

2.6.2 Attainment of Programme outcomes and course outcomes are evaluated by the institution.

The College has put in place an efficient and proper system for achieving POs and COs that have been approved by the Governing Body. The achievement is ensured through proper curriculum delivery, which is supplemented by other activities for the students' overall development. The College offers a variety of co-curricular, extracurricular, and extension activities to help students meet the informed learning outcomes (PO, PSO, and CO) of all programmes. The applicable program's programme and course outcomes are assessed through a direct and indirect evaluation procedure.

The Attainment of Programme Outcomes(POs), Program Specific Outcomes(PSOs) and Course Outcomes(COs) are evaluated by two methods.

1. Direct PO PSO Assessment Process

1.1. Based on Direct Course Assessment: Direct attainment of CO is measured in the scale of 0 - 3 level.

1.1.1 Internal Assessment: Students assessed based on different activities such as MCQ, Assignment, Tutorials, Quiz Puzzles, etc.,. Internal Examination question papers are defined with CO for each question. On completion of Internal Assessment (IA), marks scored by the students CO wise are averaged up. CO attainment is calculated by considering 90% of IA test level and 10% of activities level. CO attainment is met which is based on the students achieving the defined target.

1.1.2.External Evaluation: Since **End Semester University examination** Evaluation is not available CO wise, total mark is considered for CO Attainment. CO attainment is calculated based on the students achieving the defined target.

Direct attainment of CO is calculated by considering 80% of university Examination level and 20% of IA Level.

1.2 Based on Indirect Course Assessment: Course Exit survey and Program Exit survey are carried out ,where students give feedback in the scale of 1 to 5, are summed up in the proportion of 80:20 respectively.

Final course wise PO PSO Attainment: :For attainment calculation, Average of Direct CO-PO attainment data from CO - PO Correlation matrix is collected for all courses and Indirect Course Assessment are summed up in the proportion of 80:20 respectively.

2. Indirect Method for PO PSO Attainment: Program Exit survey collected from students who are going to graduate at the end of the eighth semester.

Final Attainment for PO PSO Attainment: Sum of Final course wise PO PSO Attainment and Indirect Method for PO PSO Attainment in the proportion of 80:20 respectively.

If PO PSO reached the level of 3, then PO PSO attained, else Not.



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THAMIRABHARANI ENGINEERING COLLEGE

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Chithirampulakulam, Chidambaramagar - Vepankulam Road,
Thatchanallur, Truncheveli 627 358, Tamil Nadu.



DEPARTMENT OF CIVIL ENGINEERING
ATTAINMENT (Level - 1,5)
ACADEMIC YEAR 2022 - 2023

SL. NO.	SEM. REG	SUB/LA	SUB. CODE	SUB. NAME	IAT - 1	IAT - 2	IAT - 3/Model	CES	UNIVER SITY	ATTAIN MENT	STATUS
1		SUB	HS3152	Professional English - I	83.10	75.00	82.39	7.00	67.39	2.33	Attained
2		SUB	MA3151	Matrices and Calculus	16.90	69.60	70.43	8.00	30.43	1.22	Not Attained
3		SUB	PH3151	Engineering Physics	49.20	61.40	77.83	9.00	47.83	1.56	Attained
4		SUB	CY3151	Engineering Chemistry	52.50	57.90	81.74	7.00	21.74	1.22	Not Attained
5	IR 21	SUB	GE3151	Problem Solving and Python Programming	40.70	28.10	74.78	8.00	34.78	1.00	Not Attained
6		SUB	GE3152	கருத்தறிவு / Heritage of Tamil	88.89	88.90	88.78	8.00	84.78	2.67	Attained
7		LAB	GE3171	Problem Solving and Python Programming Laboratory	NA	NA	86.96	7.00	86.96	6.00	Attained
8		LAB	BS3171	Physics and Chemistry Laboratory	NA	NA	99.00	7.00	100.00	6.00	Attained
9		LAB	GE3172	English Laboratory	NA	NA	80.96	9.00	86.96	7.00	Attained
10		SUB	HS3252	Professional English - II	55.56	50.00	72.50	9.00	62.50	2.22	Attained
11		SUB	MA3251	Statistics and Numerical Methods	22.22	25.00	60.00	9.00	50.00	1.56	Attained
12		SUB	PH3201	Physics for Civil Engineering	55.56	0.00	66.00	7.00	50.00	1.33	Not Attained
13		SUB	BE3252	Basic Electrical, Electronics and Instrumentation Engineering	77.78	75.00	77.50	8.00	37.50	1.67	Attained
14	IIR 21	SUB	GE3251	Engineering Graphics	77.78	62.50	87.50	7.00	87.50	2.56	Attained
15		SUB	GE3252	கருத்தறிவு / Heritage of Tamil	82.00	85.00	100.00	9.00	100.00	3.00	Attained
16		LAB	GE3271	Tamil and Technology Laboratory	NA	NA	88.90	9.00	100.00	7.00	Attained
17		LAB	BE3272	Engineering Practices Laboratory	NA	NA	88.90	8.00	100.00	6.00	Attained
18		SUB	GE3272	Communication Laboratory / Foreign Language	NA	NA	100.00	8.00	100.00	6.00	Attained
19		SUB	MA3351	Transforms and Partial Differential Equations	100.00	100.00	100.00	8.00	76.00	2.67	Attained
20		SUB	ME3351	Engineering Mechanics	88.89	88.90	57.10	8.00	87.00	2.44	Attained
21		SUB	CE3301	Fluid Mechanics	100.00	88.90	33.30	7.00	65.40	2.00	Attained
22		SUB	CE3302	Construction Materials and Technology	100.00	100.00	83.33	7.00	56.52	2.00	Attained
23		SUB	CE3303	Water Supply and Wastewater Engineering	100.00	77.80	100.00	7.00	60.90	2.33	Attained
24	III R 21	SUB	CE3351	Surveying and Levelling	100.00	100.00	71.40	7.00	95.24	2.67	Attained
25		LAB	CE3361	Surveying and Levelling Laboratory	NA	NA	88.90	8.00	100.00	6.00	Attained
26		LAB	CE3311	Water and Wastewater Analysis Laboratory	NA	NA	88.90	8.00	100.00	6.00	Attained
27		LAB	GE3361	Professional Development	NA	NA	100.00	9.00	100.00	7.00	Attained
28		SUB	CE3401	Applied Hydraulics Engineering	100.00	100.00	100.00	7.00	92.30	2.67	Attained
29		SUB	CE3402	Strength of Materials	42.90	71.40	57.10	9.00	69.60	2.11	Attained
30		SUB	CE3403	Concrete Technology	57.14	66.67	83.33	7.00	57.70	1.44	Not Attained
31		SUB	CE3404	Soil Mechanics	100.00	100.00	100.00	9.00	64.30	2.67	Attained
32	IV R 21	SUB	CE3405	Highway and Railway Engineering	85.70	100.00	71.40	7.00	71.40	2.67	Attained
33		SUB	GE3451	Environmental Sciences and Sustainability	NA	NA	96.80	7.00	100.00	6.00	Attained
34		LAB	CE3411	Hydraulic Engineering Laboratory	NA	NA	73.30	8.00	100.00	6.00	Attained
35		LAB	CE3412	Materials Testing Laboratory	NA	NA	80.00	9.00	100.00	7.00	Attained
36		LAB	CE3413	Soil Mechanics Laboratory	NA	NA	80.60	9.00	76.00	3.00	Attained
37		SUB	CE8501	Design of Reinforced Concrete Elements	71.43	92.30	80.60	9.00	76.00	3.00	Attained
38		SUB	CE8502	Structural Analysis I	80.00	69.60	74.10	7.00	87.00	2.56	Attained



