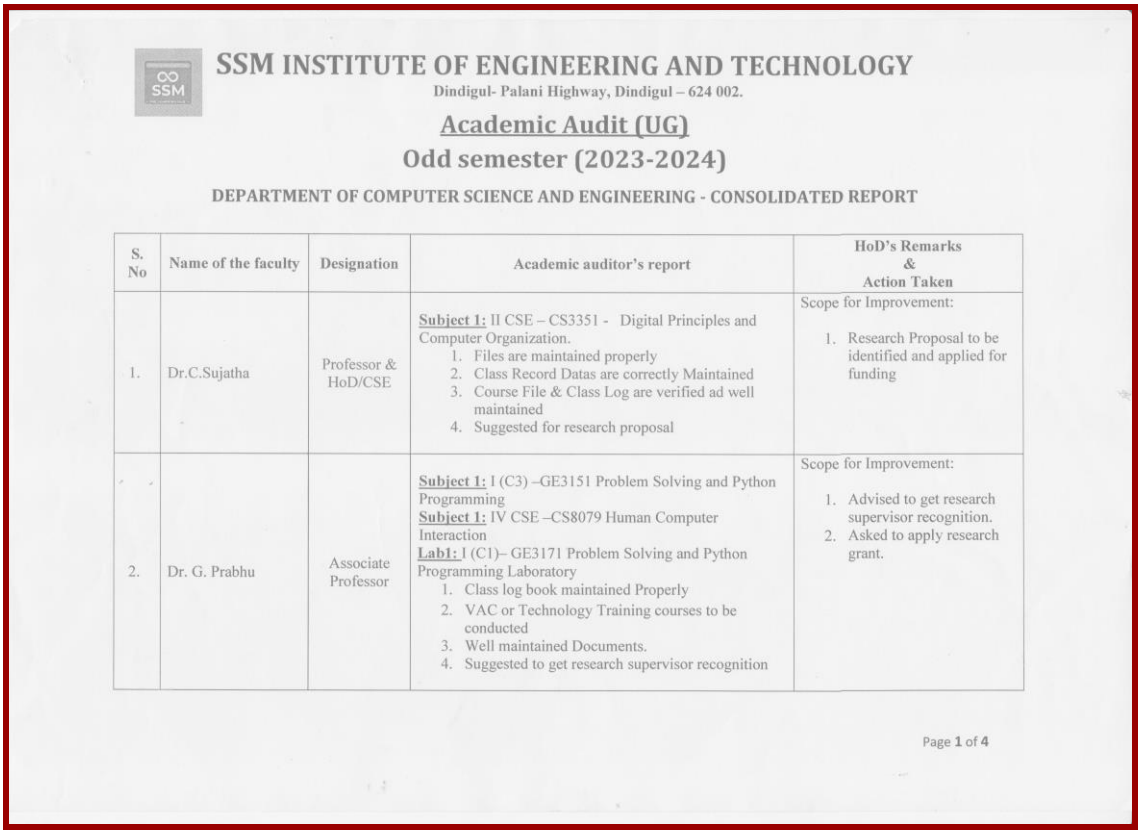
The Course outcomes are statements that describe the expected accomplishments by the student at the end of the Course. Please rate each of them in terms of your preparedness for your end semester examinations.

Course Outcomes		Level of Preparedness / achievement			
		Excellent (>8)	Good (6 – 8)	Fair (5- 6)	Poor (<5)
CO –I	Understand the fundamentals of Nw Security, Security Architecture threats & Vulnerabilities	9			
CO – II	Apply the different Cryptographic operation Symmetric Cryptographic		7		
CO – III	Apply the different Cryptographic operations of public key cryptography		8		
CO – IV	Apply the various authentication schemes to simulate different app	9			
CO – V	Understand various cybercrime and cybersecurity.		8		

S. Jeyaraman

Signature of the Student

6. Academic audit. The Committee usually meets twice a Semester to discuss all aspects of the programme and to take action, where necessary, in respect of student feedback. The Academic audit Committee ensures that Graduate attributes are conducted in accordance with COs and reports to the Principal.



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul- Palani Highway, Dindigul – 624 002.

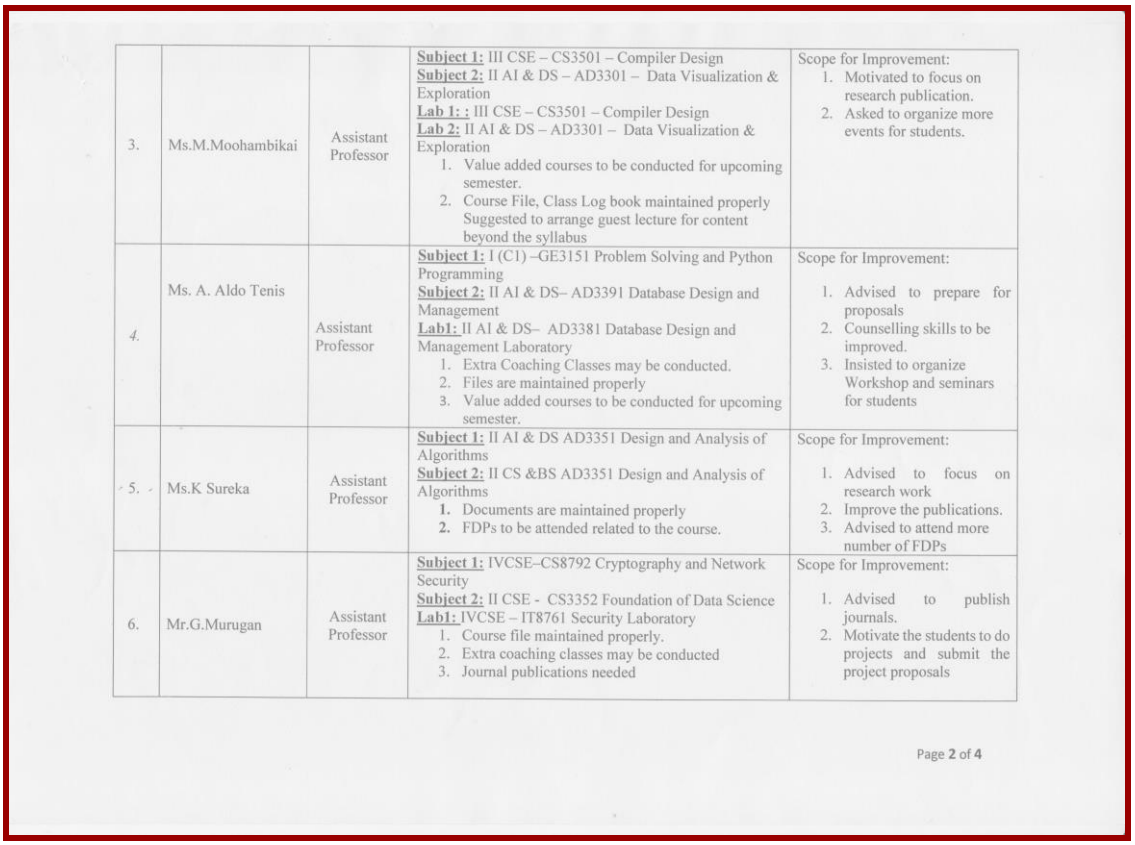
Academic Audit (UG)

Odd semester (2023-2024)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING - CONSOLIDATED REPORT

S. No	Name of the faculty	Designation	Academic auditor's report	HoD's Remarks & Action Taken
1.	Dr.C.Sujatha	Professor & HoD/CSE	Subject 1: II CSE – CS3351 - Digital Principles and Computer Organization. 1. Files are maintained properly 2. Class Record Datas are correctly Maintained 3. Course File & Class Log are verified ad well maintained 4. Suggested for research proposal	Scope for Improvement: 1. Research Proposal to be identified and applied for funding
2.	Dr. G. Prabhu	Associate Professor	Subject 1: I (C3) –GE3151 Problem Solving and Python Programming Subject 1: IV CSE –CS8079 Human Computer Interaction Lab1: I (C1)– GE3171 Problem Solving and Python Programming Laboratory 1. Class log book maintained Properly 2. VAC or Technology Training courses to be conducted 3. Well maintained Documents. 4. Suggested to get research supervisor recognition	Scope for Improvement: 1. Advised to get research supervisor recognition. 2. Asked to apply research grant.

Page 1 of 4



3.	Ms.M.Moohambikai	Assistant Professor	Subject 1: III CSE – CS3501 – Compiler Design Subject 2: II AI & DS – AD3301 – Data Visualization & Exploration Lab 1: : III CSE – CS3501 – Compiler Design Lab 2: II AI & DS – AD3301 – Data Visualization & Exploration 1. Value added courses to be conducted for upcoming semester. 2. Course File, Class Log book maintained properly Suggested to arrange guest lecture for content beyond the syllabus	Scope for Improvement: 1. Motivated to focus on research publication. 2. Asked to organize more events for students.
4.	Ms. A. Aldo Tenis	Assistant Professor	Subject 1: I (C1) –GE3151 Problem Solving and Python Programming Subject 2: II AI & DS– AD3391 Database Design and Management Lab1: II AI & DS– AD3381 Database Design and Management Laboratory 1. Extra Coaching Classes may be conducted. 2. Files are maintained properly 3. Value added courses to be conducted for upcoming semester.	Scope for Improvement: 1. Advised to prepare for proposals 2. Counselling skills to be improved. 3. Insisted to organize Workshop and seminars for students
5.	Ms.K Sureka	Assistant Professor	Subject 1: II AI & DS AD3351 Design and Analysis of Algorithms Subject 2: II CS &BS AD3351 Design and Analysis of Algorithms 1. Documents are maintained properly 2. FDPs to be attended related to the course.	Scope for Improvement: 1. Advised to focus on research work 2. Improve the publications. 3. Advised to attend more number of FDPs
6.	Mr.G.Murugan	Assistant Professor	Subject 1: IVCSE–CS8792 Cryptography and Network Security Subject 2: II CSE - CS3352 Foundation of Data Science Lab1: IVCSE – IT8761 Security Laboratory 1. Course file maintained properly. 2. Extra coaching classes may be conducted 3. Journal publications needed	Scope for Improvement: 1. Advised to publish journals. 2. Motivate the students to do projects and submit the project proposals

Page 2 of 4

7.	Ms. S,Suganya	Assistant Professor	**Subject 1:** I (C4) – GE3151 Problem Solving and Python Programming **Subject 2:** II CSE – CS3301 – Data Structures **Lab1:** I (C1) – GE3171 Problem Solving and Python Programming Laboratory **Lab 2:** II CSE-CS3311 – Data Structures Laboratory 1. Class log book & course file Maintained Properly 2. Value added courses and events may be conducted for next semester	Scope for Improvement: 1. Student mentorship Quality to be improved 2. Advised to focus on research work.
8.	Ms. N. Anu Lavanya	Assistant Professor	**Subject 1:** III CSE - CS3551 Distributed Computing **Subject 2**: II CS &BS- – CS3391 Object Oriented Programming. **Lab1:** II CS &BS- – CS3381 Object Oriented Programming Laboratory 1. Course File and Log Book maintained properly. 2. Try to apply research grant. 3. Try to publish journals	Scope for Improvement: 1. Advised to give more concentration on research work. 2. Advised to submit proposals.
9.	Ms. J. Dhanalakshmi	Assistant Professor	**Subject 1:** III CSE - CB3491 Cryptography and Cyber Security **Subject 2:** II AI & DS– AL3391 – Artificial Intelligence **Lab1:** II AI & DS– AD3311 – Artificial Intelligence Laboratory **Lab2:** II CSE - CS3361 Data Science Laboratory 1. Well maintained records are available. 2. Concentrate on journal publications related to research. 3. FDPs to be attended related to the courses	Scope for Improvement: 1. Asked to focus on Research work 2. Journals to be published
10.	Ms. N. J. Divya	Assistant Professor	**Subject 1:** III CSE – CCS375- Web Technologies **Subject 2:** IV CSE – CS8392- Cloud Computing **Lab 1** :III CSE – CCS375- Web Technologies **Lab 2 :** IV CSE – CS8711- Cloud Computing Laboratory 1. Well maintained course file 2. Plan to organize workshop & seminars 3. Research grant can be applied	Scope for Improvement: 1. Student mentorship Quality to be improved 2. Advised to submit research proposals.

11.	Mrs.T.Rani Mangammal	Assistant Professor	**Subject 1:** III CSE – CS8591 -Computer Networks **Lab 1:** II CSE_CS3381 Object Oriented Programming Laboratory 1. Well maintained records are available. 2. Try to connect an Industry & conduct events 3. Suggested to organize seminar / Guest Lecture for students	Scope for Improvement: 1. Advised to publish journals. 2. Technical skills to be improved 3. Insisted to organize more events for students.
12.	Mr.P.V.Samuel Devakumar	Assistant Professor	**Subject 1:** I (C7) –GE3151 Problem Solving and Python Programming **Lab1:** I (C7)– GE3171 Problem Solving and Python Programming Laboratory **Lab2:** I (C2)– GE3171 Problem Solving and Python Programming Laboratory 1. Course file maintained properly. 2. Try to connect with an industry and organize events 3. Innovative teaching Method & ICT Tools to be used	Scope for Improvement: 1. Advised to start the research work 2. Concentrate on publications 3. Improve Student mentorship Quality
13.	Ms.V.Sudharsana	Assistant Professor	**Subject 1:** II EEE – CS3353 – C Programming & Data Structures 1. Files maintained properly. 2. Technical skills to be improved 3. Suggested to attend FDPs related to the courses	Scope for Improvement: 1. Improve the mentorship skill 2. Try to submit seminar/workshop grant 3. Technical skills to be improved

29/2/24

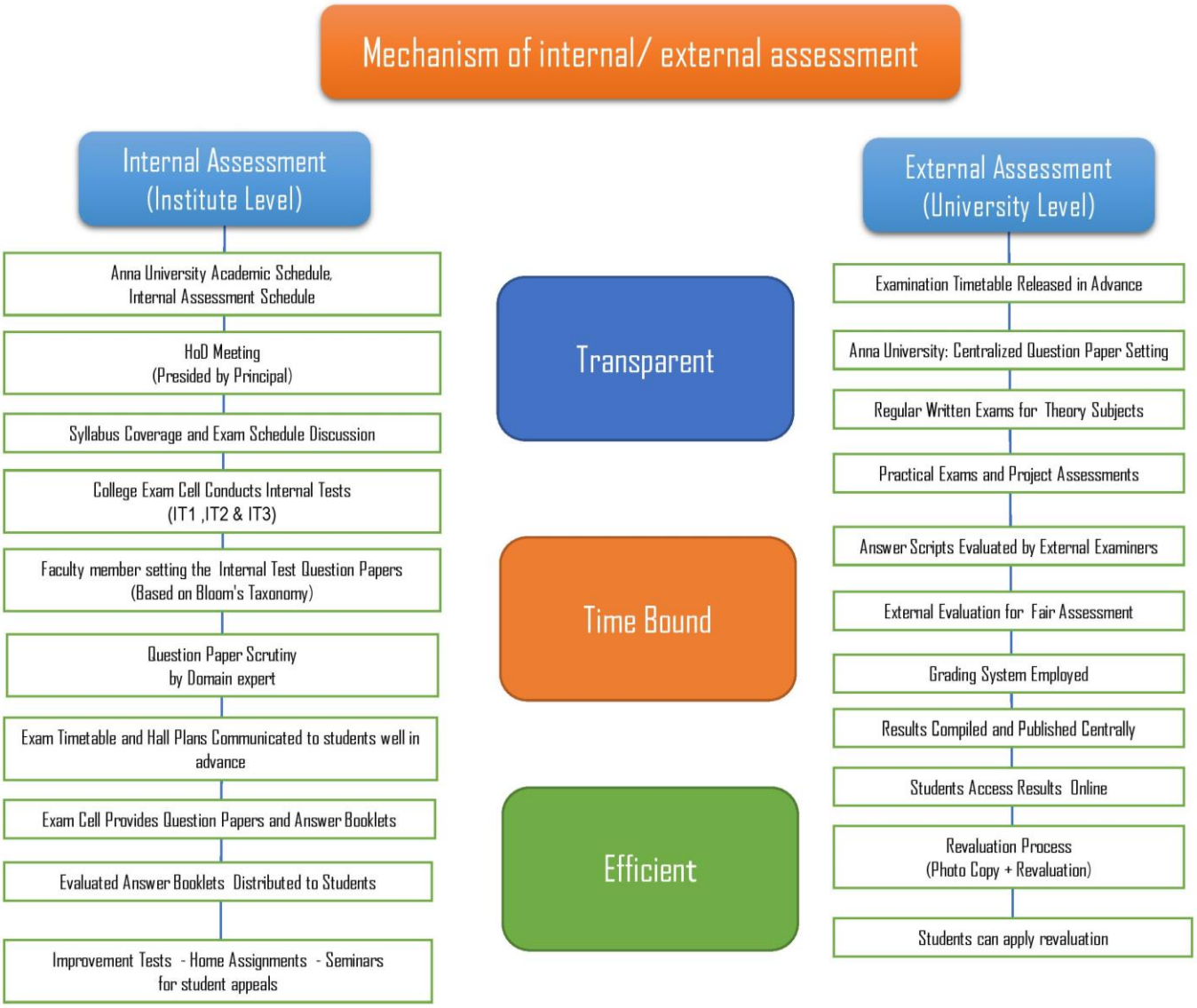
HoD / CSE

PRINCIPAL

7. Centralized online student feedback System: The faculty members are evaluated through the online feedback system on their teaching and learning process in each semester. Depending on the feedback suggestions and guidelines are given to the corresponding faculty. The feedback is collected with the following parameters as follows:

- Organization of the subject matter in a logical sequence
- Faculty coming to the class on time and engaging regularly
- Preparation made by the faculty on the subject
- Faculty's knowledge on the latest developments in the subject area
- Faculty's ability to maintain discipline in the class
- Assistance and Counselling offered by the faculty to the needy students
- Faculty's appreciation and feedback on the students" performance
- Ability to take class audibly and clearly
- Usage of various methods and materials like OHP, Presentation to take class
- Ability to write and draw legibly
- Teacher's ability to explain the concepts well and provide adequate examples
- Ability of the faculty to give instructions to the students according to their understanding
- Fare and impartial valuation of the answer papers
- Regular conduction of assignments tests and returns the answer papers on time.

