



# **ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY**

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

Accredited by NAAC

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

**ACADEMIC YEAR**  
**2024-2025**



# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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### ODD SEMESTER

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ANGUCHETYPALAYAM, PANRUTI – 607 106.

## **ANNA UNIVERSITY INTERNAL ASSESSMENT SCHEDULE**



**CENTRE FOR ACADEMIC COURSES**  
**ANNA UNIVERSITY, CHENNAI – 600 025**

**ACADEMIC SCHEDULE (NON-AUTONOMOUS AFFILIATED COLLEGES)**

**UNDERGRADUATE PROGRAMMES (FT/PT) (August – December 2024)**

<b>S. No.</b>	<b>Programme</b>	<b>Semester</b>	<b>Commencement of Classes</b>	<b>Last working day</b>	<b>Commencement of End Semester Examinations</b>
1.	B.E. / B.Tech.(Full-Time)	III, V, VII	<b>12.08.2024</b>	<b>22.11.2024</b>	<b>02.12.2024</b>
2.	B.E. / B. Tech (Part-Time)	III, V, VII			
3.	B.Arch. (Full-Time)	III, V, VII, IX			
<b>Re-opening day for next Academic Session (Jan – May 2025 Session)</b>					<b>20.01.2025</b>

Timetable Day order for 'SATURDAYS', declared as 'Working days' is given in the following table.

<b>S. No.</b>	<b>Date &amp; Day</b>
1.	31.08.2024 – Monday
2.	21.09.2024 – Tuesday
3.	28.09.2024 – Wednesday
4.	05.10.2024 – Thursday
5.	19.10.2024 – Friday
6.	02.11.2024 – Monday
7.	09.11.2024 – Tuesday
8.	16.11.2024 – Wednesday

**DIRECTOR**



**CENTRE FOR ACADEMIC COURSES**  
**ANNA UNIVERSITY, CHENNAI – 600 025**



**ACADEMIC SCHEDULE (NON-AUTONOMOUS AFFILIATED COLLEGES)**

UNDERGRADUATE PROGRAMMES (September – December 2024)

S. No.	Programme	Semester	Commencement of Induction Programme	Commencement of Classes	Last working day	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	I	04.09.2024	18.09.2024	19.12.2024	27.12.2024
2.	B.Arch. (Full-Time)					
Re-opening day for next Academic Session (Jan – May 2025 Session)						20.01.2025

Timetable Day order for 'SATURDAYS', declared as 'Working days' is given in the following table.

S. No.	Date & Day
1.	21.09.2024 – Wednesday
2.	28.09.2024 – Thursday
3.	05.10.2024 – Friday
4.	19.10.2024 – Monday
5.	26.10.2024 – Tuesday
6.	09.11.2024 – Wednesday

S. No.	Date & Day
7.	16.11.2024 – Thursday
8.	23.11.2024 – Friday
9.	30.11.2024 – Monday
10.	07.12.2024 – Tuesday
11.	14.12.2024 – Wednesday

  
21/08/2024  
DIRECTOR - CAC



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**CONTINUOUS INTERNAL  
ASSESSMENT TEST  
(Time Table)**



# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTPALAYAM, PANRUTI – 607106

## EXAMINATION CELL

### CIRCULAR

2024-2025

CIR. NO: SACET/EXAM/CIR/22

Date: 20.09.2024

It is informed that the commencement of CIA-1 Examinations is scheduled from 26.09.2024 to 03.10.2024 for II and IV Year students.

Question paper pattern: Total: 50 Marks:

Part – A: 05 X 02 = 10 Marks

Part – B: 02 X 13 = 26 Marks

Part – C: 01 X 14 = 14 Marks

Staff members are requested to follow the instructions given below:

1. A Soft Copy of the question paper should be **uploaded in the faculty login** on or before **24.09.2024**.
2. The Invigilators are asked to refer the invigilation schedule and report to the exam cell **15 Minutes** before the commencement of the examinations.
3. Marks should be UPLOADED within two days to the following  
Link: <http://stannescet.ac.in> and log in to **Faculty/Staff Login**.

  
EXAM CELL CO-ORDINATOR

  
DEAN OF EXCELLENCE

  
PRINCIPAL

Copy To:

1. The Vice Principal
2. The HoD/CSE
3. The HoD/EEE
4. The HoD/ECE
5. The HoD/MECH
6. The HoD/S&H
7. The File

D. R. AROKIADASS, M.E., Ph.D.,  
Principal,  
St. Anne's College of Engineering & Technology  
ANGUCHETTPALAYAM,  
Siruvathur-(Post), Panruti-(T.k),  
Cuddalore-(Dist). Pin: 607 107



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## CONTINUOUS INTERNAL ASSESSMENT - I - TIMETABLE

TIME : 2.45 PM to 04.15 PM

PERIOD : August 2024 – DEC 2024

DATE	YEAR/ SEM	BRANCH & SUBJECT				
		CSE	AIML	EEE	ECE	MECH
26.09.2024	II/III	MA3354 Discrete Mathematics	CS3351 Digital Principles and Computer Organization	EE3302 Digital Logic Circuits	CS3353 C Programming and Data Structures	ME3393 Manufacturing Processes
	IV / VII	GE3791 Human Values and Ethics	-	EE3037 Power System Transients	OHS352 Project Report Writing	ME3791 Mechatronics and IoT
27.09.2024	II/III	CS3352 Foundations of Data Science	CD3291 Data Structures and Algorithms	EE3301 Electromagnetic Fields	EC3351 Control Systems	CE3391 Fluid Mechanics and Machinery
	IV / VII	GE3751 Principles of Management	-	GE3751 Principles of Management	GE3751 Principles of Management	ME3792 Computer Integrated Manufacturing
28.09.2024	II/III	CS3301 Data Structures	CS3352 Foundations of Data Science	EC3301 Electron Devices and Circuits	EC3352 Digital Systems Design	ME3392 Engineering Materials and Metallurgy
	IV / VII	AI3021 IT in Agricultural System	-	OMR351 Mechatronics	GE3791 Human Values and Ethics	OML351 Introduction to Non-Destructive Testing
30.09.2024	II/III	CS3351 Digital Principles and Computer Organization	CS3391 Object Oriented Programming	CS3353 C Programming and Data Structures	MA3355 Random Processes and Linear Algebra	ME3391 Engineering Thermodynamics
	IV / VII	OBT356 Lifestyle Diseases	-	GE3791 Human Values and Ethics	OMR351 Mechatronics	GE3792 Industrial Management
01.10.2024	II/III	CS3391 Object Oriented Programming	MA3354 Discrete Mathematics	EE3303 Electrical Machines - I	EC3353 Electronic Devices and Circuits	ME3351 Engineering Mechanics
	IV / VII	-	-	EE3701 High Voltage Engineering	-	GE3791 Human Values and Ethics
03.10.2024	II/III	-	-	MA3303 Probability and Complex Functions	EC3354 Signals and Systems	MA3351 Transforms and Partial Differential Equations
	IV / VII	-	-	OCH353 Energy Technology	-	OIM353 Production Planning and Control



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## EXAMINATION CELL

### CIRCULAR

2024-2025

CIR. NO: SACET/EXAM/CIR/23

Date: 24.09.2024

It is informed that the commencement of **CIA-1 Examinations** is scheduled from **09.10.2024 to 17.10.2024 for III Year students.**

Question paper pattern: Total: **50 Marks:**

**Part – A: 05 X 02 = 10 Marks**

**Part – B: 02 X 13 = 26 Marks**


**Part – C: 01 X 14 = 14 Marks**

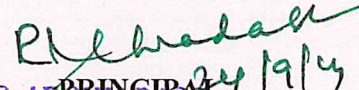
Staff members are requested to follow the instructions given below:

1. A Soft Copy of the question paper should be **uploaded in the faculty login** on or before **05.10.2024.**
2. The Invigilators are asked to refer the invigilation schedule and report to the exam cell **15 Minutes** before the commencement of the examinations.
3. Marks should be **UPLOADED** within two days to the following

Link: <http://stannescet.ac.in> and log in to **Faculty/Staff Login.**

  
EXAM CELL CO-ORDINATOR

  
DEAN OF EXCELLENCE

  
PRINCIPAL  
Dr. R. ARUKIADASS, M.E., Ph.D.