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 Chidambaram Road, Thirunelveli, Tamil Nadu - 627 358

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
ATTAINMENT (Level - I.5)
ACADEMIC YEAR 2022 - 2023

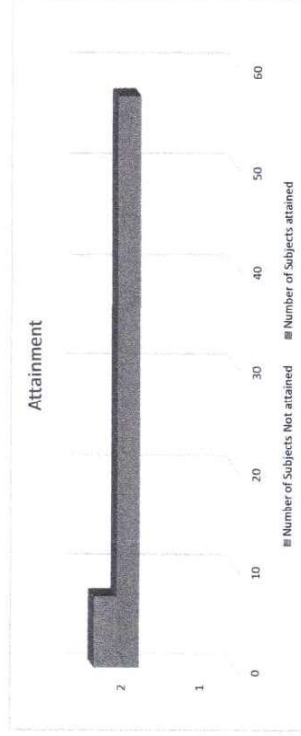
SL. NO.	SEM	SUB./LA	SUB. CODE	SUB. NAME	IAT - 1	IAT - 2	IAT - 3/Model	CES	UNIVER SITY	ATTAIN MENT	STATUS
1	I R 21	SUB	HS3152	Professional English - I	73.80	74.20	55.60	7.00	91.80	2.44	Attained
2		SUB	MA3151	Matrices and Calculus	53.20	30.00	70.40	7.00	26.67	1.11	Not Attained
3		SUB	PH3151	Engineering Physics	42.60	72.10	68.80	9.00	54.10	1.89	Attained
4		SUB	CY3151	Engineering Chemistry	58.30	68.90	83.33	8.00	44.26	1.33	Not Attained
5		SUB	GE3151	Problem Solving and Python Programming	47.50	46.80	64.80	7.00	62.30	1.56	Attained
6		SUB	GE3152	கூப்பிங்/Heritage of Tamil	96.00	100.00	96.00	7.00	86.67	2.67	Attained
7	II R 21	LAB	GE3171	Problem Solving and Python Programming Laboratory	NA	NA	93.50	9.00	100.00	7.00	Attained
8		LAB	BS3171	Physics and Chemistry Laboratory	NA	NA	80.43	9.00	100.00	7.00	Attained
9		LAB	GE3172	English Laboratory	NA	NA	74.47	8.00	98.36	6.00	Attained
10		SUB	HS3252	Professional English - II	71.40	74.47	74.20	8.00	93.94	2.67	Attained
11		SUB	MA3251	Statistics and Numerical Methods	47.90	62.22	30.00	8.00	45.92	0.89	Not Attained
12		SUB	PH3256	Physics for Information Science	75.50	73.91	72.10	7.00	74.49	2.67	Attained
13		SUB	BE3251	Basic Electrical and Electronics Engineering	72.30	63.83	68.90	9.00	41.84	1.78	Attained
14		SUB	GE3251	Engineering Graphics	54.17	86.00	46.80	8.00	58.16	1.44	Not Attained
15		SUB	CS3251	Programming in C	93.50	80.43	100.00	7.00	62.63	2.33	Attained
16		SUB	GE3252	Tamil and Technology	98.00	100.00	98.00	9.00	97.96	3.00	Attained
17		LAB	GE3271	Engineering Practices Laboratory	NA	NA	86.00	7.00	100.00	6.00	Attained
18		LAB	CS3271	Programming in C Laboratory	NA	NA	80.43	8.00	97.96	6.00	Attained
19		LAB	GE3272	Communication Laboratory / Foreign Language	NA	NA	93.50	8.00	100.00	6.00	Attained
20		SUB	MA3354	Discrete Mathematics	32.70	39.30	47.20	8.00	32.80	0.67	Not Attained
21	SUB	CS3351	Digital Principles and Computer Organization	44.60	42.60	56.00	7.00	78.00	1.78	Attained	
22	SUB	CS3352	Foundations of Data Science	50.00	54.20	60.80	9.00	77.20	2.44	Attained	
23	SUB	CS3301	Data Structures	74.50	67.80	76.79	7.00	78.90	2.56	Attained	
24	SUB	CS3391	Object Oriented Programming	72.20	72.90	60.40	8.00	68.40	2.22	Attained	
25	SUB	CS3311	Data Structures Laboratory	NA	NA	53.10	8.00	91.20	4.00	Attained	
26	LAB	CS3381	Object Oriented Programming Laboratory	NA	NA	80.43	7.00	100.00	6.00	Attained	
27	LAB	GE3361	Data Science Laboratory	NA	NA	93.50	7.00	100.00	6.00	Attained	
28	LAB	GE3361	Professional Development	0.00	0.00	74.50	7.00	100.00	2.00	Attained	
29	SUB	CS3452	Theory of Computation	59.30	47.20	55.60	9.00	55.40	1.56	Attained	
30	SUB	CS3491	Artificial Intelligence and Machine Learning	55.60	56.00	70.40	9.00	89.30	2.56	Attained	
31	SUB	CS3492	Database Management Systems	49.10	60.80	68.80	7.00	77.20	2.11	Attained	
32	SUB	CS3401	Algorithms	78.57	76.79	83.33	9.00	94.70	3.00	Attained	
33	SUB	CS3451	Introduction to Operating Systems	46.40	60.40	64.80	8.00	78.90	2.11	Attained	
34	SUB	GE3451	Environmental Sciences and Sustainability	68.40	53.10	96.00	9.00	84.20	2.67	Attained	
35	LAB	CS3461	Operating Systems Laboratory	NA	NA	95.60	7.00	100.00	6.00	Attained	
36	LAB	CS3481	Database Management Systems Laboratory	NA	NA	82.70	8.00	100.00	6.00	Attained	
37	LAB	CS3401	Algorithms Lab	NA	NA	98.08	8.00	100.00	6.00	Attained	
38	LAB	CS3491	Artificial Intelligence and Machine Learning Lab	NA	NA	89.80	7.00	100.00	6.00	Attained	
39	SUB	MA8551	Algebra and Number Theory	47.20	82.40	71.70	7.00	38.90	1.33	Not Attained	
40	SUB	CS8591	Computer Networks	39.20	86.30	95.60	7.00	83.00	2.33	Attained	
41	SUB	EC8691	Microprocessors and Microcontrollers	46.00	86.50	82.70	9.00	86.80	2.67	Attained	
42	SUB	CS8501	Theory of Computation	57.40	62.75	98.08	7.00	88.50	2.33	Attained	
43	SUB	CS8592	Object Oriented Analysis and Design	69.20	84.60	89.80	9.00	88.70	2.89	Attained	
44	SUB	OAN551	Sensors and Transducers(Open Elective-I)	22.90	62.75	71.70	9.00	84.90	2.56	Attained	

