



**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)**

L.B. Reddy Nagar , Mylavaram-521 230. Andhra Pradesh, INDIA

Affiliated to JNTUK, Kakinada & Approved by AICTE New Delhi

New Delhi & Certified by ISO 9001:2015, <http://www.lbrce.ac.in>

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

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**Cos Attainment**

**20EE09-CONTROL SYSTEMS**

**A.Y: 2022-23**

After completion of the course, students will able to:

**CO1:** Develop mathematical models of systems in terms of transfer function and state-space. **(Apply-L3)**

**CO2:** Analyze control systems in time domain **(Apply-L3)**

**CO3:** Analyze control systems in frequency domain **(Apply-L3)**

**CO4:** Understand the concepts of controllers and compensators. **(Understand-L2)**

Assessment of Course Outcomes (CO's) , Programme outcomes(PO's) and Programme Specific Outcomes (PSOs):

**CO Attainment: INTERNAL EVALUATION:**

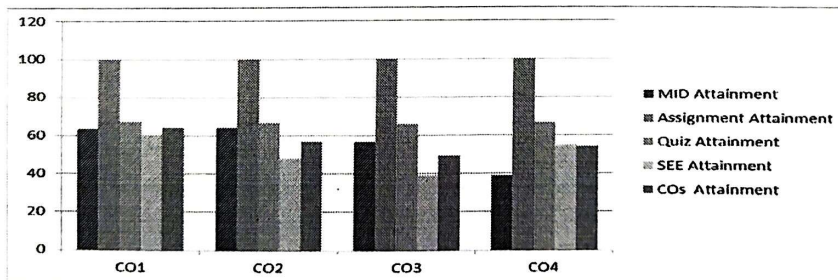
CIE Attainment				Question-CO Articulation Matrix			
		% Students Attempted	%Attainment	CO1	CO2	CO3	CO4
MID-I	Q1a	88	87.16	1			
	Q1b	64	73.42	1			
	Q1c	23	58.63	1			
	Q1d	16	55	1			
	Q2a	29	72.23		1		
	Q2b	28	62.86		1		
	Q2c	42	73.08		1		
	Q2d	34	33.34				1
	Q3a	20	64		1		
	Q3b	35	41.87	1			
	Q3c	69	82.36		1		
	Q3d	43	60.38		1		
MID-II	Q1a	79	69.48		1		
	Q1b	11	53.85			1	
	Q1c	12	21.43		1		
	Q1d						
	Q2a	24	48.28			1	
	Q2b	46	58.19			1	
	Q2c	33	65			1	
	Q2d	39	44.69				1
	Q3a	18	81.82		1		
	Q3b	8	50		1		
	Q3c	73	56.33		1		
	Q3d	48	70.69		1		
<b>MID Attainment</b>				<b>63.22</b>	<b>63.73</b>	<b>56.33</b>	<b>39.02</b>
<b>Assignment</b>	A1		100	100	100		100
	A2		100		100	100	100
<b>Assignment Attainment</b>				<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
<b>Quiz</b>	Q1		67.22	67.22	67.22		67.22
	Q2		65.84		65.84	65.84	65.84
<b>Quiz Attainment</b>				<b>67.3</b>	<b>66.6</b>	<b>65.9</b>	<b>66.6</b>

SEE Attainment			CO1	CO2	CO3	CO4
	% Students Attempted	%Attainment				
Q1a	31	40.55	1			
Q1b	35	52.39	1			
Q1c	70	70.24	1			
Q1d	76	79.13	1			
Q2a	60	84.73		1		
Q2b						
Q2c	50	73.34		1		
Q2d	42	48		1		
Q3a	38	17.78		1		
Q3b						
Q3c	44	22.65		1		
Q3d	49	10.17		1		
Q4a	18	45.46			1	
Q4b	17	20			1	
Q4c	72	51.17			1	
Q4d	78	54.26				1
Q5a	34	2.44		1		
Q5b	31	72.98		1		
Q5c	67	66.25		1		
Q5d	66	82.28		1		
<b>SEE Attainment</b>			<b>60.58</b>	<b>48.07</b>	<b>38.88</b>	<b>54.26</b>

**CONSOLIDATED ATTAINMENT:**

COs Attainment				
Assessment Tool	CO1	CO2	CO3	CO4
MID Attainment	63.22	63.73	56.33	39.02
Assignment Attainment	100	100	100	100
Quiz Attainment	67.3	66.6	65.9	66.6
SEE Attainment	60.58	48.07	38.88	54.26
<b>COs Attainment</b>	<b>63.9</b>	<b>56.5</b>	<b>49.1</b>	<b>54</b>

Total Attainment=25%Internal Exam+5% Assignment+10% Quiz+60%End Exams



Title	Course Instructor	Course Coordinator	Module Coordinator	Head of the Department
Name of the Faculty	Mr Ch.Rajesh Mr A.V.RAVIKUMAR	Mr Ch.Rajesh	Dr. P.SOBHARANI	Dr.J.S.V.PRASAD
Signature				