2.2.2. Quality of internal semester Question papers, Assignments and Evaluation:



A. Process for internal semester question paper setting and evaluation and effectiveprocess implementation (5)

A) Process of internal semester question papers setting

In order to maintain the transparency and robustness of the internal assessment mechanism a detailed discussion regarding the syllabus portion coverage and schedule for the exams will be done in the HoDs meeting presided over by the Principal and the dates for the exams will be mentioned in the academic calendar. The schedule is strictly adhered.

Faculty members to set the internal test question papers based on the bloom's taxonomy. The domain expert appointed by the Head of the department scrutinises the question paper.

For evaluating a student's performance faculty member of a particular subject will apportion marks based on the two Internal Tests (IT1, IT2). If any student appeals for an improvement test, at least one more test of the following kinds: improvement test, home assignments or any other assignment that the instructor

Considers necessary for assessing the student's performance - may be conducted. In such cases the question papers are scrutinised by the Head of the Department.

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Sindalagundu Post, Dindigul – 624 002, Tamilnadu Ph: 0451-2448800

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Subject: CS3492-Database Management Systems
Year/Sem: II/IV
Time: 03.15 pm to 05.00 pm
Max Marks: 60
Date: 10.06.2024

INTERNAL ASSESSMENT TEST - 2

	Part A (10 X 2 = 20 marks)	
1)	Define two phase locking.	R,CO3
2)	Define deadlock and list four conditions of deadlock.	R,CO3
3)	What are ordered indices?	R,CO4
4)	How does B-tree differs from a B+ tree usually preferred as an access structure to a data file?	U,CO4
5)	Mention and explain different hashing techniques.	R,CO4
6)	What is the need for query optimization?	R,CO4
7)	What are two approaches to store a relation in the distributed database?	R,CO5
8)	Define distributed databases? Write the advantages of distributed databases.	R,CO5
9)	Write the difference between homogeneous and heterogeneous schema.	U,CO5
10)	Write the comparison between RDBMS and NoSQL.	U,CO5
	Part B (2X16 = 32 + 1x8=8) 40 marks	
11)a)	What is RAID? List the different levels in RAID technology and explain its features.	U,CO4
	OR	
b)	Describe structure of B+ tree and list the characteristics of B+ tree with an suitable example.	U,CO4
12)a)	Define NoSQL and Explain types of NoSQL database with a suitable example .	U,CO5
	OR	
b)	Explain Commit protocols in detail. i)Two Phase Commit Protocol ii)Three Phase Commit Protocol	U,CO5
13)	Narrate the actions that are considered for Deadlock detection mechanism and recovery from techniques.	U,CO3

Faculty Incharge 10/5/24 Course Coordinator HoD/CSE 10/5/24

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Dindigul – Palani Highway, Dindigul 624 002.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Question Paper Scrutiny – Internal Test

Name of the Staff: J.Dhanalakshmi	Designation: AP/CSE
Class : II Year	Date of Submission: 6/6/24
Sub.Code & Name: CS3492 - DBMS	Internal Test: I/II/III
Name of the Course Coordinator: N.J.DIVYA	

Syllabus Coverage

As per Course Plan	Actual Coverage	Justification if Any
5 units	5 units	—

List of Course Outcomes Covered

CO Index	Course Outcomes	Blooms taxonomy (Knowledge Level)
CO3	Construct queries to handle transaction processing and maintain consistency of the database.	R, U
CO4	Compare and contrast various indexing strategies and apply the knowledge to tune the performance	R, U
CO5	Appraise how advanced database differs from Relation Database and find a suitable database	U

Check List

S.No	Items to be included	Yes/No	Remarks /Actions if any
1	Adherence to the given QP pattern for the batch	Yes	
2	Presence of Typographical Errors	No	
3	Presence of Grammatical Errors	No	
4	Appropriateness of verbs used as per the knowledge level committed	Yes	
5	Appropriateness of knowledge level addressed as per the CO	Yes	
6	Appropriateness of weightage assigned to respective CO	Yes	
7	Equal weightage (marks) given for subdivisions in either or choices with respect to COs	Yes	
8	Either or choices represent equal knowledge levels	Yes	
9	Difficulty level-Existence of scope for average/below average learners to score 50% marks	Yes	
10	Challenge level-Scope for evaluation of higher order thinking skills given	No	Not Applicable

Overall Comments by Course Coordinator

Basic level of updation of knowledge in Database Skill, in which basic learners also studied easily and known the technical skills. (CO-attained)

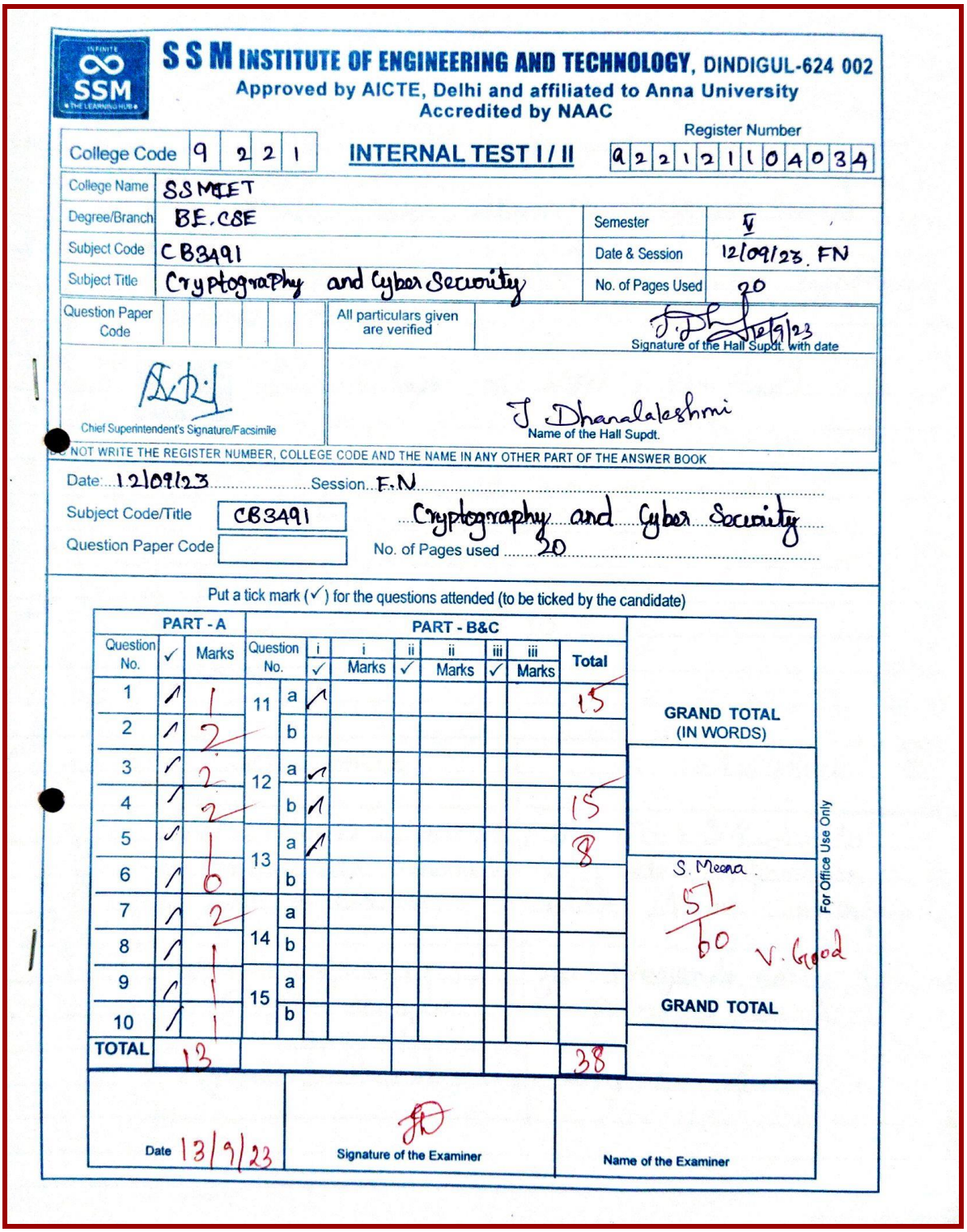
N.J.D
Course Coordinator

6/6/24
HOD

Like this, each subject is assessed internally by conducting 2 internal tests periodically covering a part of the syllabus as mentioned in the academic calendar. However, two internal tests are planned and conducted as per the academic calendar. In this, internal tests are conducted at the institution level whereas the remedial action tests are conducted at the department level.

b. Criteria for Evaluation

The answer sheet evaluation is done by the staff handling the subjects. The evaluated mark sheets are distributed to the students for their perusal and it is collected back and retained by the faculty members. These marks are entered in the provided format and the result analysis is done and submitted to the Head of the Department. Then the performance is analysed. The record of such distribution for each course will be maintained in the course file by the faculty member.



S S M INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL-624 002
Approved by AICTE, Delhi and affiliated to Anna University
Accredited by NAAC

College Code: 9221 | INTERNAL TEST I / II | Register Number: 922121104034

College Name: SSMIET
Degree/Branch: BE.CSE | Semester: V
Subject Code: CB3491 | Date & Session: 12/09/23. FN
Subject Title: Cryptography and Cyber Security | No. of Pages Used: 20

Question Paper Code | All particulars given are verified | Signature of the Hall Supdt. with date: 12/9/23
Chief Superintendent's Signature/Facsimile | Name of the Hall Supdt.: J. Dhanalakshmi

DO NOT WRITE THE REGISTER NUMBER, COLLEGE CODE AND THE NAME IN ANY OTHER PART OF THE ANSWER BOOK

Date: 12/09/23 Session: F.N
Subject Code/Title: CB3491 Cryptography and Cyber Security
Question Paper Code: | No. of Pages used: 20

Put a tick mark (✓) for the questions attended (to be ticked by the candidate)

PART - A			PART - B&C									
Question No.	✓	Marks	Question No.		i ✓	i Marks	ii ✓	ii Marks	iii ✓	iii Marks	Total
1	✓	1	11	a	✓						15
2	✓	2		b							
3	✓	2	12	a	✓						
4	✓	2		b	✓						15
5	✓	1	13	a	✓						8
6	✓	6		b							
7	✓	2	14	a							
8	✓	1		b							
9	✓	1	15	a							
10	✓	1		b							
TOTAL		13									38

GRAND TOTAL (IN WORDS)

S. Meena.
57
60
V. Good

GRAND TOTAL

For Office Use Only

Date 13/9/23 | Signature of the Examiner | Name of the Examiner

The Head of the department will convene a meeting of the faculty within 2 working days of the last examination in the department to review the results. The scrutinised copy of the results will be handed over to a particular faculty member who will use it to complete the University web portal entry for the internal assessment marks of the students.

Regarding the attendance of the students in the class, each student should maintain minimum 75% of their attendance without fail as per the University norms. Attendance is taken during all the hours by the faculty member handling the particular session and entered in the faculty record. After the completion of the hour, the attendance is entered in the class log book. Faculty record is duly verified and signed by the head of the department.

The daily attendance detail of the students is messaged to their respective parent's mobile number immediately after the first hour of the class. Hence, parents are made aware of their ward's attendance on daily basis.

Students should get prior permission for their leave from the HoD through their mentor and class in-charge. The student leave form is available with the mentors. Students taking leave on any medical grounds should inform their mentor immediately through their parents and when they return to the classes they must produce the medical fitness certificate to the mentor.

The attendance is maintained by the respective subject handling faculty and the details are entered in the University web portal during the entry dates scheduled by the University.

The portions of the syllabus and schedule for the internal tests are provided to the students and faculty members well in advance i.e. during the very first day of the semester commencement date itself and it will be very easy for them to follow the academic calendar so as to frame the questions for their respective subjects. The question papers are scrutinized by the subject expert appointed by the Head of the department.

c. Evidence of COs coverage in Internal Tests

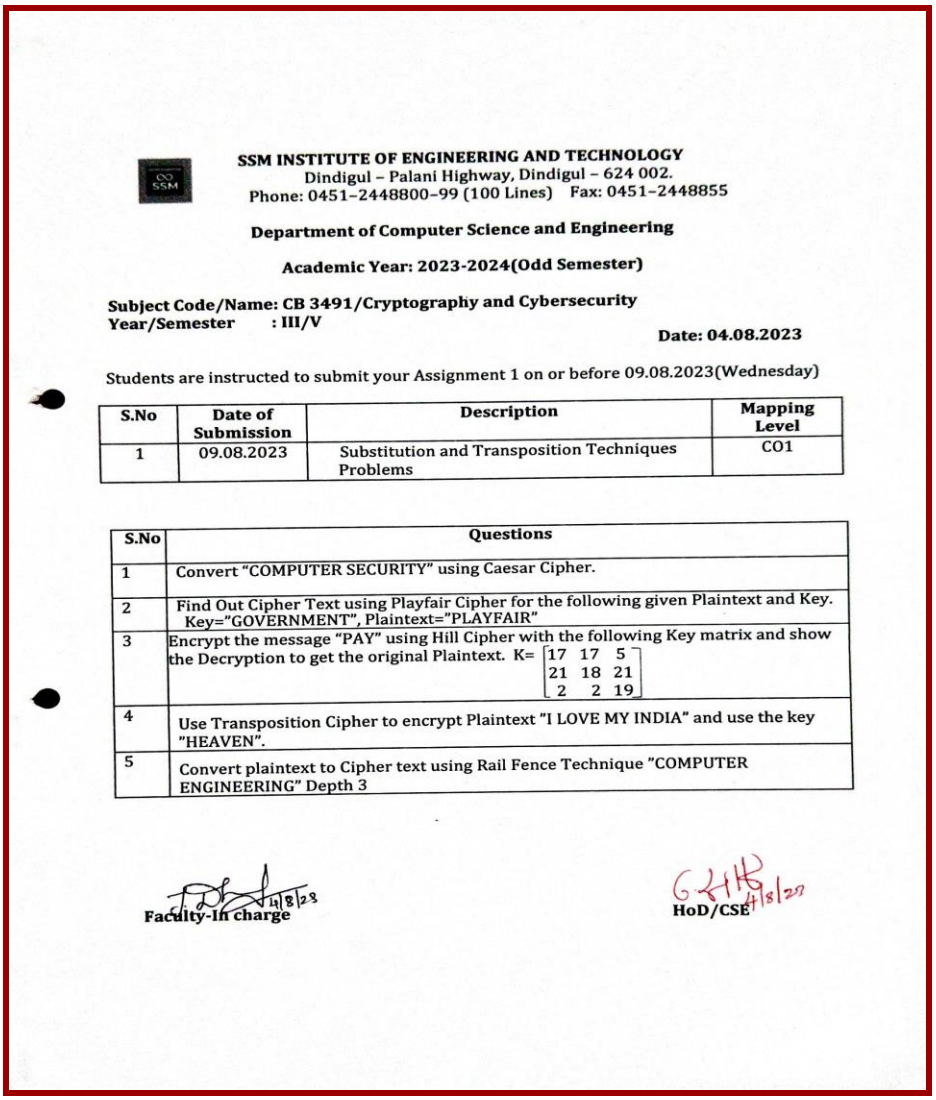
Individual student answer booklet is evaluated and question answered by student is mapped with COs, POs and PSOs. The coverage of COs in internal assessment test is given in the table:

Type of Assessment	CO Coverage
Internal Test 1	CO1,CO2 &CO3
Internal Test 2	CO3,CO4 &CO5
Assignment	CO1 to CO5

d. Quality of Assignment and its Relevance to Cos

For every semester five assignments are given to the students for developing their analytical and problem solving skills. Assignment question papers are framed based on the Blooms Taxonomy along with course outcome

Assignment	CO Coverage
Assignment1	CO 1
Assignment 2	CO 2
Assignment 3	CO 3
Assignment 4	CO 4
Assignment 5	CO 5



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Dindigul – Palani Highway, Dindigul – 624 002.
Phone: 0451-2448800-99 (100 Lines) Fax: 0451-2448855

Department of Computer Science and Engineering

Academic Year: 2023-2024(Odd Semester)