Copy To:

1. The Vice Principal
2. The HoD/CSE
3. The HoD/EEE
4. The HoD/ECE
5. The HoD/MECH
6. The HoD/S&H
7. The File

Principal,  
St. Anne's College of Engineering & Technology  
ANGUCHETTYPALAYAM,  
Siruvahur-(Post), Panruti-(T.k),  
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## CONTINUOUS INTERNAL ASSESSMENT - I - TIMETABLE

TIME : 2.45 PM to 04.15 PM

PERIOD : August 2024 – DEC 2024

DATE	YEAR/ SEM	BRANCH & SUBJECT			
		CSE	EEE	ECE	MECH
09.10.2024	III/V	CCW332 Digital marketing	EE3006 Power Quality	EC3501 Wireless Communication	
10.10.2024	III/V	CB3491 Cryptography and Cyber Security	EE3591 Power Electronics	CEC366 Image Processing	CME388 Industrial safety
14.10.2024	III/V	CS3501 Compiler Design	EE3009 Special Electrical Machines	CEC345 Optical Communication & Networks	ME3592 Metrology and Measurements
15.10.2024	III/V	CS3551 Distributed Computing	EE3501 Power System Analysis	EC3552 VLSI and Chip Design	CME387 Non-traditional Machining Processes
16.10.2024	III/V	CS3591 Computer Networks	EE3033 Hybrid Energy Technology	CEC352 Satellite Communication	CME380 Automobile Engineering
17.10.2024	III/V	CCS335 Cloud Computing	EE3503 Control Systems	EC3551 Transmission lines and RF Systems	ME3591 Design of Machine Elements



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## EXAMINATION CELL

### CIRCULAR

2024-2025

CIR. NO: SACET/EXAM/CIR/25

Date: 06.11.2024

It is informed that the commencement of **CIA-11 Examinations** is scheduled from **15.11.2024 to 21.11.2024 for II, III, and IV Year students.**

Question paper pattern: Total: **50 Marks:**

**Part – A: 05 X 02 = 10 Marks**

**Part – B: 02 X 13 = 26 Marks**

**Part – C: 01 X 14 = 14 Marks**

Staff members are requested to follow the instructions given below:

1. A Soft Copy of the question paper should be **uploaded in the faculty login** on or before **12.11.2024.**
2. The Invigilators are asked to refer the invigilation schedule and report to the exam cell **15 Minutes** before the commencement of the examinations.
3. Marks should be **UPLOADED** within two days to the following  
Link: <http://stannescet.ac.in> and log in to **Faculty/Staff Login.**

  
EXAM CELL CO-ORDINATOR

  
DEAN OF EXCELLENCE

  
PRINCIPAL

**Dr.R.AROKIADASS, M.E., Ph.**

Principal,

St.Anne's College of Engineering & Techno

ANGUCHETTYPALAYAM,

Siruvathur-(Post), Panruti-(T.N)

Cuddalore-(Dist), Pin: 607 11

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## CONTINUOUS INTERNAL ASSESSMENT - II - TIMETABLE

TIME : 09.30 AM to 11.00 AM

PERIOD : August 2024 – DEC 2024

DATE	YEAR/ SEM	BRANCH & SUBJECT				
		CSE	AIML	EEE	ECE	MECH
15.11.2024	II/III	MA3354 Discrete Mathematics	CS3351 Digital Principles and Computer Organization	EE3301 Electromagnetic Fields	CS3353 C Programming and Data Structures	ME3393 Manufacturing Processes
	III/V	CCW332 Digital Marketing	-	EE3006 Power Quality	EC3501 Wireless Communication	CME388 Industrial safety
	IV / VII	GE3791 Human Values and Ethics	-	EE3037 Power System Transients	-	ME3791 Mechatronics and IoT
16.11.2024	II/III	CS3352 Foundations of Data Science	CD3291 Data Structures and Algorithms	EC3301 Electron Devices and Circuits	EC3351 Control Systems	CE3391 Fluid Mechanics and Machinery
	III/V	CB3491 Cryptography and Cyber Security	-	EE3591 Power Electronics	CEC366 Image Processing	CME387 Non-traditional Machining Processes
	IV / VII	GE3751 Principles of Management	-	GE3751 Principles of Management	-	OIM353 Production Planning and Control
18.11.2024	II/III	CS3301 Data Structures	CS3352 Foundations of Data Science	EE3302 Digital Logic Circuits	EC3352 Digital Systems Design	ME3392 Engineering Materials and Metallurgy
	III/V	CS3501 Compiler Design	-	EE3009 Special Electrical Machines	CEC345 Optical Communication & Networks	ME3592 Metrology and Measurements
	IV / VII	AI3021 IT in Agricultural System	-	GE3791 Human Values and Ethics	OHS352 Project Report Writing	OML351 Introduction to Non- Destructive Testing

19.11.2024	II/III	CS3351 Digital Principles and Computer Organization	CS3391 Object Oriented Programming	CS3353 C Programming and Data Structures	MA3355 Random Processes and Linear Algebra	ME3391 Engineering Thermodynamics
	III/V	CS3551 Distributed Computing	-	EE3501 Power System Analysis	EC3552 VLSI and Chip Design	CME380 Automobile Engineering
	IV / VII	OBT356 Lifestyle Diseases	-	OMR351 Mechatronics	GE3751 Principles of Management	GE3792 Industrial Management
20.11.2024	II/III	CS3391 Object Oriented Programming	MA3354 Discrete Mathematics	EE3303 Electrical Machines - I	EC3353 Electronic Devices and Circuits	ME3351 Engineering Mechanics
	III/V	CS3591 Computer Networks	-	EE3033 Hybrid Energy Technology	CEC352 Satellite Communication	ME3591 Design of Machine Elements
	IV / VII	-	-	EE3701 High Voltage Engineering	GE3791 Human Values and Ethics	GE3791 Human Values and Ethics
21.11.2024	II/III	-	-	MA3303 Probability and Complex Functions	EC3354 Signals and Systems	MA3351 Transforms and Partial Differential Equations
	III/V	CCS335 Cloud Computing	-	EE3503 Control Systems	EC3551 Transmission lines and RF Systems	-
	IV / VII	-	-	OCH353 Energy Technology	OMR351 Mechatronics	ME3792 Computer Integrated Manufacturing



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## EXAMINATION CELL

### CIRCULAR

(2024-2025)

**CIR. NO: SACET/EXAM/CIR/**

**Date: 22.10.2024**

It is informed to the **1st year students** that the commencement of **CIA-I Examinations** is scheduled from **25.10.2024 to 06.11.2024**.

Exam Timing: **09:30 AM to 11:00 AM**

Question paper pattern: Total: **50 Marks**

**Part – A: 05 X 02 = 10 Marks**

**Part – B: 02 X 13 = 26 Marks / Maths Subject: 02 X 16 = 32**

**Part – C: 01 X 14 = 14 Marks / Maths Subject: 08 X 01 = 08**


Staff members are requested to follow the instructions given below:

1. A Soft and Hard Copy of the question paper should be **submitted to the exam cell** on or before **24.10.2024**.
2. The Invigilators are asked to refer the invigilation schedule and report to the exam cell **15 minutes** before the commencement of the examinations.
3. Marks should be **UPLOADED** on the same day, before **04.00 PM** to the following Link: **<http://stannescet.ac.in>** and log in to **Faculty/Staff Login**.

