List of Assessment Processes:

The Assessment of course outcome for theory subjects are based on

1. Direct Assessment Tools

- **Internal Assessment Examinations (IAE)**

  This type of performance assessment is carried out during the examination sessions which are held thrice for a course (R-2017) and twice for a course (R2021) in every semester. Each and every IAE is focused in attaining the course outcomes.

- **Assignments (R2021)**

  The assignment is a qualitative performance assessment tool designed to assess students' knowledge of engineering practices based on application concerned with problem solving and focused in attaining the course outcomes.

- **End Semester Examinations**

  End Semester examination is a metric for assessing whether the COs are attained or not. Examination is more focused on attainment of course outcomes using a descriptive exam.

- **Assessment for Laboratory**

  Laboratory class course outcomes are evaluated based on the student's performance in Model Examination and End Semester Examination performance.

- **Project review & presentation**

  This type of performance assessment is carried out in the final year in project work are evaluated based on the presentations in Project Reviews and End Semester Viva Voce Examinations. Each and every review is focused in attaining the course outcomes.

2. Indirect Assessment Tools

- Course End Survey

B. The Quality / Relevance of assessment processes and tools used

Assessment Tool

The POs and PSOs are evaluated using Microsoft excel that simplifies CO attainment calculation for every course.

1. Direct Assessment Process

The approach in evaluating the attainment of CO is using existing data from students' marks. This method is chosen because of the information is readily available and it is common for most

courses. In general, assessment methods used are: (1) Internal Assessment Examinations (IAE) (2) Assignments (3) End Semester Examination. Each of these categories contributes a certain portion of the marks into some of the COs.

R-2017 -Direct CO Attainment = 80% Weightage of End Semester Examination + 20% of IAE
R-2021 -Direct CO Attainment = 60% Weightage of End Semester Examination + 40% of IAE

2. Indirect Assessment Process

Indirect assessment strategies are calculated from course end survey reports collected at the end of every semester.

After collection of individual survey forms, the marks for COs are calculated based on the following formula:

CO Indirect attainment =Average of (CO1+CO2+CO3+CO4+CO5) from Course End Survey

Final Overall CO Attainment

Final CO attainment for each course is calculated based on the contribution of direct and indirect assessments as per the weightage given below:

1. Direct Assessment (80%)
2. Indirect Assessment (20%)

Final CO attainment level = (80% Direct assessment + 20 % Indirect assessment)

Course Outcomes Assessment methods

Table 3.2.1.A. Course Outcomes Assessment methods

Regulation	Assessment tools	Description	Conducted by	Reviewed by
R2017	Internal Assessment Examinations	The students are made to appear for the Internal Assessments Examination conducted by the college. Three tests (IAE-I, IAE-II & IAE-III) will be conducted and	Exam Cell	Principal, HoD & Faculty

		the Marks will be accounted for the direct assessments of courses.		
	University Exams	Conducted by Anna University	Anna university	Principal, HoD& Faculty
	Course End Survey	Collected at the End of each course completion	Subject Faculty	Principal, HoD& Faculty
R2021	Internal Assessment Examinations Assignment / Seminar	The students are made to appear for the Internal Assessments Examination conducted by the college. Two tests (IAE-I, IAE-II) will be conducted and the Marks will be accounted for the direct assessments of courses.	Exam Cell	Principal, HoD & Faculty
	University Exams	Conducted by Anna University	Anna university	Principal, HoD& Faculty
	Course End Survey	Collected at the End of each course completion	Subject Faculty	Principal, HoD& Faculty

Course Outcomes Attainment Calculations

Table 3.2.1.B. Ratio of Internal and End Semester Mark Split up for various Courses

S.No.	Regulation	Category of Course	Internal Mark %	University Semester Exam Marks %	Total Marks
1	**R2017**	Theory course	20	80	100
2		Laboratory courses /Project work	20	80	100
1	**R2021**	Theory course	40	60	100
2		Laboratory courses /Project work	60	40	100
3		Theory cum Lab course	50	50	100

Internal Assessment Process for Theory Courses

Table 3.2.1.C Internal Assessment Process for Theory Courses

S.No	Components for IAP	Syllabus Coverage for the test	Duration of the test in Hrs.	Marks (Max)
R2017				
1	Internal Assessment Examinations I	First 1.5 Units	1 hr 30 min	50 Marks (Converted to 20)
2	Internal Assessment Examinations II	1.5 – 3 Units	1 hr 30 min	
3	Internal Assessment Examinations III	4-5 Units	1 hr 30 min	
4	University Examination	All 5 Units	3 hrs	100 Marks (Converted to 80)
			Total	**100**