Subject Code/Name: CB 3491/Cryptography and Cybersecurity
Year/Semester : III/V

Date: 04.08.2023

Students are instructed to submit your Assignment 1 on or before 09.08.2023(Wednesday)

S.No	Date of Submission	Description	Mapping Level
1	09.08.2023	Substitution and Transposition Techniques Problems	CO1

S.No	Questions
1	Convert "COMPUTER SECURITY" using Caesar Cipher.
2	Find Out Cipher Text using Playfair Cipher for the following given Plaintext and Key. Key="GOVERNMENT", Plaintext="PLAYFAIR"
3	Encrypt the message "PAY" using Hill Cipher with the following Key matrix and show the Decryption to get the original Plaintext. K= $\begin{bmatrix} 17 & 17 & 5 \\ 21 & 18 & 21 \\ 2 & 2 & 19 \end{bmatrix}$
4	Use Transposition Cipher to encrypt Plaintext "I LOVE MY INDIA" and use the key "HEAVEN".
5	Convert plaintext to Cipher text using Rail Fence Technique "COMPUTER ENGINEERING" Depth 3

4/8/23
Faculty-In charge

4/8/23
HoD/CSE

CB3491 –

Cryptography & Cyber Security

Assignment – 01

By:

M. Nivethitha

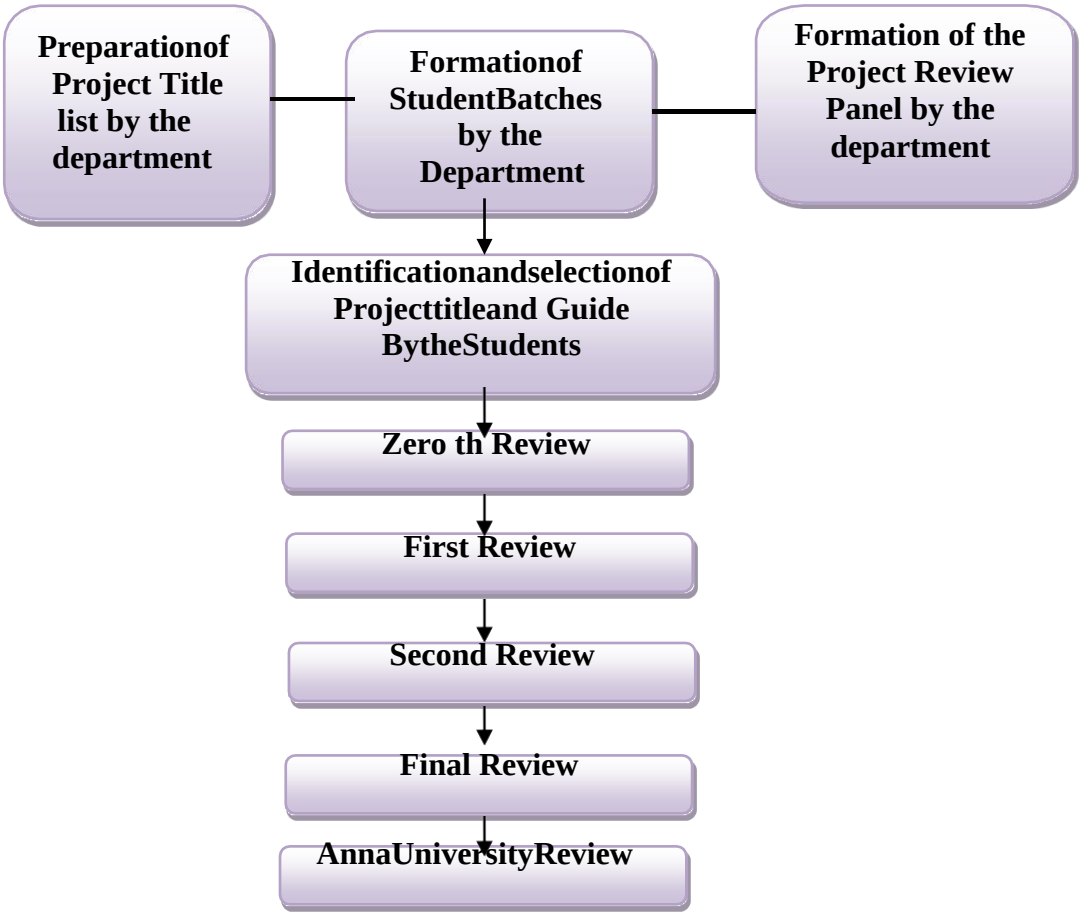
CSE – III

922121104038

Clear Explanation
V. Good

2.2.3 Qualityof StudentProjects(25)

Department of Computer science engineering highly contemplates on the quality of the students projects**.**



A. Identification of projects and allocation methodology to Faculty Members(3)

<u>Identification of the project guide by the students:</u>

Students can select their project guide based on the,

i) Faculty member provided the project title.

ii) Faculty member based on their specialization and willingness.

iii) If project comes under the research area of a faculty member.

iv) Requirement of the external guide if it is an industry project.

Formation of Student Batches:

As per the Anna University regulations, maximum of four student members can frame astudent project batch for their project work. Depending on the nature of the project andstudent'swillingnessthebatchsizemayvaryfromonetomaximum offour students.

CRITERION 2 PROGRAM CURRICULUM AND TEACHING – LEARNING PROCESSES 120

Students are given freedom in selecting their batch based on their,

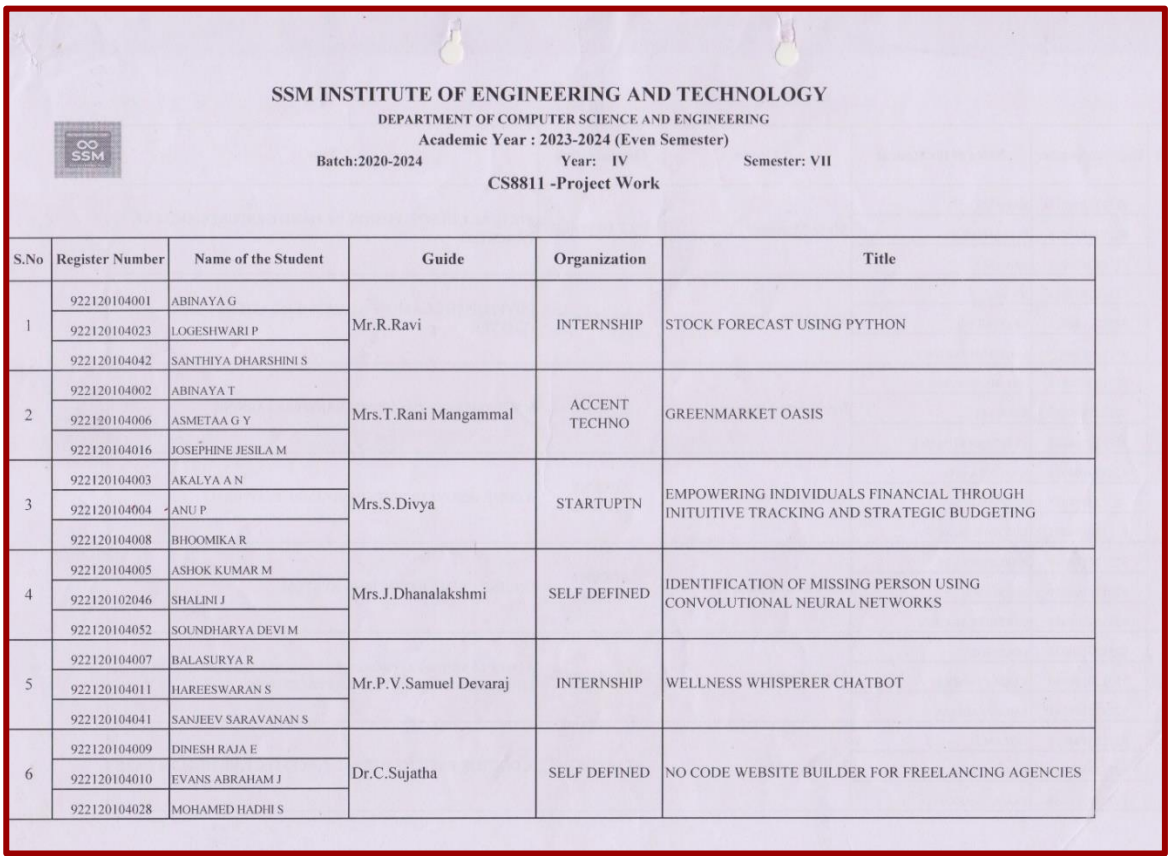
i) Area of interest,

ii) Nature of the project – whether it is industry/Design /In-house project,

iii) Project identified during their internship or industrial visit.

- ✓ Mentors shall guide the students to select appropriate project title and batch.
- ✓ Mentors also take care that the batch may consist of advanced, medium and slow learners so that they can help each other in their project work.
- ✓ After identifying the batch, each student's batch shall be provided with a batch number for easy identification and follow-up.
- ✓ Then the students batchlist shall be getapproved fromthe HOD and the Principal by the project coordinator.
- ✓ The student batch lists hall be displayed in the notice board by the project coordinator.
- ✓ Next, students can select their faculty project guide members and to get willingness from that faculty member. Each faculty member may be allotted two student batches basedon their specialization and willingness.

SampleCopy



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year : 2023-2024 (Even Semester)

Batch:2020-2024 Year: IV Semester: VII

CS8811 -Project Work

S.No	Register Number	Name of the Student	Guide	Organization	Title
1	922120104001	ABINAYA G	Mr.R.Ravi	INTERNSHIP	STOCK FORECAST USING PYTHON
	922120104023	LOGESHWARI P			
	922120104042	SANTHIYA DHARSHINI S			
2	922120104002	ABINAYA T	Mrs.T.Rani Mangammal	ACCENT TECHNO	GREENMARKET OASIS
	922120104006	ASMETAA G Y			
	922120104016	JOSEPHINE JESILA M			
3	922120104003	AKALYA A N	Mrs.S.Divya	STARTUPTN	EMPOWERING INDIVIDUALS FINANCIAL THROUGH INITUITIVE TRACKING AND STRATEGIC BUDGETING
	922120104004	ANU P			
	922120104008	BHOOMIKA R			
4	922120104005	ASHOK KUMAR M	Mrs.J.Dhanalakshmi	SELF DEFINED	IDENTIFICATION OF MISSING PERSON USING CONVOLUTIONAL NEURAL NETWORKS
	922120102046	SHALINI J			
	922120104052	SOUNDHARYA DEVI M			
5	922120104007	BALASURYA R	Mr.P.V.Samuel Devaraj	INTERNSHIP	WELLNESS WHISPERER CHATBOT
	922120104011	HAREESWARAN S			
	922120104041	SANJEEV SARAVANAN S			
6	922120104009	DINESH RAJA E	Dr.C.Sujatha	SELF DEFINED	NO CODE WEBSITE BUILDER FOR FREELANCING AGENCIES
	922120104010	EVANS ABRAHAM J			
	922120104028	MOHAMED HADHI S			

CRITERION 2 PROGRAM CURRICULUM AND TEACHING – LEARNING PROCESSES 120

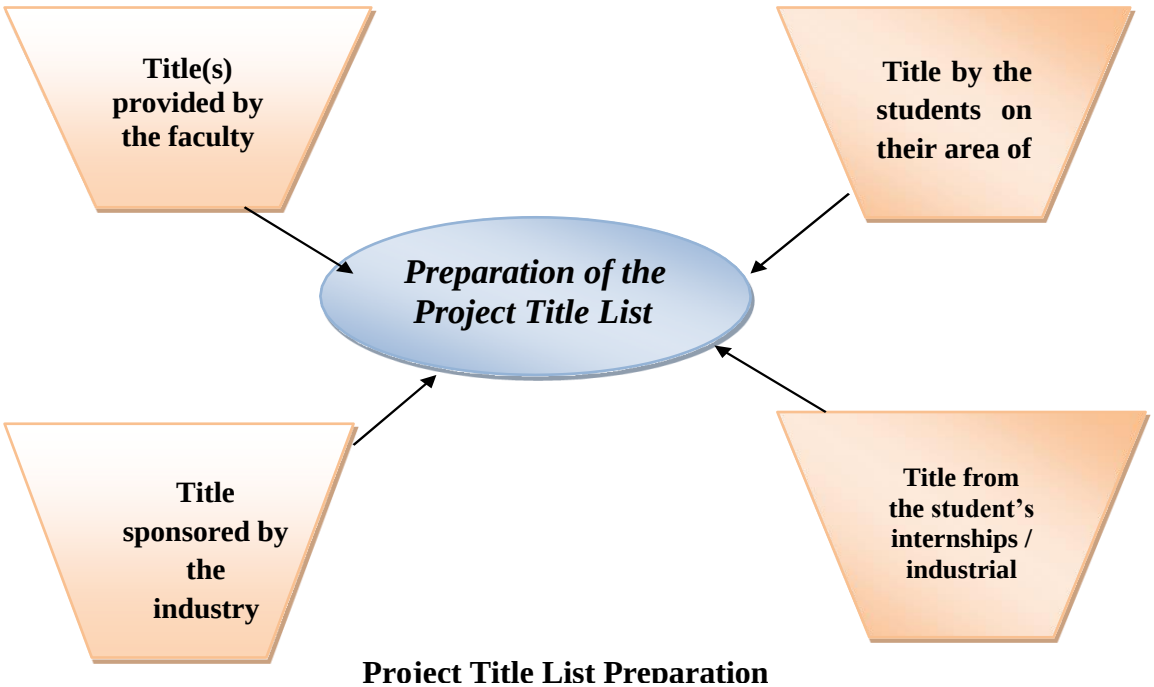
S.No	Register Number	Name of the Student	Guide	Organization	Title
7	922120104012	HARINI S	Mr G.Murugan	SELF DEFINED	VIRTUAL CURSOR: FUSION OF HAND GESTURES AND EYE TRACKING
	922120104014	JEYASHREE S			
	922120104054	SRIRAM J			
8	922120104013	JEEVA J	Mrs.D.Devishree	INTERNSHIP	DEVELOP THE CARE OF ALZHEIMER PATIENT USING FLUTTER
	922120104053	SRIDHARAN S			
	922120104025	MADHESH KUMAR D			
9	922120104015	JOHANS PRAVEEN S	Ms N.Anu Lavanya	ACCENT TECHNO	MALWARE ANALYSIS USING TRANSFER LEARNING
	922120104037	REENA M			
	922120104045	SATHEESH KUMAR K			
10	922120104018	KARUNYA M D	Mrs.Aldo Tenis	ACCENT TECHNO	A COMPASSIONATE VETERINARY CARE PLATFORM
	922120104035	PREETHIGA M			
	922120104061	VINOTH KUMAR A			
11	922120104019	KARUPPAIYA M	Ms.V.Sudharsana	ACCENT TECHNO	ONLINE CRIME REPORTING SYSTEM
	922120104029	MUGILAN M			
	922120104030	PARTHI PRASATH N			
12	922120104024	LOKESH G	Mrs.S.Suganya	SELF DEFINED	A DEEP LEARNING APPROACH FOR AUTISM CLASSIFICATION IN CHILDREN USING MULTILAYER PERCEPTRON
	922120104040	SANJAY PANDI M			
	922120104044	SARAN PANDIAN S			
13	922120104055	SRIRAM S	Mrs.R.Anitha	STARTUPTN	A DOCTOR PATIENT PORTAL FOR EFFECTIVE HEALTH CARE
	922120104057	SUBBIRAMANI R			
	922120104059	TAMIL ARASAN K			

S.No	Register Number	Name of the Student	Guide	Organization	Title
14	922120104026	MOHAMED ARSATH M	Dr.G.Prabu	MAXELERATOR	A MACHINE LEARNING METHOD FOR PREDICTING DISEASE BASED ON SYMPTOMS
	922120104031	PIRUTHVI RAMANA V			
	922120104301	SRIRAM V M			
15	922120104027	MOHAMED FAZIL I	Mrs.M.Moohambikai	ELYSIUM	DEVELOPING AN ADAPTIVE LEARNING SYSTEM USING MACHINE LEARNING E.
	922120104047	SHARMILA S			
	922120104060	VARSHINI U			
16	922120104032	POOJA M	Mrs.N.J Divya	ENTHHUTECH	AN AUTOMATED FISH FEEDING SYSTEM AND AQUACULTURE MONITORING USING IoT DEVICE
	922120104039	SAKTHI VIGNESHWARAN B			
	922120104058	SUBHA S			
17	922120104033	PRADEEP V	Mrs.A.Padmapriya	INTERNSHIP	TRAVEL DIARY
	922120104034	PRAKASH S			
	922120104036	PRETHEEBA U			
18	922120104038	SABARI KRISHNAN R	Dr.K.VinothKumar	ELYSIUM	SKIN LEISON CLASSIFICATION OF DERMOSCOPIC IMAGES USING MACHINE LEARNING AND CNN
	922120104043	SANTHOSH R			
	922120104051	SIVA SUNDAR V			
19	922120104022	LOGATHARANI S	Mrs.S.Devibala	INTERNSHIP	HEART DISEASE PREDICTION USING FLASK
	922120104049	SINDHUJA INFANT A			
	922120104050	SIVA SHANTHANA BHARATHI M			

Project Coordinator HOD/CSE Principal

Preparation of Project Title List:

- ✓ Faculty members generate project titles based on their experience, research area,industrial expert suggestions, excerpts from International Conferences, Journals,Engineeringsocietyconferences etc.
- ✓ Students are also allowed to fix their project title based on their area of interest and problem identified during the industrial visits, internshipsetc.
- ✓ Project titles are also generated based on any problem solving requirements call from the Industry/ Engg. societies
- ✓ Future work or any descent work of the previous year project works are also considered for the current year project.
- ✓ All the project titles are collected by the project coordinator and it is scrutinized bythe HOD, secondary leaders of the Department as well as the project review panel to check for the effective title that maps the COs, POs and PSOs. Then the list is finalized and then submitted to the Principal.
- ✓ The project list is get approved by the department advisory committee and if there are any major changes, the changes are made and again submitted to the Principal.
- ✓ The final approved list will be provided to the students for their selection.
- ✓ All these above said activities to be carried out during the commencement of the academic year ODD semester itself for the smooth run and coordination of the project work.