  
**EXAM CELL CO-ORDINATOR**

**Copy To:**

1. The Vice Principal
2. The HOD/CSE
3. The HOD/EEE
4. The HOD/ECE
5. The HOD/MECH
6. The HOD/S&H
7. The File

  
**PRINCIPAL 22.10.24**  
**Dr. R. AROKIADASS, M.E., Ph.D.,**  
**Principal,**  
**St. Anne's College of Engineering & Technology**  
**ANGUCHETTYPALAYAM,**  
**Sirvathur-(Post), Panruti-(T.k),**  
**Cuddalore-(Dist), Pin: 607 110.**



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## CONTINUOUS INTERNAL ASSESSMENT - I TIME TABLE

Time: 09:30 AM - 11:00 AM

Period : NOV 2024- DEC 2024

DATE	SEM	BRANCH & SUBJECT		
		CSE	EEE/ECE/MECH	CSE (AIML)
25.10.2024 (FRI)	1	GE3152-Heritage of Tamils	GE3152-Heritage of Tamils	GE3152-Heritage of Tamils
26.10.2024 (SAT)	1	CY 3151-Engineering Chemistry	PH 3151-Engineering Physics	CY 3151-Engineering Chemistry
28.10.2024 (MON)	1	PH 3151-Engineering Physics	GE 3151-Problem Solving and Python Programming	PH 3151-Engineering Physics
29.10.2024 (TUE)	1	GE 3151-Problem Solving and Python Programming	HS 3152-Professional English - I	HS 3152-Professional English - I
04.11.2024 (MON)	1	HS 3152-Professional English - I	CY 3151-Engineering Chemistry	GE 3151-Problem Solving and Python Programming
05.11.2024 (TUE)	1	MA 3151-Matrices and Calculus	MA 3151-Matrices and Calculus	MA 3151-Matrices and Calculus

PREPARED BY

VERIFIED BY

APPROVED BY

Dr. R. AROKIADASS, M.E., Ph.D.,  
Principal,

St. Anne's College of Engineering & Technology



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ANGUCHETTYPALAYAM, PANRUTTI - 607 106;

**EXAMINATION CELL**

**CIRCULAR**

(2024-2025)

CIR. NO: SACET/EXAM/CIR/

Date: 09.12.2024

It is informed to the 1st year students that the commencement of CIA-II Examinations is scheduled from 13.12.2024 to 19.12.2024.

Exam Timing: 09:30 AM to 11:00 AM

Question paper pattern: Total: 50 Marks

Part – A: 05 X 02 = 10 Marks

Part – B: 02 X 13 = 26 Marks / Maths Subject: 02 X 16 = 32

Part – C: 01 X 14 = 14 Marks / Maths Subject: 08 X 01 = 08

Staff members are requested to follow the instructions given below:

1. A Soft and Hard Copy of the question paper should be submitted to the exam cell on or before 12.12.2024.
2. The Invigilators are asked to refer the invigilation schedule and report to the exam cell 15 minutes before the commencement of the examinations.
3. Marks should be UPLOADED on the same day, before 04.00 PM to the following Link: <http://stannescet.ac.in> and log in to Faculty/Staff Login.

  
EXAM CELL CO-ORDINATOR

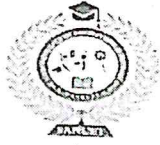
Copy To:

1. The Vice Principal
2. The HOD/CSE
3. The HOD/EEE
4. The HOD/ECE
5. The HOD/MECH
6. The HOD/S&H
7. The File

  
PRINCIPAL 9.12.24

**Dr. R. AROKIADASS, M.E., Ph.D.,**  
Principal,

St. Anne's College of Engineering & Technology,  
ANGUCHETTYPALAYAM,  
Siruvathur-(Post), Panruti-(T.k),  
Cuddalore-(Dist), Pin: 607 110



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## CONTINUOUS INTERNAL ASSESSMENT -II TIME TABLE

Time: 09:30 AM - 11:00 AM

Period : NOV 2024- DEC 2024

DATE	SEM	BRANCH & SUBJECT		
		CSE	EEE/ECE/MECH	CSE (AIML)
13.12.2024 (FRI)	1	GE3152-Heritage of Tamils	GE3152-Heritage of Tamils	GE3152-Heritage of Tamils
14.12.2024 (SAT)	1	HS 3152-Professional English - I	GE 3151-Problem Solving and Python Programming	CY 3151-Engineering Chemistry
16.12.2024 (MON)	1	PH 3151-Engineering Physics	CY 3151-Engineering Chemistry	HS 3152-Professional English - I
17.12.2024 (TUE)	1	CY 3151-Engineering Chemistry	PH 3151-Engineering Physics	MA 3151-Matrices and Calculus
18.12.2024 (WED)	1	GE 3151-Problem Solving and Python Programming	MA 3151-Matrices and Calculus	PH 3151-Engineering Physics
19.12.2024 (THU)	1	MA 3151-Matrices and Calculus	HS 3152-Professional English - I	GE 3151-Problem Solving and Python Programming

V. Subramanian  
PREPARED BY

K. S. Srinivasan  
09/12/2024  
VERIFIED BY

DEPARTMENT OF S & H,  
St. Anne's College of Engineering & Technology,  
ANGUCHETTIPALAYAM,  
Siruvethur Post, Panruti T.K,  
Cuddalore Dist., 607 106.  
Dr. R. AROKIADASS, M.E., Principal

R. Arumugam  
9.12.2024  
APPROVED BY  
Dr. R. AROKIADASS, M.E., Ph.D.,  
Principal,  
St. Anne's College of Engineering & Technology  
ANGUCHETTIPALAYAM.

DEPARTMENT OF S & H



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## **ATTENDANCE & ASSESSMENT RECORD (AAR)**

# ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTPALAYAM, PANRUTI - 607 106.



## ATTENDANCE AND ASSESSMENT RECORD

Name of the Staff

..... K. SARAVANAN / Sr. GANAJENCY  
SALETEMARY

Department of the Staff

..... MECHANICAL ENGINEERING

Semester / Subject

..... II<sup>nd</sup> / BE3255 BASIC CIVIL AND  
MECHANICAL ENGINEERING

Period

..... FEB' 2025 - MAY' 2025

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255 BASIC CIVIL AND MECHANICAL ENGINEERING LTPC 3013

**LEARNING OBJECTIVES**

Provide the students an illustration of the significance of the Civil and Mechanical Engineering profession in satisfying the societal needs.

Help students acquire knowledge in the basics of surveying and the materials used for construction. Provide an insight to the essentials of components of a building and the infrastructure facilities. Explain the component of power plant units and detailed explanation to IC engines their working principles.

Explain the Refrigeration & Air-conditioning system.

**UNIT I PART A: OVERVIEW OF CIVIL ENGINEERING 5**  
Civil Engineering contributions to the welfare of Society - Specialized sub disciplines in Civil Engineering - Structural, Construction, Geotechnical, Environmental, Transportation and Water Resources Engineering - National building code - terminologists: Plinth area, Carpet area, Floor area, Dup area, Floor space index - Types of buildings: Residential buildings, Industrial buildings.

**UNIT I PART B: OVERVIEW OF MECHANICAL ENGINEERING 4**  
Overview of Mechanical Engineering - Mechanical Engineering Contributions to the welfare of Society - Specialized sub disciplines in Mechanical Engineering - Manufacturing, Automation, Automobile and Energy Engineering - Interdisciplinary concepts in Mechanical Engineering.

**UNIT II SURVEYING AND CIVIL ENGINEERING MATERIALS 9**  
Surveying: Objects - Classification - Principles - Measurements of Distances and angles - Leveling - Determination of areas - Contours.