R2021				
1	Internal Assessment Examinations I (60) Assignment I/ Seminar I (40)	First 2.5 units	3 hrs	100 Marks (Converted to 40)
		2.5 – 5 units	3 hrs	
2	Internal Assessment Examinations I (60) Assignment I / Seminar I (40)	2.5 – 5 units	3 hrs	
3	University Examination	All 5 Units	3 hrs	100 (Converted to 60)
			Total	100

Internal Assessment Process for Theory Cum Lab Courses

Table 3.2.1.D Internal Assessment Process for Theory Cum Lab Courses

R2021				
1	Internal Assessment Examinations I (60) Assignment I/ Seminar I (40)	First 2.5 units	3 hrs	100 Marks (Converted to 50)
		First 2.5 units	3 hrs	
2	Record (75) Model Exam (25)	All Excercises	3 hrs	
3	University Examination	All 5 Units	3 hrs	100 (Converted to 50)
			Total	100

Internal Assessment Process for Laboratory Courses

Table 3.2.1.E Internal Assessment Process for Laboratory Courses

S.No	Components for IAM	Marks (max.)	Attainment Calculation
R2017			
1	Record	75	Record & Model Mark Converted to 20 Marks
2	Model Exam	25	
3	University Practical Exam	100	University Practical Exam converted to 80 Marks
		Total	100
R2021			
1	Record	75	Record & Model Mark Converted to 60 Marks
2	Model Exam	25	
3	University Practical Exam	100	Converted to 40 Marks
		Total	100

Internal Assessment Process for Project Work

Table 3.2.1.E Internal Assessment Process for Project work

S.No	Components for IAM	Marks (max.)	Attainment Calculation
1	Project Review	100	3 Review marks (5+7.5+7.5) Converted to 20 marks
2	University Viva-Voce	100	Converted to 80 marks
		Total	100

3.2.2 Record the attainment of Course Outcome of all courses with respect to set attainment levels (40) **Institute Marks:40.00**