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Sl. No.	Lab	EC8681	Microprocessors and Microcontrollers Laboratory	NA	NA	91.50	8.00	100.00	6.00	Attained
45	LAB	EC8681	Microprocessors and Microcontrollers Laboratory	NA	NA	78.70	8.00	100.00	6.00	Attained
46	LAB	CS8582	Object Oriented Analysis and Design Laboratory	NA	NA	77.55	8.00	100.00	6.00	Attained
47	LAB	CS8581	Networks Laboratory	NA	NA	88.90	8.00	67.90	2.33	Attained
48	SUB	CS8651	Internet Programming	82.40	71.70	88.90	8.00	67.90	2.33	Attained
49	SUB	CS8691	Artificial Intelligence	86.30	95.60	91.50	9.00	88.70	3.00	Attained
50	SUB	CS8601	Mobile Computing	86.50	82.70	78.70	9.00	77.40	3.00	Attained
51	SUB	CS8602	Compiler Design (I)	62.75	98.08	77.55	9.00	60.40	2.56	Attained
52	SUB	CS8603	Distributed Systems	84.60	89.80	72.10	9.00	92.50	3.00	Attained
53	SUB	IT8076	Software Testing (Elective I)	93.62	61.20	82.40	9.00	0.00	1.89	Attained
54	LAB	CS8661	Internet Programming Laboratory	NA	NA	86.30	9.00	100.00	7.00	Attained
55	LAB	CS8662	Mobile Application Development Laboratory	NA	NA	86.50	9.00	100.00	7.00	Attained
56	LAB	HS8581	Professional Communication	82.61	63.30	62.75	7.00	100.00	2.44	Attained
57	LAB	CS8611	Mini Project	93.62	89.80	84.60	9.00	100.00	3.00	Attained
58	SUB	MG8591	Principles of Management	61.20	97.83	93.62	9.00	100.00	2.89	Attained
59	SUB	CS8792	Cryptography and Network Security	69.60	74.42	87.76	7.00	87.80	2.56	Attained
60	SUB	CS8791	Cloud Computing	66.00	93.62	91.11	8.00	98.00	2.56	Attained
61	SUB	OE752	Introduction to Renewable Energy Systems (OE-II)	63.30	89.58	82.61	8.00	93.90	2.56	Attained
62	SUB	GE8071	Disaster Management (PE-III)	89.80	87.23	93.62	9.00	100.00	3.00	Attained
63	LAB	CS8711	Cloud Computing Laboratory	NA	NA	70.70	8.00	100.00	2.67	Attained
64	LAB	IT8761	Security Laboratory	NA	NA	78.70	7.00	100.00	2.67	Attained
65	lab	HX8001	Naalaya Tran - Experiential Project Based Learning Initiative	NA	NA	77.55	9.00	98.00	3.00	Attained
66	sub	CS8080	Information Retrieval Techniques	93.90	93.90	70.70	9.00	93.90	3.00	Attained
67	sub	GE8076	Professional Ethics in Engineering	100.00	100.00	82.20	8.00	89.80	2.67	Attained
68	lab	CS8811	Project Work	NA	NA	78.70	8.00	100.00	6.00	Attained

Overall Attainment Status	
Total Number of Subjects	68
Number of Subjects attained	62
Number of Subjects Not attained	6



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Note: Corrective measures were implemented for every non-attained subject after an analysis of the non-attained subjects was completed.

