



SSM COLLEGE OF ENGINEERING

Approved by AICTE, Affiliated to Anna University

Recognized by UGC Under Section 2 (f) of 12 (B)

NH-544, Salem Main Road, Komarapalayam: 638 183, Namakkal (Dist.), Tamil Nadu, India.

www.ssmce.ac.in, 9894026708.

2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

S.No	Description
1	Description about centric methods
2	Experiential Learning Methods
3	Participatory Learning Methods
4	Problem Solving Methods
5	ICT Enabled Teaching



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DESCRIPTION ABOUT CENTRIC METHODS

The institution provides different centric learning methods by creating a good atmosphere through which the students think in different way, answers and pose queries. Faculties, by playing an important role of facilitators, create discussions in classrooms among students and let the brainstorming evolve from student's perspective.

By different experiential learning and participative leaning activities the students can able to broaden their scope of education by imparting valuable thinking. During the tutorial hrs the students are stimulated their own way of thinking by building problems/case studies by providing individual attention to them.

The faculties are encouraged to undergo different workshop activities, Short term Training programs, Faculty Development Programs, online courses for effective design and exercise the student centric activities. For better classroom teaching, the teachers are advised to follow an academic plan, which contains the details regarding course objectives, details of contents to be covered, previous years internal and university question papers are referred.

Special lectures, different illustration activities, field study, case studies, project based activities, experimental and group learning methods are included in problem solving methodologies. In order to improve the interactive, collaborative and independent learning process the college organizes guest lecturers and arranges industrial visits to the student.

To bring out the course interest during their library hours the students are allowed to utilize digital library with video lectures, e-books and e-journals. The performance of the students is measured through internal and class tests, during practical hours and seminar hours.

Our institution followed experiential learning, participatory learning and problem solving methodologies for enhancing learners' learning experience. Various Participatory learning activities followed in our institution.

Experiential Learning Methods

- Department conducts add-on/ value added programs to support students in their experiential learning.
- Laboratory Sessions are conducted with content beyond syllabus experiments.
- Internship -Students get hands on training while working in the company.
- Industrial Visits to engage them in experiential learning
- Guest lectures by eminent experts from industry and academics are organized to provide experiential learning.



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Participatory Learning Methods

- Seminar- Students develop technical skills while presenting papers in seminars/symposium
- Group discussions in latest technologies and communication skills.
- Quizzes are organized for student participation at intra or inter college level.

Problem Solving Methods

- Case Studies are given for students to build solutions to problems
- Regular assignments based on problems

ICT Enabled Teaching

- ICT enabled teaching includes class rooms with LCD, Language Lab, Smart Class rooms, etc. The institution adopts modern pedagogy to enhance teaching-learning process.



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EXPERIENTIAL LEARNING METHODS

Add-on/ value added programs

In our Institution every semester each Department conducts add-on/ value added programs to support students in their experiential learning.

Additional courses can help you improve your abilities, extend your knowledge, and advance your career. These extra courses not only help you be just competence but also ensure that you build a well-rounded understanding of numerous topics as you investigate new things. To provide students an understanding of the expectations of industry. To improve employability skills of students. To bridge the skill gaps and make students industry ready. To provide an opportunity to students to develop inter-disciplinary skills.



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SAMPLE VALUE ADDED/ADD-ON PROGRAMS



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ECEVAC1- INDUSTRIAL APPLICATION BASED EMBEDDED SYSTEM

Prepared By: Prof.M.Chamundeeswari,M.E,ASP/ECE

Course Instructor:Prof.M.Chamundeeswari,M.E,ASP/ECE



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Date: 03.08.2018

REQUISITION LETTER

From

The Head of the Department
Department of Electronics and Communication Engineering
SSM College of Engineering
Komarapalayam
Namakkal Dt- 638183

To

The Principal
SSM College of Engineering
Komarapalayam
Namakkal Dt- 638183

Respected Sir,

Sub: Requisition letter seeking approval to conduct Value added course.

We have planned to conduct a value added course for our students. In this regard, we seek your approval to conduct the same.

Name of the Value Added Course: Industrial Application Based Embedded System

Period: 25.08.2018 to 29.09.2018

Year / Semester: II & III / III & V

Course Instructor: Prof.M.Chamundeeswari,M.E, ASP/ECE

Maximum No of Participants: 70

Approve d

Yours Sincerely

Head of the Department



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Reference: SSM/ECE/2018-19/01

Date: 10.08.2018

CIRCULAR

A Value Added Course on “**Industrial Application Based Embedded System**” is organized for the II year & III year ECE Students as per the following schedule. Interested students can enroll their names to the course instructor.

Name of the Value Added Course/Code: Industrial Application Based Embedded
System / ECEVAC1

Duration: 30 Hrs

Instruction Dates: 25.08.2018, 01.09.2018, 15.09.2018, 22.09.2018, 29.09.2018

Course Instructor: Prof.M.Chamundeeswari,M.E, ASP/ECE

To

To be read in all class room

Copy To

1. Principal for Information
2. Notice Board

ORGANIZING COMMITTEE

Chief Patrons

Cavalier' Dr. M.S.Mathivaanan

M.Com., M.A., D.I.E.M.,

H.G.D.M.(LON),F.T.A., M.Phil., Ph.D.,

Chairman

SSM College of Engineering

Komarapalayam.

Mr. Indarjith Mathivaanan

B.E(Hons.)

Vice Chairman

SSM College of Engineering

Komarapalayam.

Patron

Dr.S.Manoharan, Ph.D.,

Principal

SSM College of Engineering

Komarapalayam

Convener

Prof.P.Senthilkumar, M.E

Prof & Head of the Department

Department of Electronics and

Communication Engineering

SSM College of Engineering

Komarapalayam.

Course Instructor

Prof.M.Chamundeeswari, M.E.,

Associate Professor

Department of Electronics and

Communication Engineering

SSM College of Engineering

Komarapalayam.

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to Anna University, Chennai, Recognized by**

UGC Under Section 2(f) of 12(B)



NH-544, Salem Main Road, Komarapalayam-
638183, Namakkal (DT), Tamil Nadu, India

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Value Added Course

On

**ECEVAC1 - INDUSTRIAL APPLICATION
BASED EMBEDDED SYSTEM**

25.08.2018 -29.09.2018

Organized by

**Department of Electronics and Communication
Engineering**

SSM College of Engineering, Komarapalayam

Registration:

Contact: Prof.M.Chamundeeswari,M.E,ASP/ECE

Last date: 20.08.2018



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SYLLABUS

ECEVAC1- INDUSTRIAL APPLICATION BASED EMBEDDED SYSTEM

COURSE DESCRIPTION:

The purpose of embedded systems is to control a specific function within a device. They are usually designed to only perform this function repeatedly, but more developed embedded systems can control entire operating systems. This course imparts the knowledge and skills to codes for embedded systems. The course curriculum is divided into different modules focusing on important concepts related to Specification Techniques, ARM Processors in Industrial Based Embedded System, ARM Cortex M4 programming and Interfacing of Industrial Application based Embedded System.