**UNIT III BUILDING COMPONENTS AND INFRASTRUCTURE 9**  
Civil Engineering Materials: Bricks - Stones - Sand - Cement - Concrete - Steel - Timber - Modern materials, Thermal and Acoustic Insulating Materials, Decorative Panels, Water Proofing Materials. Modern uses of Gypsum, Pre-fabricated Building component (brief discussion only)

**UNIT III BUILDING COMPONENTS AND INFRASTRUCTURE 9**  
Building plans - Setting out of a Building - Foundations: Types of foundations - Bearing capacity and settlement - Brick masonry - Stone Masonry - Beams - Columns - Lintels - Roofing - Flooring - Stairing.

Uses of Bridges and Dams - Water Supply Network - Rain Water Harvesting - Solid Waste Management - Introduction to Highways and Railways - Introduction to Green Buildings.

**UNIT IV INTERNAL COMBUSTION ENGINES AND POWER PLANTS 9**  
Classification of Power plants - Working principle of steam, Gas, Diesel, Hydro -electric and Nuclear power plants - Internal combustion engines as automobile power plant - Working principle of Petrol and Diesel Engines - Four stroke and two stroke cycles - Comparison of four stroke and two stroke engines. Working principle of Boilers-Turbines, Reciprocating Pumps (single acting and double acting) and Centrifugal pumps, Concept of hybrid engines. Industrial safety practices and protective devices.

**UNIT V REFRIGERATION AND AIR CONDITIONING SYSTEM 9**  
Terminology of Refrigeration and Air Conditioning. Principle of vapour compression and absorption refrigeration - Layout of typical domestic refrigerator - Window and Split type room Air conditioner. Properties of air - water mixture, concepts of psychometric and its process.

**TOTAL: 45 PERIODS**

**TEXT BOOK:**

G Shanmugam, M S Palanichamy, Basic Civil and Mechanical Engineering, McGraw Hill Education, First edition, 2018

**REFERENCES:**

Palanikumar, K. Basic Mechanical Engineering, ARS Publications, 2018.  
Ramamrutham S., "Basic Civil Engineering", Dhanpat Rai Publishing Co.(P) Ltd. 2013.  
Seetharaman S., "Basic Civil Engineering", Anuradha Agencies, 2005.  
Shantha Kumar SRJ "Basic Mechanical Engineering", Hi-tech Publications, Mayiladuthurai, 2000.

Name of the Staff

K. SARAVANAN / SO. GINAWA JENCY  
SALETEMARY

Department of the Staff

MECHANICAL ENGINEERING

Department of the Student

B.E., ELECTRICAL AND ELECTRONICS  
ENGINEERING

Semester

7<sup>th</sup>

Subject Code & Name

BE3255 & BASIC CIVIL AND MECHANICAL  
ENGINEERING

Period

From FEB' 2025 to MAY' 2025

**To be Signed at the end of the each Assessment**

Assessment Report	I	II	-
Assessment Date	09.04.2025	15.05.2025	-
Report Due on	11.04.2025	16.05.2025	-
Signature - HoD of Students with Date	K. Saravanan 11/4/25	K. Saravanan 16/5/25	-

**To be Signed at the end of the Semester**

Staff in - charge	HoD of Staff	HOD of Students	Principal
K. Saravanan 26/5/25	K. Saravanan 26/5/25	K. Saravanan 26/5/25	Pr. G. G. G.









RECORD OF

CLASS WORK

Class Planned		Topic Name	BT
Date	Period		
		<b>UNIT-I PART-A OVERVIEW OF CIVIL ENGINEERING</b>	
27.2.25	1	Civil Engineering contributions to the welfare of society	K2
28.2.25	4	Specialized sub disciplines in civil engineering.	K2
28.2.25	6	Structural, construction, Geotechnical, Environmental, transportation and water resources Engineering.	K2
10.3.25	3	National building code - terminologists: plinth area, carpet area, floor area, Buildup area, floor space Index	K2
13.3.25	1	Types of buildings: Residential buildings, Industrial buildings.	K2
		<b>UNIT-I PART B: OVERVIEW OF MECHANICAL ENGINEERING</b>	
14.3.25	4	Overview of Mechanical Engineering	K2
17.3.25	3	Mechanical Engineering contributions to the welfare of society	K2

Book Referred	Class Conducted		Reason for Deviation	TA	Staff Sign
	Date	Period			
Tx1	27.2.25	1		BB	✓
Tx1	28.2.25	4		BB	✓
Tx1	28.2.25	6		BB	✓
Tx1	10.3.25	3		BB	✓
Tx1	13.3.25	1		BB	✓
Tx1	14.3.25	4		BB	✓
Tx1	17.3.25	3		BB	✓

BT- Bloom's Taxonomy, TA-Teaching Aids

### RECORD OF

### CLASS WORK

Class Planned		Topic Name	BT
Date	Period		
17.3.25	7	Specialized sub disciplines in Mechanical Engineering - Manufacturing Automation, Automobile and Energy Engineering	K2
20.3.25	1	Interdisciplinary concepts in Mechanical Engineering.	K2
<b>UNIT II: SURVEYING AND CIVIL ENGINEERING MATERIALS</b>			
21.3.25	4	Surveying: objects - classification - principles	K2
22.3.25	2	Measurements of Distance and angles - Leveling	K2
24.3.25	3	Determination of areas - Contours	K2
27.3.25	1	Civil Engineering Materials: Bricks - stones - sand - cement - concrete - steel - timber	K2
27.3.25	2	Modern Materials, Thermal and Acoustic Insulating Materials	K2
28.3.25	4	Decorative panels	K2
04.04.25	4	Water proofing Materials	K2
07.04.25	3	Modern uses of Gypsum	K2

Book Referred	Class Conducted		Reason for Deviation	TA	Staff Sign
	Date	Period			
Tx1	17.3.25	7	-	BB	✓
Tx1	20.3.25	1	-	BB	✓
Tx1	21.3.25	4	-	BB	✓
Tx1	22.3.25	2	-	BB	✓
Tx1	24.3.25	3	-	BB	✓
Tx1	27.3.25	1	-	BB	✓
Tx1	27.3.25	2	-	BB	✓
Tx1	28.3.25	4	-	BB	✓
Tx1	04.04.25	4	-	BB	✓
Tx1	07.04.25	3	-	BB	✓

BT- Bloom's Taxonomy, TA-Teaching Aids

### RECORD OF

### CLASS WORK

Class Planned		Topic Name	BT
Date	Period		
11.4.25	4	pre-fabricated building components (brief discussion only)	K2
		<b>UNIT III: BUILDING COMPONENTS AND INFRASTRUCTURE</b>	
17.4.25	1	Building plans - setting out of a building	K2
21.4.25	3	Foundations: Types of foundations -	K2
24.4.25	1	Bearing capacity and settlement Stone, masonry.	K2
25.4.25	4	Beams - columns - lintels - Roofing - Flooring - plastering.	K2
26.4.25	1	Types of bridges and dams	K2
26.4.25	2	Water supply network - Rain water Harvesting - solid Waste Management	K2
26.4.25	3	Introduction to Highways and	K2
26.4.25	4	Railways	K2
26.4.25	5	Introduction to Green Building	K2
		<b>UNIT: IV INTERNAL COMBUSTION ENGINES AND POWER PLANTS</b>	
28.4.25	6	Classification of power plants - working principle of steam	K2

Book Referred	Class Conducted		Reason for Deviation	TA	Staff Sign
	Date	Period			
Tx1	11.4.25	4	-	BB	✓
				BB	✓
Tx1	17.4.25	1	-	BB	✓
Tx1	21.4.25	3	-	BB	✓
Tx1	24.4.25	1	-		
Tx1	25.4.25	4	-	BB	✓
Tx1	26.4.25	1	-	BB	✓
Tx1	26.4.25	2	-	BB	✓
Tx1	26.4.25	3	-	BB	✓
Tx1	26.4.25	4	-	BB	✓
Tx1	26.4.25	5	-	BB	✓
Tx1	26.4.25	6	-	BB	✓