DEPARTMENT OF EEE
ATTAINMENT (Level - I,5)
ACADEMIC YEAR 2022 - 2023

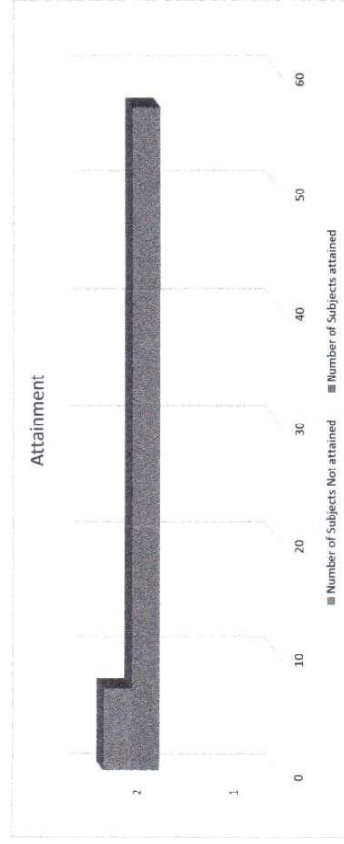
SL. NO.	SEM REG	SUB./IA	SUB. CODE	SUB. NAME	IAT - 1	IAT - 2	IAT - 3/Model	CES	UNIVER SITY	ATTAIN MENT	STATUS
1		SUB	HS3152	Professional English - I	52.50	75.00	89.50	8.00	67.39	1.44	Not Attained
2		SUB	MA3151	Matrices and Calculus	14.30	69.60	78.90	8.00	30.43	1.22	Not Attained
3		SUB	PH3151	Engineering Physics	25.40	61.40	40.00	8.00	47.83	0.89	Not Attained
4		SUB	CY3151	Engineering Chemistry	25.40	57.90	60.00	7.00	21.74	1.00	Not Attained
5	I R 21	SUB	GE3151	Problem Solving and Python Programming	58.70	28.10	63.20	9.00	34.78	1.33	Not Attained
6		SUB	GE3152	தமிழ்நாட்டின் பாரம்பரியம் / Heritage of Tamil	83.33	72.73	63.20	9.00	84.78	2.89	Attained
7		LAB	GE3171	Problem Solving and Python Programming Laboratory	NA	NA	75.00	8.00	86.96	6.00	Attained
8		LAB	BS3171	Physics and Chemistry Laboratory	NA	NA	69.60	9.00	100.00	6.00	Attained
9		LAB	GE3172	English Laboratory	NA	NA	61.40	7.00	86.96	5.00	Attained
10		SUB	HS3252	Professional English - II	83.33	72.73	75.00	7.00	90.91	2.67	Attained
11		SUB	MA3251	Statistics and Numerical Methods	58.33	45.45	85.71	7.00	54.55	1.44	Not Attained
12		SUB	PH3202	Physics for Electrical Engineering	58.33	72.73	55.56	9.00	72.73	2.56	Attained
13		SUB	BE3255	Basic Civil and Mechanical Engineering	72.73	54.55	82.14	9.00	72.73	2.78	Attained
14		SUB	GE3251	Engineering Graphics	91.67	72.73	88.46	9.00	18.18	2.00	Attained
15	II R 21	SUB	EE3251	Electric Circuit Analysis	75.00	90.91	88.89	9.00	90.91	3.00	Attained
16		SUB	GE3252	தமிழ்நாட்டின் தொழில்நுட்ப வரலாறு / Tamil and Technology	NA	NA	85.71	7.00	100.00	6.00	Attained
17		LAB	GE3271	Engineering Practices Laboratory	NA	NA	55.56	7.00	100.00	4.00	Attained
18		LAB	EE3271	Electric Circuits Laboratory	NA	NA	82.14	8.00	100.00	6.00	Attained
19		LAB	MA3303	Communication Laboratory / Foreign Language	NA	NA	88.46	8.00	100.00	6.00	Attained
20		SUB	MA3303	Probability and Complex Functions	41.70	17.60	47.10	7.00	32.00	0.67	Not Attained
21		SUB	EE3301	Electromagnetic Fields	41.70	55.60	40.00	7.00	41.00	0.78	Not Attained
22		SUB	EE3302	Digital Logic Circuits	44.00	54.50	52.90	8.00	45.90	0.89	Not Attained
23		SUB	EC3301	Electron Devices and Circuits	16.00	30.00	65.00	9.00	68.00	1.89	Not Attained
24		SUB	EE3303	Electrical Machines I	37.50	50.00	55.60	8.00	32.00	0.89	Not Attained
25	III R 21	SUB	CS3353	C Programming and Data Structures	66.70	71.40	55.60	8.00	27.00	1.33	Not Attained
26		LAB	EC3311	Electronic Devices and Circuits Lab	NA	NA	89.50	7.00	100.00	6.00	Attained
27		LAB	EE3311	Electrical Machines Lab - I	NA	NA	78.90	9.00	100.00	7.00	Attained
28		LAB	CS3362	C Programming and Data Structures Laboratory	NA	NA	75.00	8.00	100.00	6.00	Attained
29		LAB	GE3361	Professional Development	NA	NA	69.20	9.00	100.00	6.00	Attained
30		SUB	GE3451	Environmental Sciences and Sustainability	47.10	89.50	35.70	9.00	60.00	2.00	Attained
31		SUB	EE3401	Transmission and Distribution	40.00	78.90	69.20	8.00	50.00	1.56	Not Attained
32		SUB	EE3402	Linear Integrated Circuits	52.90	40.00	31.30	7.00	40.00	0.78	Not Attained
33		SUB	EE3403	Measurements and Instrumentation	65.00	60.00	60.00	9.00	50.00	2.00	Attained
34	IV R 21	SUB	EE3404	Microprocessor and Microcontroller	55.60	63.20	75.00	7.00	85.00	2.33	Attained
35		SUB	EE3405	Electrical Machines II	55.60	63.20	46.70	9.00	70.00	2.33	Attained
36		LAB	EE3411	Electrical Machines Lab I	NA	NA	89.50	9.00	95.00	7.00	Attained
37		LAB	EE3412	Linear and Digital Circuits Lab	NA	NA	78.90	7.00	100.00	6.00	Attained
38		LAB	EE3413	Microprocessor and Microcontroller Lab	NA	NA	75.00	9.00	95.00	7.00	Attained