COURSE OUTCOMES:

CO 1: Understand the overview of Industrial Application based Embedded Systems

CO 2: Understand the evolution Specification Techniques

CO 3: Analyse and understand the instruction set and development tools of ARM

CO 4: Understand the architectural features of ARM cortex M4 microcontrollers

CO 5: Understand the Interfacing of Industrial Application based Embedded System



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SYLLABUS

UNIT 1 Introduction to Industrial Application based Embedded Systems 6 Hrs

Embedded systems Overview- computing applications- Challenges- Common Designs Metrics- Embedded systems Characteristics of Industrial based embedded Design flow- Processor Technology, IC Technology- Trade offs

UNIT 2 Specification Techniques 6 Hrs

State charts- Modeling Hierarchy- Specification Description Language (SDL)- Industrial based Embedded system modeling with Petri Nets- Unified Modeling Language (UML)- Activity diagram- Class diagram- Component diagram- Use case diagram- Sequence diagram

UNIT 3 ARM Processors in Industrial Based Embedded System 6 Hrs

Introduction to ARM processors- Evolution of ARM processors- Pipeline organization- ARM Processor cores and CPU cores- ARM Cortex M4 processor's architecture- Programmer's model- Special registers- Operation Modes- Memory map- Memory access attributes

UNIT 4 ARM Cortex M4 programming 6 Hrs

Assembly basics- Instruction set- Data transfer- Data processing- Conditional and branch instructions- Barrier and saturation operations- Cortex M4 specific instructions- Thumb2 instructions- Keil Microcontroller- Development Kit for ARM- Typical program compilation flow- Sample arithmetic and logical assembly language programs

UNIT 5 Interfacing of Industrial Application based Embedded System 6 Hrs

Serial Peripheral Interface (SPI)- Inter Integrated Circuit (I2C)- RS-232- Universal Serial Bus(USB)- CAN- IrDA- Bluetooth- PCI and AMBA bus protocols

Total Hrs: 30 Hrs

Reference Books:

1. Introduction to Embedded Systems by Mr. Shibu K V
2. Systems Fundamentals with ARM Cortex-M based Microcontrollers, A Practical Approach FRDM-KL25Z Edition by Alexander G Dean


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NAME OF THE FACULTY	Prof.M.Chamundeeswari,M.E, ASP/ECE	
ACADEMIC YEAR	2018 – 2019 (Odd Semester)	
COURSE NAME	ECEVAC1- Industrial Application Based Embedded System	
DURATION	30 Hours	Theory : 30 Hours

LESSON PLAN

S.NO	UNITS	TOPICS COVERED	HOURS	CUMULATIVE
1.	I	Embedded Systems Overview- Computing	1	1
2.		Challenges- Common Designs Metrics	1	2
3.		Embedded Systems Characteristics Of Industrial Based Embedded Design Flow	1	3
4.		Processor Technology	1	4
5.		IC Technology	1	5
6.		Trade Offs	1	6
7.	II	State Charts- Modeling Hierarchy- Specification Description Language (SDL)	1	7
8.		Industrial Based Embedded System Modeling With Petri Nets	1	8
9.		Unified Modeling Language (UML)	1	9
10.		Activity Diagram- Class Diagram	1	10
11.		Component Diagram- Use Case Diagram	1	11
12.		Sequence Diagram	1	12
13.	III	Introduction To ARM Processors- Evolution Of ARM Processors	1	12
14.		Pipeline Organization- ARM Processor Cores And CPU Cores	1	14
15.		ARM Cortex M4 Processor's Architecture	1	15
16.		Programmer's Model	1	16



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17.		Special Registers - Operation Modes	1	17
18.		Memory Map- Memory Access Attributes	1	18
19.		Assembly Basics- Instruction Set- Data Transfer- Data Processing	1	19
20.		Conditional And Branch Instructions- Barrier And Saturation Operations	1	20
21.		Cortex M4 Specific Instructions- Thumb2 Instructions	2	21
22.	IV	Keil Microcontroller- Development Kit For ARM	1	22
23.		Typical Program Compilation Flow	1	23
24.		Sample Arithmetic And Logical Assembly Language Programs	1	24
25.		Serial Peripheral Interface (SPI)	1	25
26.		Inter Integrated Circuit (I2C)	1	26
27.		RS-232	1	27
28.	V	Universal Serial Bus(USB) Can	1	28
29.		Irda- Bluetooth	1	29
30.		PCI And AMBA Bus Protocols	1	30


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING RECORD OF CLASS WORK

S.NO	UNITS	DATE	HOURS	TOPICS COVERED	INITIAL
1	I	25.08.2018	1	Embedded Systems Overview- Computing Applications	Mehz
2		25.08.2018	2	Challenges- Common Designs Metrics	Mehz
3		25.08.2018	3	Embedded Systems Characteristics Of	Mehz
4		25.08.2018	4	Processor Technology	Mehz
5		25.08.2018	5	IC Technology	Mehz
6		25.08.2018	6	Trade Offs	Mehz
1	II	01.09.2018	1	State Charts- Modeling Hierarchy- Specification Description Language (SDL)	Mehz
2		01.09.2018	2	Industrial Based Embedded System Modeling With Petri Nets	Mehz
3		01.09.2018	3	Unified Modeling Language (UML)	Mehz
4		01.09.2018	4	Activity Diagram- Class Diagram	Mehz
5		01.09.2018	5	Component Diagram- Use Case Diagram	Mehz
6		01.09.2018	6	Sequence Diagram	Mehz
1	III	15.09.2018	1	Introduction To ARM Processors- Evolution Of ARM Processors	Mehz
2		15.09.2018	2	Pipeline Organization- ARM Processor Cores And CPU Cores	Mehz
3		15.09.2018	3	ARM Cortex M4 Processor's Architecture	Mehz
4		15.09.2018	4	Programmer's Model	Mehz
5		15.09.2018	5	Special Registers - Operation Modes	Mehz
6		15.09.2018	6	Memory Map- Memory Access	Mehz



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				Attributes	
1	IV	22.09.2018	1	Assembly Basics- Instruction Set- Data Transfer- Data Processing	<i>Meluz</i>
2		22.09.2018	2	Conditional And Branch Instructions- Barrier And Saturation Operations	<i>Meluz</i>
3		22.09.2018	3	Cortex M4 Specific Instructions- Thumb2 Instructions	<i>Meluz</i>
4		22.09.2018	4	Keil Microcontroller- Development Kit For ARM	<i>Meluz</i>
5		22.09.2018	5	Typical Program Compilation Flow	<i>Meluz</i>
6		22.09.2018	6	Sample Arithmetic And Logical Assembly Language Programs	<i>Meluz</i>
1	V	29.09.2018	1	Serial Peripheral Interface (SPI)	<i>Meluz</i>
2		29.09.2018	2	Inter Integrated Circuit (I2C)	<i>Meluz</i>
3		29.09.2018	3	RS-232	<i>Meluz</i>
4		29.09.2018	4	Universal Serial Bus(USB)Can	<i>Meluz</i>
5		29.09.2018	5	IRDA- Bluetooth	<i>Meluz</i>
6		29.09.2018	6	PCI And AMBA Bus Protocols	<i>Meluz</i>

Meluz
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CONTENT BEYOND LABORATORY

- In our institution we are conducting laboratory sessions as per Anna University Chennai Curriculum. We are conducting content beyond syllabus experiments for each laboratory to meet PO and CO.

