CRITERIA- 2

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution 2023-24 Institute Academic Calendar,

1. Process of Direct Assessment
2. Process of Indirect Assessment
3. Sample Copy

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Algorithm for CO-PO Attainment process

1. With the help of mid answer scripts attainment level of each CO is calculated and converted into the 3 point scale.

2. Using Quiz and assignment marks attainment level of each CO is calculated and converted into the 3 point scale.

3. Average of Mid Exam, Quiz and Assignment Attainment level is considered as internal exam attainment.

4. Using following rubrics Semester end exam attainment calculated

Table 2 Rubrics for Semester end exams

End exam Results	Grade allocation
≥80%	3
60-79%	2
50-59%	1

5. Attainment of COs calculated using following formula

70% of semester end exam+30% internal exam

6. Attainment of CO-PO calculated by using following formula

$$\frac{(\text{Attainment Level of Individual CO} \times \text{mapping level of CO-PO})}{3}$$

7. Overall Direct Attainment is equal to Average of each PO attainment level of all COs

(Indirect assessment)

1. Assessment Tools

Alumni feedback

Faculty feedback

2. Feedback percentage is calculated using formula

(Number of excellent responses+ Number of good responses+ Number of Average responses)÷ Total Responses

3 . Rubrics for feedback percentage

Feedback percentage	Grade allocation
≥80%	3
60-79.9%	2
50-59.9%	1

3. 10% of weightage given to each feedback

4. Indirect Attainment=

(Alumni feedback Grade× 0.1+Faculty feedback Grade× 0.1)

Overall attainment is calculated using following formula

(80% of Direct attainment)+(20% of Indirect attainment)

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Action Plan AY 2023-24

Subject: Electronic Devices and Circuits Faculty Name:Dr.P.Poorna Priya

Based on the review report of previous course instructor The following points focussed on the action plan to implement the lecture plan effectively to enhance the attainment level.

1. Mapped the course outcome with possible outcomes.
2. Incorporate project based study in lecture plan.
3. Adopted latest technologies in teaching learning process.
4. Implementation of Lecture plan without deviations.
5. Implement Advanced learning strategy by experiential & Participatory learning and activity based education.

Course Instructor HOD

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DADI INSTITUTE OF ENGINEERING & TECHNOLOGY								
COURSE MARKS ANALYSIS SHEET								
Academic Year :	2023-24		**ubject Code & Title:**		ELECTRONIC DEVICES AND CIRCUITS			
Semester:	II		**Course Instructor:**		Dr.P.Poorna Priya			
	Branch	ECE		**R-20**				
C021.1	Understand the formation of p-n junction and how it can be used as a p-n junctio							
C021.2	2.Know the construction, working principle of rectifiers with and							
C021.3	3.Understand the construction, principle of operation of transistors, BJT and FET with their V-I charact							
C021.4	Know the need of transistor biasing, various biasing techniques for BJT and FET and stabilization conc							
C021.5	Perform the analysis of small signal low frequency transistor amplifier circuits using BJT and FET in di							

Course Ou	Test	Quiz & Ass	Average	End Exam	Attainmen
C021.1	2.455	**1.74**	**2.10**	**2**	2.02
C021.2	2.455	**1.74**	**2.10**	**2**	2.02
C021.3	2.455	**1.74**	**2.10**	**2**	2.02
C021.4	2.455	**2.00**	**2.23**	**2**	2.05
C021.5	2.455	**2.00**	**2.23**	**2**	2.05

ATTAINMENT = END EXAM 80 %+INTERNAL 20 %

CO-PO MAPPING

CO	PO 1	PO2	PO 3	PO 4	PO5	PO 6	PO 7	PO 8	PO 9
C211.1	**3**	**3**	**3**						
C211.2	**3**	**3**	**3**			**2**			
C211.3	**3**	**3**	**3**						
C211.4	**3**	**3**	**3**				**2**		
C211.5	**3**	**3**	**3**	**2**					

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CO-PO ATTAINMENT

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
C211.1	2.02	2.02	2.02						
C211.2	2.02	2.02	2.02			1.76			
C211.3	2.02	2.02	2.02						
C211.4	2.05	2.05	2.05				1.83		
C211.5	2.05	2.05	2.05	1.83					
Avg	2.03	2.03	2.03	1.83		1.76	1.83		

Direct Attainment =	1.92
irect attainment= 1.92	1.53
h direct attainment= 3*	0.6
rall attainment =1.53+	2.13

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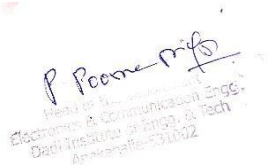
Action Taken Report AY 2023-24

Subject: Electronic Devices and Circuits Faculty Name: Dr.P.Poorna Priya

The Attainment of the Subject is 2.13 /3. The following points are important to impose in next Lecture plan to enrich the teaching learning process.