Methodology for attainment of Course Outcomes

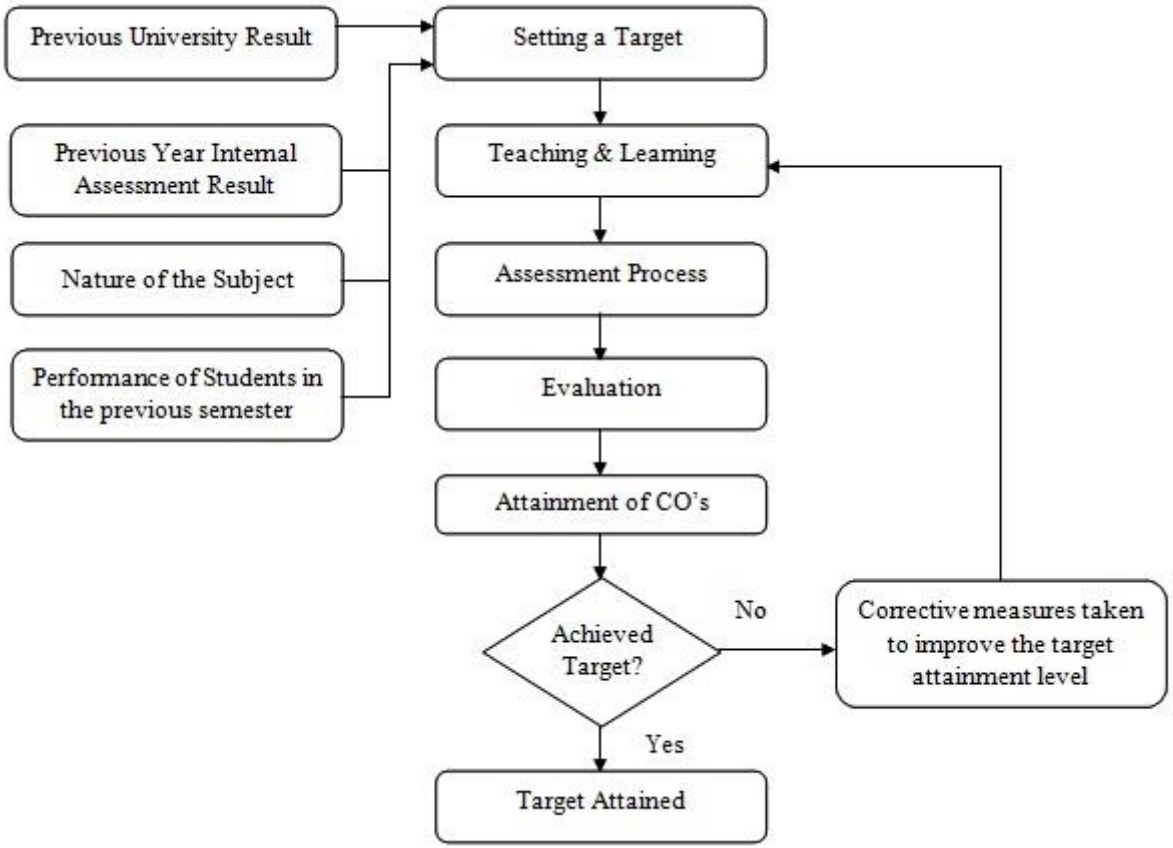


Fig.3.2.2 Attainment of all Courses

IAE Attainment calculation:

NANDHA COLLEGE OF TECHNOLOGY, ERODE-638052

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD)

IAE-1 ANALYSIS

COURSE CODE & NAME : EE8702 POWER SYSTEM OPERATION AND CONTROL

FACULTY NAME : Mrs.P.HEMALATHA ,AP/EEE

QUESTION EXPECTED LEVEL OF ATTAINMENT : 70 %

TOTAL STRENGTH : 18 CLASS: IV YEAR/EEE

S.No	Register Number	Name	2 Marks					Q6(13)				Q7(13)				Q8(14)				TEST SCORE (50)
			Q1	Q2	Q3	Q4	Q5	a (i)	a (ii)	b (i)	b (ii)	a (i)	a (ii)	b (i)	b (ii)	a (i)	a (ii)	b (i)	b (ii)	
			CO1	CO1	CO1	CO2	CO2	CO1	-	CO1	-	CO2	CO2	CO2	CO2	-	CO1	-	CO2	
		Marks	2	2	2	2	2	13	0	13	0	6	7	6	7	0	14	0	14	
		Expected Marks to attainment	1.4	1.4	1.4	1.4	1.4	9.1	##	9.1	##	##	##	##	##	##	##	##	##	
1	732119105001	Arunvass. R	2	2	0	2	2	10					5				7			30.0
2	732119105003	Guruprasanth.M	2	2	2	2	2	11				2	3				3			29.0
3	732119105004	Hindumathi.A	2	2	2	2	2			9				4	3				7	33.0
4	732119105005	Iniya.S	2	2	2	1	2			10		6	4				8			37.0
5	732119105006	Kamalesh.M	2	2	2	2	2			12		4	4							30.0
6	732119105007	Kaviarasu.K	2	2	2	2	2			10		3	4		2		7			36.0
7	732119105008	Nithishabinav.V	2	1	1	2	2	12				6	3						3	32.0
8	732119105010	Rajkumar.G	2	2	2	2	2	8				3	4				5			30.0
9	732119105011	Rohini.P	2	2	2	2	1	12				4	3				8			36.0
10	732119105012	Saran.K	2	2	2	2	2	6				6	7							29.0
11	732119105013	Sneka.M	2	2	2	2	0	10				5	7				11			41.0
12	732119105014	Surjeet Kumar	2	2	1	2	2			12				5	5		10			41.0
13	732119105015	Surya.S	2	2	2	2	2			12		4	6						11	43.0
14	732119105016	Surya Prakah.R	2	2	2	0	2			9		4	5				9			35.0
15	732119105017	Thamaraiselvan.Y	2	2	2	2	2			10		4	3				10			37.0
16	732119105301	Chandrasanjeevan	2	2	2	1	2			12		6	5						12	44.0
17	732119105302	Rahul.S	2	2	2	2	1	9				5	3						6	32.0
18	732119105501	Subaharini.S	2	2	2	2	2	8				6	5						11	40.0
		No of students scores upto 70 % expected level	18	17	15	15	15	5	0	7	0	7	7	1	1	0	3	0	3	
		% of scoring above the attainment level	##	94	83	83	83	56	0	78	0	47	44	50	33	0	30	0	50	