S.NO	DEPARTMENT	LABORATORY DETAILS
1.	Science and Humanities	Physics Laboratory
2.		Chemistry Laboratory
3.		Programming C Laboratory
4.		Problem Solving and Python Programming Laboratory
5.	Civil Engineering	Surveying and leveling Laboratory
6.		Water & Waste water Laboratory
7.		Hydraulic Engineering Laboratory
8.		Materials Testing Laboratory
9.		Soil Mechanics Laboratory
10.		Highway Engineering Laboratory
11.		Building Drawing and Detailing Laboratory
12.	Computer Science Engineering	AI & ML Laboratory
13.		Compiler Design Laboratory
14.		Database Management System Laboratory
15.		Data Structure and Algorithms Laboratory
16.		Foundation of Data Science Laboratory
17.		Operating System Laboratory
18.	Electrical and Electronics Engineering	Engineering Practices Laboratory
19.		Electric Circuits Laboratory
20.		Linear and Digital Integrated Circuits Laboratory
21.		Electrical Machines Laboratory – I
22.		Control and Instrumentation Laboratory
23.		Electrical Machines Laboratory– II
24.		Power Electronics and Drives Laboratory
25.		Microprocessors and Microcontrollers Laboratory
26.	Electronics and Communication Engineering	VLSI Laboratory
27.		Digital Signal Processing Laboratory
28.		Electronic Devices and Circuits Laboratory
29.		Electronic Circuits Laboratory
30.		Digital Electronic Laboratory
31.		Linear integrated Circuits Laboratory
32.		Electronic System Design Laboratory
33.		Electronic and Instrumentation Laboratory
34.		Communication System Laboratory
35.		Optical and Microwave Laboratory
36.		Embedded System Laboratory
37.		Microprocessor and Microcontroller Laboratory



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38.	Mechanical Engineering	Thermal Engineering Laboratory
39.		CAD/CAM Laboratory
40.		Strength of Materials Laboratory
41.		Fluid Mechanics Laboratory
42.		Engineering Practices Laboratory
43.		Manufacturing Technology Laboratory
44.		Dynamics Laboratory
45.		Mechatronics Laboratory
46.	Information Technology	Web Essential Laboratory
47.		Embedded System & IOT Laboratory
48.		AI & ML Laboratory
49.		Object Oriented Programming Language Laboratory
50.		Full Stack Development Laboratory
51.		Database Management System Laboratory
52.	Petrochemical Technology	Fluid Mechanics and Solid Operation Laboratory
53.		Process Control & Mass Transfer Laboratory
54.		Heat Transfer Laboratory
55.	Petroleum Engineering	Fluid Mechanics and Solid Operation Laboratory
56.		Process Control & Mass Transfer Laboratory
57.		Heat Transfer Laboratory
58.	Textile Chemistry	Printing Laboratory
59.		Processing Laboratory (Dyeing & Pretreatment)
60.		Finishing Laboratory
61.		Textile Chemical Analysis Laboratory
62.		CCM Laboratory
63.	Textile Technology	Spinning Laboratory
64.		Weaving Laboratory
65.		Textile testing Laboratory
66.		Stitching Laboratory

CONTENT BEYOND LABORATORY-SAMPLE



FIG: STUDENTS DOING SOIL MECHANICS LAB EXPERIMENTS

- students doing soil stabilization using limestone experiment as a content beyond syllabus in soil mechanics lab



FIG: STUDENTS DOING SURVEY LAB EXPERIMENTS

- students doing 3 point problem using plane table survey experiment as a content beyond syllabus in survey lab.



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FIG: STUDENTS DOING FABRIC MANUFACTURING LAB EXPERIMENTS

- students doing Test method to evaluate the fineness of fibre experiment as a content beyond syllabus in soil mechanics lab.



FIG: STUDENTS DOING YARN MANUFACTURING TECHNOLOGY LAB EXPERIMENTS

- students doing yarn twist tester experiment as a content beyond syllabus in yarn manufacturing technology lab



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INTERNSHIP

Internship provides the Students get hands on training while working in the company. Apart from classroom teaching internships provides Real-World Application of Knowledge, Skill Enhancement, Networking Opportunities, and Insight into Industry Dynamics, Resume Building and Career Opportunities.

In our Institution we encourage the students to undergo internship during summer and winter holidays.



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INTERSHIP-SAMPLES

SSM COLLEGE OF ENGINEERING
DEPARTMENT OF TEXTILE CHEMISTRY

Internship

Degree / Branch: **B. Tech – Textile chemistry**

YEAR/III Year

S.NO	REG.NO	NAME OF THE STUDENT	DEPT	YEAR	PROJECT WORK	INTERNSHIP	FIELD WORK
1	732321114001	DEEPAK KUMAR.M	B.Tech-TC	III	-	SOEMIYA TEX ,Kunnathur,Tirupur. (25/06/2023 to 26/07/2023)	-
2	732321114003	JEEVANANTHAN.N	B.Tech-TC	III	-	SMS Garment Factory,Tirupur (23/06/2023 to 22/07/2023)	-
3	732321114004	KANNAN.R	B.Tech-TC	III	-	SMS Garment Factory,Tirupur (23/06/2023 to 22/07/2023)	-
4	732321114005	PRAVEEN.N	B.Tech-TC	III	-	SOEMIYA TEX ,Kunnathur,Tirupur. (25/06/2023 to 26/07/2023)	-
5	732321114007	VASEEGARAN.P	B.Tech-TC	III	-	Armstrong Textiles Pvt LtdPranao, Tripur. (27/06/2023 to 27/07/2023)	-