### RECORD OF

### CLASS WORK

Class Planned		Topic Name	BT
Date	Period		
28.5.25	3	Gas, diesel, hydro-electric and nuclear power plants	K2
02.5.25	4	Internal combustion engines as automobile power plants	K2
04.5.25	1	working principle of petrol and diesel engines	K2
04.5.25	2	Four stroke and two stroke cycles	K2
04.5.25	3	comparison of four stroke and two stroke engines	K2
05.5.25	3	working principles of Boilers, turbines, Reciprocating pumps (single acting and double acting) and centrifugal pumps.	K2
08.5.25	1	concept of hybrid engines	K2
09.5.25	4	Industrial safety practices and protective devices	K2
<b>UNIT-V REFRIGERATION AND AIR CONDITIONING SYSTEM</b>			
12.5.25	3	Terminology of Refrigeration and Air Conditioning	K2

Book Referred	Class Conducted		Reason for Deviation	TA	Staff Sign
	Date	Period			
Tx1	28.5.25	3	-	BB	✓
Tx1	02.5.25	4	-	BB	✓
Tx1	04.5.25	1	-	BB	✓
Tx1	04.5.25	2	-	BB	✓
Tx1	04.5.25	3	-	BB	✓
Tx1	05.5.25	3	-	BB	✓
Tx1	08.5.25	1	-	BB	✓
Tx1	09.5.25	4	-	BB	✓
Tx1	12.5.25	3	-	BB	✓

BT- Bloom's Taxonomy, TA-Teaching Aids



## Time Table

PERIOD	1	2	3	4	5	6	7
Monday			BCME				
Tuesday							
Wednesday							
Thursday	BCME						
Friday				BCME			

## Unit Completion Details

No.	Unit Description	Start Date	Finish Date	No. of Hours
	PART: A: OVERVIEW OF CIVIL ENGINEERING PART: B: OVERVIEW OF MECHANICAL ENGINEERING	27.2.25	20.3.25	09
	SURVEYING AND CIVIL ENGINEERING MATERIALS	21.3.25	11.4.25	09
	BUILDING COMPONENTS AND INFRASTRUCTURE	17.4.25	26.4.25	09
	INTERNAL COMBUSTION ENGINES AND POWER PLANTS	26.4.25	09.5.25	09
	REFRIGERATION AND AIR CONDITIONING SYSTEMS	12.5.25	19.5.25	09

*K. S. V.*  
Project In-Charge
*K. S. V.*  
HoD of Students
*P. S. V.*  
Principal



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### Course Outcomes:

CO No	Course Outcome	Knowledge Level
CO1	Understanding profession of Civil and Mechanical engineering.	K2
CO2	Summarise the planning of building, infrastructure and working of Machineries.	K2
CO3	Apply the knowledge gained in respective discipline	K2
CO4	Illustrate the ideas of Civil and Mechanical Engineering applications.	K2
CO5	Appraise the material, Structures, machines and energy.	K2

**BLOOM'S TAXONOMY: K-Level [K1-Remember, K2-Understand, K3-Apply, K4- Analyze, K5-Evaluate, K6-Create]**

**CO - PO Mapping**

Program Outcome	Course Outcomes				
	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	2	2	2	2	2
PO 2	-	-	-	-	-
PO 3	-	-	-	-	-
PO 4	1	-	-	-	-
PO 5	-	-	-	-	-
PO 6	-	-	-	-	-
PO 7	1	1	1	1	1
PO 8	2	2	2	2	2
PO 9	1	1	2	1	1
PO 10	2	2	2	2	2
PO 11	-	-	-	-	-
PO 12	1	2	2	2	2
PSO 1	-	-	-	-	-
PSO 2	-	-	-	-	-
PSO 3	-	-	-	-	-

**Regulation 2021:** 1 - Low, 2 - Medium, 3 - High.

**Teaching Aids**

BB- Black Board	OHP- Over Head Projector	PPT - Power Point	L1 - Lecture 1
T1 - Tutorial 1	A1- Assignment 1	Tx1 - Text Book 1	Rx1 - Reference Book 1
M - Model and Demo	V- Video Lecture	A- Animation	



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## INDEX

### EVEN SEMESTER

<b>S. No.</b>	<b>Contents</b>
1	Anna University Internal Assessment Schedule
2	Continuous Internal Assessment Test (Time Table)
3	Attendance & Assessment Record (AAR)



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## **ANNA UNIVERSITY INTERNAL ASSESSMENT SCHEDULE**



# CENTRE FOR ACADEMIC COURSES ANNA UNIVERSITY, CHENNAI



## ACADEMIC SCHEDULE (AFFILIATED INSTITUTIONS - NON-AUTONOMOUS)

### Undergraduate Programmes (February - June 2025 Session)

S. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of End Semester Examinations
1.	B.E. / B. Tech. (FT)	VIII	21.02.2025	30.05.2025	02.06.2025
2.	B.E. / B. Tech. (FT)	IV, VI	21.02.2025	30.05.2025	04.06.2025
3.	B.E. / B. Tech. (PT)	IV, VI			
4.	B.E. / B. Tech. (FT & PT)	II	26.02.2025	05.06.2025	11.06.2025

#### Timetable Day Order for 'SATURDAYS'

Date	Day Order
22.02.2025	Monday
01.03.2025	Tuesday
08.03.2025	Wednesday
22.03.2025	Thursday
05.04.2025	Friday
26.04.2025	Monday
03.05.2025	Tuesday
17.05.2025	Wednesday
24.05.2025	Thursday

#### Continuous Assessment (CA)

Period	CA - I		CA - II
	21.02.2025 - 07.04.2025	08.04.2025 - 30.05.2025	
Test Period	01.04.2025 - 07.04.2025		21.05.2025 - 27.05.2025
Period (II Sem alone)	26.02.2025 - 15.04.2025		16.04.2025 - 05.06.2025
Test Period (II Sem alone)	05.04.2025 - 15.04.2025		26.05.2025 - 02.06.2025
Project Work	Review I	Review II	Review III
	21.02.2025 - 22.03.2025	24.03.2025 - 29.04.2025	30.04.2025 - 30.05.2025

#### Vacation Period

Students	Day after the end of regular semester examination - 03.08.2025
Administrative & Technical staff*	17.06.2025 - 31.07.2025
Faculty members*	17.06.2025 - 31.07.2025

❖ Re-opening day for next academic session (Aug - Nov 2025) : 04.08.2025

29/01/2025  
 DIRECTOR - CAC

\* Staff working in Regional Campuses & Constituent Colleges

\* Not applicable to Temporary staff



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**CONTINUOUS INTERNAL  
ASSESSMENT TEST  
(Time Table)**



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## EXAMINATION CELL CIRCULAR

2024-2025

CIR. NO: SACET/EXAM/CIR/01

Date: 22.03.2025

It is informed that the commencement of **CIA-1 Examinations** is scheduled from **02.04.2025 to 08.04.2025** for **II and III Year students**.

Question paper pattern: Total: **50 Marks**:

**Part – A: 05 X 02 = 10 Marks**

**Part – B: 02 X 13 = 26 Marks**

**Part – C: 01 X 14 = 14 Marks**

Staff members are requested to follow the instructions given below:

1. A Soft Copy of the question paper should be **uploaded in the faculty login** on or before **28.03.2025**.
2. Hard copy of the question paper should be **submitted to Exam Cell** with **approval from the respective Head of the Department** on or before **28.03.2025**.
3. The Invigilators are asked to refer the invigilation schedule and report to the exam cell **15 Minutes** before the commencement of the examinations.
4. **Alterations** in Examination Duties are not encouraged without **prior permission** from **Principal and concern Head of the Department** and alterations must be entered in the **Alteration Register**.
5. Marks should be **UPLOADED** within two days to the following

Link: <http://stannescet.ac.in> and log in to **Faculty/Staff Login**.