1. Mapping of course outcome with maximum possible outcomes needs to improve.
2. Incorporate project based study in lecture plan
3. Adopt latest technologies in teaching learning process.
4. Avoid deviations in implementation of Lecture plan.
5. Implement Advanced learning strategy by experiential & Participatory learning and activity based education.



HOD

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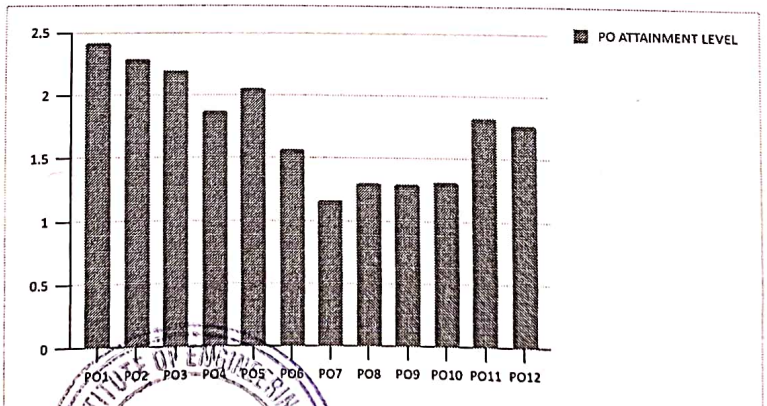
CO-PO ATTAINMENT ACADEMIC YEAR 2023-24

SNO	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	Database Management systems(CSD)	2.81	2.81	2.62	-	2.79	-	-	-	-	-	-	-
2	Computer organization	1.26	1.39	1.64	-	-	-	-	-	-	-	-	1.05
3	Compiler Design	1.24	1.24	1.7	1.56	1.29	-	-	-	-	-	-	1.24
4	Big Data and Analytics	2.95	2.75	1.77	1.58	1.98	0.99	0.99	1.18	1.77	0.98	-	1.63
5	Computer Networks	2.57	2.37	2.57	_	1.98	-	0.99	-	0.99	-	-	2.22
6	Design Analysis of Algorithms	2.47	2.31	2.46	_	2	-	0.91	-	0.91	-	-	2.11
7	Social Networking Analysis	2.81	2.58	1.55	1.83	1.83	0.91	0.91	0.91	0.91	1.83	0.91	1.6
8	Mathematical Foundations of Computer S	2.59	2.39	1.33	1.75	-	-	-	-	-	-	-	1.5
9	Database Management systems(CSM)	2.76	2.76	2.56	-	2.68	-	-	-	-	-	-	-
10	Mathematical Foundations of Computer S	2.58	2.38	1.32	1.73	-	-	-	-	-	-	-	1.49
11	Computer organization	1.39	1.4	1.63	-	-	-	-	-	-	-	-	1.63
12	Compiler Design	1.36	1.49	1.87	1.73	1.41	-	-	-	-	-	-	1.35
13	Computer Networks	2.82	2.82	2.62	-	2.74	-	-	-	-	-	-	-
14	Design Analysis of Algorithms	2.52	2.53	2.52	-	1.98	-	0.95	-	0.95	-	-	2.17
15	Natural Language Processing	2.96	2.76	1.77	1.58	1.98	0.99	0.99	1.18	1.77	0.98	-	1.49
16	Electronic Devices and Circuits	1.93	1.93	1.93	1.83	_	1.76	1.83	_	_	_	_	_
17	Signals and Systems	1.22	1.31	1.23	_	1.02	_	_	_	_	_	_	_
18	Electronic circuit Analysis	1.99	1.99	1.99	_	1.99	_	_	_	_	_	_	_
19	Analog Communications	1.92	1.77	1.93	_	1.6	_	_	_	_	_	_	_
20	Digital IC Design	2.68	2.3	2.44	_	2.39	_	_	_	_	_	_	_
21	Analog ICs and Applications	2.77	2.34	2.77	_	2.31	_	_	_	_	_	_	_
22	Digital Communications	1.99	1.83	1.94	_	1.65	_	_	_	_	_	_	_
23	Mobile Cellular communications	2.73	2.36	2.81	_	2.35	2.56	_	_	_	_	_	_
24	Operating Systems	2.74	2.36	2.52	_	2.45	_	_	_	_	_	_	_
25	ElectroMagnetic waves and Transmission	1.98	1.98	1.98	1.83	_	1.76	1.83	_	_	_	_	_
26	Microprocessors and Micro controllers	2.01	1.83	2.04	_	1.65	_	_	_	_	_	_	_
27	Digital Signal Processing	2.1	2.1	2.1	1.83	_	1.76	1.83	_	_	_	_	_
28	Internet of Things	2.87	2.49	2.81	_	2.35	_	_	_	_	_	_	2.39
29	Image Processing	2.84	2.46	2.81	_	2.35	_	_	_	_	_	_	_
30	Remote sensing Geographical informatio	2.87	2.49	2.81	_	2.35	_	_	_	_	_	_	_
31	Satellite communications	2.73	2.36	2.81	_	2.35	2.56	_	_	_	_	_	_
32	Utilization of Electrical Energy	2.14	2.14	2	1.9	1.91	_	_	_	_	_	_	_
33	Power System Operation & Control	2.35	2.35	2.02	2.18	2.18	_	_	_	_	2.35	_	_
34	Power Electronics	2.26	2.45	2.45	2.49	2.64	_	_	_	_	_	_	_