**SSM COLLEGE OF ENGINEERING
DEPARTMENT OF TEXTILE CHEMISTRY**

Internship

Degree / Branch: **B.Tech – Textile chemistry**

YEAR/III Year

6	732321114009	ADARSH GOSWAMI	B.Tech-TC	III	-	Shri kavi Textile Processing,Erode (28/06/2023 to 28/07/2023)	-
7	732321114010	GAYATHRI DEVI.S	B.Tech-TC	III	-	Aruna Home Fashions, Erode (01/07/2023 to 31/07/2023)	-
8	732321114011	GIRIDHARAN .K	B.Tech-TC	III	-	SMS Garment Factory, Tirupur (23/06/2023 to 22/07/2023)	-
9	732321114301	GOKUL.J	B.Tech-TC	III	-	SMS Garment Factory, Tirupur (23/06/2023 to 22/07/2023)	-
10	732321114302	JAYA SURYA.S	B.Tech-TC	III	-	SOEMIYA TEX ,Kunnathur,Tirupur. (25/06/2023 to 26/07/2023)	-
11	732321114303	JEEVA.T	B.Tech-TC	III	-	SMS Garment Factory, Tirupur (23/06/2023 to 22/07/2023)	-
12	732321114305	KARTHI.V	B.Tech-TC	III	-	Santhi Processing Pvt Ltd, Erode (25/06/2023 to 24/07/2023)	-
13	732321114306	KARTHIKEYAN.A	B.Tech-TC	III	-	SMS Garment Factory, Tirupur (23/06/2023 to 22/07/2023)	-
14	732321114307	KARTHIK RAJA.S	B.Tech-TC	III	-	SMS Garment Factory, Tirupur (23/06/2023 to 22/07/2023)	-
15	732321114308	MADHAN.G	B.Tech-TC	III	-	Mizba Tex, Tirupur. (01/07/2023 to 28/07/2023)	-

**SSM COLLEGE OF ENGINEERING
DEPARTMENT OF TEXTILE CHEMISTRY**

Internship

Degree / Branch: **B. Tech – Textile chemistry**

YEAR/III Year

16	732321114309	MOHANRAJ.K	B.Tech-TC	III	-	SOEMIYA TEX ,Kunnathur,Tirupur. (25/06/2023 to 26/07/2023)	-
17	732321114310	NAVEENA.M	B.Tech-TC	III	-	Aruna Home Fashions, Erode (01/07/2023 to 31/07/2023)	-
18	732321114312	NEELAGANDAN.M	B.Tech-TC	III	-	Armstrong Textiles Pvt LtdPranao, Tripur. (27/06/2023 to 27/07/2023)	-
19	732321114313	NITHISH KUMAR.M	B.Tech-TC	III	-	Armstrong Textiles Pvt LtdPranao, Tripur. (27/06/2023 to 27/07/2023)	-
20	732321114315	PEU MUKHERJEE	B.Tech-TC	III	-	N9 World Technologies Pvt Ltd, Bangalore. (03.07.2023 to02.08.2023)	-
21	732321114316	POOMALAR MOHAN	B.Tech-TC	III	-	Southern Spinners and Processing Ltd.,Salem. (05/07/2023 to 29/07/2023)	-
22	732321114318	PRABHAKARAN.S	B.Tech-TC	III	-	SMS Garment Factory,Tirupur (23/06/2023 to 22/07/2023)	-
23	732321114320	PRANESH.M	B.Tech-TC	III	-	SMS Garment Factory,Tirupur (23/06/2023 to 22/07/2023)	-
24	732321114321	RUDRAMUNIL	B.Tech-TC	III	-	Shri kavi Textile Processing,Erode (28/06/2023 to 28/07/2023)	-
25	732321114324	SAHITHYA.R	B.Tech-TC	III	-	MRC Mills Pvt Ltd.,Karur. (03/07/2023 to 28/07/2023)	-
26	732321114328	SAKTHI SELVAN.T	B.Tech-TC	III	-	Armstrong Textiles Pvt LtdPranao, Tripur. (27/06/2023 to 27/07/2023)	-
27	732321114329	SAMYUKTHA.B	B.Tech-TC	III	-	N9 World Technologies Pvt Ltd, Bangalore. (03.07.2023 to02.08.2023)	-

**SSM COLLEGE OF ENGINEERING
DEPARTMENT OF TEXTILE CHEMISTRY**

Internship

Degree / Branch: **B. Tech – Textile chemistry**

YEAR/III Year

28	732321114331	SIVA.M	B.Tech	III	-	Shri kavi Textile Processing,Erode (28/06/2023 to 28/07/2023)	-
29	732321114333	SONA.D	B.Tech-TC	III	-	Aruna Home Fashions, Erode (01/07/2023 to 31/07/2023)	-
30	732321114334	SRIHARI.C	B.Tech-TC	III	-	SMS Garment Factory,Tirupur (23/06/2023 to 22/07/2023)	-
31	732321114335	SRRIARIRAAAM.S	B.Tech-TC	III		SMS Garment Factory,Tirupur (23/06/2023 to 22/07/2023)	
32	732321114337	SUKANTH.P.S	B.Tech-TC	III	-	SMS Garment Factory,Tirupur (23/06/2023 to 22/07/2023)	-



SOWMIYA TEX

1/43, Ooradlthottam, Karumancherai,
KUNNATHUR - 638 103, Tirupur Dt, Tamilnadu, South India.

Date.....
10-08-2023

Internship Training Certificate

This is certify that Mr.Deepakkumar.M Student from SSM college of engineering has successfully completed his internship in our industry for a period of one month

(25th June to 26th July 2023)

During his internship program with us, he was exposed to various process and discipline during the period. He was seen as delight and hard working. We wish him success for his future endeavors.

For **SOWMIYA TEX**

E. S. S. S.

Proprietor



S M S GARMENTS FACTORY

HT-HP SOFT FLOW DYEING UNIT

GSTIN : 33ACQFS2399G1ZN

PAN No. : ACQFS2399G

211/1-A, Vijai Compound,
Uppillon Thottam, Murugampalayam,
Iduvampalayam, Tirupur - 641 607.
Cell : 98422 02578
E-mail : smsdyeing123@gmail.com

Date :

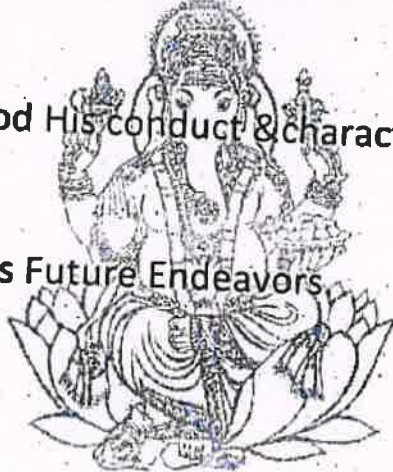
24.07.2023

CERTIFICATE

This is to certify that **SELVAN N.JEEVANANTHAN**
REG.NO.732320211002 IV year B.TECH (TC) IN SSM ENGINEERING
COLLEGE Student, Has under Gone Industrial Training From 23.06.2023
to 22.07.2023 in the SMS GARMENTS FACTORY, TIRUPUR.

During the Training Period His conduct & character were good.