*A.S. Sundar*  
22/3/25

EXAM CELL CO-ORDINATOR

Copy To:

1. The HoD/CSE
2. The HoD/EEE
3. The HoD/ECE
4. The HoD/MECH
5. The HoD/S&H
6. The File

*R. Aradi*  
22/3/25

PRINCIPAL

**Dr. R. AROKIADASS, M.E., Ph.D.**

Principal

**St. Anne's College of Engineering and Technology**  
**Anguchettipalayam, Panruti-(Tk) Cuddalore-(Dist.), Pin: 607 106**



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## CONTINUOUS INTERNAL ASSESSMENT - I - TIMETABLE

TIME 09.30 to 11.00 AM

PERIOD : FEB 2025 – MAY 2025

DATE	YEAR/ SEM	BRANCH & SUBJECT				
		CSE	AIML	EEE	ECE	MECH
02.04.2024	II/IV	CS3491 Artificial Intelligence and Machine Learning	AL3451 Machine Learning	GE3451 Environmental Sciences and Sustainability	EC3401 Networks and Security	ME3493 Manufacturing Technology
	III/VI	CCS345 Ethics And AI	-	EE3012 Electrical Drives	CS3491 Artificial Intelligence and Machine Learning	CME384 Power Plant Engineering
03.04.2024	II/IV	CS3492 Database Management Systems	GE3451 Environmental Sciences and Sustainability	EE3402 Linear Integrated Circuits	GE3451 Environmental Sciences and Sustainability	GE3451 Environmental Sciences and Sustainability
	III/VI	CCS336 Cloud Services Management	-	EE3602 Power System Operation and Control	CEC337 DSP Architecture and Programming	CME397 Surface Engineering
04.04.2024	II/IV	CS3401 Algorithms	AL3452 Operating Systems	EE3401 Transmission and Distribution	EC3491 Communication Systems	ME3492 Hydraulics and Pneumatics
	III/VI	CS3691 Embedded Systems and IoT	-	EE3601 Protection and Switchgear	CCW332 Digital Marketing	CME396 Process Planning and Cost Estimation
05.04.2024	II/IV	CS3452 Theory of Computation	AL3391 Artificial Intelligence	EE3403 Measurements and Instrumentation	EC3451 Linear Integrated Circuits	ME3451 Thermal Engineering
	III/VI	CCS354 Network Security	-	EE3013 SMPS and UPS	CEC331 4G/5G Communication Networks	CME366 Equipment for Pollution Control
07.04.2024	II/IV	CS3451 Introduction to Operating Systems	CS3452 Theory of Computation	EE3405 Electrical Machines - II	EC3492 Digital Signal Processing	ME3491 Theory of Machines
	III/VI	CCS341 Data Warehousing	-	EE3018 Embedded Processors	ET3491 Embedded Systems and IOT Design	ME3691 Heat and Mass Transfer
08.04.2024	II/IV	GE3451 Environmental Sciences and Sustainability	AD3391 Database Design and Management	EE3404 Microprocessor and Microcontroller	EC3452 Electromagnetic Fields	CE3491 Strength of Materials
	III/VI	CCS356 Object Oriented Software Engineering	-	MX3089 Industrial Safety	MX3085 Well Being with Traditional Practices - Yoga, Ayurveda and Siddha	MX3088 State, Nation Building and Politics in India
	III/VI (AN)	MX3086 History of Science and Technology in India	-	-	-	-



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## EXAMINATION CELL CIRCULAR

2025-2026

CIR. NO: SACET/EXAM/CIR/02

Date: 27.03.2025

It is informed that the commencement of CIA-1 Examinations is scheduled from 03.04.2025 to 11.04.2025 for I Year students.

Question paper pattern: Total: 50 Marks:

Part – A: 05 X 02 = 10 Marks

Part – B: 02 X 13 = 26 Marks (or) Part – B: 05 X 08 = 40

Part – C: 01 X 14 = 14 Marks

Engineering Graphics subject:

02X20 = 40 Marks and 01X10 =10


Staff members are requested to follow the instructions given below:

1. A Soft Copy of the question paper should be **uploaded in the faculty login** on or before **02.04.2025**.
2. Hard copy of the question paper should be **submitted to Exam Cell** with approval from **the respective Head of the Department** on or before **02.04.2025**.
3. The Invigilators are asked to refer the invigilation schedule and report to the exam cell 15 **Minutes** before the commencement of the examinations.
4. **Alterations** in Examination Duties are not encouraged without **prior permission** from **Principal and concern Head of the Department** and alterations must be entered in the **Alteration Register**.
5. Marks should be **UPLOADED** within two days to the following  
Link: <http://stannescet.ac.in> and log in to Faculty/Staff Login

  
EXAM CELL CO-ORDINATOR

Copy To:

1. The Vice Principal
2. The HoD/CSE
3. The HoD/EEE
4. The HoD/ECE
5. The HoD/MECH
6. The HoD/S&H
7. The File

  
PRINCIPAL  
Dr.R.AROKIADASS, M.E., Ph.D.  
Principal,  
St.Anne's College of Engineering & Technology  
ANGUCHETTPALAYAM,  
Srivasthur-(Post), Panruti-(T.K),  
Cuddalore-(Dist), Pin: 607106



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## CONTINUOUS INTERNAL ASSESSMENT - I

### TIME TABLE

Time: 09:30 AM - 11:00 AM

Period : APR - MAY 2025

DATE	Session	SEM	BRANCH & SUBJECT				
			CSE	EEE	ECE	MECH	AIML
03.04.2025 (THU)	FN	2	GE3252-Tamils and Technology	GE3252-Tamils and Technology	GE3252-Tamils and Technology	GE3252-Tamils and Technology	GE3252-Tamils and Technology
04.04.2025 (FRI)	FN	2	PH3256-Physics for Information Science	HS3251-Professional English - II	HS3251-Professional English - II	BE3251-Basic Electrical and Electronics Engineering	BE3251-Basic Electrical and Electronics Engineering
05.04.2025 (SAT)	FN	2	CS3251-Programming in C	EE3251-Electric Circuit Analysis	EC3251-Circuit Analysis	HS3251-Professional English - II	HS3251-Professional English - II
07.04.2025 (MON)	FN	2	HS3251-Professional English - II	PH3202-Physics for Electrical Engineering	PH3254-Physics for Electronics Engineering	MA3251-Statistics and Numerical Methods	MA3251-Statistics and Numerical Methods
08.04.2025 (TUE)	FN	2	BE3251-Basic Electrical and Electronics Engineering	GE3251-Engineering Graphics	GE3251-Engineering Graphics	PH3251-Materials Science	PH3256-Physics for Information Science
09.04.2025 (WED)	FN	2	MA3251-Statistics and Numerical Methods	BE3255-Basic Civil and Mechanical Engineering	BE3254- Electrical and Instrumentation Engineering	GE3251-Engineering Graphics	GE3251-Engineering Graphics
11.04.2025 (FRI)	FN	2	GE3251-Engineering Graphics	MA3251-Statistics and Numerical Methods	MA3251-Statistics and Numerical Methods		CS3251-Programming in C

PREPARED BY

VERIFIED BY

APPROVED BY  
Dr. R. ARUKIADASS, M.E., Ph.D.

Principal,

St. Anne's College of Engineering & Technology



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## EXAMINATION CELL CIRCULAR

2025-2026

CIR. NO: SACET/EXAM/CIR/054

Date: 02.05.2025

It is to inform that the commencement of CIA- II Examinations is scheduled from 12.05.2025 to 19.05.2025 for I, II & III Year students.