Course Outcome Attainment Level Indicator

Scale	3			2			1											
Range of attainment	>=70			50 t< 70			<50											
Mapping with CO	CO1	CO1	CO1	CO2	CO2	CO1	-	CO1	-	CO2	CO2	CO2	CO2	-	CO1	-	CO2	
Attainment level of each CO	3	3	3	3	3	2	0	3	0	1	1	2	1	0	1	0	2	

Attainment Level of COs in IAE 1	CO1	CO2	CO3	CO4	CO5
	2.50	1.86	0.00	0.00	0.00

Mapping with PO & PSO : PO1, PO2, PO3, PO4, PO5, PO7, PO12, PSO2

End Semester Attainment:

NANDHA COLLEGE OF TECHNOLOGY, PERUNDURAI, ERODE-638052

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD)

END SEMESTER ANALYSIS

URSE CODE & NAME :	EE8702 POWER SYSTEM OPERATION AND CONTROL
FACULTY NAME:	Mrs.P.HEMALATHA ,AP/EEE
Overall Expected Level of Attainment :	70 %
TOTAL STRENGTH :	18
Class	IV YEAR/EEE

S.No	Reg No	Name	Grade (O=10, A+=9, A=8, B+=7, B=6, U=0, RA=0)
1	732119105001	Arunvass. R	B
2	732119105003	Guruprasanth.M	B+
3	732119105004	Hindumathi.A	B+
4	732119105005	Iniya.S	A
5	732119105006	Kamalesh.M	B
6	732119105007	Kaviarasu.K	A
7	732119105008	Nithishabinav.V	A
8	732119105010	Rajkumar.G	B
9	732119105011	Rohini.P	A
10	732119105012	Saran.K	B
11	732119105013	Sneka.M	A
12	732119105014	Surjeet Kumar	B+
13	732119105015	Surya.S	B+
14	732119105016	Surya Prakah.R	B+
15	732119105017	Thamaraiselvan.Y	A
16	732119105301	Chandrasanjeevanan.M	B+
17	732119105302	Rahul.S	B
18	732119105501	Subaharini.S	B+
No of Students Scored upto Expected Level			13
% of Scored Above the Attainment Level			72

Course Outcome Attainment Level Indicator

Scale	3	2	1
Range of attainment	70	70	<50
Mapping with CO		CO1, CO2,CO3, CO4 and CO5	
Attainment level of all COs		3	
Mapping with PO		O2, PO3, PO4, PO5, PO7, PO12	

Course end survey:

NANDHA COLLEGE OF TECHNOLOGY, PERUNDURAI, ERODE-638052

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD)

COURSE END SURVEY

COURSE NAME & CODE : EE8702 POWER SYSTEM OPERATION AND CONTROL

FACULTY NAME : Mrs.P.HEMALATHA ,AP/EEE

CO1	Ability to understand the day-to-day operation of electric power system
CO2	Ability to analyze the control actions to be implemented on the system to meet the minute-to-minute variation
CO3	Ability to acquire knowledge on real power-frequency interaction
CO4	Ability to understand the reactive power-voltage interaction
CO5	Ability to design SCADA and its application for real time operation

Class : IV YEAR/EEE

S.No	Reg. No.	Name	CO1	CO2	CO3	CO4	CO5
1	732119105001	Arunvass. R	3	2	3	3	3
2	732119105003	Guruprasanth.M	3	3	3	3	3
3	732119105004	Hindumathi.A	3	3	3	2	3
4	732119105005	Iniya.S	1	2	3	2	2
5	732119105006	Kamalesh.M	3	3	3	1	3
6	732119105007	Kaviarasu.K	3	3	3	2	2
7	732119105008	Nithishabinav.V	3	3	2	3	2
8	732119105010	Rajkumar.G	3	3	3	3	3
9	732119105011	Rohini.P	2	3	1	2	3
10	732119105012	Saran.K	3	3	3	2	3
11	732119105013	Sneka.M	2	2	3	3	3
12	732119105014	Surjeet Kumar	3	3	2	2	3
13	732119105015	Surya.S	2	2	2	3	2
14	732119105016	Surya Prakah.R	2	2	3	3	3
15	732119105017	Thamaraiselvan.Y	2	2	2	3	2
16	732119105301	Chandrasanjeevanan.M	3	3	3	3	3
17	732119105302	Rahul.S	3	2	1	3	1
18	732119105501	Subaharini.S	3	2	3	3	3
AVERAGE			2.61	2.56	2.56	2.56	2.61