We wish all success In His Future Endeavors



For SMS GARMENTS FACTORY

T. J. J.
Partner



S M S GARMENTS FACTORY

HT-HP SOFT FLOW DYEING UNIT

GSTIN : 33ACQFS2399G1ZN

PAN No. : ACQFS2399G

211/ I-A, Vijai Compound,
Uppilion Thottani, Murugampalayam,
Iduvampalaya n, Tirupur - 641 607.

Cell : 98422 02578

E-mail : smsdyeing123@gmail.com

Date :

24.07.2023

CERTIFICATE

This is to certify that **SELVAN R.KANNAN**
REG.NO.732320211003 IV year B.TECH (TC) IN SSM ENGINEERING
COLLEGE Student, Has under Gone Industrial Training From 23.06.2023
to 22.07.2023 in the SMS GARMENTS FACTORY, TIRUPUR.

During the Training Period His conduct & character were good.

We wish all success In His Future Endeavors.



For SMS GARMENTS FACTORY

T. J. J. J.
Partner

GSTIN : 33AVAPK6825G1ZS

Cell : 98422 66692
98435 00440



SOWMIYA TEX

1/43, Ooradithottam, Karumancherai,
KUNNATHUR - 638 103, Tirupur Dt, Tamilnadu, South India.

Date.....10-08-2023

Internship Training Certificate

This is certify that Mr.Praveen.N Student from SSM College of engineering has successfully completed his internship in our industry for a period of one month (25th June to 26th July 2023)

During his internship program with us, he was exposed to various process and discipline during the period. he was seen as delight and hard working. We wish him success for his future endeavors.

For SOWMIYA TEX

Proprietor



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Industrial Visits

Industrial Visits to engage them in experiential learning. Industrial visits provide firsthand exposure to real-world industrial processes, technologies, and operations. This practical experience helps individuals understand theoretical concepts better and bridges the gap between classroom learning and practical application.

In our institution we arranged industrial visits for all batch students in core and allied industries to enhance their knowledge.

Samples



Fig. Mechanical students visited BRS aluminum roller industry at Rasipuram



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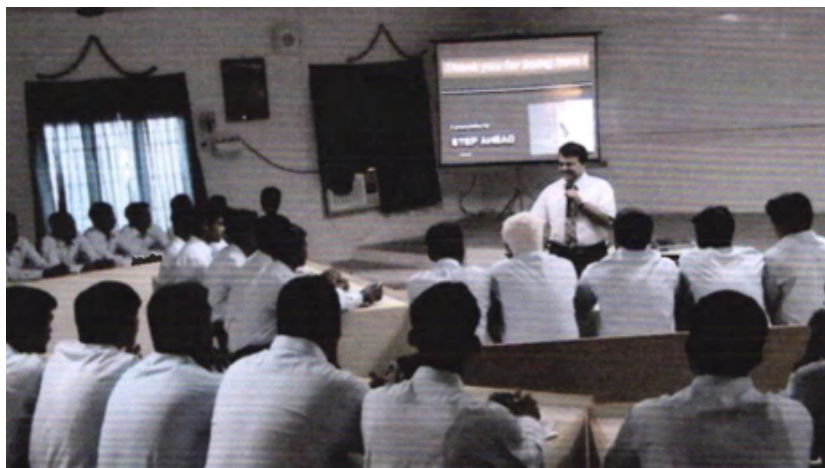
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GUEST LECTURES

Guest lectures by eminent experts from industry and academics are organized to provide experiential learning.

Samples:



Guest lecture on IoT by industrial experts



Fig :guest lecture on employability

Conducted by chitradevi officer Namakkal employment office.

Participatory Learning Methods

- Seminar- Students develop technical skills while presenting papers in seminars/symposium
- Group discussions in latest technologies and communication skills.
- Quizzes are organized for student participation at intra or inter college level.



Fig: Group discussion sessions for MBA students through placement cell



Fig: Seminar in sustainable textiles by Dr.M.S.Mathivanan Chairman



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Problem Solving Methods

Case studies and assignments given to the students for problematic subjects.

R. SIMRAN

BE - ECE

STATISTICS AND
NUMERICAL

METHODS

ASSIGNMENT-2

A red checkmark is drawn in the bottom left corner of the page.

- 15 The heights of college students in Chennai are normally distributed with std deviation 6 cm and sample of 100 students had their mean height 158 cm. Test the hypothesis that the mean height of college students in Chennai is 160 cm at 1% level of significance.

Solution:

Step 1: $n = 100$

$$\bar{x} = 158$$

$$\sigma = 6$$

$$\mu = 160$$

Step 2: $H_0: \mu = 160$

$$H_1: \mu \neq 160$$

Step 3: Level of significance $\alpha = 1\%$

Step 4: Test Statistics

$$Z = \frac{\bar{x} - \mu}{\sigma / \sqrt{n}}$$

$$Z = \frac{158 - 160}{6 / \sqrt{100}}$$

$$Z = -3.33$$

$$|Z| = 3.33$$

Step 5: Critical value is 2.58

Step 6 : Conclusion

$$3.33 > 2.58$$

H_0 is rejected.

- 25 A machine runs on an average of 125 hrs/year. A random sample of 49 machines has an annual average of 126.9 hours with a S.d. of 8.4 hrs. Does this suggest to believe that machines are used on the average more than 125 hours annually at 0.05 level of significance.

Solution :-

Step 1 : $n = 49$

$$\bar{x} = 126.9$$

$$\sigma = 8.4$$

$$\mu = 125$$

Step 2 : $H_0 : \mu = 125$

$H_1 : \mu > 125$ (one tail test)

Step 3 : Level of significance $\alpha = 5\%$.

Step 4 : Test statistics

$$Z = \frac{\bar{x} - \mu}{\sigma / \sqrt{n}} = \frac{126.9 - 125}{8.4 / \sqrt{49}}$$

$$Z = 1.58$$

Step 5 : Critical value is 1.645

Step 6 : conclusion

$$1.58 < 1.645$$

H_0 is accepted.

36. The average income of persons was Rs. 210 and with Rs. 10 for S.d in a sample of 100 people of city. For another sample of 150 people of average income was Rs. 220 with S.d of Rs 12. Test whether there is any significant difference between the average income of the locality.

Solution :

Step 1 : $n_1 = 100$

$$n_2 = 150$$

$$\bar{x}_1 = 210$$

$$\bar{x}_2 = 220$$

$$\sigma_1 = 10$$

$$\sigma_2 = 12$$

Step 2 : $H_0 : \mu_1 = \mu_2$

$$H_1 : \mu_1 \neq \mu_2$$

Step 3 : level of significance $\alpha = 5\%$.

Step 4 : Test Statistics

$$Z = \frac{\bar{x}_1 - \bar{x}_2}{\sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}}$$

$$z = \frac{210 - 220}{\sqrt{\frac{10^2}{100} + \frac{12^2}{150}}}$$

$$z = -7.14$$

$$|z| = 7.14$$

Step 5: Critical value is 1.645

Step 6: Conclusion

$$7.14 > 1.645$$

H_0 is rejected.