Question paper pattern: Total: 50 Marks:

Part – A: 05 X 02 = 10 Marks

Part – B: 02 X 13 = 26 Marks (or) Part – B: 05 X 08 = 40 Marks

Part – C: 01 X 14 = 14 Marks

Engineering Graphics subject:

02X20 = 40 Marks & 01X10 =10 Marks

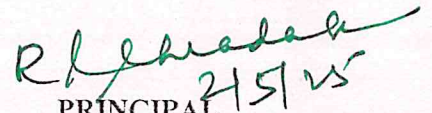
Staff members are requested to follow the instructions given below:

1. A Soft Copy of the question paper should be **uploaded in the faculty login** on or before 10.05.2025.
2. The Invigilators are asked to refer the invigilation schedule and report to the exam cell 15 Minutes before the commencement of the examinations.
3. Alterations in Examination Duties are not encouraged without **prior permission** from Principal and concern Head of the Department and alterations must be entered in the **Alteration Register**.
4. Marks should be ULOADED within two days to the following  
Link: <http://stannescet.ac.in> and log in to Faculty/Staff Login.

  
EXAM CELL CO-ORDINATOR

Copy To:

1. The HoD/CSE
2. The HoD/EEE
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4. The HoD/MECH
5. The HoD/S&H
6. The File

  
PRINCIPAL  
Dr. R. AROKIADASS, M.E., Ph.D.  
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ANGUCHETTPALAYAM,  
Siruvathur-(Post), Panruti-(T. & C.)  
Cuddalore-(Dist), Pin: 607 110.



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## CONTINUOUS INTERNAL ASSESSMENT - II – TIMETABLE

TIME 09.30 to 11.00 AM

PERIOD: FEB 2025 – MAY 2025

DATE	Session	SEM	BRANCH & SUBJECT				
			CSE	EEE	ECE	MECH	AIML
12.05.2025	FN	2	GE3252-Tamils and Technology	GE3252-Tamils and Technology	GE3252-Tamils and Technology	GE3252-Tamils and Technology	GE3252-Tamils and Technology
13.05.2025 (TUE)	FN	2	PH3256-Physics for Information Science	HS3251-Professional English - II	HS3251-Professional English - II	BE3251-Basic Electrical and Electronics Engineering	BE3251-Basic Electrical and Electronics Engineering
14.05.2025 (WED)	FN	2	CS3251-Programming in C	PH3202-Physics for Electrical Engineering	PH3254-Physics for Electronics Engineering	HS3251-Professional English - II	HS3251-Professional English - II
15.05.2025 (THU)	FN	2	HS3251-Professional English - II	BE3255-Basic Civil and Mechanical Engineering	BE3254- Electrical and Instrumentation Engineering	MA3251-Statistics and Numerical Methods	MA3251-Statistics and Numerical Methods
16.05.2025 (FRI)	FN	2	BE3251-Basic Electrical and Electronics Engineering	MA3251-Statistics and Numerical Methods	MA3251-Statistics and Numerical Methods	GE3251-Engineering Graphics	GE3251-Engineering Graphics
17.05.2025 (SAT)	FN	2	MA3251-Statistics and Numerical Methods	GE3251-Engineering Graphics	GE3251-Engineering Graphics	PH3251-Materials Science	PH3256-Physics for Information Science
19.05.2025 (MON)	FN	2	GE3251-Engineering Graphics	EE3251-Electric Circuit Analysis	EC3251-Circuit Analysis	NIL	CS3251-Programming in C



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## EXAMINATION CELL CIRCULAR

2025-2026

CIR. NO: SACET/EXAM/CIR/05

Date: 02.05.2025

It is to inform that the commencement of CIA- II Examinations is scheduled from 12.05.2025 to 19.05.2025 for I, II & III Year students.

Question paper pattern: Total: 50 Marks:

Part – A: 05 X 02 = 10 Marks

Part – B: 02 X 13 = 26 Marks (or) Part – B: 05 X 08 = 40 Marks

Part – C: 01 X 14 = 14 Marks

Engineering Graphics subject:

02X20 = 40 Marks & 01X10 =10 Marks

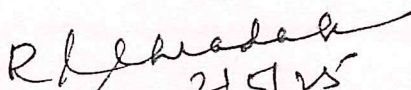
Staff members are requested to follow the instructions given below:

1. A Soft Copy of the question paper should be uploaded in the faculty login on or before 10.05.2025.
2. The Invigilators are asked to refer the invigilation schedule and report to the exam cell 15 Minutes before the commencement of the examinations.
3. Alterations in Examination Duties are not encouraged without prior permission from Principal and concern Head of the Department and alterations must be entered in the Alteration Register.
4. Marks should be UPLOADED within two days to the following  
Link: <http://stannescet.ac.in> and log in to Faculty/Staff Login.

  
EXAM CELL CO-ORDINATOR

Copy To:

1. The HoD/CSE
2. The HoD/EEE
3. The HoD/ECE
4. The HoD/MECH
5. The HoD/S&H
6. The File

  
PRINCIPAL  
Dr. R. ARORIADASS, M.E., Ph.D.  
Principal,  
St. Anne's College of Engineering & Technology  
ANGUCHETTYPALAYAM,  
Siruvathur-(Post), Panruti-(T.N.),  
Cuddalore-(Dist), Pin: 607 110



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## CONTINUOUS INTERNAL ASSESSMENT - II – TIMETABLE

TIME 09.30 to 11.00 AM

PERIOD: FEB 2025 – MAY 2025

DATE	Session	SEM	BRANCH & SUBJECT				
			CSE	EEE	ECE	MECH	AIML
12.05.2025	FN	2	GE3252-Tamils and Technology	GE3252-Tamils and Technology	GE3252-Tamils and Technology	GE3252-Tamils and Technology	GE3252-Tamils and Technology
13.05.2025 (TUE)	FN	2	PH3256-Physics for Information Science	HS3251-Professional English - II	HS3251-Professional English - II	BE3251-Basic Electrical and Electronics Engineering	BE3251-Basic Electrical and Electronics Engineering
14.05.2025 (WED)	FN	2	CS3251-Programming in C	PH3202-Physics for Electrical Engineering	PH3254-Physics for Electronics Engineering	HS3251-Professional English - II	HS3251-Professional English - II
15.05.2025 (THU)	FN	2	HS3251-Professional English - II	BE3255-Basic Civil and Mechanical Engineering	BE3254- Electrical and Instrumentation Engineering	MA3251-Statistics and Numerical Methods	MA3251-Statistics and Numerical Methods
16.05.2025 (FRI)	FN	2	BE3251-Basic Electrical and Electronics Engineering	MA3251-Statistics and Numerical Methods	MA3251-Statistics and Numerical Methods	GE3251-Engineering Graphics	GE3251-Engineering Graphics
17.05.2025 (SAT)	FN	2	MA3251-Statistics and Numerical Methods	GE3251-Engineering Graphics	GE3251-Engineering Graphics	PH3251-Materials Science	PH3256-Physics for Information Science
19.05.2025 (MON)	FN	2	GE3251-Engineering Graphics	EE3251-Electric Circuit Analysis	EC3251-Circuit Analysis	NIL	CS3251-Programming in C