Over all Attainment:

NANDHA COLLEGE OF TECHNOLOGY, PERUNDURAI, ERODE-638052

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD)

ATTAINMENT OF COURSE OUTCOMES

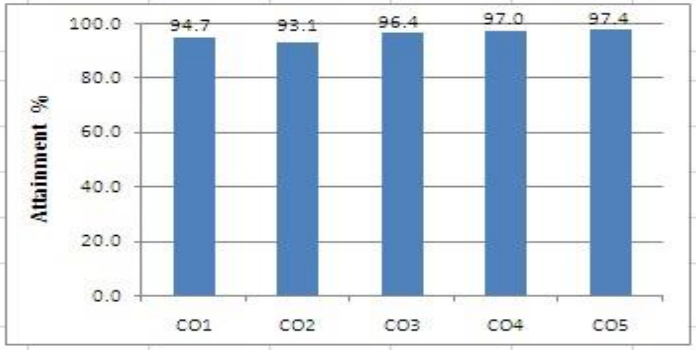
COURSE CODE & NAME: EE8702 POWER SYSTEM OPERATION AND CONTROL

FACULTY NAME: Mrs.P.HEMALATHA ,AP/EEE Class: IV YEAR/EEE

DIRECT ATTAINMENT					
ATTAINMENT LEVEL IN 3 SCALE					
ASSESSMENT TOOLS	CO1	CO2	CO3	CO4	CO5
IAE 1	2.50	1.86			
IAE 2		2.67	2.89		
IAE 3				3.00	3.00
AVERAGE OF IAE	2.50	2.26	2.89	3.00	3.00
END SEMESTER	3	3	3	3	3
80% of END SEM +20 % of IAE	2.90	2.85	2.98	3.00	3.00
Overall CO Direct Attainment	2.95				

INDIRECT ATTAINMENT					
ATTAINMENT LEVEL IN 3 SCALE					
ASSESSMENT TOOLS	CO1	CO2	CO3	CO4	CO5
Course End Survey	2.61	2.56	2.56	2.56	2.61
Overall CO Indirect Attainment	2.58				

OVERALL FINAL CO ATTAINMENT (80% of Direct +20% of Indirect)				
ATTAINMENT LEVEL IN 3 SCALE				
CO1	CO2	CO3	CO4	CO5
2.84	2.79	2.89	2.91	2.92
2.87				
ATTAINMENT LEVEL IN %				
CO1	CO2	CO3	CO4	CO5
94.7	93.1	96.4	97.0	97.4



Mapping with PO & PSOs: PO1, PO2, PO3, PO4, PO5, PO7, PO12, PSO2

CO-PO-PSO Attriculation Matrix														
CO No	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**
1	3	3	3	2	3	-	3	-	-	-	-	3	-	2
2	3	3	3	2	3	-	2	-	-	-	-	3	-	2
3	2	3	3	2	2	-	3	-	-	-	-	3	-	2
4	2	3	3	2	2	-	3	-	-	-	-	3	-	2
5	1	3	3	2	2	-	3	-	-	-	-	3	-	2
AVERAGE	**2.2**	**3.0**	**3.0**	**2.0**	**2.4**		**2.8**					**3.0**		**2.0**
PO & PSO Attainment %														
CO Attainment	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**
2.84	2.84	2.84	2.84	1.89	2.84		2.84					2.84		1.89
2.79	2.79	2.79	2.79	1.86	2.79		1.86					2.79		1.86
2.89	1.93	2.89	2.89	1.93	1.93		2.89					2.89		1.93
2.91	1.94	2.91	2.91	1.94	1.94		2.91					2.91		1.94
2.92	0.97	2.92	2.92	1.95	1.95		2.92					2.92		1.95
Overall PO/PSO ATTAINMENT OUT OF 3	**2.10**	**2.87**	**2.87**	**1.91**	**2.29**		**2.69**					**2.87**		**1.91**
Overall PO/PSO ATTAINMENT	**95.3**	**95.7**	**95.7**	**95.7**	**95.4**		**95.9**					**95.7**		**95.7**