Project Title List Preparation

CRITERION 2 PROGRAM CURRICULUM AND TEACHING – LEARNING PROCESSES 120

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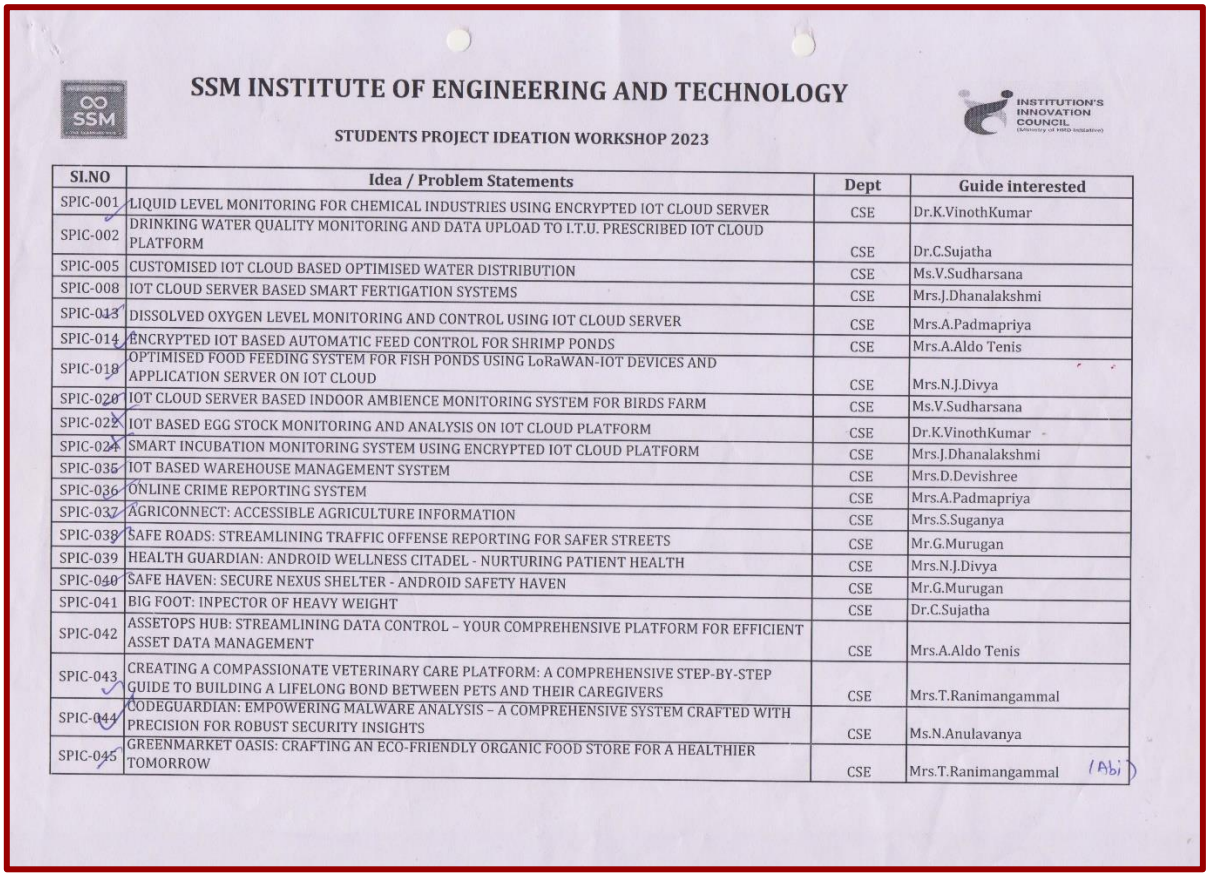
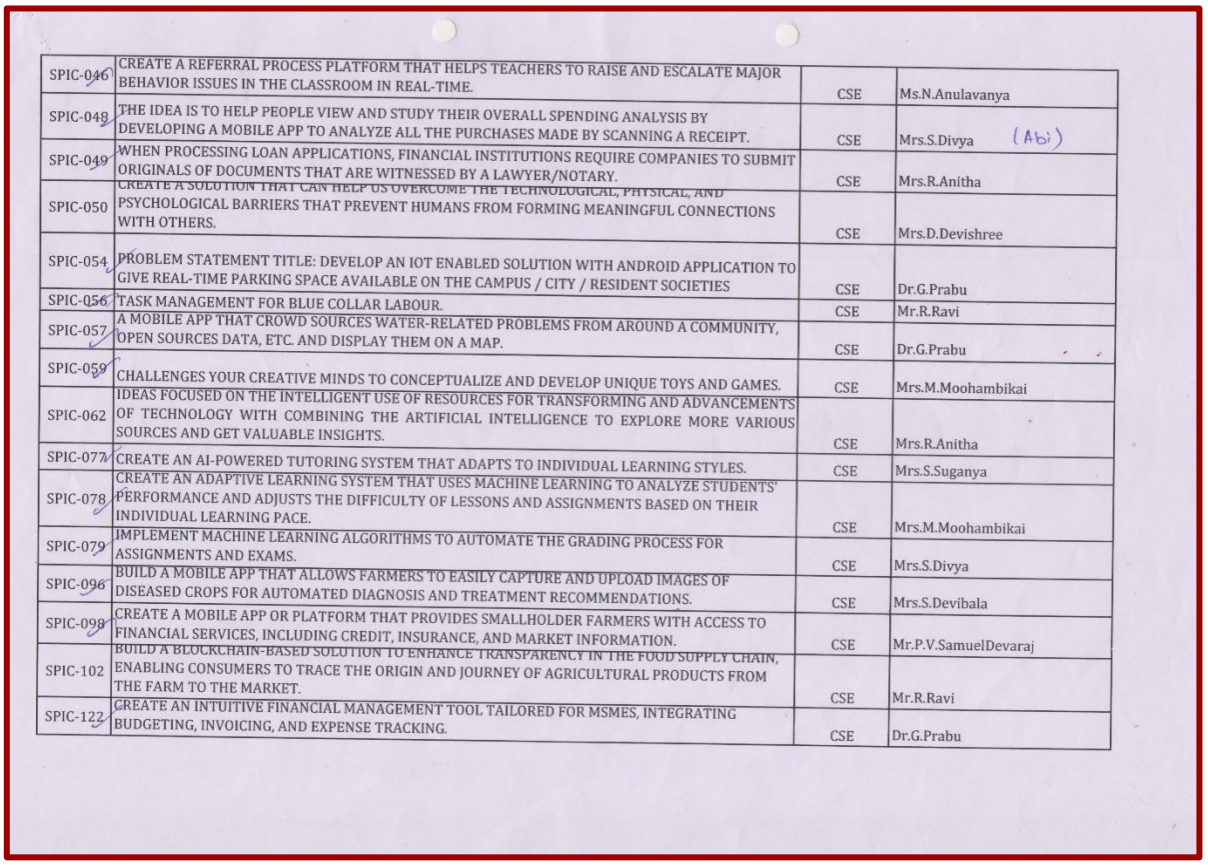


SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

INSTITUTION'S INNOVATION COUNCIL

STUDENTS PROJECT IDEATION WORKSHOP 2023

Sl.NO	Idea / Problem Statements	Dept	Guide interested
SPIC-001	LIQUID LEVEL MONITORING FOR CHEMICAL INDUSTRIES USING ENCRYPTED IOT CLOUD SERVER	CSE	Dr.K.VinothKumar
SPIC-002	DRINKING WATER QUALITY MONITORING AND DATA UPLOAD TO I.T.U. PRESCRIBED IOT CLOUD PLATFORM	CSE	Dr.C.Sujatha
SPIC-005	CUSTOMISED IOT CLOUD BASED OPTIMISED WATER DISTRIBUTION	CSE	Ms.V.Sudharsana
SPIC-008	IOT CLOUD SERVER BASED SMART FERTIGATION SYSTEMS	CSE	Mrs.J.Dhanalakshmi
SPIC-013	DISSOLVED OXYGEN LEVEL MONITORING AND CONTROL USING IOT CLOUD SERVER	CSE	Mrs.A.Padmapriya
SPIC-014	ENCRYPTED IOT BASED AUTOMATIC FEED CONTROL FOR SHRIMP PONDS	CSE	Mrs.A.Aldo Tenis
SPIC-018	OPTIMISED FOOD FEEDING SYSTEM FOR FISH PONDS USING LoRaWAN-IOT DEVICES AND APPLICATION SERVER ON IOT CLOUD	CSE	Mrs.N.J.Divya
SPIC-020	IOT CLOUD SERVER BASED INDOOR AMBIENCE MONITORING SYSTEM FOR BIRDS FARM	CSE	Ms.V.Sudharsana
SPIC-022	IOT BASED EGG STOCK MONITORING AND ANALYSIS ON IOT CLOUD PLATFORM	CSE	Dr.K.VinothKumar
SPIC-024	SMART INCUBATION MONITORING SYSTEM USING ENCRYPTED IOT CLOUD PLATFORM	CSE	Mrs.J.Dhanalakshmi
SPIC-035	IOT BASED WAREHOUSE MANAGEMENT SYSTEM	CSE	Mrs.D.Devishree
SPIC-036	ONLINE CRIME REPORTING SYSTEM	CSE	Mrs.A.Padmapriya
SPIC-037	AGRICONNECT: ACCESSIBLE AGRICULTURE INFORMATION	CSE	Mrs.S.Suganya
SPIC-038	SAFE ROADS: STREAMLINING TRAFFIC OFFENSE REPORTING FOR SAFER STREETS	CSE	Mr.G.Murugan
SPIC-039	HEALTH GUARDIAN: ANDROID WELLNESS CITADEL - NURTURING PATIENT HEALTH	CSE	Mrs.N.J.Divya
SPIC-040	SAFE HAVEN: SECURE NEXUS SHELTER - ANDROID SAFETY HAVEN	CSE	Mr.G.Murugan
SPIC-041	BIG FOOT: INPECTOR OF HEAVY WEIGHT	CSE	Dr.C.Sujatha
SPIC-042	ASSETOPS HUB: STREAMLINING DATA CONTROL – YOUR COMPREHENSIVE PLATFORM FOR EFFICIENT ASSET DATA MANAGEMENT	CSE	Mrs.A.Aldo Tenis
SPIC-043	CREATING A COMPASSIONATE VETERINARY CARE PLATFORM: A COMPREHENSIVE STEP-BY-STEP GUIDE TO BUILDING A LIFELONG BOND BETWEEN PETS AND THEIR CAREGIVERS	CSE	Mrs.T.Ranimangammal
SPIC-044	CODEGUARDIAN: EMPOWERING MALWARE ANALYSIS – A COMPREHENSIVE SYSTEM CRAFTED WITH PRECISION FOR ROBUST SECURITY INSIGHTS	CSE	Ms.N.Anulavanya
SPIC-045	GREENMARKET OASIS: CRAFTING AN ECO-FRIENDLY ORGANIC FOOD STORE FOR A HEALTHIER TOMORROW	CSE	Mrs.T.Ranimangammal (Abi)



SPIC-046	CREATE A REFERRAL PROCESS PLATFORM THAT HELPS TEACHERS TO RAISE AND ESCALATE MAJOR BEHAVIOR ISSUES IN THE CLASSROOM IN REAL-TIME.	CSE	Ms.N.Anulavanya
SPIC-048	THE IDEA IS TO HELP PEOPLE VIEW AND STUDY THEIR OVERALL SPENDING ANALYSIS BY DEVELOPING A MOBILE APP TO ANALYZE ALL THE PURCHASES MADE BY SCANNING A RECEIPT.	CSE	Mrs.S.Divya (Abi)
SPIC-049	WHEN PROCESSING LOAN APPLICATIONS, FINANCIAL INSTITUTIONS REQUIRE COMPANIES TO SUBMIT ORIGINALS OF DOCUMENTS THAT ARE WITNESSED BY A LAWYER/NOTARY.	CSE	Mrs.R.Anitha
SPIC-050	CREATE A SOLUTION THAT CAN HELP US OVERCOME THE TECHNOLOGICAL, PHYSICAL, AND PSYCHOLOGICAL BARRIERS THAT PREVENT HUMANS FROM FORMING MEANINGFUL CONNECTIONS WITH OTHERS.	CSE	Mrs.D.Devishree
SPIC-054	PROBLEM STATEMENT TITLE: DEVELOP AN IOT ENABLED SOLUTION WITH ANDROID APPLICATION TO GIVE REAL-TIME PARKING SPACE AVAILABLE ON THE CAMPUS / CITY / RESIDENT SOCIETIES	CSE	Dr.G.Prabu
SPIC-056	TASK MANAGEMENT FOR BLUE COLLAR LABOUR.	CSE	Mr.R.Ravi
SPIC-057	A MOBILE APP THAT CROWD SOURCES WATER-RELATED PROBLEMS FROM AROUND A COMMUNITY, OPEN SOURCES DATA, ETC. AND DISPLAY THEM ON A MAP.	CSE	Dr.G.Prabu
SPIC-059	CHALLENGES YOUR CREATIVE MINDS TO CONCEPTUALIZE AND DEVELOP UNIQUE TOYS AND GAMES.	CSE	Mrs.M.Moohambikai
SPIC-062	IDEAS FOCUSED ON THE INTELLIGENT USE OF RESOURCES FOR TRANSFORMING AND ADVANCEMENTS OF TECHNOLOGY WITH COMBINING THE ARTIFICIAL INTELLIGENCE TO EXPLORE MORE VARIOUS SOURCES AND GET VALUABLE INSIGHTS.	CSE	Mrs.R.Anitha
SPIC-077	CREATE AN AI-POWERED TUTORING SYSTEM THAT ADAPTS TO INDIVIDUAL LEARNING STYLES.	CSE	Mrs.S.Suganya
SPIC-078	CREATE AN ADAPTIVE LEARNING SYSTEM THAT USES MACHINE LEARNING TO ANALYZE STUDENTS' PERFORMANCE AND ADJUSTS THE DIFFICULTY OF LESSONS AND ASSIGNMENTS BASED ON THEIR INDIVIDUAL LEARNING PACE.	CSE	Mrs.M.Moohambikai
SPIC-079	IMPLEMENT MACHINE LEARNING ALGORITHMS TO AUTOMATE THE GRADING PROCESS FOR ASSIGNMENTS AND EXAMS.	CSE	Mrs.S.Divya
SPIC-096	BUILD A MOBILE APP THAT ALLOWS FARMERS TO EASILY CAPTURE AND UPLOAD IMAGES OF DISEASED CROPS FOR AUTOMATED DIAGNOSIS AND TREATMENT RECOMMENDATIONS.	CSE	Mrs.S.Devibala
SPIC-098	CREATE A MOBILE APP OR PLATFORM THAT PROVIDES SMALLHOLDER FARMERS WITH ACCESS TO FINANCIAL SERVICES, INCLUDING CREDIT, INSURANCE, AND MARKET INFORMATION.	CSE	Mr.P.V.SamuelDevaraj
SPIC-102	BUILD A BLOCKCHAIN-BASED SOLUTION TO ENHANCE TRANSPARENCY IN THE FOOD SUPPLY CHAIN, ENABLING CONSUMERS TO TRACE THE ORIGIN AND JOURNEY OF AGRICULTURAL PRODUCTS FROM THE FARM TO THE MARKET.	CSE	Mr.R.Ravi
SPIC-122	CREATE AN INTUITIVE FINANCIAL MANAGEMENT TOOL TAILORED FOR MSMES, INTEGRATING BUDGETING, INVOICING, AND EXPENSE TRACKING.	CSE	Dr.G.Prabu

B. Types and relevance of the projects and their contribution towards attainment of POs and PSO's (5)

Course outcome for project work formulated by expert team includes head of the department, project coordinator and senior faculties. The COs is mapped with all POs and PSOs in order to identify the project attainment levels. Defined COs are in Table and its mapping are shown in Table

Course Outcomes	
CS8811.1	Develop the ability to do the literature survey systematically to identify the research gap. Develop the ability to train the students in preparing reports and to face reviews and viva voce examination.
CS8811.2	Develop the ability to demonstrate the problem formulated from the research gap identified through literature review.
CS8811.3	Develop the ability to experiment / examine a specific problem by formulating proper methodologies.
CS8811.4	Develop the ability to appraise and select the successful solution for the problem.
CS8811.5	On completion of the project work, students will be in a position to take up challenging practical problems and find solution by formulating proper methodology.