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## CONTINUOUS INTERNAL ASSESSMENT - II - TIMETABLE

TIME 09.30 to 11.00 AM

PERIOD: FEB 2025 – MAY 2025

DATE	YEAR/ SEM	BRANCH & SUBJECT				
		CSE	AIML	EEE	ECE	MECH
12.05.2025	II/IV	CS3491 Artificial Intelligence and Machine Learning	AL3451 Machine Learning	GE3451 Environmental Sciences and Sustainability	EC3401 Networks and Security	ME3493 Manufacturing Technology
	III/VI	CCS345 Ethics And AI	-	EE3012 Electrical Drives	CS3491 Artificial Intelligence and Machine Learning	CME384 Power Plant Engineering
13.05.2025	II/IV	CS3492 Database Management Systems	GE3451 Environmental Sciences and Sustainability	EE3402 Linear Integrated Circuits	GE3451 Environmental Sciences and Sustainability	GE3451 Environmental Sciences and Sustainability
	III/VI	CCS336 Cloud Services Management	-	EE3602 Power System Operation and Control	CEC337 DSP Architecture and Programming	CME397 Surface Engineering
14.05.2025	II/IV	CS3401 Algorithms	AL3452 Operating Systems	EE3401 Transmission and Distribution	EC3491 Communication Systems	ME3492 Hydraulics and Pneumatics
	III/VI	CS3691 Embedded Systems and IoT	-	EE3601 Protection and Switchgear	CCW332 Digital Marketing	CME396 Process Planning and Cost Estimation
15.05.2025	II/IV	CS3452 Theory of Computation	AL3391 Artificial Intelligence	EE3403 Measurements and Instrumentation	EC3451 Linear Integrated Circuits	ME3451 Thermal Engineering
	III/VI	CCS354 Network Security	-	EE3013 SMPS and UPS	CEC331 4G/5G Communication Networks	CME366 Equipment for Pollution Control
16.05.2025	II/IV	CS3451 Introduction to Operating Systems	CS3452 Theory of Computation	EE3405 Electrical Machines - II	EC3492 Digital Signal Processing	ME3491 Theory of Machines
	III/VI	CCS341 Data Warehousing	-	EE3018 Embedded Processors	ET3491 Embedded Systems and IOT Design	ME3691 Heat and Mass Transfer
17.05.2025	II/IV	GE3451 Environmental Sciences and Sustainability	AD3391 Database Design and Management	EE3404 Microprocessor and Microcontroller	EC3452 Electromagnetic Fields	CE3491 Strength of Materials
	III/VI	CCS356 Object Oriented Software Engineering	-	MX3089 Industrial Safety	MX3085 Well Being with Traditional Practices - Yoga, Ayurveda and Siddha	MX3088 State, Nation Building and Politics in India
	III/VI (AN)	MX3086 History of Science and Technology in India	-	-	-	-



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## **ATTENDANCE & ASSESSMENT RECORD (AAR)**

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## ATTENDANCE AND ASSESSMENT RECORD

Name of the Staff : ..... ARTHI. T .....  
Department of the Staff : ..... EEE .....  
Semester / Subject : ..... II / BE.32.71 - BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB .....  
Period : ..... FEB. - JUNE 2025 .....



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**MECHANICAL ENGINEERING**

**BE3271 BASIC ELECTRICAL AND ELECTRONICS ENGINEERING LABORATORY**

LTPC  
0 0 4 2

**COURSE OBJECTIVES:**

- To train the students in conducting load tests on electrical machines
- To gain practical experience in characterizing electronic devices
- To train the students to use DSO for measurements.

**LIST OF EXPERIMENTS:**

**CYCLE 1**

1. Load test on DC Shunt Motor.
2. Load test on Self Excited DC Generator.
3. Load test on Single phase Transformer.
4. Load Test on Induction Motor

**CYCLE 2**

1. Characteristics of PN junction Diode
2. Characteristics of Zener Diodes
3. Characteristics of BJT
4. Characteristics of SCR
5. Characteristics of MOSFET
6. Half wave and Full Wave rectifiers
7. Study of Logic Gates
8. Implementation of Binary Adder and Subtractor
9. Study of DSO
10. Verification of ohms
11. Verification of Kirchhoff's Laws

**TOTAL: 60 PERIODS**

Name of the Staff :..... **ARTHI.T** .....

Department of the Staff :..... **EEE** .....

Department of the Student :..... **MECH** .....

Semester :..... **II Semester** .....

Subject Code & Name :..... **BE3271 & BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB** .....

Period From :..... **FEB** ..... to..... **JUNE** .....

**To be Signed at the end of the each Assessment**

Assessment Report	-	-	<b>MODEL LAB</b>
Assessment Date	-	-	<b>19.05.25</b>
Report Due on	-	-	<b>20.05.25</b>
Signature - HoD of Students with Date	-	-	<b>K. S. S. 20/5/25</b>

**To be Signed at the end of the Semester**

Staff in - charge	HoD of Staff	HOD of Students	Principal
<b>T. Arthi</b>	<b>V. S. S. 21/5/25</b>	<b>ASB</b>	<b>D. S. S.</b>







### RECORD OF

S. No.	Class Planned		Topic Name	BT
	Date	Period		
			cycle 7	
1.	03.3.25	4,5,6,7	Load test on DC shunt motor	K <sub>2</sub>
2.	10.3.25	4,5,6,7	Load test on self excited DC generator	K <sub>2</sub>
3.	17.3.25	4,5,6,7	Load test on single phase transformer.	K <sub>2</sub>
4.	24.3.25	4,5,6,7	Load test on Induction motor	K <sub>3</sub>

### CLASS WORK

Book Referred	Class Conducted		Reason for Deviation	TA	Staff Sign
	Date	Period			
	10.3.25	4,5,6,7	VAC	BB	A
	17.3.25	4,5,6,7	-	BB	A
	24.3.25	4,5,6,7	-	BB	A
	30.3.25	4,5,6,7	-	BB	A

\* BT- Bloom's Taxonomy, TA-Teaching Aids

24.4.25

## RECORD OF

S. No.	Class Planned		Topic Name	BT
	Date	Period		
			cycle 2	
1.	7.4.25	4,5,6,7	verification of Ohms and Kirchhoff's Law	
2.	14.4.25	4,5,6,7	characteristics of PN and Zener diode	
3.	21.4.25	4,5,6,7	characteristics BJT	
4.	28.4.25	4,5,6,7	characteristics of SCR and MOSFET	
5.	5.5.25	4,5,6,7	Half wave and Full wave rectifier	
6.	12.5.25	4,5,6,7	Study of logic gates	
7.	19.5.25	4,5	Implementation of address	
8.	19.5.25	6,7	study of DSO	

\* BT- Bloom's Taxonomy, TA-Teaching Aids

## CLASS WORK

Book Referred	Class Conducted		Reason for Deviation	TA	Staff Sign
	Date	Period			
	7.4.25	4,5,6,7	-	BB	A
	10.4.25	4,5,6,7	-	BB	A
	19.4.25	1,2,3	-	BB	A
	19.4.25	4,5,6,	-	BB	A
	19.4.25	6,7	-	BB	A
	26.4.25	4,5,6,7	-	BB	A
	28.5.25	4,5	-	BB	A
	28.5.25	6,7	-	BB	A

V.P.H.

## Time Table

PERIOD DAY	1	2	3	4	5	6	7	8
Monday				← BEEE →				
Tuesday								
Wednesday								
Thursday								
Friday								

## Unit Completion Details

Unit No.	Unit Description	Start Date	Finish Date	No. of Hours
1				
2				
3				
4				
5				

*T. Ash*  
Subject In-Charge

*[Signature]*  
HoD of Students

*[Signature]*  
Principal



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### COURSE OUTCOME:

CO no.	COURSE OUTCOME	Knowledge level
CO 1	Use experimental methods to verify the Ohm's and Kirchhoff's Laws.	K3
CO 2	Analyze experimentally the load characteristics of electrical machines	K4
CO 3	Analyze the characteristics of basic electronic devices	K4
CO 4	Use DSO to measure the various parameters	K1

Bloom's TAXONOMY: k-Level [K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5 Evaluate, k6-Create]

### MAPPING OF COs WITH POs AND PSOs:

Program Outcome	COURSE OUTCOMES				
	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	3	3	3	3	3
PO 2	3	3	3	3	3
PO 3	2	2	2	2	2
PO 4	1	1	1	1	1
PO 5	1	1	1	1	1
PO 6					
PO 7					
PO 8	1.5	1.5	1.5	1.5	1.5
PO 9	2	2	2	2	2
PO 10					
PO 11					
PO 12					
PSO 1					
PSO 2					
PSO 3	1	1	1	1	1

Regulation 2021: 1 - Slight, 2 - moderate, 3 - Substantial

### Teaching Aids

BB- Black Board	OHP- Over Head Projector	PPT - Power Point	L1 - Lecture 1
T1 - Tutorial 1	A1- Assignment 1	Tx1 - Text Book 1	Rx1 - Reference Book 1
M - Model and Demo	V- Video Lecture	A- Animation	