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39	SUB	EE8501	Power System Analysis	31.00	75.00	55.17	9.00	83.00	2.44	Attained
40	SUB	EE8511	Microprocessors and Microcontrollers	65.50	85.71	70.37	7.00	93.00	2.56	Attained
41	SUB	EE8552	Power Electronics	60.00	55.56	84.00	9.00	34.00	1.67	Not Attained
42	SUB	EE8591	Digital Signal Processing	67.90	82.14	62.07	7.00	79.00	2.44	Attained
43	SUB	CS8392	Object Oriented Programming	86.20	88.46	75.86	9.00	93.00	3.00	Attained
44	SUB	OAN551	Sensors and Transducers	84.60	88.89	82.76	7.00	97.00	2.67	Attained
45	LAB	EE8511	Control and Instrumentation Lab	NA	NA	82.14	9.00	100.00	7.00	Attained
46	LAB	HS8581	Professional Communication Lab	NA	NA	88.46	9.00	100.00	7.00	Attained
47	LAB	CS8383	Object Oriented Programming Lab	NA	NA	88.89	7.00	100.00	6.00	Attained
48	SUB	EE8601	Solid State Drives	62.10	96.60	63.00	8.00	76.00	2.44	Attained
49	SUB	EE8602	Protection and Switch Gear	75.00	89.70	80.00	9.00	83.00	3.00	Attained
50	SUB	EE8691	Embedded Systems	58.60	86.20	72.00	8.00	80.00	2.44	Attained
51	SUB	FC8395	Communication Engineering	57.14	65.52	84.62	7.00	100.00	2.33	Attained
52	SUB	EE8661	Power Electronics and Drives Lab	NA	NA	96.60	9.00	100.00	7.00	Attained
53	SUB	EE8681	Microprocessor and Microcontroller Lab	NA	NA	89.70	7.00	100.00	6.00	Attained
54	LAB	EE8611	Mim Project	NA	NA	86.20	7.00	100.00	6.00	Attained
55	SUB	EE8701	High Voltage Engineering	27.80	44.40	75.00	8.00	60.00	1.67	Not Attained
56	SUB	EE8702	Power System Operation and Control	64.70	52.60	64.70	9.00	45.00	1.56	Not Attained
57	SUB	EE8703	Renewable Energy Systems	68.40	55.60	76.90	9.00	80.00	2.67	Attained
58	SUB	GE8071	Disaster Management	85.00	78.90	93.80	9.00	90.00	3.00	Attained
59	SUB	GE8077	Total Quality Management	38.90	94.40	82.40	9.00	73.68	2.67	Attained
60	SUB	OCS752	Introduction to C Programming	22.20	33.30	31.30	7.00	42.11	0.67	Not Attained
61	LAB	EE8711	Power System Simulation Laboratory	NA	NA	78.90	9.00	100.00	7.00	Attained
62	LAB	EE8712	Renewable Energy Systems Laboratory	NA	NA	94.40	8.00	100.00	6.00	Attained
63	SUB	EE8015	Electric Energy Generation Utilization and Conservation	88.90	80.00	71.40	8.00	42.11	1.67	Not Attained
64	SUB	EE8017	HVDC Transmission	88.90	56.30	84.60	8.00	100.00	2.44	Attained
65	LAB	EE8811	Project	NA	NA	80.00	7.00	100.00	6.00	Attained

Overall Attainment Status	
Total Number of Subjects	65
Number of Subjects attained	46
Number of Subjects Not attained	19

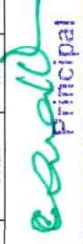


Note: Corrective measures were implemented for every non-attained subject after an analysis of the non-attained subjects was completed.

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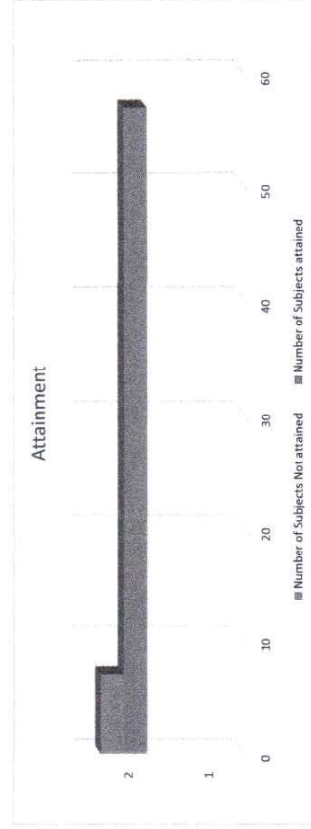
DEPARTMENT OF ECE
ATTAINMENT (Level - I,5)
ACADEMIC YEAR 2022 - 2023