CO – PO Mapping

CS8811	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CS8811.1	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**3**	**0**	**0**	**3**	**0**
CS8811.2	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
CS8811.3	**0**	**3**	**0**	**0**	**3**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**3**
CS8811.4	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
CS8811.5	**0**	**0**	**0**	**3**	**0**	**2**	**0**	**0**	**3**	**2**	**2**	**1**	**0**	**3**

List of Projects with relevance to POs and PSOs (2020 – 2024)

Batch No.	Reg. No.	Name of the Student	Title of the Project	Relevance to POs, PSOs
I	922120104001	ABINAYA G	STOCK FORECAST USING PYTHON	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104022	LOGESHWARI P		
	922120104023	SANTHIYA DHARSHINI S		
II	922120104002	ABINAYA T	GREENMARKET OASIS	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104006	ASMETAA G Y		
	922120104016	JOSEPHINE JESILA M		
III	922120104003	AKALYA A N	EMPOWERING INDIVIDUALS FINANCIAL THROUGH INITUITIVE TRACKING AND STRATEGIC BUDGETING	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104004	ANU P		
	922120104008	BHOOMIKA R		
IV	922120104005	ASHOK KUMAR M	IDENTIFICATION OF MISSING PERSON USING CONVOLUTIONAL NEURAL NETWORKS	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120102046	SHALINI J		
	922120104052	SOUNDHARYA DEVI M		
V	922120104007	BALASURYA R	WELLNESS WHISPERER CHATBOT	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104011	HAREESWARAN S		
	922120104041	SANJEEV SARAVANAN S		
VI	922120104009	DINESH RAJA E	NO CODE WEBSITE BUILDER FOR FREELANCING AGENCIES	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104010	EVANS ABRAHAM J		
	922120104028	MOHAMED HADHI S		
VII	922120104012	HARINI S	VIRTUAL CURSOR: FUSION OF HAND GESTURES AND EYE TRACKING	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104014	JEYASHREE S		
	922120104054	SRIRAM J		
VIII	922120104013	JEEVA J	DEVELOP THE CARE OF ALZHEIMER PATIENT USING FLUTTER	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104053	SRIDHARAN S		
	922120104025	MADHESH KUMAR D		
IX	922120104015	JOHANS PRAVEEN S	MALWARE ANALYSIS USING TRANSFER LEARNING	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104037	REENA M		
	922120104045	SATHEESH KUMAR K		
X	922120104018	KARUNYA M D	A COMPASSIONATE VETERINARY CARE PLATFORM	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104035	PREETHIGA M		
	922120104061	VINOTH KUMAR A		
XI	922120104019	KARUPPAIYA M	ONLINE CRIME REPORTING SYSTEM	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104029	MUGILAN M		
	922120104030	PARTHI PRASATH N		
XII	922120104024	LOKESH G	A DEEP LEARNING APPROACH FOR AUTISM CLASSIFICATION IN CHILDREN USING MULTILAYER PERCEPTRON	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104040	SANJAY PANDI M		
	922120104044	SARAN PANDIAN S		
XIII	922120104055	SRIRAM S	A DOCTOR PATIENT PORTAL FOR EFFECTIVE HEALTH CARE	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104057	SUBBIRAMANI R		
	922120104059	TAMIL ARASAN K		

XIV	922120104026	MOHAMED ARSATH M	A MACHINE LEARNING METHOD FOR PREDICTING DISEASE BASED ON SYMPTOMS	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104031	PIRUTHVI RAMANA V		
	922120104301	SRIRAM V M		
XV	922120104027	MOHAMED FAZIL I	DEVELOPING AN ADAPTIVE LEARNING SYSTEM USING MACHINE LEARNING E.	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104047	SHARMILA S		
	922120104060	VARSHINI U		
XVI	922120104032	POOJA M	AN AUTOMATED FISH FEEDING SYSTEM AND AQUACULTURE MONITORING USING IoT DEVICE	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104039	SAKTHI VIGNESHWARAN B		
	922120104058	SUBHA S		
XVII	922120104033	PRADEEP V	TRAVEL DIARY	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104034	PRAKASH S		
	922120104036	PRETHEEBA U		
XVIII	922120104038	SABARI KRISHNAN R	SKIN LEISON CLASSIFICATION OF DERMOSCOPIC IMAGES USING MACHINE LEARNING AND CNN	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104043	SANTHOSH R		
	922120104051	SIVA SUNDAR V		
XIX	922120104022	LOGATHARANI S	HEART DISEASE PREDICTION USING FLASK	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922120104049	SINDHUJA INFANT A		
	922120104050	SIVA SHANTHANA BHARATHI M		

List of Projects with relevance to POs and PSOs (2019 – 2023)

Batch No.	Reg. No.	Name of the Student	Title of the Project	Relevance to POs, PSOs
I	922119104001	AARTHICKRAJA A.P	CROP RECOMMENDATION AND FERTILIZER PREDICTION SYSTEM USING MACHINE LEARNING	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104049	VINO JOEL R		
II	922119104015	JAYASURIYA K.S	BLOCKCHAIN BASED MULTI DISEASE PREDICTION USING SUPPORT VECTOR MACHINE ALGORITHM	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104024	MOHAMED FAZIL S		
	922119104026	PERIYASAMY R		
III	922119104003	AKASH V S	CYBER SAFE COMMENTING	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104005	ARAVINDHAN G		
	922119104016	JEBARSON S		
IV	922119104004	ANANTHA NIVETHAN G R	DETECTING OBJECT AND TEXT-CONVERTING TO SPEECH	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104012	GURU V		
V	922119104013	HEMA S	PREDICTION OF CROP YIELD & WEATHER FORCASTING IN FARMLAND USING SENSOR DATA	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104019	LAYASHREE V		
	922119104051	YASMIN J		
	922119104502	ROSE MISHNA M		
VI	922119104014	JABITHA B	HEART DISEASE PREDICTION	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104023	MENAKA C		
	922119104029	PRASANTH S		
	922119104304	SUJITH R		
VII	922119104027	PRADEESHYUVAN P	EFFECTIVE PHISHING URL DETECTION	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104035	RAMPRASANTH A		
	922119104044	SUJIT SUKESSH S		

VIII	922119104030	PRAVEEN A	SMART RESTAURANT	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104037	SANJAY NARAYANAN S		
	922119104045	TAMIL SELVAN A		
IX	922119104031	PRITHISHIKA S	SAFETY HELMET FOR MINING WORKERS	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104032	PRIYADHARSHINI G		
	922119104039	SANTHOSINI K		
	922119104043	SRI VARSHINI K		
X	922119104034	RAMKUMAR N	BABY CARE PEDIATRICS TRACKER FOR NOTIFICATION INTELLIGENTS	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104301	ASHOK KUMAR G		
	922119104302	GURUBALAN A		
XI	922119104038	SANTHOSH KUMAR S	PREDICTION SYSTEM FOR BIGMART SALES USING MACHINE LEARNING	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104040	SARAVANAKUMAR G		
	922119104042	SHIFFIN PAUL J		
	922119104050	VISHWA BHARATHI J		
XII	922119104041	SATHEESH KUMAR G	FINDING MISSING PERSON BASED ON FACE RECOGNITION USING AI	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104047	VASANTHAN M P		
XIII	922119104002	AKASH S	INVOICE CREATION SOFTWARE WEBUCKS	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104009	DHANUSH KODI R		
	922119104011	DRISHYA R		
	922119104020	MADHUMITHA M		
XIV	922119104033	RAMJI K	INVOICE INITIALISER	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104036	SAHUL HAMEED A		
	922119104048	VIGNESHWARAN V		
XV	922119104010	DINESHKUMAR B	COLLEGE MANAGEMENT SYSTEM	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104046	VASANTH N		
	922119104052	YOGESH S		
XVI	922119104006	BENAZIR S	INVENTORY CONTROL AND ORDER MANAGEMENT	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922119104007	CATHERIN FREEDA F		
	922119104008	DEVADHARSHINI S		
	922119104017	JOSI ISITHOR A		
XVII	922119104303	RUBAN M	RTF REPORT APPLICATION	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
XVIII	922119104028	PRASANNA M	FAKE PRODUCT IDENTIFICATION SYSTEM	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
XIX	922119104025	NIVETHITHA S Y	DIGITAL ASSET MARKETPLACE BY SMART CONTRACTS USING BLOCKCHAIN TECHNOLOGY	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
XX	922119104018	KUBENDHRA S	DIANOSIS AND CLASSIFICATION OF TUBERCULOSIS USING WITH CHEST X-RAY IMAGES	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2

List of Projects with relevance to POs and PSOs (2018 – 2022)

Batch No.	Reg. No.	Name of the Student	Title of the Project	Relevance to POs, PSOs
I	922118104001	ARAVINDHAN M	VIRUTUAL REALITY AND COMMUNITY DRIVEN PLACEMENT PREPARATION PLATFORM	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104016	JOAQUIN RAJ S		
	922118104025	MARIVIGNESH R		
II	922118104002	BHUVANA RAJA M	ELEVTION RESULT PREDICTION USING MACHINE LEARNING TECHNIQUE	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104009	HARI PRASAD M		
	922118104026	NAGAMANI N		

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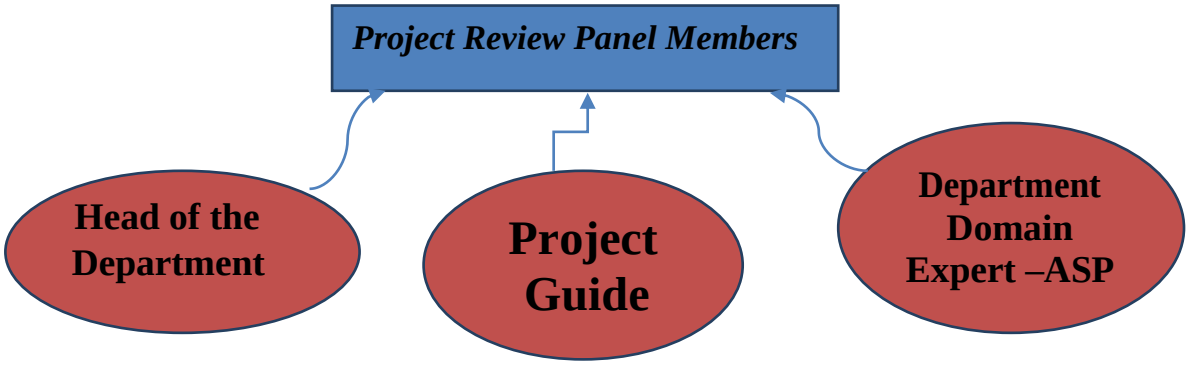
III	922118104003	CHANDRA R	FOETAL RISK ANALYSIS USING CARDIOTOCOGRAPHIC DATA	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104011	INDHUMATHI M		
	922118104027	NANDHINI S		
IV	922118104004	DEEPTHI THEJASVI E	LSTM BASED BREAST CANCER PREDICTION AND ANALYSIS	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104005	DHANUSIYA V S		
	922118104012	JANANI M		
V	922118104006	FAHIMA RIZWANA K	DETECTING AND PREVENTING HATE SPEECH ON SOCIAL MEDIA USING BACK PROPAGATION NEURAL NETWORK ALGORITHM	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104022	KRISHNA SREE K		
VI	922118104007	GAYATHRI RS	CORONARY ILLNESS PREDICTION USING MACHINE LEARNING TECHNIQUES ENSEMBLE METHOD	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104044	SARAVANAKUMARAN B		
	922118104045	SHERLINE SNEHA M		
	922118104054	VIJAYA SUBHA G		
VII	922118104008	GOKUL S	PREDICYION AND VISUALISATION OF CRIME DATA USING BIG DATA ANALYSIS	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104015	JEGAN M		
	922118104021	KRISHNA V		
VIII	922118104010	HINDUJA M	MULTIPLE LEUKEMIA DETECTION FROM CELL IMAGES USING DEEP LEARNING TECHNIQUE	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104013	JANANI M		
	922118104018	KEERTHIKA R		
IX	922118104014	JAYA PRIYA G	EFFICIENT MEDICAL RECORD SHARING USING BLOCKCHAIN WITH INSURANCE PROCESSING	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104043	SARANYA S		
X	922118104017	JOTHIKA M	RETINAL IMAGE SEGMENTATION AND CLASSIFICATION USING NEURAL NETWORK ALGORITHM	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104019	KIRTHIKA K		
	922118104020	KIRUBHA SHREE V		
XI	922118104023	LIVIN IRUTHAYA RAJ T	COVID-19 DETECTION BASED ON CT IMAGES USING DEEP LEARNING	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104024	LOYOLA L		
	922118104051	THARUNSHANKAR S		
XII	922118104028	NANDHINI T	FOREST FIRE DETECTION AND RECOGNITION SYSTEM USING CONVOLUTIONAL NEURAL NETWORK ALGORITHM	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104047	SRIVANI S		
	922118104048	SRUTHI K		
XIII	922118104030	NAVEENDRAN S	FACE BIOMETRIC AUTHENTICATION SYSTEM FOR ATM USING DEEP LEARNING	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104031	NAVEEN KUMAR K		
	922118104050	SURIYA KUMAR V		
XIV	922118104032	OVIYA PRIYADHARSHINI V	SOCIAL NETWORK'S RISK ASSESSMENT USING A DEEP CONVOLUTIONAL NEURAL NETWORK ALGORITHM	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104037	PRIYADHARSHINI V		
	922118104042	SAMRITHA ATCHAYA S		
XV	922118104034	POORNA KUMAR R	WINDSHIELD GLASS CAMERA VISION BASED DISTRACTED DRIVER DETECTION AND ALERT SYSTEM USING DEEP LEARNING	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104050	SURIYA KUMAR V		
	922118104052	VIGNESH R		
XVI	922118104035	PRADEEPA R	ONLINE VOTING SCHME WITH FACE BIO-METRIC VERIFICATION USING BLOCKCHAIN TECHNOLOGY	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104041	SAJIHARINIKA S		
	922118104055	YOGALAKSHMI B		
XVII	922118104036	PRATHIBA M	PATIENT HEALTH RECORD-MOBILE APP[IOS]	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
XVIII	922118104038	PUNITH BABU M	SECURE CLOUD STORAGE FOR IMAGES	PO 1, 2, 3, 4, 5, 6, 8, 9,10,11,12 PSO 1,2
	922118104049	SUDHAN M		
	922118104053	VIJAY G		

C. Process for monitoring and evaluation (5)

The process of monitoring and evaluation of projects is done by the project review panel. Project review panel is framed consisting the following members,

i) Head of the Department,
ii) Project coordinator,
iii) Project Guide and
iv) Faculty-Domain expert of the department.

In the above said project review panel, the project guide and domain expert may change based on the project batch.



- ✓ The project review panels cutinizes the project during all the reviews.
- ✓ The project review panel provides required recommendations, suggestions to the student's batch during the review.
- ✓ The project review panel also awards the internal marks to the students' based on their contribution to the project work and attendance during their project work.
- ✓ The allocation of marks is done as provided by the Anna University. Zeroth reviewwill have attendance weightage only. Other all other three reviews carry marks as mentioned in the mark's allocation table.
- ✓ The Anna University evaluation will be done with an external expert member and the evaluation marks will be allocated during the student's end semester examinations.

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Review I	Review II	Review III	EndSemesterExaminations				
			ThesisSubmission(30)		Viva-Voice(50)		
5	7.5	7.5	15	15	15	20	15

Sample Circular

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai & Accredited by NAAC)

Dindigul - Palani Highway, Dindigul

Department of Computer Science and Engineering

Review –Panel Members List and Review Schedules

Academic Year 2023-2024(Even)

In regard to conduct of Project review for the students of Final Year, the list for review panel members for each review and the date of conduct is listed below. Faculty members shall coordinate for the smooth conduct of review.