35	Basic Signals and systems	2.95	2.95	2.36	2.55	2.56	–	–	–	–	–	–	–
36	Hybrid Electrical Vehicle	2.52	2.58	2.16	2.64	2.34	–	–	–	–	–	2.65	–
37	Flexible AC Transmission lines	2.64	2.38	2.7	–	2.2	–	–	–	–	–	–	–
38	Industrial Electronics	2.31	2.51	2.51	2.54	2.7	–	–	–	–	–	–	–
39	Artificial intelligence Tools and technique	1.99	1.99	1.99	1.99	1.99	–	–	–	–	–	–	1.99
40	Control Systems	2.67	2.48	2.67	1.82	1.91	—	—	—	—	2.31	—	2.4799
41	Power systemsII	2.72	2.53	2.72	1.82	1.94	—	—	—	—	2.35	—	2.4799
42	Electro Magnetic Fields	2.359	2.359	2.228	2.102	2.082	—	—	–	–	–	–	–
43	Electronic Devices and Circuits	2.74	1.83	2.74	0.91	0.91	0.91	0.91	2.74	2.18	0.91	0.91	–
44	Electrical Circuit Analysis	1.88	1.75	1.88	1.46	1.35	—	—	—	—	—	—	1.98392
45	Power system Analysis	1.94	1.94	1.94	1.94	1.94	–	–	–	–	–	–	1.94
46	Electrical Drives	2.26	2.45	2.45	2.49	2.64	–	–	–	–	–	–	–
47	Electrical Measurements Instrumentatior	2.52	2.51	2.15	2.33	2.33	–	–	–	–	–	2.51	
48	Microprocessors and Micro controllers	1.74	1.89	1.89	2.02	2.04	–	–	–	–	–	–	–
49	Power systems-I	2.8	2.8	2.62	2.26	2.41	–	–	–	–	–	–	–
50	Python Programming	2.81	2.37	2.79	–	2.34	–	–	–	–	–	–	
51	ManagerialEconomics and Financial Ana	2.86	2.86	2.67	-	2.89	-	-	-	-	-	-	-
52	Induction and Synchronous Machines	2.44	2.44	2.09	2.27	2.27						2.54	
53	Digital Electronics	2.74	1.82	2.74	0.91	0.91	2.18	0.91	0.91	0.91	0.91	0.91	2.74
54	JAVA Programming	2.67	2.67	1.9	1.67	0.95	–	–	–	–	0.95	–	1.71
55	Mathematical Foundations of Computer S	2.48	2.29	1.27	1.68	–	–	–	–	–	–	–	1.44
56	OOPS through C++	2.5	2.3	0	1.69	–	–	–	–	–	–	–	1.45
57	Formal Languages and Automata Theory	2.67	2.67	1.9	1.67	0.95	–	–	–	–	0.95	-	1.71
58	Data Base Management System	2.76	2.76	1.97	1.72	0.99	–	–	–	–	0.99	-	1.77
59	Compiler Design	2.72	2.72	2.54		2.72	–	–	–	–	–	–	–
60	Crypto graphy&Network security	2.95	2.95	2.76	--	2.92	–	–	–	–	–	–	–
61	Social Networks and Semantic Web	2.95	2.95	2.76	--	2.92	–	–	–	–	–	–	–
62	Computer Networks	2.03	1.17	2.26	1.48	1.56	0.91	0.94	0.91	–	–	–	–
	AVERAGE	2.42	2.29	2.19	1.88	2.06	1.57	1.17	1.31	1.30	1.32	1.83	1.78



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