COs Attainment of all Courses

Table 3.2.2 COs Attainment of all Courses for the batch 2018-2022

S.NO	Course	Course Code	Course Name	Direct Attainment		Overall Direct Attainment	Indirect Attainment	Target Fixed	Over all CO Attainment	Attained or Not Attained
				IAE	End Sem					
Semester I										
1	C101	HS8151	COMMUNICATION ENGLISH	0.43	2.40	2.83	2.66	1.8	2.8	Attained
2	C102	MA8151	ENGINEERING MATHEMATICS-I	0.51	2.4	2.91	2.64	1.8	2.86	Attained
3	C103	PH8151	ENGINEERINGPHYSICS	0.56	2.4	2.96	2.81	1.8	2.93	Attained
4	C104	CY8151	ENGINEERINGCHEMISTRY	0.50	1.6	2.10	2.68	2.1	2.22	Attained
5	C105	GE8151	PROBLEMSOLVINGANDPYTHONPROGRAMMING	0.55	2.4	2.95	2.66	1.8	2.89	Attained
6	C106	GE8152	ENGINEERING GRAPHICS	0.6	0.8	1.40	2.68	1.8	1.66	Not Attained
7	C107	GE8161	PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY	0.6	1.6	2.20	2.63	2.25	2.29	Attained
8	C108	BS8161	PHYSICS AND CHEMISTRY LABORATORY	0.6	2.4	3	2.8	2.4	2.96	Attained

Semester II										
9	C109	HS8251	TECHNICAL ENGLISH	0.14	2.4	2.54	2.66	1.92	2.56	Attained
10	C110	MA8251	ENGINEERING MATHEMAICS-II	0.32	2.4	2.72	2.65	2.1	2.71	Attained
11	C111	PH8253	PHYSICS FOR ELECTRONICS ENGINEERING	0.14	0.8	0.94	2.78	1.86	1.3	Not Attained
12	C112	BE8252	BASIC CIVIL AND MECHANICAL ENGINEERING	0.13	2.4	2.53	2.64	2.1	2.55	Attained
13	C113	EE8251	CIRCUIT THEORY	0.41	2.4	2.81	2.65	2.1	2.78	Attained
14	C114	GE8291	ENVIRONMENTAL SCIENCE AND ENGINEERING	0.12	2.4	2.52	2.61	2.1	2.54	Attained
15	C115	GE8261	ENGINEERING PRACTICES LABORATORY	0.6	2.4	3	2.8	2.7	2.96	Attained
16	C116	EE8261	ELECTRIC CIRCUITS LABORATORY	0.40	2.4	2.80	2.65	2.64	2.77	Attained
Semester III										

17	C201	MA8353	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	0.56	2.4	2.96	2.63	1.8	2.9	Attained
18	C202	EE8351	DIGITAL LOGIC CIRCUITS	0.49	2.4	2.89	2.63	2.19	2.84	Attained
19	C203	EE8391	ELECTROMAGNETIC THEORY	0.51	2.4	2.91	2.62	2.1	2.85	Attained
20	C204	EE8301	ELECTRICAL MACHINES - I	0.54	2.4	2.94	2.62	2.1	2.88	Attained
21	C205	EC8353	ELECTRON DEVICES AND CIRCUITS	0.54	1.6	2.14	2.63	2.22	2.23	Attained
22	C206	ME8792	POWER PLANT ENGINEERING	0.57	2.4	2.97	2.61	2.1	2.89	Attained
23	C207	EC8311	ELECTRONICS LABORATORY	0.40	2.4	2.80	2.59	2.64	2.76	Attained
24	C208	EE8311	ELECTRICAL MACHINES LABORATORY - I	0.40	2.4	2.80	2.59	2.64	2.76	Attained
Semester IV										
25	C209	MA8491	NUMERICAL METHODS	0.37	2.4	2.77	2.62	2.64	2.74	Attained
26	C210	EE8401	ELECTRICAL MACHINES - II	0.44	2.4	2.84	2.63	2.4	2.8	Attained

27	C211	EE8402	TRANSMISSION AND DISTRIBUTION	0.31	2.4	2.71	2.63	2.64	2.7	Attained
28	C212	EE8403	MEASUREMENTS AND INSTRUMENTATION	0.36	2.4	2.76	2.65	2.67	2.74	Attained
29	C213	EE8451	LINEAR INTEGRATED CIRCUITS AND APPLICATIONS	0.41	2.4	2.81	2.64	2.4	2.78	Attained
30	C214	IC8451	CONTROL SYSTEMS	0.34	2.4	2.74	2.63	2.64	2.72	Attained
31	C215	EE8411	ELECTRICAL MACHINES LABORATORY - II	0.20	2.4	2.60	2.66	2.55	2.61	Attained
32	C216	EE8461	LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	0.40	2.4	2.80	2.6	2.64	2.76	Attained
33	C217	EE8412	TECHNICAL SEMINAR	0.40	2.4	2.80	2.65	2.64	2.77	Attained
Semester V										
34	C301	EE8501	POWER SYSTEM ANALYSIS	0.29	2.4	2.69	2.56	2.64	2.66	Attained
35	C302	EE8551	MICROPROCESSORS AND MICROCONTROLLERS	0.40	2.4	2.80	2.52	2.49	2.74	Attained