S.No	Review Date	Review	Review Panel Member
1	14/2/24	0th Review	Dr.C.sujatha Dr.G.Prabu Mrs.J.Dhanalakshmi
2	27/2/24	1st Review	Dr.C.sujatha Dr.G.Prabu Mrs.J.Dhanalakshmi
3	26/3/24	2nd Review	Dr.C.sujatha Dr.G.Prabu Mrs.J.Dhanalakshmi
4	23/4/24	3rd Review	Dr.C.sujatha Dr.G.Prabu Mrs.J.Dhanalakshmi

Project Coordinator

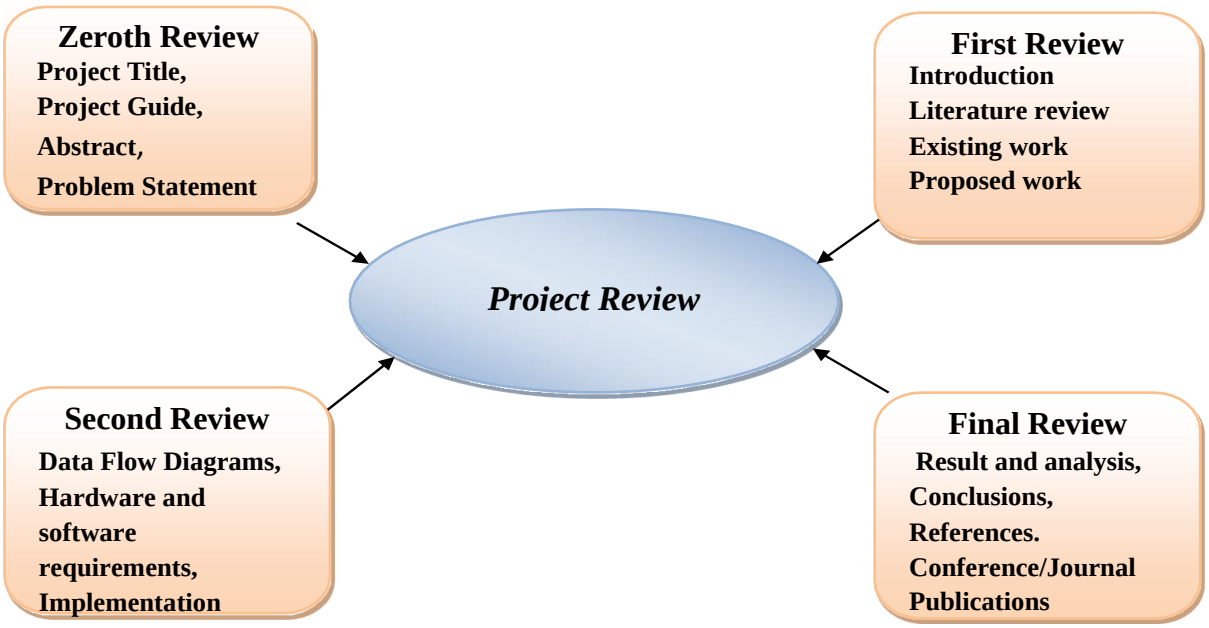
Mrs.J.Dhanalakshmi

HoD/CSE

Dr.C.Sujatha

D. Process toassessindividualandteamperformance(5)

- ✓ The total project process commence during the start of the academic year odd semester itself, even though it is the end semester project. This proposal helps the student to do all their preliminary works for their project.
- ✓ For the industrial projects, it helps the students and their guide to get the permission ,to fix their project itinerary, well in advance from the industry. By this, any delay in starting the project work can be avoided.
- ✓ In,zeroth review, project title and project guide will be identified by the students.Students formulate the abstract of their project work. This abstract will be get approved during the zeroth review.
- ✓ In the first review, introduction part, literature survey for the proper understanding of their project, Existing work and proposed works will be completed.
- ✓ In the second review, Data Flow Diagrams, Hardware and Software Requirements are identified and will begin their implementation details.
- ✓ In the final review, discussion of results, conclusion, futuristic work of the project, references. Bibliography parts will be covered. Then after the approval by the review panel, students shall be asked to prepare their project report. The report may be checked by the project guide for the corrections and format then the book shall be prepared.



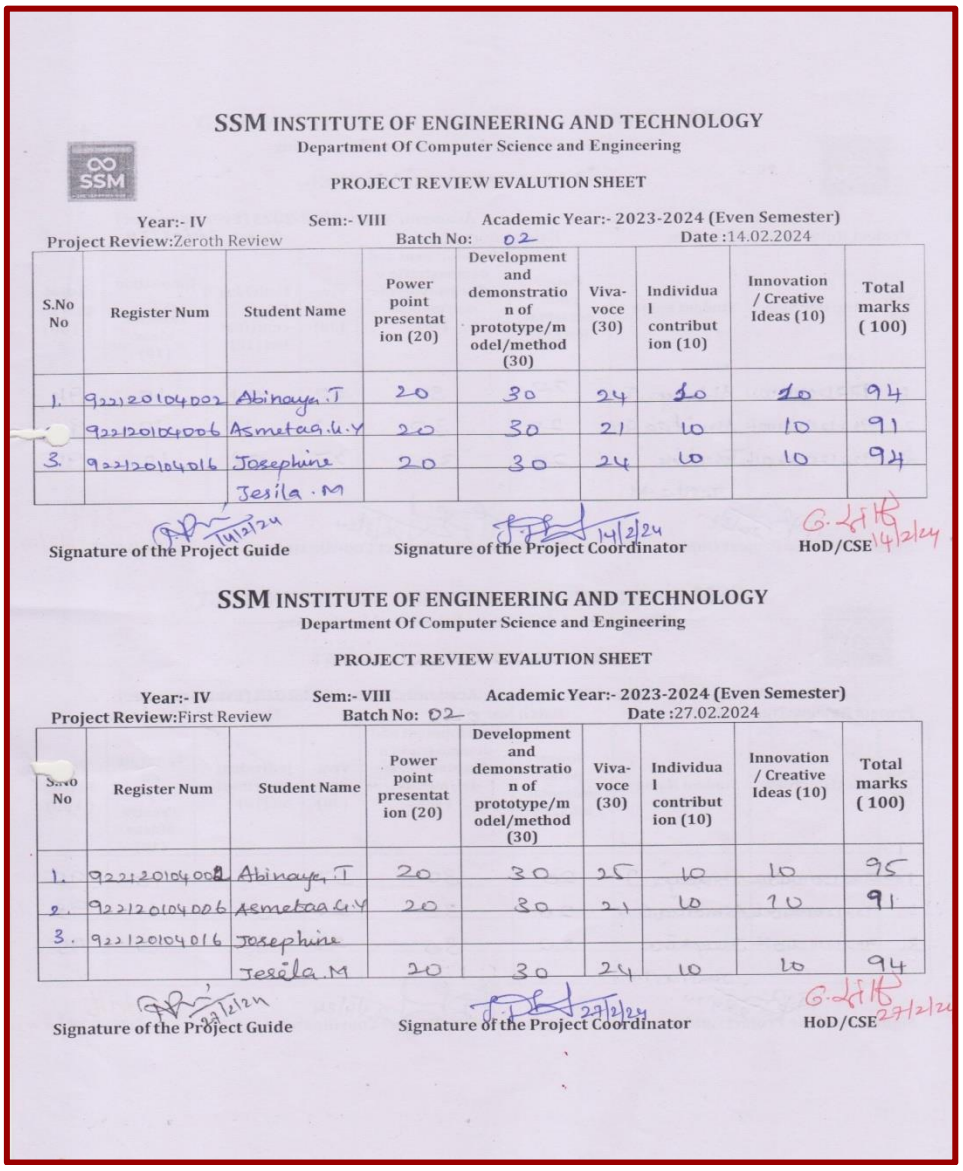
- ✓ During the final review, project panel review committee recommends the

projectworkfortheInternational/Nationalleveljournalpublications/National/InternationalConferences.

- ✓ During the Anna university end semester practical examinations, an external expert member will evaluate the student's project and award the marks with the support oftheinternalexaminer.TheschemeofevaluationisprovidedbytheAnnaUniversity.

Review I	Review II	Review III	End Semester Examinations				
			Thesis Submission(30)		Viva-Voice(50)		
5	7.5	7.5	15	15	15	20	15

Sample of performance assessment



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department Of Computer Science and Engineering

PROJECT REVIEW EVALUTION SHEET

Year:- IV Sem:- VIII Academic Year:- 2023-2024 (Even Semester)
Project Review:Zeroth Review Batch No: 02 Date :14.02.2024

S.No No	Register Num	Student Name	Power point presentation (20)	Development and demonstration of prototype/model/method (30)	Viva-voce (30)	Individual contribution (10)	Innovation / Creative Ideas (10)	Total marks (100)
1.	922120104002	Abinaya. T	20	30	24	10	10	94
2.	922120104006	Asmetaa.G.Y	20	30	21	10	10	91
3.	922120104016	Josephine Jesila. M	20	30	24	10	10	94

Signature of the Project Guide 14/2/24 Signature of the Project Coordinator 14/2/24 HoD/CSE 14/2/24

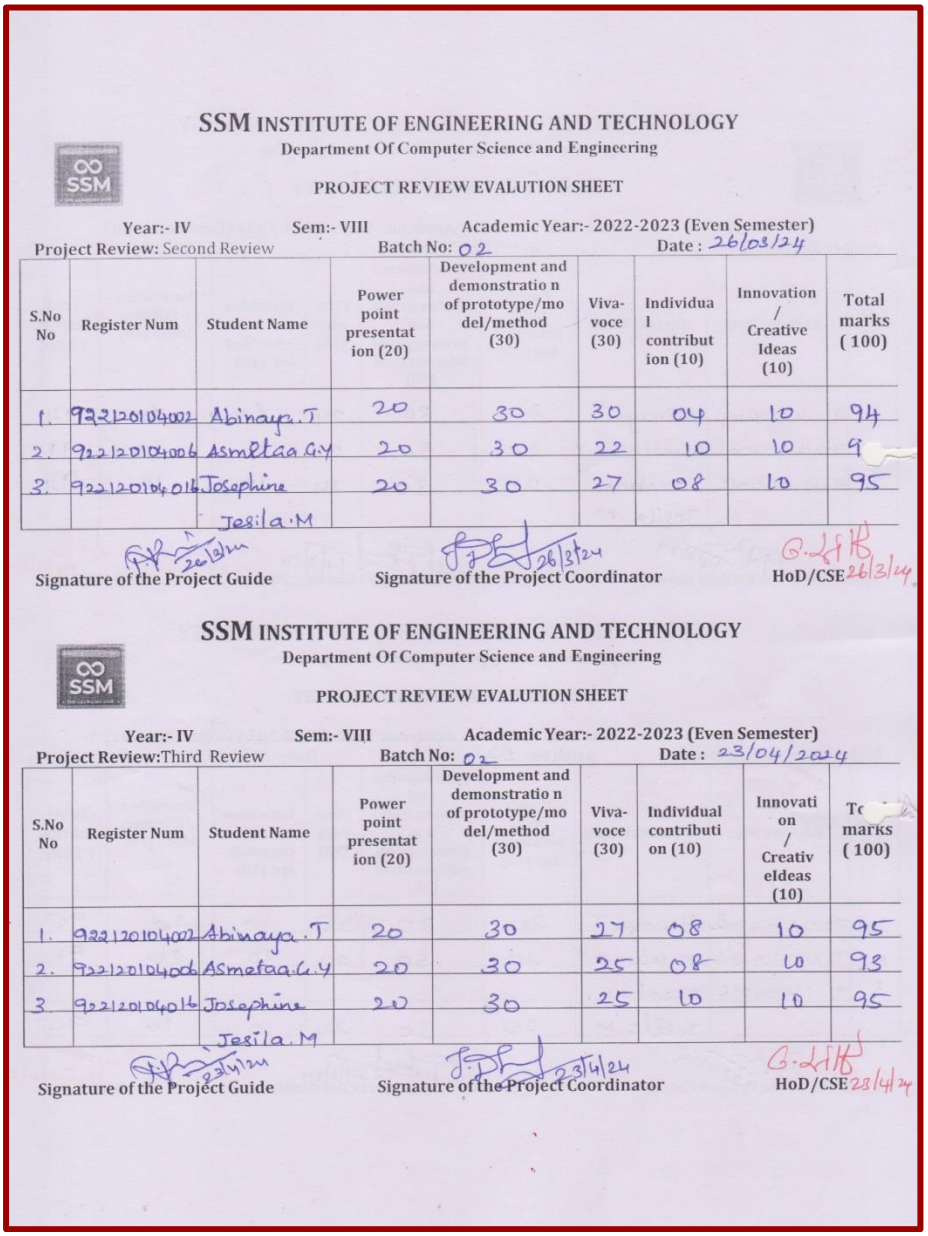
SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department Of Computer Science and Engineering

PROJECT REVIEW EVALUTION SHEET

Year:- IV Sem:- VIII Academic Year:- 2023-2024 (Even Semester)
Project Review:First Review Batch No: 02 Date :27.02.2024

S.No No	Register Num	Student Name	Power point presentation (20)	Development and demonstration of prototype/model/method (30)	Viva-voce (30)	Individual contribution (10)	Innovation / Creative Ideas (10)	Total marks (100)
1.	922120104002	Abinaya. T	20	30	25	10	10	95
2.	922120104006	Asmetaa.G.Y	20	30	21	10	10	91
3.	922120104016	Josephine Jesila.M	20	30	24	10	10	94

Signature of the Project Guide 27/2/24 Signature of the Project Coordinator 27/2/24 HoD/CSE 27/2/24



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department Of Computer Science and Engineering

PROJECT REVIEW EVALUTION SHEET

Year:- IV Sem:- VIII Academic Year:- 2022-2023 (Even Semester)

Project Review: Second Review Batch No: 02 Date : 26/03/24

S.No No	Register Num	Student Name	Power point presentation (20)	Development and demonstration of prototype/model/method (30)	Viva-voce (30)	Individual contribution (10)	Innovation / Creative Ideas (10)	Total marks (100)
1.	922120104002	Abinaya.T	20	30	30	04	10	94
2.	922120104006	Asmetaa.G.Y	20	30	22	10	10	92
3.	922120104016	Josephine Jesila.M	20	30	27	08	10	95

Signature of the Project Guide Signature of the Project Coordinator HoD/CSE 26/3/24

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department Of Computer Science and Engineering

PROJECT REVIEW EVALUTION SHEET

Year:- IV Sem:- VIII Academic Year:- 2022-2023 (Even Semester)

Project Review:Third Review Batch No: 02 Date : 23/04/2024

S.No No	Register Num	Student Name	Power point presentation (20)	Development and demonstration of prototype/model/method (30)	Viva-voce (30)	Individual contribution (10)	Innovation / Creative Ideas (10)	Total marks (100)
1.	922120104002	Abinaya.T	20	30	27	08	10	95
2.	922120104006	Asmetaa.G.Y	20	30	25	08	10	93
3.	922120104016	Josephine Jesila.M	20	30	25	10	10	95

Signature of the Project Guide Signature of the Project Coordinator HoD/CSE 23/4/24

E. Qualityofcompleted projects/workingprototypes(5)

Students are encouraged to prepare a write up of their findings as a technical paper andpublish the same in any conferences/journals/symposiums. Such activity will be considered for scoring good marks.

Best Project Evaluation scheme

S.No.	PerformanceIndicator	Marks
1	Innovativeness & creativity of the project	10
2	Review of literature& related studies about the project	10
3	Implementation Strategies	10
4	Question and Answer	10

F. Evidences of papers published/Awards received by projects etc.(2)

Journal Publication (Academic Year 2023-2024)

S.No	Journal Name	PaperTitle	Student Name	Year
1	International Journal of Creative Research Thoughts(IJCRT)	Stock Forecast Using Python	Abinaya G Logeshwari P SanthiyaDharshini S	2024
2	International Journal for Science and Advance Research in Technology(IJSART)	Greenmarket Oasis	Abinaya T Asmetaa G Y Josephine Jesila M	2024
3	International Journal of Research and Analytical Reviews(IJRAR)	Empowering Individuals Financial Through Inituitive Tracking And Strategic Budgeting	Akalya A N Anu P Bhoomika R	2024
4	International Journal of Innovative Science and Research Technology(IJISRT)	Identification Of Missing Person Using Convolutional Neural Networks	Ashok Kumar M Shalini J Soundharya Devi M	2024
5	Journal of Emerging Technologies and Innovative Research(JETIR)	Wellness Whisperer Chatbot	Balasurya R Hareeswaran S SanjeevSaravanan S	2024
6	International Journal of Engineering,Management and Humanities(IJEMH)	No Code Website Builder For Freelancing Agencies	Dinesh Raja E Evans Abraham J Mohamed Hadhi S	2024
7	Journal of Emerging Technologies and Innovative Research(JETIR)	Virtual Cursor: Fusion Of Hand Gestures And Eye Tracking	Harini S Jeyashree S Sriram J	2024

8	International Journal for Science and Advance Research in Technology(IJSART)	Develop The Care Of Alzheimer Patient Using Flutter	Jeeva J Sridharan S Madhesh Kumar D	2024
9	International Journal for Research in Applied Science and Engineering Technology(IJRASET)	Malware Analysis Using Transfer Learning	Johans Praveen S Reena M Satheesh Kumar K	2024
10	International Journal for Research in Applied Science and Engineering Technology(IJRASET)	A Compassionate Veterinary Care Platform	Karunya M D Preethiga M Vinoth Kumar A	2024
11	International Journal of Creative Research Thoughts(IJCRT)	Online Crime Reporting System	Karuppaiya M Mugilan M ParthiPrasath N	2024
12	Indian Institution of Industrial Engineering Journal(IIE)	A Deep Learning Approach For Autism Classification In Children Using Multilayer Perceptron	Lokesh G Sanjay Pandi M Saran Pandian S	2024
13	International Journal of Scientific Research in Engineering and Management(IJSREM)	A Doctor Patient Portal For Effective Health Care	Sriram S Subbiramani R Tamil Arasan K	2024
14	International Journal of Scientific Research in Engineering and Management(IJSREM)	A Machine Learning Method For Predicting Disease Based On Symptoms	Mohamed Arsath M PiruthviRamana V Sriram V M	2024
15	International Journal of Research and Analytical Reviews(IJRAR)	Developing An Adaptive Learning System Using Machine Learning E.	Mohamed Fazil I Sharmila S Varshini U	2024
16	International Journal of Research and Analytical Reviews(IJRAR)	An Automated Fish Feeding System And Aquaculture Monitoring Using Iot Device	Pooja M SakthiVigneshwaran B Subha S	2024
17	International Journal of Novel Research and Development(IJNRD)	Travel Diary	Pradeep V Prakash S Pretheeba U	2024
18	International Journal of Research and Analytical Reviews(IJRAR)	Heart Disease Prediction Using Flask	Logatharani S Sindhuja Infant A Siva ShanthanaBharathi M	2024