SL. NO.	SEM. REG	SUB./LA	SUB. CODE	SUB. NAME	IAT - 1	IAT - 2	IAT - 3/Model	CES	UNIVER. CITY	ATTAINMENT	STATUS
1		SUB	HS3152	Professional English - I	62.00	37.30	75.50	8.00	76.67	2.67	Attained
2		SUB	MA3151	Matrices and Calculus	63.40	45.00	86.80	7.00	28.33	1.11	Not Attained
3		SUB	PH3151	Engineering Physics	61.10	6.70	73.10	9.00	53.33	2.00	Attained
4		SUB	CY3151	Engineering Chemistry	28.99	20.00	72.34	7.00	45.00	1.33	Not Attained
5	I R 21	SUB	GE3151	Problem Solving and Python Programming	41.70	43.30	60.40	9.00	56.67	1.56	Attained
6		SUB	GE3152	தமிழ்நாட்டு/Heritage of Tamils	100.00	78.00	81.60	7.00	91.67	2.67	Attained
7		LAB	GE3171	Problem Solving and Python Programming Laboratory	NA	NA	100.00	8.00	100.00	6.00	Attained
8		LAB	BS3171	Physics and Chemistry Laboratory	NA	NA	94.40	9.00	95.00	7.00	Attained
9		LAB	GE3172	English Laboratory	NA	NA	81.60	9.00	91.67	7.00	Attained
10		SUB	HS3252	Professional English - II	75.40	62.00	75.50	7.00	90.14	2.67	Attained
11		SUB	MA3251	Statistics and Numerical Methods	60.30	63.40	75.50	8.00	68.06	1.89	Attained
12		SUB	PH3254	Physics for Electronics Engineering	53.40	61.10	69.80	9.00	70.42	2.89	Attained
13		SUB	BE3254	Electrical and Instrumentation Engineering	69.57	28.99	76.74	7.00	29.58	1.56	Attained
14		SUB	GE3251	Engineering Graphics	60.30	41.70	38.50	8.00	41.18	1.11	Not Attained
15	II R 21	SUB	EC3251	Circuit Analysis	94.40	100.00	90.70	9.00	83.10	3.00	Attained
16		SUB	GE3252	தமிழ்நாட்டு/தொழில்நுட்ப மூலம் / Tamils and Technology	100.00	88.30	81.60	7.00	100.00	2.67	Attained
17		LAB	GE3271	Engineering Practices Laboratory	NA	NA	75.50	8.00	95.83	6.00	Attained
18		LAB	EC3271	Circuits Analysis Laboratory	NA	NA	75.50	8.00	100.00	6.00	Attained
19		LAB	GE3272	Communication Laboratory / Foreign Language	NA	NA	69.80	9.00	100.00	6.00	Attained
20		SUB	MA3355	Random Processes and Linear Algebra	37.30	42.30	73.33	8.00	62.00	1.67	Attained
21		SUB	CS3353	C Programming and Data Structures	45.00	46.00	67.60	9.00	58.00	1.56	Attained
22		SUB	EC3354	Signals and Systems	6.70	22.20	86.10	9.00	53.00	1.89	Attained
23		SUB	EC3355	Electronic Devices and Circuits	20.00	33.30	73.50	9.00	65.00	2.56	Attained
24	III R 21	SUB	EC3351	Control Systems	43.30	47.60	91.70	8.00	52.00	2.00	Attained
25		SUB	EC3352	Digital Systems Design	28.30	38.10	86.10	8.00	95.00	2.67	Attained
26		LAB	EC3361	Electronic Devices and Circuits Laboratory	NA	NA	75.50	9.00	95.00	7.00	Attained
27		LAB	CS3362	C Programming and Data Structures Laboratory	NA	NA	75.50	8.00	100.00	6.00	Attained
28		LAB	GE3361	Professional Development	NA	NA	69.80	7.00	100.00	5.00	Attained
29		SUB	EC3452	ELECTROMAGNETIC FIELDS	75.50	75.50	70.00	8.00	50.00	1.44	Not Attained
30		SUB	EC3401	NETWORKS AND SECURITY	75.50	86.80	68.30	8.00	98.00	2.11	Attained
31		SUB	EC3451	LINEAR INTEGRATED CIRCUITS	69.80	73.10	49.00	7.00	55.00	1.22	Not Attained
32		SUB	EC3492	DIGITAL SIGNAL PROCESSING	76.74	72.34	59.57	7.00	100.00	2.44	Attained
33	IV R 21	SUB	EC3491	COMMUNICATION SYSTEMS	38.50	60.40	66.70	7.00	27.00	1.11	Not Attained
34		SUB	GE3451	ENVIRONMENTAL SCIENCES AND SUSTAINABILITY	90.70	81.60	82.40	7.00	82.00	2.33	Attained
35		LAB	EC3461	COMMUNICATION SYSTEMS LABORATORY	NA	NA	91.20	8.00	100.00	6.00	Attained
36		LAB	EC3462	LINEAR INTEGRATED CIRCUITS LABORATORY	NA	NA	88.90	8.00	100.00	6.00	Attained
37		SUB	EC8501	Digital Communication	52.60	67.60	75.00	7.00	78.00	2.67	Attained
38		SUB	EC8553	Discrete-Time Signal Processing(I)	81.08	20.60	100.00	8.00	62.00	2.33	Attained
39		SUB	EC8552	Computer Architecture And Organization	60.00	54.30	71.10	8.00	84.00	2.33	Attained
40		SUB	EC8551	Communication Networks	76.47	86.50	91.20	7.00	97.00	2.33	Attained
41	V R 17	SUB	GE8077	Total Quality Management	71.45	97.20	88.90	7.00	84.00	2.33	Attained
42		SUB	OR0551	Renewable Energy Sources	57.14	74.30	86.20	8.00	92.00	2.33	Attained