36	C303	EE8552	POWER ELECTRONICS	0.30	2.4	2.70	2.59	2.64	2.68	Attained
37	C304	EE8591	DIGITAL SIGNAL PROCESSING	0.24	2.4	2.64	2.56	2.61	2.62	Attained
38	C305	CS8392	OBJECT ORIENTED PROGRAMMING	0.32	2.4	2.72	2.54	2.67	2.68	Attained
39	C306	OAT551	AUTOMOTIVE SYSTEMS	0.47	2.4	2.87	2.56	2.4	2.81	Attained
40	C307	EE8511	CONTROL AND INSTRUMENTATION LABORATORY	0.6	2.4	3	2.6	2.4	2.92	Attained
41	C308	HS8581	PROFESSIONAL COMMUNICATION	0.6	2.4	3	2.56	2.4	2.91	Attained
42	C309	CS8383	OBJECT ORIENTED PROGRAMMING LABORATORY	0.6	2.4	3	2.55	2.7	2.91	Attained
Semester VI										
43	C310	EE8601	SOLID STATE DRIVES	0.48	0.8	1.28	2.61	1.86	1.55	Not Attained
44	C311	EE8602	PROTECTION AND SWITCHGEAR	0.59	2.4	2.99	2.59	1.8	2.91	Attained
45	C312	EE8691	EMBEDDED SYSTEMS	0.53	1.6	2.13	2.61	2.16	2.22	Attained

46	C313	EE8004	MODERN POWER CONVERTERS	0.56	0.8	1.36	2.59	1.83	1.6	Not Attained
47	C314	EE8006	POWER QUALITY	0.38	1.6	1.98	2.58	2.04	2.1	Attained
48	C315	EE8661	POWER ELECTRONICS AND DRIVES LABORATORY	0.6	2.4	3	2.61	2.49	2.92	Attained
49	C316	EE8681	MICROPROCESSORS AND MICROCONTROLLER LABORATORY	0.6	2.4	3	2.59	2.49	2.92	Attained
50	C317	EE8611	MINI PROJECT	0.40	2.4	2.80	2.59	2.7	2.76	Attained
Semester VII										
51	C401	EE8701	HIGH VOLTAGE ENGINEERING	0.46	2.4	2.86	2.59	2.16	2.81	Attained
52	C402	EE8702	POWER SYSTEM OPERATION AND CONTROL	0.55	2.4	2.95	2.58	2.1	2.87	Attained
53	C403	EE8703	RENEWABLE ENERGY SYSTEMS	0.38	2.4	2.78	2.67	2.1	2.76	Attained
54	C404	0ML751	TESTING OF MATERIALS	0.56	1.6	2.16	2.61	2.1	2.25	Attained

55	C405	GE8071	DISASTER MANAGEMENT	0.39	1.6	1.99	2.63	2.1	2.12	Attained
56	C406	GE8077	TOTAL QUALITY MANAGEMENT	0.49	1.6	2.09	2.63	2.1	2.2	Attained
57	C407	SB8008	NAAN MUDHALVAN	0.40	2.4	2.80	2.63	2.64	2.77	Attained
58	C408	EE8711	POWER SYSTEM SIMULATION LABORATORY	0.40	2.4	2.80	2.63	2.7	2.77	Attained
59	C409	EE8712	RENEWABLE ENERGY SYSTEMS LABORATORY	0.40	2.4	2.80	2.67	2.7	2.77	Attained
Semester VIII										
60	C410	MG8591	PRINCIPLES OF MANAGEMENT	0.53	1.60	2.13	2.62	2.22	2.23	Attained
61	C411	EE8018	MICROCONTROLLER BASED SYSTEM DESIGN	0.53	2.4	2.93	2.62	2.1	2.87	Attained
62	C412	EE8811	PROJECT WORK	0.6	2.4	3	2.66	2.7	2.93	Attained