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Journal Publication (Academic Year 2022-2023)

S. No	Journal Name	Paper Title	Student Name	Year
1	Industrial Engineering Journal	Cyber-Safe Commenting	Akash V Jebarson S Aravindhan G	2023
2	International Journal of Scientific Research in Engineering and Management(IJSREM)	Virtual Joystick Application	Tamilarasan K Subbiramani R Madhesh Kumar D Siva ShanthanaBharathi	2023
3	International Journal for Science and Advance Research in Technology	Samrt Restaurant Management Application	Sanjay Narayanan S Praveen A Tamil Selvan A	2023
4	International Journal of Research and Analytical Reviews	Prediction of Crop Yield & Weather Forecasting in Farmland and using Sensor Data	Hema S Layashree V Yasmin J Rose Mishna M	2023
5	International Research Journal of Modernization in Engineering Technology and Science	Prediction of Crop Yield & Weather Forecasting in Farmland using Sensor Data	Hema S Layashree V Yasmin J Rose Mishna M	2023
6	International Journal of Research and Analytical Reviews	Automatic Fish Classification System using Deep Learning	Suganya S Varshini U Sharmila S Abinaya Josephine Jesila	2023
7	Industrial Engineering Journal	Blockchain Based Multi Disease Prediction using Support Vector Machine Algorithm	Periyasamy R Mohamed Fazil Jayasurya K S	2023
8	Industrial Engineering Journal	Inappropriate Language and Hate Speech Recognition Speech Recognition	Asmetaa G Y Harini S Jeyashree S Sriram J	2023
9	Industrial Engineering Journal	Prediction System for Bigmart Sales using Machine Learning	Santhoshkumar S Saravanakumar G Shiffin Paul J VishwaBharathi J	2023

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International/National Conference (Academic Year 2021-2022)

S.No	Student Name	Year	Venue	Paper Title	Date/ Duration	Name	PRIZE / Participation
1	B.Yogalakshmni R.Prateeba S.Sajiharinika	IV	NadarSaraswathi college of Engineering,Theni	Online voting Scheme with face bio-metric verification using block chain Technology	16&17 June 2022	ICNSCET-2022	Partcipated and presented
2	G.Vijayasubha R.S.Gayathri B.saravanakumaran M.SherlineSneha	IV	NadarSaraswathi college of Engineering,Theni	Coronary illness prediction usig Machine learning techniques – Ensemble method	16&17 June 2022	ICNSCET-2022	Partcipated and presented
3	T.LivinIrudayaraj A.Loyola S.S.Tharun Shankar	IV	NadarSaraswathi college of Engineering,Theni	Covid – 19 Detection based on CT scan images using deep learning	16&17 June 2022	ICNSCET-2022	Partcipated and presented
4	Naveen Kumar NaveendranS Shreevathsan	IV	NadarSaraswathi college of Engineering,Theni	Face Bio-Metric Authentication System for ATM using Deep Learning	16&17 June 2022	ICNSCET-2022	Partcipated and presented
5	G.Vijay M.Punithbabu M.Sudhan	IV	NadarSaraswathi college of Engineering,Theni	Secured Cloud storage for images	16&17 June 2022	ICNSCET-2022	Partcipated and presented
6	R.Poornakumar V.Suriya Kumar R.Vignesh	IV	NadarSaraswathi college of Engineering,Theni	Wind Shield Glass Camera vision based distracted driver detection and alert system using deep learning	16&17 June 2022	ICNSCET-2022	Partcipated and presented
7	M.Janani R.Keerthka, M.Hinduja	IV	NadarSaraswathi college of Engineering,Theni	Multiple Leukemia detection from cell images using deep learning Techniques	16&17 June 2022	ICNSCET-2022	Partcipated and presented
8	K,Krishnashree FahimaRizwana	IV	NadarSaraswathi college of Engineering,Theni	Detecting And Preventing Hate Speech On Social Media Using Back Propagation Network Algorithm	16&17 June 2022	ICNSCET-2022	Partcipated and presented
9	R.Chandra, M.Indhumathi, S.Nandhini	IV	NadarSaraswathi college of Engineering,Theni	Foetal Risk Analysis Using Cardiotocographic Data	16&17 June 2022	ICNSCET-2022	Partcipated and presented
10	E. DeepthiThejasvi, V.S. Dhanusiya, M.Janani	IV	NadarSaraswathi college of Engineering,Theni	LSTM Work Based Breast Cancer Prediction And Analysis	16&17 June 2022	ICNSCET-2022	Partcipated and presented
11	M.Bhuvanaraja, N.Nagamani, M. Hariprasath	IV	NadarSaraswathi college of Engineering,Theni	Election Result Prediction Using Machine Learning Techniques	16&17 June 2022	ICNSCET-2022	Partcipated and presented
12	S.Gokul, M. Jegan, V. Krishna	IV	NadarSaraswathi college of Engineering,Theni	Prediction And Visualisation Of Crime Data Using Big Data Analytics	16&17 June 2022	ICNSCET-2022	Partcipated and presented

ImpactAnalysis:

- ✓ The effectiveness of this practice can be gauged by the great response of the participants of the workshops.
- ✓ Students picked up what they learn at the workshops to implement their own mini project and also final year projects.
- ✓ Students gained from this exposure to incorporate an entrepreneurial spirit and project based thinking

2.2.4 Initiatives related to industry interaction

The department organize training program related to current industry trends and demands, and the trainers are outsourced from industry. The alumni coordinator constantly interacts with alumni and requests them to provide necessary guidelines and supports for the junior's industrial visit/internship.

MOU's was done with industries to emphasize on

(a) Internship

(b) Seminars, Workshops, Hands-on training for Students

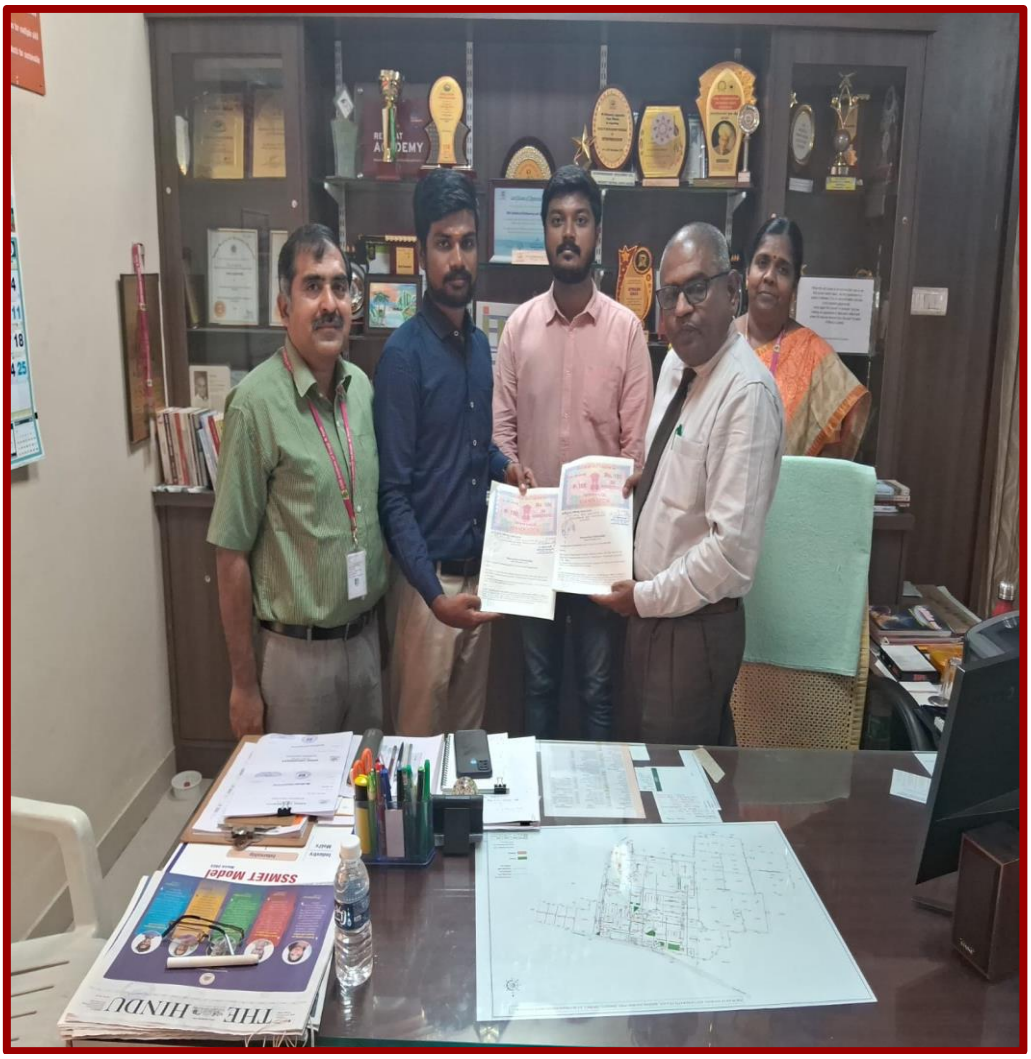
(c) Industrial Visits

(d) Faculty Development Program

List of MoU Signed Companies:

S.No	Name of the Industry	Date of Signing MoU
1	Vinculo,Dindigul	19.01.2024
2	Svasti Technology solutions	24.11.2023
3	Accent Techno Soft(ATS)	04.02.2023
4	Maxelerator Foundation	28.12.2022
5	Spotlight Technology	21.10.2022
6	Tracin Robotics	18.08.2022
7	PiraiInfotech Private Limited	27.02.2021
8	Red Hat India Private Limited	26.11.2018
9	Airmate Technologies , Chennai	06.10.2018

10	Silicon Software Services	21.08.2018
11	Elysium Private Limited	04.08.2018
12	Cloud Systems	01.11.2018
13	NIIT – Dindigul	24.11.2017
14	Gateway Software Solutions	16.11.2017
15	MicroGenesis TechSoft Private Limited	24.09.2013



Svasti Technology solutions-SSMIET-MoUSigned

தமிழ்நாடு तमिलनाडु TAMILNADU

DE 659879

23.11.2023 SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY DINDIGUL

R. Padmavathy

ர.பத்மாவதி

முத்திரை தாள் விற்பனையாளர்

(உ.எண்:3935 / ஆ1 / 2000)

5/4, கச்சேரித்தெரு, திண்டுக்கல்-1

Memorandum of Understanding

Centre of Excellence (CoE)

This Memorandum of Understanding (MoU) is executed on the 24th November 2023.

Between

SSM Institute of Engineering and Technology Engineering, Dindigul, Tamil Nadu, India with THE FIRST PARTY represented herein by its the Dr. D. Senthil Kumaran – Principal (herein after referred as **"First Party"**,

the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in – office, administrators and assigns)

And

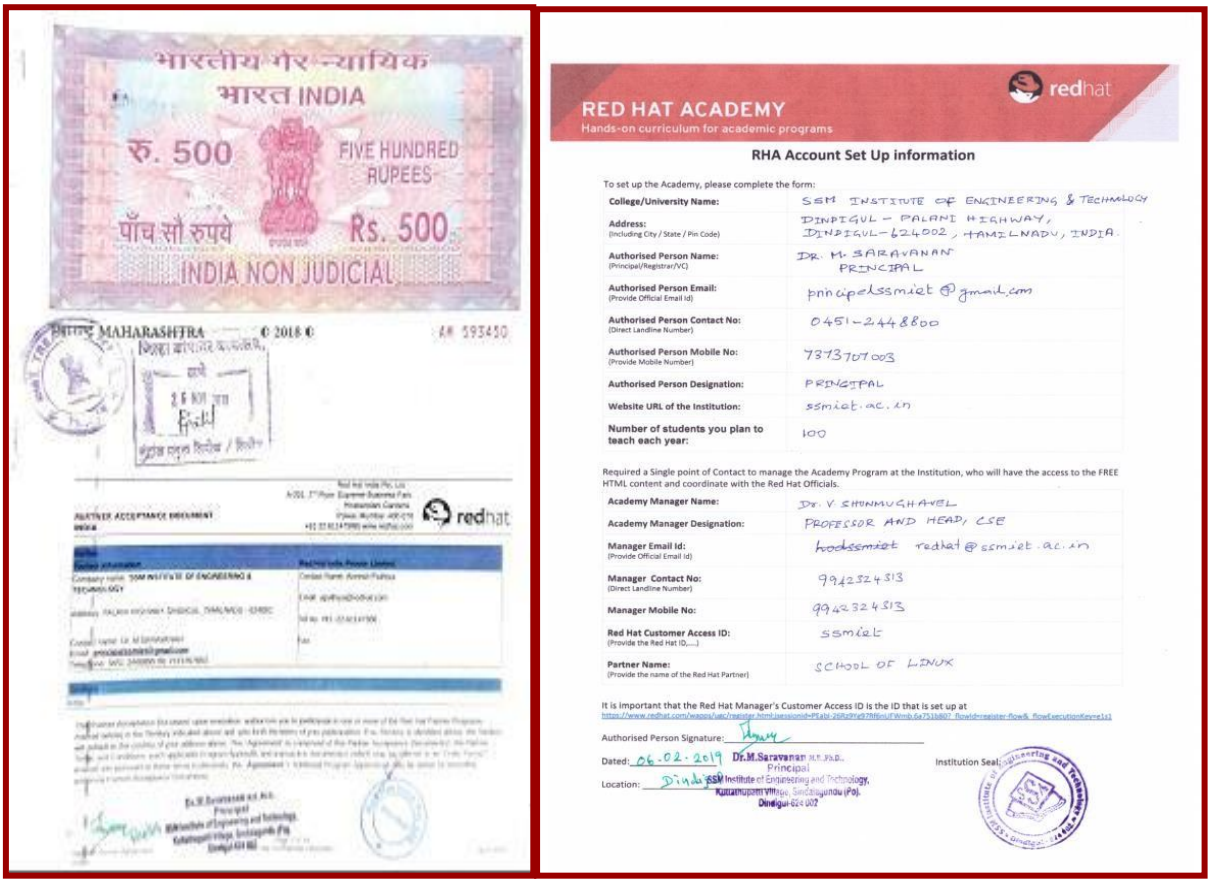
SVASTI TECHNOLOGY SOLUTIONS, represented by the **Chief Executive Officer, Er. Kesavan A** having their Registered office at EDII-Anna Business Incubation Research Foundation, University College of Engineering, BIT Campus, Anna University, Tiruchirappalli-620024, India, (hereinafter referred to as **"SVASTI"** which expression shall, unless repugnant to the meaning or context thereof, be deemed to include its holding, subsidiary, group companies and affiliates and assigns) of the Second Part.

A. Kesavan

CRITERION 2 PROGRAM CURRICULUM AND TEACHING – LEARNING PROCESSES 120

A. Industry Supported Laboratory

Red Hat Linux: Developed by Red Hat engineers to help you improve performance, troubleshoot issues, identify security problems, and optimize configuration.



भारतीय गैर-न्यायिक
भारत INDIA
रु. 500 FIVE HUNDRED RUPEES
पाँच सौ रुपये Rs. 500
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redhat

PARTNER ACCEPTANCE DOCUMENT

RED HAT ACADEMY
Hands-on curriculum for academic programs

redhat

RHA Account Set Up information

To set up the Academy, please complete the form:

College/University Name:	SSM INSTITUTE OF ENGINEERING & TECHNOLOGY
Address: (Including City / State / Pin Code)	DINDIGUL – PALANI HIGHWAY, DINDIGUL–624002, TAMILNADU, INDIA.
Authorised Person Name: (Principal/Registrar/VC)	DR. M. SARAVANAN PRINCIPAL
Authorised Person Email: (Provide Official Email id)	principalssmiet@gmail.com
Authorised Person Contact No: (Direct Landline Number)	0451-2448800
Authorised Person Mobile No: (Provide Mobile Number)	7373707003
Authorised Person Designation:	PRINCIPAL
Website URL of the Institution:	ssmiet.ac.in
Number of students you plan to teach each year:	100

Required a Single point of Contact to manage the Academy Program at the Institution, who will have the access to the FREE HTML content and coordinate with the Red Hat Officials.