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43	LAB	EC8562	Digital Signal Processing Laboratory	NA	NA	100.00	8.00	97.00	6.00	Attained
44	LAB	EC8561	Communication Systems Laboratory	NA	NA	71.10	8.00	100.00	6.00	Attained
45	LAB	EC8563	Communication Systems Laboratory	NA	NA	91.20	8.00	0.00	5.00	Attained
46	SUB	EC8691	MICROPROCESSORS & MICROCONTROLLERS	83.33	73.33	61.29	8.00	69.00	2.22	Attained
47	SUB	EC8095	VLSI DESIGN	45.70	67.60	0.00	8.00	48.00	1.33	Not Attained
48	SUB	EC8652	WIRELESS COMMUNICATION	77.10	86.10	60.60	9.00	94.00	2.89	Attained
49	SUB	MG8591	PRINCIPLES OF MANAGEMENT	71.40	73.50	0.00	9.00	94.00	2.67	Attained
50	SUB	EC8651	TRANSMISSION LINES AND RF SYSTEMS	63.90	91.70	93.50	7.00	82.00	2.67	Attained
51	SUB	EC8681	MICROPROCESSORS & MICROCONTROLLERS LAB	NA	NA	86.10	9.00	100.00	7.00	Attained
52	LAB	EC8661	VLSI DESIGN LAB	NA	NA	73.50	9.00	100.00	7.00	Attained
53	LAB	EC8611	TECHNICAL SEMINAR	NA	NA	91.70	8.00	100.00	6.00	Attained
54	LAB	HS8581	PROFESSIONAL COMMUNICATION	97.44	61.00	82.50	8.00	100.00	2.67	Attained
55	SUB	EC8701	Antennas And Microwave Engineering	97.44	61.00	82.50	8.00	82.00	2.67	Attained
56	SUB	EC8791	Embedded And Real Time Systems	89.19	80.50	62.50	8.00	97.00	2.44	Attained
57	SUB	HX8001	Professional Readiness (Project Hour)	70.27	95.10	89.70	7.00	100.00	2.67	Attained
58	SUB	EC8751	Optical Communication	56.41	90.20	85.00	9.00	95.00	2.89	Attained
59	SUB	EC8702	Ad Hoc And Wireless Sensor Networks	70.27	95.10	87.50	8.00	92.00	2.56	Attained
60	SUB	OEM752	Hospital Management	67.50	82.90	72.50	8.00	87.00	2.56	Attained
61	LAB	EC8711	Embedded Lab	NA	NA	89.70	7.00	100.00	6.00	Attained
62	LAB	EC8761	Advanced Communication Lab	NA	NA	85.00	7.00	100.00	6.00	Attained
63	LAB	EC8811	Project Work	NA	NA	87.50	7.00	0.00	5.00	Attained
64	SUB	EC8094	SATELLITE COMMUNICATION	95.80	94.40	89.70	7.00	92.00	2.67	Attained
65	SUB	GE8076	PROFESSIONAL ETHICS IN ENGINEERING	83.30	97.10	70.00	7.00	100.00	2.67	Attained
66	LAB	EC8811	PROJECT WORK	NA	NA	97.10	9.00	100.00	7.00	Attained

Overall Attainment Status	
Total Number of Subjects	66
Number of Subjects attained	59
Number of Subjects Not attained	7



Note: Corrective measures were implemented for every non-attained subject after an analysis of the non-attained subjects was completed.

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DEPARTMENT OF MECHANICAL ENGINEERING
ATTAINMENT (Level - 1.5)
ACADEMIC YEAR 2022 - 2023

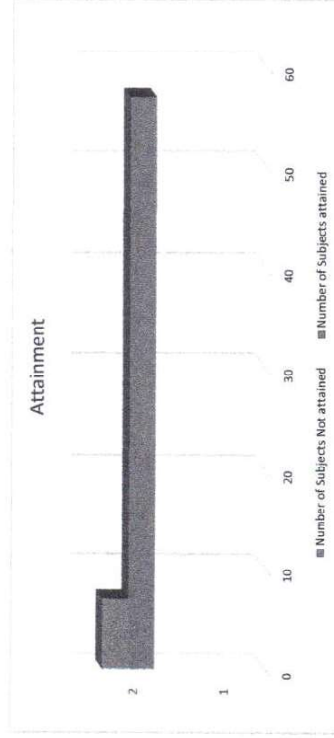
SL. NO.	SEM. NO. REG	SUB/LA SUB. B	SUB. NAME	IAT - 1	IAT - 2	IAT - 3/Model	CES	UNIVERSITY	ATTAINMENT	STATUS
1		SUB	Professional English - I	68.42	35.00	58.60	8.00	67.39	1.67	Attained
2		SUB	MA3151 Matrices and Calculus	63.16	65.00	69.00	9.00	30.43	1.67	Attained
3		SUB	PH3151 Engineering Physics	63.16	55.00	69.00	9.00	47.83	1.56	Attained
4		SUB	CY3151 Engineering Chemistry	66.67	10.50	75.00	8.00	21.74	1.22	Not Attained
5	I R 21	SUB	Problem Solving and Python Programming	61.11	15.80	85.70	7.00	34.78	1.22	Not Attained
6		SUB	GE3152 கற்பித்தல் / Heritage of Tamils	94.40	96.40	75.90	7.00	84.78	2.67	Attained
7		LAB	Problem Solving and Python Programming Laboratory	NA	NA	63.16	8.00	86.96	5.00	Attained
8		LAB	Physics and Chemistry Laboratory	NA	NA	63.16	9.00	100.00	6.00	Attained
9		LAB	English Laboratory	NA	NA	66.67	8.00	86.96	5.00	Attained
10		SUB	Professional English - II	78.95	68.42	85.80	8.00	73.68	2.56	Attained
11		SUB	MA3251 Statistics and Numerical Methods	55.56	63.16	53.60	8.00	73.68	2.11	Attained
12		SUB	PH3251 Materials Science	63.16	63.16	44.40	7.00	68.42	1.78	Attained
13		SUB	Basic Electrical, Electronics and Instrumentation Engineering	78.95	66.67	79.60	8.00	57.89	1.89	Attained
14	II R 21	SUB	BE3252 Engineering Graphics	84.21	61.11	65.50	8.00	73.68	2.44	Attained
15		SUB	GE3252 கற்பித்தல் / கருவிகள் / தமிழ் / Tamils and Technology	NA	NA	69.00	9.00	100.00	6.00	Attained
16		LAB	Engineering Practices Laboratory	NA	NA	69.00	8.00	100.00	5.00	Attained
17		LAB	BE3271 Basic Electrical and Electronics Engineering Laboratory	NA	NA	75.00	9.00	100.00	7.00	Attained
18		LAB	GE3272 Communication Laboratory / Foreign Language	NA	NA	85.70	9.00	100.00	7.00	Attained
19		SUB	MA3351 Transforms and Partial Differential Equations	35.00	38.90	58.60	9.00	47.36	1.11	Not Attained
20		SUB	ME3351 Engineering Mechanics	65.00	76.50	69.00	7.00	2500.00	2.44	Attained
21		SUB	ME3391 Engineering Thermodynamics	55.00	55.00	69.00	7.00	7500.00	2.11	Attained
22		SUB	CE3391 Fluid Mechanics and Machinery	10.50	10.50	75.00	9.00	4500.00	2.33	Attained
23	III R 21	SUB	Engineering Materials and Metallurgy	15.80	36.80	85.70	7.00	57.89	1.33	Not Attained
24		SUB	ME3393 Manufacturing Processes	25.00	80.00	75.90	9.00	35.00	1.67	Attained
25		LAB	Computer Aided Machine Drawing	NA	NA	75.00	9.00	100.00	7.00	Attained
26		LAB	ME3382 Manufacturing Technology Laboratory	NA	NA	85.70	7.00	100.00	6.00	Attained
27		LAB	GE3361 Professional Development	NA	NA	75.90	7.00	100.00	6.00	Attained
28		LAB	ME3491 Theory of Machines	26.30	31.60	65.00	7.00	60.00	1.56	Attained
29		SUB	ME3451 Thermal Engineering	17.60	42.10	44.40	8.00	63.20	1.33	Not Attained
30		SUB	ME3492 Hydraulics and Pneumatics	55.00	44.40	45.00	7.00	30.00	0.78	Not Attained
31	IV R 21	SUB	ME3493 Manufacturing Technology	26.32	36.84	50.00	7.00	75.00	1.78	Attained
32		SUB	CE3491 Strength of Materials	23.50	45.00	55.00	8.00	47.40	0.78	Not Attained
33		SUB	GE3451 Environmental Sciences and Sustainability	50.00	68.40	55.00	7.00	65.00	1.78	Attained
34		SUB	CE3481 Strength of Materials and Fluid Machinery Laboratory	NA	NA	85.70	9.00	100.00	7.00	Attained
35		LAB	ME3461 Thermal Engineering Laboratory	NA	NA	75.90	8.00	100.00	6.00	Attained
36		LAB	ME8501 Metrology and Measurements	22.20	33.30	28.30	8.00	53.06	1.00	Not Attained
37		SUB	ME8593 Design of Machine Elements	20.80	57.10	48.90	8.00	26.08	0.78	Not Attained
38		SUB	ME8594 Dynamics of Machines	35.40	41.30	43.80	7.00	46.93	0.67	Not Attained
39	V R 17	SUB	ME8595 Thermal Engineering-II	38.30	44.70	25.00	7.00	65.30	1.33	Not Attained
40		SUB	OAT552 Internal Combustion Engines	25.00	55.10	52.10	8.00	63.26	1.56	Attained