Assignment - 2

M. Ashvitha varshini

BE (ECE)

Statistics and Numerical
Methods

2

1) The height of the college student in Chennai is normally distributed with S.D 6 cm and the sample of 100 students has the mean height 158 cm. Test the hypothesis that the mean height of college students in Chennai is 160 cm at 1% level.

Solution :-

Step 1 \Rightarrow $n = 100$

$$\bar{x} = 158$$

$$\sigma = 6$$

$$\mu = 160$$

Step 2 \Rightarrow

$$H_0: \mu = \text{significant}$$

$$H_1: \mu \neq \text{significant}$$

Step 3 \Rightarrow

level of significant

$$\alpha = 1\%$$

Step 4 \Rightarrow $z = \frac{\bar{x} - \mu}{\sigma / \sqrt{n}}$

$$\Rightarrow \frac{158 - 160}{6 / \sqrt{100}} = -3.33$$

$$Z = -3.33$$

$$|Z| = 3.33$$

step 5 \Rightarrow

critical value of 1% = 2.58

step 6 \Rightarrow

Conclusion

$$3.33 > 2.58$$

H_0 is rejected

- 2) A machine runs at an avg of 125 hours per year. A random sample of 49 machines has an annual avg of 126.9 hours. SD 8.4 hours. Does this suggest to believe the machines are used on the avg more than 125 hours annually at 0.05 level of significance.

Step 1 $\Rightarrow n = 49$

$$\bar{x} = 126.9$$

$$s = 8.4$$

$$\mu = 125$$

step 2 \Rightarrow

$$H_0: \mu = 125 \text{ vs } H_1: \mu > 125$$

3) The avg income of present was rupees 210. An with rupees 10 for 8.0 in a sample of 100 people of the city. for the another sample of 150 people the avg income was 220 with standard deviation rupees 12. Test the different income.

solution

step 1 \Rightarrow

$$n_1 = 100, n_2 = 150$$

$$\bar{x}_1 = 210, \bar{x}_2 = 220$$

$$\sigma_1 = 10, \sigma_2 = 12$$

step 2 \Rightarrow

$$H_0: \mu_1 = \mu_2$$

$$H_1: \mu_1 \neq \mu_2$$

step 3 \Rightarrow

level of significant

$$\alpha = 5\%$$

step 4 \Rightarrow

$$Z = \frac{\bar{x}_1 - \bar{x}_2}{\sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}}$$

H: $\mu > 125$ significant (1 tail test)
 $\mu > 125$

step 3 \Rightarrow level of significance
 $\alpha = 5\%$

step 4 \Rightarrow
$$Z = \frac{\bar{x} - \mu}{\sigma / \sqrt{n}}$$

$$= \frac{126.9 - 125}{8.4 / \sqrt{49}}$$

$$= 1.58$$

$$\boxed{Z = 1.58}$$

step 5 \Rightarrow

critical value at 5% is = 1.645
(one tail test)

step 6 \Rightarrow conclusion

✓
 $1.58 < 1.645$

H_0 is accepted

$$z = \frac{210 - 220}{\sqrt{\frac{(10)^2}{100} + \frac{(12)^2}{150}}}$$

$$z = -7.143$$

$$|z| = 7.143$$

step 5 \Rightarrow

critical value 5% is = 1.96

step 6 \Rightarrow

conclusion

$$7.143 > 1.96$$

H_0 is rejected.





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ICT Enabled Teaching



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DETAILS OF ICT FACILITY

S.No	Location	Floor	Room Number	Name of the Class	Size of the Class Room in Sq.ft	Type of ICT facility
1.	Main Block	First Floor	UG L01	First Year	910.94	LCD Projector
2.	Main Block	First Floor	UG L02	First Year	910.94	LCD Projector
3.	Main Block	First Floor	UG L03	First Year	910.94	LCD Projector
4.	Main Block	First Floor	UG L04	First Year	910.94	LCD Projector
5.	Main Block	First Floor	UG L02	Civil Engineering III- Year	920	LCD Projector
6.	Main Block	First Floor	UG L03	Civil Engineering IV- Year	770	LCD Projector
7.	Hexagonal Block 2	First Floor	UG L02	Computer Science Engineering III-Year	1022.57	LCD Projector
8.	Hexagonal Block 2	First Floor	UG L03	Computer Science Engineering IV-Year	1022.57	LCD Projector
9.	Hexagonal Block 2	First Floor	PG L01	Computer Science Engineering PG I-Year	1022.57	System with LCD Projector
10.	Main Block	Second Floor	UG L01	Electronics and Communication Engineering II-Year	760.79	LCD Projector
11.	Main Block	Second Floor	UG L03	Electronics and Communication Engineering IV-Year	760.79	LCD Projector
12.	Main Block	Second Floor	PG L01	Applied Electronics PG I-Year	920.96	System with LCD Projector
13.	Main Block	First Floor	UG L02	Electrical and Electronics Engineering II-Year	613	LCD Projector
14.	Main Block	First Floor	UG L03	Electrical and Electronics Engineering IV-Year	613	LCD Projector



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15.	Hexagonal Block 2	Second Floor	UG L02	Information Technology III-Year	1022.57	LCD Projector
16.	Hexagonal Block 2	Second Floor	UG L03	Information Technology IV-Year	1022.57	LCD Projector
17.	Main Block	Ground Floor	UG L02	Mechanical Engineering III-Year	613	LCD Projector
18.	Main Block	Ground Floor	UG L03	Mechanical Engineering IV-Year	613	LCD Projector
19.	Main Block	Ground Floor	PG L01	Mechanical Engineering PG I-Year	613	LCD Projector
20.	Hexagonal Block 1	Second Floor	UG L02	Petroleum Engineering III-Year	1022.57	LCD Projector
21.	Hexagonal Block 1	Second Floor	UG L03	Petroleum Engineering IV-Year	1022.57	LCD Projector
22.	Hexagonal Block 1	First Floor	UG L02	Petrochemical Technology III-Year	1022.57	LCD Projector
23.	Hexagonal Block 1	First Floor	UG L03	Petrochemical Technology IV-Year	1022.57	LCD Projector
24.	Hexagonal Block 3	Second Floor	UG L02	Textile Chemistry III-Year	1022.57	LCD Projector
25.	Hexagonal Block 3	Second Floor	UG L03	Textile Chemistry IV-Year	1022.57	LCD Projector
26.	Hexagonal Block 3	Second Floor	PG L01	Textile Chemistry PG I-Year	1022.57	System with LCD Projector
27.	Hexagonal Block 3	Second Floor	UG L02	Textile Technology III-Year	1022.57	LCD Projector
28.	Hexagonal Block 3	Second Floor	UG L03	Textile Technology IV-Year	1022.57	LCD Projector
29.	Hexagonal Block 3	First Floor	PG L01	MBA I-Year	940.98	LCD Projector
30.	Hexagonal Block 3	First Floor	PG L02	MBA II-Year	940.98	LCD Projector