Academy Manager Name:	Dr. V SHUNMUGAVEL
Academy Manager Designation:	PROFESSOR AND HEAD, CSE
Manager Email Id: (Provide Official Email id)	hodcsessmiet redhat@ssmiet.ac.in
Manager Contact No: (Direct Landline Number)	9942324313
Manager Mobile No:	9942324313
Red Hat Customer Access ID: (Provide the Red Hat ID,....)	SSMIET
Partner Name: (Provide the name of the Red Hat Partner)	SCHOOL OF LINUX

It is important that the Red Hat Manager's Customer Access ID is the ID that is set up at https://www.redhat.com/wapps/uac/register.html;jsessionid=PEabl-26Rd9Ye97fNlnUFWmb.6a751bb807_flowId=register-flow&_flowExecutionKey=e1s1

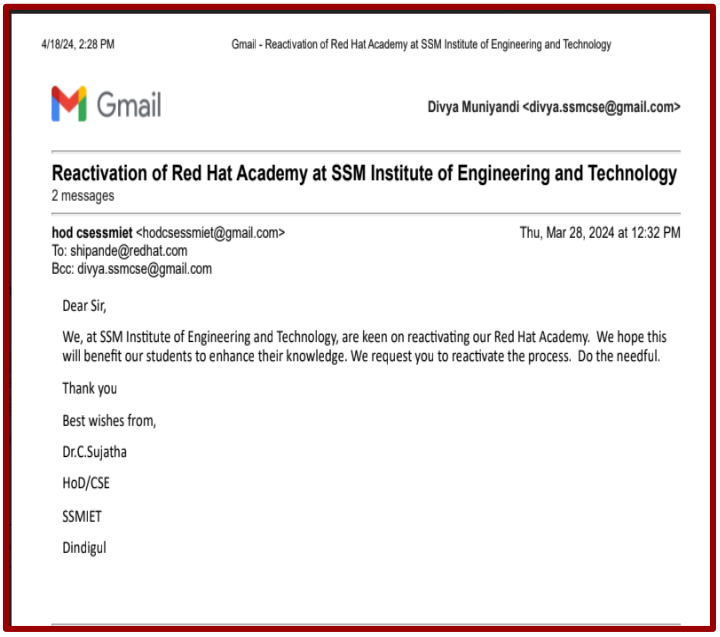
Authorised Person Signature:

Dated: 06-02-2019 Dr.M.Saravanan M.E.,Ph.D., Principal

Location: Dindigul SSM Institute of Engineering and Technology, Kuttathupatti Village, Sindalagundu (Po), Dindigul-624 002

Institution Seal

RedHatLinux



4/18/24, 2:28 PM Gmail - Reactivation of Red Hat Academy at SSM Institute of Engineering and Technology

Gmail Divya Muniyandi <divya.ssmcse@gmail.com>

Reactivation of Red Hat Academy at SSM Institute of Engineering and Technology
2 messages

hod csessmiet <hodcsessmiet@gmail.com> Thu, Mar 28, 2024 at 12:32 PM
To: shipande@redhat.com
Bcc: divya.ssmcse@gmail.com

Dear Sir,

We, at SSM Institute of Engineering and Technology, are keen on reactivating our Red Hat Academy. We hope this will benefit our students to enhance their knowledge. We request you to reactivate the process. Do the needful.

Thank you

Best wishes from,

Dr.C.Sujatha

HoD/CSE

SSMIET

Dindigul

Red Hat Linux Renewal

B. Industry involvement in the program design and partial delivery of any regular courses for students

Value Added Courses

Industry professionals handle the classes for Value added courses. Value added courses are conducted in the department are listed below:

S. No	Academic year	Name of the course	Name of the company	Duration
1	2023-2024	Web Designing Using React	potlight Technology	06 days
2	2023-2024	Application Of Java Programming	Techvolt Software Private Limited	06 days
3	2023-2024	Software Testing - Selenium Tool	Svasti Technology solutions	05 days
4	2023-2024	Open Source App Development Using Flutter	Accent Techno Soft(ATS)	07 days
5	2022-2023	Web Technology	Silicon Software Services	10 days
6	2021-2022	Problem Solving using C Programming	Silicon Software Services	8 days
7	2021-2022	Advanced Java Programming	Silicon Software Services	8 days

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Events

Events conducted in the department are listed below:

S.No	Academic Year	Organization with which MOU is signed	Event conducted	Event duration with date
1	2023-2024	Svasti Technology solutions	Automate the Testing of Applications using Selenium and TestNG	18.03.2024
2	2022-2023	MaxeleratorFountation Madurai	Innovation Activity-Build Club	11.01.2023 12.01.2023
3	2022-2023	MaxeleratorFountation Madurai	AI and ML Workshop	06.02.2023 10.02.2023
4	2022-2023	MaxeleratorFountation Madurai	Student Internship	03.07.2023 14.07.2023
5	2022-2023	Pirai InfoTech	Student Internship	10.02.2023 10.08.2023
6	2022-2023	Pirai InfoTech	Cloud & Container	18.10.2022 18.10.2022
7	2022-2023	Spotlight Technology	App Development using Java and python	21.10.2022 21.10.2023
8	2022-2023	Tarcin Robotics	Awareness in Azure Cloud Computing	18.08.2022 18.08.2022
9	2022-2023	Accent Techno soft	Problem Solving and Python Programming	01.02.2023 02.02.2023
10	2022-2023	Accent Techno soft	Drone Technology	13.10.2023 14.10.2023
11	2022-2023	Silicon Software Services,Madurai	TechnologyTrainingonWeb Technology	06.03.2023 17.3.2023
12	2022-2023	RedHatIndiaPvt.Ltd	DataSciencewithPython	01.11.2022 02.11.2022
13	2022-2023	Airmate Technologies Pvt.Ltd Chennai	Oracle APEX	02.11.2022 03.11.2023
14	2021-2022	Pirai InfoTech	Alumni Talk	01.04.2022 01.04.2022

15	2021-2022	Silicon Software Services, Madurai	Technology Training on Web Technology	26.05.2022 03.06.2022
16	2021-2022	Red Hat India Pvt.Ltd	Python Programming with Red Hat	04.04.2022 04.04.2022
17	2021-2022	Airmate Technologies Pvt.Ltd Chennai	Deep Learning	01.04.2022 01.04.2022

Effectiveness:

Feedbacks are collected from students about industrial visit and value added courses and the impact of such involvement assessed to streamline the internship ad courses for subsequent baches.

C. Impact analysis

- Students acquire technical information through seminars, guest lectures, work shops and participation in conferences help them to implement their mini projects as well as the final year projects.
- Students gain knowledge to incorporate an entrepreneurial spirit and project based thinking.
- Enhances innovative thinking which increases their capability by boosting their confidence level.
- Strengthen cooperation and enhances participation.
- Common understanding of concepts and patterns of implementation in different industrial environment.

2.2.5 Initiatives related to industry internship/summer training

A. Industrial training/tours for students

(3)Industrial Visits:

Industry visits are organized by the department in a year basis. Every year at the end of odd semester, students will be asked to go for industrial visits.

The faculty members of the department constantly try to interact with IT industries for industrial visit.

2023-2024		
S.No.	**Nameof theOrganization**	**Dateof Visit**
1	Masco Tea Factory, Vagamon - Kerala	05.09.2023
2	United Soft Tech, Salem	09.12.2023
3	IPSR Solutions LTD, Kochi	12.04.2024
2022-2023		
1	Enthu Technology Solutions India PVT LTD, Coimbatore	11.11.2022
2	Techvolt Software PVT LTD, Coimbatore	18.11.2022
3	Kitkat Software Technologies, Coimbatore	18.11.2022
4	All India Radio, Kodai FM 100.5MHz, Kodaikanal	10.05.2023
2021-2022		
1	Enthu Technology Solutions India PVT LTD, Coimbatore	05.04.2022
2	Techvolt Software Private Limited, Coimbatore	11.04.2022

CRITERION 2 PROGRAM CURRICULUM AND TEACHING – LEARNING PROCESSES 120

2023-2024			
S.No	**Year**	**IndustryDetails**	**Photos**
1	III year	Masco Tea Factory, Vagamon– Kerala 05.09.2023	
2	II year	United Soft Tech, Salem 09.12.2023	
3	IV year	IPSR Solutions LTD, Kochi 12.04.2024	

CRITERION 2 PROGRAM CURRICULUM AND TEACHING – LEARNING PROCESSES 120

2022-2023			
S.No	**Year**	**IndustryDetails**	**Photos**
1	III year	Enthu Technology Solutions India PVT LTD, Coimbatore (11.11.2022)	
2	II year	Techvolt Software PVT LTD, Coimbatore (18.11.2022)	
3		Kitkat Software Technologies, Coimbatore (18.11.2022)	

4	II year	All India Radio, Kodai FM 100.5MHz, Kodaikanal (10.05.2023)	

2021-2022			
S.No	**Year**	**IndustryDetails**	**Photos**
1	III year	Enthu Technology Solution India Private Limited, Coimbatore (05.04.2022)	
2	IV year	Techvolt Software Private Limited, Coimbatore (11.04.2022)	

B. Industrial/internship/summer training of more than two weeks and post training Assessment(4)

Students are instructed to attend 2 weeks internship/summer training programs in a relevant industry like,

- MoU or tie-up industries with the department of Computer Science and Engineering,
- Government organizations/Institutions,
- Industries identified based on the student's area of interest,

- ✓ Internship/ summer internship expose the students to work place realities, challenges, and cultures, thereby ensuring that on completion of their programme, the students are industry /corporate world ready.
- ✓ Students understand the importance of ethical practices at the workplace.
- ✓ It enables the students and faculty to analyze gaps in the knowledge / skill sets being imparted at the university which then are supplemented by additional courses / trainings during the remaining duration of the programme.
- ✓ Students can select projects to find solutions to the problems faced by the industries where they intern.
- ✓ The student understands the applications of the theoretical concepts given in the classroom. The student is able to identify emerging job opportunities and the corresponding skill sets required.
- ✓ Studentsalsodevelopanetworkofassociations/relationshipsintheorganizationstheyinternwith, which translates into industry mentor-mentee relationships.
- ✓ Thegoodperformanceofinternsmotivatescompaniestoparticipateincampusplacementprocess.
- ✓ Students learn to appreciate the inter-disciplinary nature of work environment.
- ✓ Students gain an insight into managerial approaches and importance of teamwork.
- ✓ Students who wish to pursue higher education are able to choose their future earea of specialization in a more focused manner

CRITERION 2 PROGRAM CURRICULUM AND TEACHING – LEARNING PROCESSES 120

Industrial/internship/summer training 2023-2024

S.No	Register Number	Student Name	Year	Name of the Company / Industry	Internship period
1	922120104001	Abinaya G	IV	Tech Mahindra	3 Months
2	922120104002	Abinaya T	IV	Tech Mahindra	3 Months
3	922120104007	Balasurya R	IV	TAPEAcademy	4 Months
4	922120104009	Dinesh Raja E	IV	Accent TechnoSoft	3 Months
5	922120104011	Hareeswaran S	IV	TechVolt Software	3 Months
6	922120104012	Harini S	IV	EdexTechIT Solutions	6 Months
7	922120104013	Jeeva J	IV	Maxelerator Foundation	3 Months
8	922120104014	Jeyashree S	IV	NxtLogic Software Solutions	2 Months
9	922120104015	Johans Praveen S	IV	Zoho	6 Months
10	922120104016	Josephine Jesila M	IV	TechVolt Software	3 Months
11	922120104019	Karuppaiya M	IV	PracticleBlackIndia Pvt Ltd	2 Months
12	922120104022	Logatharani S	IV	UniqTechnology	3 Months
13	922120104023	Logeshwari P	IV	Tech Mahindra	3 Months
14	922120104024	Lokesh G	IV	4i apps Solution	3 Months
15	922120104025	Madhesh Kumar D	IV	Accent TechnoSoft	3 Months
16	922120104026	Mohamed Arsath M	IV	CodeSoftTech	3 Months
17	922120104027	Mohamed Fazil J	IV	HOPE Artificial Intelligence	6 Months
18	922120104028	Mohamed Hadhi S	IV	Tech Mahindra, Chennai	3 Months
19	922120104029	Mugilan M	IV	CodeSoftTech	3 Months
20	922120104030	ParthiPrasath N	IV	Tech Mahindra	3 Months
21	922120104031	PiruthviRamana V	IV	NxtLogic Software Solutions	2 Months
22	922120104033	Pradeep V	IV	Tech Mahindra	3 Months
23	922120104034	Prakash S	IV	Accent TechnoSoft	3 Months
24	922120104037	Reena M	IV	TAPEAcademy	4 Months
25	922120104038	Sabarikrishnan R	IV	TechnoHackEduTech	1 Month

26	922120104039	SakthiVigneshwaran B	IV	QarooTech	2 Months
27	922120104040	Sanjay Pandi M	IV	Accent TechnoSoft	3 Months
28	922120104041	SanjeevSaravanan S	IV	LitzTech	3 Months
29	922120104042	Santhiyadharshini S	IV	Tech Mahindra	3 Months
30	922120104044	Saran Pandian S	IV	Reach skyline	3 Months
31	922120104047	Sharmila S	IV	PhpMasterminds	4 Months
32	922120104049	Sindhuja Infant A	IV	BlackBenTechnology	3 Months
33	922120104050	Siva ShanthanaBharathi M	IV	Maxelerator Foundation	3 Months
34	922120104051	Sivasundar V	IV	TechnoHackEduTech	1 Month
35	922120104052	Soundharya Devi M	IV	Maxelerator Foundation	3 Months
36	922120104053	Sridharan S	IV	Accent TechnoSoft, Coimbatore.	3 Months
37	922120104054	Sriram J	IV	4i apps Solutions	3 Months
38	922120104055	Sriram S	IV	Maxelerator Foundation	3 Months
39	922120104057	Subbiramani R	IV	Maxelerator Foundation	3 Months
40	922120104059	Tamil Arasan K	IV	UniqTechnology	3 Months
41	922120104060	Varshini U	IV	Crayonte Technologies	6 Months
42	922120104301	SriramVm	IV	Code Bind Technologies	3 Months
43	922121104003	K.AnandCharukesan	III	Merzol Technologies	3 Months
44	922121104011	S.Dhiyanesh	III	Merzol Technologies	3 Months
45	922121104014	S.Indhiraraj	III	Merzol Technologies	3 Months
46	922121104016	S.Jeyaraman	III	Guru Tech	3 Months
47	922121104018	M.Kajalakshmi	III	Merzol Technologies	3 Months
48	922121104032	K.ManthraSri	III	Merzol Technologies	3 Months

Industrial/internship/summer training 2022-2023

S.No	Register Number	Student Name	Year	Name of the Company / Industry	Internship Period
1	922119104002	Akash S	IV	PiraiInfotech	6 Months
2	922119104006	Benazir S	IV	Oracle Apax	3 Months

3	922119104007	Catherin Freeda F	IV	Oracle Apax	3 Months
4	922119104008	Devadharshini S	IV	Oracle Apax	3 Months
5	922119104009	DhanushKodi R	IV	PiraiInfotech	6 Months
6	922119104010	Dineshkumar B	IV	Oracle Apax	3 Months
7	922119104011	Drishya R	IV	PiraiInfotech	6 Months
8	922119104018	Kubendhra S	IV	TAMU Infotech(OPC) Private Limited	3 Months
9	922119104019	Layashree V	IV	Cycats	1 Month
10	922119104020	Madhumitha M	IV	PiraiInfotech	6 Months
11	922119104025	Nivethitha S Y	IV	Spot Future Technology	1 Month
12	922119104028	Prasanna M	IV	Spot Future Technology	1 Month
13	922119104033	Ramji K	IV	PiraiInfotech	6 Months
14	922119104036	Sahul Hameed A	IV	PiraiInfotech	6 Months
15	922119104047	Vasanthan M P	IV	Oracle Apax	3 Months
16	922119104048	Vigneshwaran V	IV	PiraiInfotech	6 Months
17	922119104052	Yogesh S	IV	Oracle Apax	3 Months
18	922119104303	Ruban M	IV	Oracle Apax	3 Months

Industrial/internship/summer training 2021-2022

S.No	Register Number	Student Name	Year	Name of the Company / Industry	Internship Period
1	922118104001	Aravindhan M	IV	Stoics It Pvt Ltd	7 Months
2	922118104012	JananiMuthukumar	IV	Netaxis It	4 Months
3	922118104020	Kirubha Shree V	IV	Qspiders	5 Months
4	922118104025	Marivignesh R	IV	PurpleslatePvt Ltd	6 Months
5	922118104027	Nandhini S	IV	Stoics It Pvt Ltd	7 Months
6	922118104032	OviyaPriyadharshini V	IV	Zoho Corporation	6 Months
7	922118104036	Prathiba M	IV	Zoho Corporation	6 Months
8	922118104046	Shreevathsan N S R	IV	Purpleslate Pvt Ltd	6 Months

C. Impact analysis of industrial training (4)

Impact analysis:

- ✓ Internship programs improve team spirit among the students.
- ✓ Students will get an exposure towards industrial environment which enables them to prepare themselves.
- ✓ Increases self-confidence of students which helps them to face the real world.
- ✓ Experience the discipline of working in a professional engineering organization.
- ✓ Develop understanding of the functioning and organization of a business.
- ✓ Interact with other professional and non-professional groups.
- ✓ Apply engineering methods such as design and problem solving by hands on experience.
- ✓ Develop technical, interpersonal and communication skills, both oral and written.

D. Student feed back on initiative (4)

The process of student feedback on initiative are,

- The Joining Report, providing the following information sent to the industrial internship coordinator/ HoD by the student immediately after joining the organization:
- During training, the student keeps a daily record of his /her activities, which is counter signed by the industry supervisor.
- The faculty mentor visits / remains in touch with the industry supervisor to monitor the progress of the intern
- On completion of training a project report / completion certificate and student feed back are submitted to the industrial internship coordinator/ HoD
- A Presentation is made by every student on his/her internship report before a panel constituted by the HoD. This is followed by a viva to check the course outcome/ programme outcome achieved.