

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

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Accredited by NAAC Accredited with 'A' Grade

NBA (Under Tier – I: CSE, IT, ECE, EEE, ME, CE & ASE), ISO 21001:2018 Certified Institution

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ATTAINMENT OF COURSE OUTCOMES (R23)

Date:18-10-2024

Faculty Name	:	Mrs. K. Balavani/ Mr.K.V.Ashok/ Mr.M.Sambasiva Reddy	Designation	:	Assistant Professor Sr. Assistant Professor / Sr. Assistant Professor
Course Name	:	Network Analysis	Academic Year	:	2023-24
Course Code	:	23EC01	Semester	:	II
Program & Admitted Year	:	B. Tech&2023	Section	:	A, B, C

COURSE OUTCOMES:

After the completion of the course, the student should be able to,

23EC01.1	:	Apply fundamental laws and theorems to compute electrical variables of DC circuits (Apply)
23EC01.2	:	Analyze electrical networks during transients in the Laplace domain (Apply)
23EC01.3	:	Apply fundamental laws and theorems to compute electrical variables of AC electrical circuits (Apply)
23EC01.4	:	Analyse resonance circuits (Analyse)
23EC01.5	:	Evaluate variables associated with magnetic circuits (Apply)
23EC01.6	:	Compute the parameters of a two-port network (Apply)

1. Attainment of Course Outcomes through Descriptive Mid Examinations, Assignments and Online Quiz Examinations:

Course Name with code: NA,23EC01										
CIE Attainment					Question-CO Articulation Matrix					
		% Students Attempted	%Attainment	Attainment Level (3 or 2 or 1)	CO1	CO2	CO3	CO4	CO5	CO6
MID-I	Q1a	90	90	3	1					
	Q1b	85	62	3	1					
	Q1c	30	51	3	1					
	Q1d	28	53	3	1					
	Q2a	43	65	1		1				
	Q2b	42	45	3		1				
	Q2c	18	63	2		1				
	Q2d	24	35	2		1				
	Q3a	55	61	2	1					
	Q3b	43	51	3			1			
	Q3c	54	92	2				1		
	Q3d	44	66	2			1			
MID-II	Q1a	59	78	3			1			
	Q1b	57	80	3			1			
	Q1c	48	70	3			1			
	Q1d	35	46	3			1			
	Q2a	32	69	1				1		
	Q2b	57	88	3					1	
	Q2c	57	91	2				1		

	Q2d	54	71	2					1	
	Q3a	45	81	2						1
	Q3b	40	82	3						1
	Q3c	76	87	2						1
	Q3d	76	85	2						1
MID Attainment					2.60	2.25	2.67	3.00	3.00	3.00
Assignment	A1	100	87	3	1	1	1			
	A2	100	98	3			1	1	1	1
Assignment Attainment					3.00	3.00	3.00	3.00	3.00	3.00
Quiz	Q1	99	88	2	1	1	1			
	Q2	100	87	2			1	1	1	1
Quiz Attainment					3.00	3.00	3.00	3.00	3.00	3.00

2. Attainment of Course Outcomes through Semester End Examinations (SEE):

Course Name with code: NA,23EC01									
SEE Attainment				Question-CO Articulation Matrix					
	% Students Attempted	%Attainment	Attainment Level (3 or 2 or 1)	CO1	CO2	CO3	CO4	CO5	CO6
Q1	26	25.52	1	1	1	1	1	1	1
Q2a	94	91.31	3	1					
Q2b	91	81.57	3	1					
Q3	21	39.03	3	1					
Q4a	89	59.43	3		1				
Q4b	86	58.34	3		1				
Q5a	5	10	3		1				
Q5b	7	42.86	3		1				
Q6	91	60.34	3			1			
Q7a	26	44	3			1			
Q7b	28	45.46	3			1			
Q8a	81	68.36	3				1		
Q8b	87	81.29	3					1	
Q9a	16	40.63	3				1		
Q9b	26	43.14	3					1	
Q10a	55	65.43	3						1
Q10b	37	27.78	3						1
Q11	78	54.25	1						1
SEE Attainment			3-Point Sclae	2.00	1.60	2.00	2.00	2.00	1.75
			% Percentage	59.36	39.23	43.83	44.84	49.99	43.25

Note: The final attainments of COs are determined according to the given weightage.

Direct COs Attainment = 90% of ((60% of SEE + 25% of Descriptive + 10% of Quiz + 5% of Assignment)) + 10% of Course End Survey

Assessment tool / COs	CO1	CO2	CO3	CO4	CO5	CO6
MID Exam Attainment (%)	2.60	2.25	2.67	3.00	3.00	3.00
Assignment Attainment (%)	3.00	3.00	3.00	3.00	3.00	3.00
Quiz Attainment (%)	3.00	3.00	3.00	3.00	3.00	3.00
SEE Attainment (%)	2.00	1.60	2.00	2.00	2.00	1.75
Course End Survey(%)	2.68	2.62	2.71	2.67	2.64	2.66
Final COs Attainment (%)	2.34	2.04	2.36	2.43	2.42	2.29
Target (%)	2.25	2.25	2.25	2.10	2.25	2.25

Note: Contribution towards POs and PSOs:

CO's / PO's	Course Name with code : NA,23EC01														
	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2	PSO3
CO1	3	3	-	-	-	-	-	-	-	-	-	-	-	-	2
CO2	3	3	2	-	-	-	-	-	-	-	-	-	-	-	2
CO3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	2
CO4	3	2	1	-	-	-	-	-	-	-	-	-	-	-	3
CO5	3	2	1	-	-	-	-	-	-	-	-	-	-	-	1
CO6	3	3	1	1	-	-	-	-	-	-	-	-	-	-	3
Final Attainment Value (%)	2.37	2.34	2.36	2.29	-	-	-	-	-	-	-	-	-	-	2.31

Comments:

1. From the attainment it was observed that CO2 have been lower attainment and CO5 & CO6 Have slight lower attainment.
2. The CO2 is related to transient analysis; some students are felt difficult to answer these questions in mid exams as well , teacher have to practice more number of problems.
3. The CO5 & CO6 are related to magnetic circuits and Two-port networks, the students have to practice the concepts and problems more analytically.

Course Instructor

Course Coordinator

Module Coordinator

HOD