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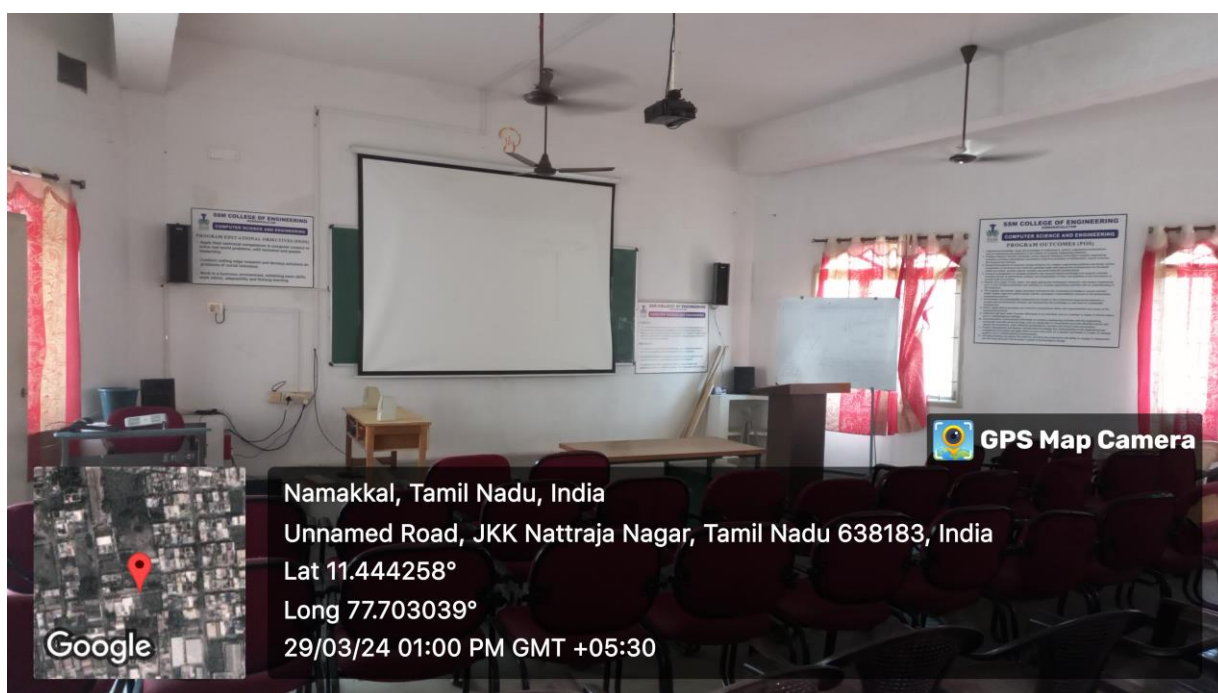
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Location	Floor	Room Number	Name of the Class	Size of the Class Room in Sq.ft	Type of ICT facility
Hexagonal Block 2	First Floor	UG L02	Computer Science Engineering III-Year	1022.57	LCD Projector





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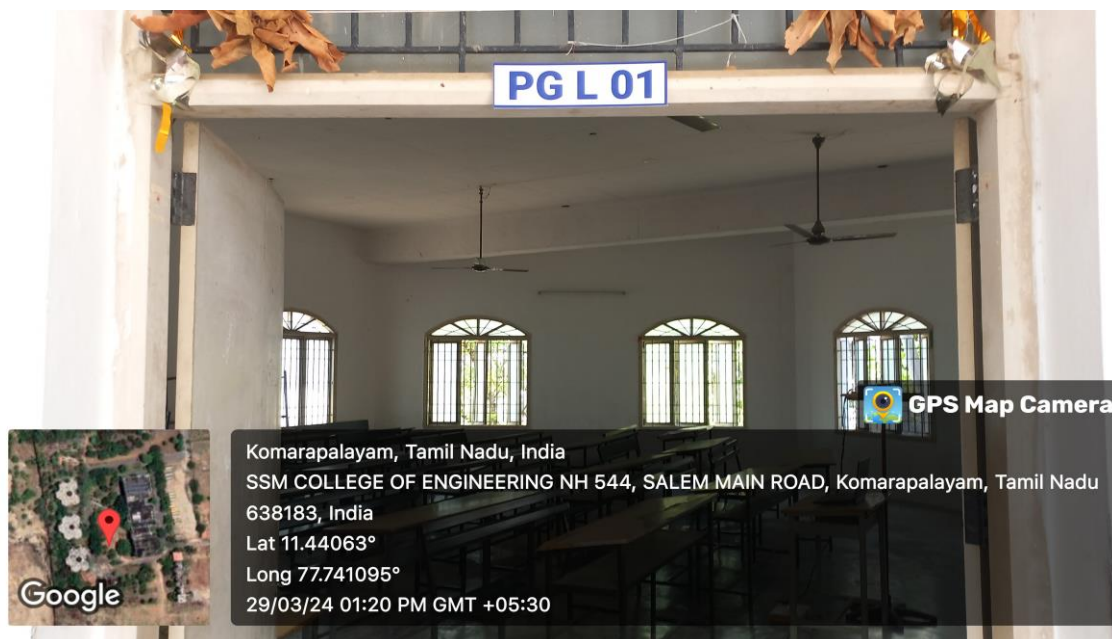
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Location	Floor	Room Number	Name of the Class	Size of the Class Room in Sq.ft	Type of ICT facility
Hexagonal Block 2	First Floor	PG L01	Computer Science Engineering PG I-Year	1022.57	System with LCD Projector