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41	SUB	ME8511	Kinematics and Dynamics Laboratory	NA	NA	69.00	8.00	100.00	5.00	Attained
42	SUB	ME8512	Thermal Engineering Laboratory	NA	NA	75.00	7.00	100.00	6.00	Attained
43	LAB	ME8513	Metrology and Measurements Laboratory	NA	NA	85.70	8.00	97.05	6.00	Attained
44	LAB	ME8651	Design of Transmission systems	31.30	31.30	28.60	9.00	60.00	1.67	Attained
45	LAB	ME8691	Computer aided design and manufacturing	40.80	44.90	27.10	9.00	41.90	1.00	Not Attained
46	SUB	ME8693	Heat and mass transfer	22.70	30.60	37.10	9.00	50.00	1.33	Not Attained
47	SUB	ME8692	Finite element analysis	32.61	34.04	40.91	7.00	17.40	0.67	Not Attained
48	SUB	ME8694	Hydraulics and pneumatics	26.10	18.60	39.00	9.00	60.90	1.67	Attained
49	SUB	ME8682	CAD/CAM Laboratory	NA	NA	69.00	9.00	100.00	6.00	Attained
50	SUB	ME8682	Design and fabrication Project	NA	NA	75.00	9.00	100.00	7.00	Attained
51	SUB	HS8581	Professional Communication	NA	NA	85.70	9.00	100.00	7.00	Attained
52	LAB	ME8791	Mechatronics	45.80	58.60	14.80	7.00	82.14	1.78	Attained
53	LAB	ME8792	Power Plant Engineering	53.60	69.00	58.30	9.00	71.42	2.44	Attained
54	LAB	ME8793	Process Planning and Cost Estimation	44.40	69.00	48.10	8.00	67.85	1.56	Attained
55	SUB	ME8097	Non Destructive Testing and Evaluation	29.60	75.00	58.60	8.00	92.85	2.11	Attained
56	SUB	ME8073	Unconventional Machining Processes	65.50	85.70	85.20	9.00	82.14	2.89	Attained
57	SUB	OIE751	Robotics	57.10	75.90	39.30	9.00	82.75	2.44	Attained
58	SUB	ME8711	Simulation and Analysis Laboratory	NA	NA	75.00	7.00	100.00	6.00	Attained
59	SUB	ME8781	Mechatronics Laboratory	NA	NA	85.70	8.00	100.00	6.00	Attained
60	SUB	ME8712	Technical Seminar	NA	NA	75.90	7.00	100.00	6.00	Attained
61	LAB	MG8591	Principles of management	50.00	46.20	70.00	8.00	86.20	2.11	Attained
62	LAB	IE8693	Production Planning and control	35.00	30.80	9.50	8.00	86.20	1.67	Attained
63	LAB	ME8811	Project Work	NA	NA	69.00	9.00	100.00	6.00	Attained

Overall Attainment Status	
Total Number of Subjects	63
Number of Subjects attained	49
Number of Subjects Not attained	14



Note: Corrective measures were implemented for every non-attained subject after an analysis of the non-attained subjects was completed.

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THAMIRABHARANI ENGINEERING COLLEGE

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Chathirampudukulam, Chidambaranagar - Vepenkulam Road.
Thatchanallur, Tirunelveli 627 358, Tamil Nadu.



2.3.3 RATIO OF MENTOR TO STUDENTS

S.No.	Description	Page No.
1.	Mentor Mentee Ratio for Last Completed year	
2.	Circulars Pertaining to assign Mentors to Mentees -2022-2023	
3.	Relevant Documents	

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