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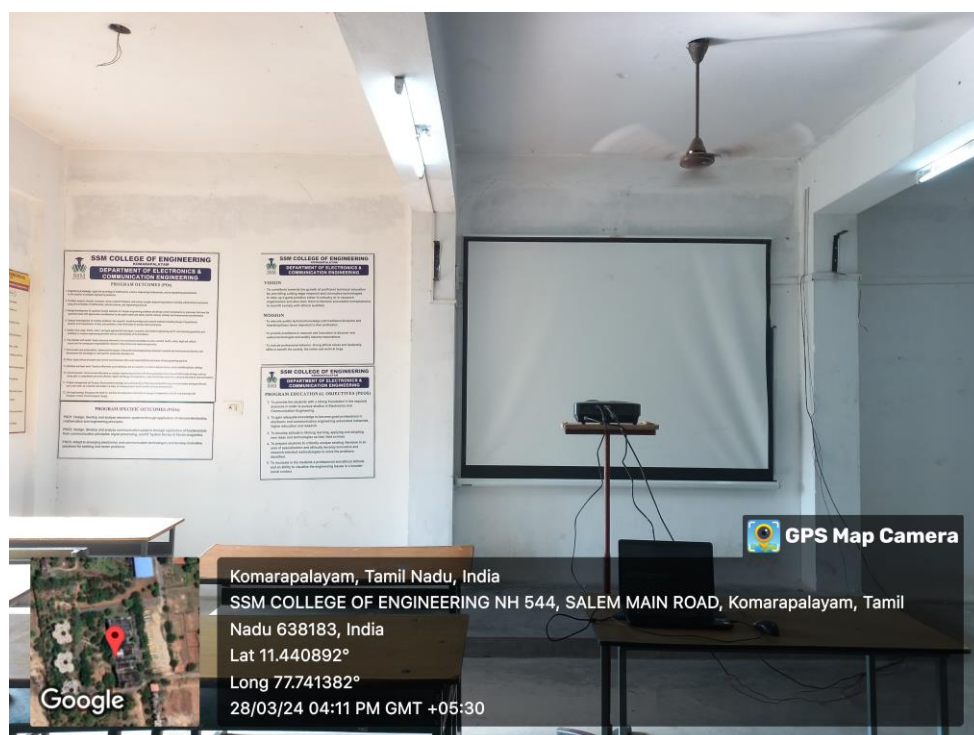
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Location	Floor	Room Number	Name of the Class	Size of the Class Room in Sq.ft	Type of ICT facility
Main Block	Second Floor	UG L01	Electronics and Communication Engineering II-Year	760.79	LCD Projector





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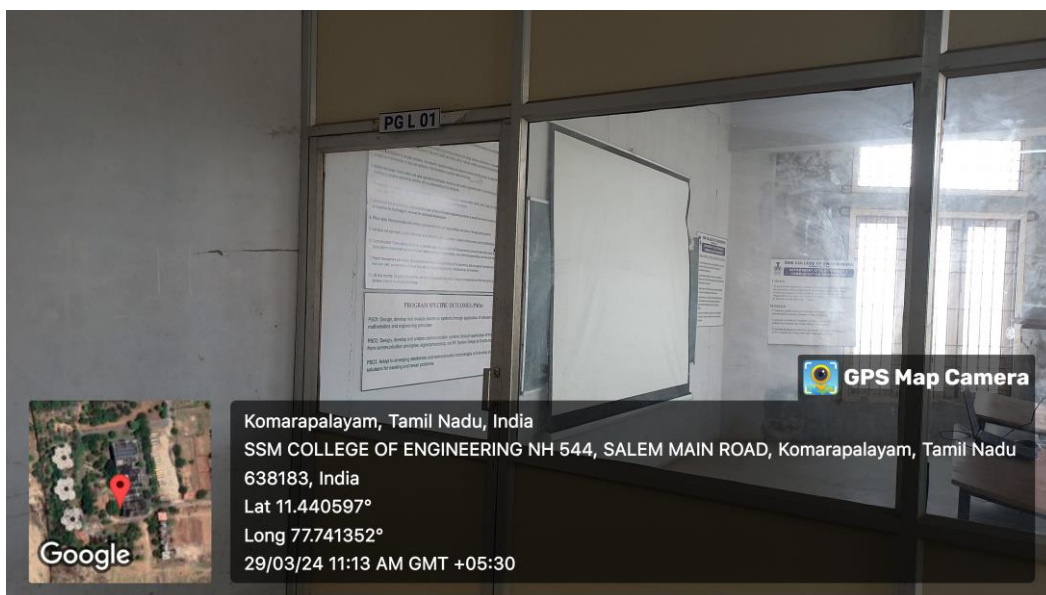
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Location	Floor	Room Number	Name of the Class	Size of the Class Room in Sq.ft	Type of ICT facility
Main Block	Second Floor	PG L01	Applied Electronics PG I-Year	920.96	System with LCD Projector





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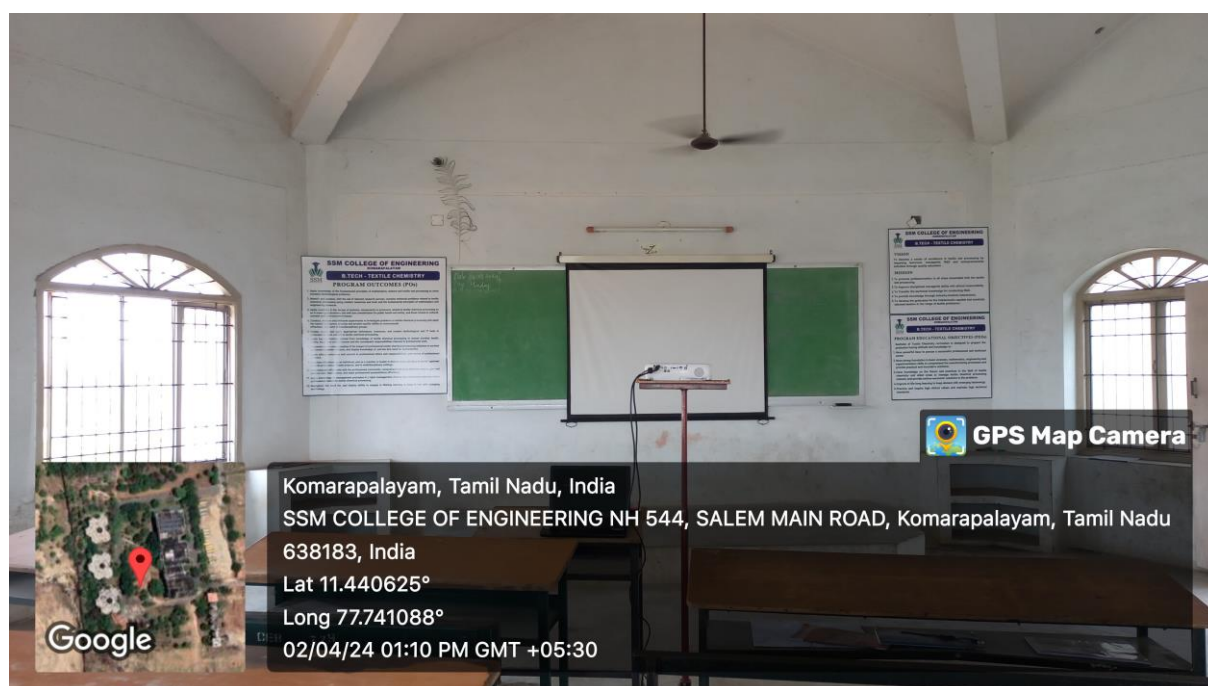
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Location	Floor	Room Number	Name of the Class	Size of the Class Room in Sq.ft	Type of ICT facility
Hexagonal Block 3	Second Floor	UG L02	Textile Chemistry III-Year	1022.57	LCD Projector





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Location	Floor	Room Number	Name of the Class	Size of the Class Room in Sq.ft	Type of ICT facility
Hexagonal Block 3	Second Floor	PG L01	Textile Chemistry PG I-Year	1022.57	System with LCD Projector

