

**2.6.2 Attainment of POs and COs are evaluated**

<b>S.No</b>	<b>NAME OF THE DOCUMENT</b>	<b>PAGE NO</b>
1	<b>CO Attainment</b>	<b>3-14</b>
2	<b>CO-PO Attainment</b>	<b>16-22</b>



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## **2.6.2 CO Attainment**

**Department of Electronics and Communication Engineering**

**Course Outcome Attainment**


**Course Name: Electronic Devices and Circuits (C211) R16 Regulations**

At the end of the course student will be able to	
C211.1	Apply the basic concepts of semiconductor physics
C211.2	Understand the formation of p-n junction and how it can be used as a pn junction as Diode in different modes of operation
C211.3	Know the construction, working principle of rectifiers with and without filters with relevant expressions and necessary comparisons
C211.4	Understand the construction, principle of operation of transistors, BJT and FET with their V-I characteristics in different configurations
C211.5	Know the need of transistor biasing, various biasing techniques for BJT and FET and stabilization concepts with necessary expressions
C211.6	Perform the analysis of small signal low frequency transistor amplifier circuits using BJT and FET in different configurations

**Program Outcomes**

**At the end of the Programme the students will have knowledge in :**


<b>PO1</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>PO2</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>PO3</b>	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>PO4</b>	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>PO5</b>	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
<b>PO6</b>	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>PO7</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>PO8</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

  
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<b>P09</b>	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>P010</b>	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>P011</b>	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>P012</b>	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

  
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## Direct Internal Assessment - MID


**Course Name: Electronic Devices and Circuits (C211) R16 Regulations**


CO-Attainment could be Calculated by

1. Internal Direct assessment
2. Internal Direct assessment
3. Direct Assessment
4. Indirect assessment

MID Marks  
QUIZ+Assinment Marks  
Final semester end exams  
through survey

S.No	MID Exam	MID 1 (Max. Marks 15)			MID 2 (Max. Marks 15)		
	Question Number	1	2	3	1	2	3
	CO Number	CO1	CO2	CO3	CO4	CO5	CO6
	Max.Marks	5	5	5	5	5	5
Roll no							
1	18JU1A0461	1	1	0	5	0	2
2	18JU1A0462	5	0	5	5	4	5
3	18JU1A0463	5	0	3	5	4	4
4	18JU1A0464	5	5	2	5	4	4
5	18JU1A0465	0	1	0	4	0	0
6	18JU1A0466	2	0	2	4	0	3
7	18JU1A0467	5	0	4	5	3	4
8	18JU1A0468	3	0	0	5	1	3
9	18JU1A0469	5	4	1	5	4	4
10	18JU1A0470	0	0	0	5	3	4
11	18JU1A0471	3	1	0	5	1	0
12	18JU1A0472	5	5	2	5	4	5
13	18JU1A0473	5	0	5	0	0	0
14	18JU1A0474	5	4	2	5	4	3
15	18JU1A0475	5	4	4	4	5	4
16	18JU1A0476	5	4	4	4	5	3
17	18JU1A0477	3	3	0	0	2	1
18	18JU1A0478	5	5	3	5	4	5
19	18JU1A0479	5	5	1	5	3	3
20	18JU1A0480	5	5	3	4	5	5
21	18JU1A0481	5	5	3	2	1	5
22	18JU1A0482	5	5	5	5	3	3
23	18JU1A0484	5	5	5	5	5	5
24	18JU1A0485	5	5	5	5	5	5
25	18JU1A0486	5	0	5	5	5	5
26	18JU1A0487	5	5	5	5	5	5
27	18JU1A0488	5	5	5	5	5	5
28	18JU1A0489	5	4	1	5	3	3
29	18JU1A0490	5	5	2	5	4	4
30	18JU1A0491	5	5	1	5	5	5
31	18JU1A0492	5	5	3	4	0	0
32	18JU1A0493	5	5	4	5	5	5
33	18JU1A0494	3	4	0	5	5	5
34	18JU1A0495	5	0	5	3	1	1
35	18JU1A0496	5	0	5	5	5	5
36	18JU1A0497	5	5	0	5	4	3
37	18JU1A0498	5	0	5	5	3	3
38	18JU1A0499	5	0	3	4	1	3
39	18JU1A04A0	5	2	0	5	0	5
40	18JU1A04A1	5	0	5	5	5	5
41	18JU1A04A2	5	5	1	5	3	3
42	18JU1A04A3	5	0	5	5	3	3
43	18JU1A04A4	5	5	3	5	4	5
44	18JU1A04A5	0	5	4	5	1	1
45	18JU1A04A6	5	4	0	1	1	5

  
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S.No	MID Exam	MID 1 (Max. Marks 15)			MID 2 (Max. Marks 15)		
	Question Number	1	2	3	1	2	3
	CO Number	CO1	CO2	CO3	CO4	CO5	CO6
	Max.Marks	5	5	5	5	5	5
Roll no							
46	18JU1A04A7	5	0	5	3	5	3
47	18JU1A04A8	3	3	1	0	0	0
48	18JU1A04A9	4	5	2	5	4	5
49	18JU1A04B0	5	0	4	5	0	4
50	18JU1A04B1	0	5	5	5	5	5
51	18JU1A04B2	5	0	5	3	3	2
52	18JU1A04B3	1	0	1	4	0	0
53	18JU1A04B4	1	1	0	0	0	0
54	18JU1A04B5	0	3	3	5	3	1
55	18JU1A04B6	5	0	5	5	3	3
56	19JU5A0401	5	5	2	5	5	5
57	19JU5A0402	5	0	2	3	0	5
58	19JU5A0403	5	2	0	4	0	3
59	19JU5A0404	5	0	2	4	3	0
60	19JU5A0405	2	2	0	3	0	5
61	19JU5A0406	4	0	0	5	0	1

CO Number	CO1	CO2	CO3	CO4	CO5	CO6
Attempts	61	61	61	61	61	61
Score Above 50%	51	32	31	55	39	46
Attainments %	83.61	52.46	50.82	90.16	63.93	75.41
Attainment on 3 point scale	3	1	1	3	2	3


#### CO-attainment Targets at course level (Direct Internal As:

Threshold Value	
Attainments % >= 70	3
Attainments % >= 60	2
Attainments % >= 50	1

Avg.CO Attainment	CO1	CO2	CO3	CO4	CO5	CO6
Attainment on 3 point scale	3	1	1	3	2	3

COURSE OUT COMES	MID 1 & MID 2
C211.1	3.00
C211.2	1.00
C211.3	1.00
C211.4	3.00
C211.5	2.00
C211.6	3.00


  
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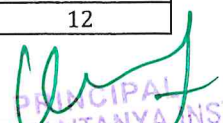
  
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# Direct Internal Assessment (QUIZ & ASSIGNMENT)

Course Name: Electronic Devices and Circuits (C211) R16 Regulations

S.No	Tool	QUIZ1	ASSIGNMENT1	QUIZ & ASSIGNMENT	QUIZ2	ASSIGNMENT2	QUIZ & ASSIGNMENT
	CO			1,2,3			4,5,6
	Max.Marks	20	5	15	20	5	15
	Roll no						
1	18JU1A0461	12	2	8	9	5	10
2	18JU1A0462	15	4	12	6	5	8
3	18JU1A0463	19	4	14	9	5	10
4	18JU1A0464	17	2	11	10	5	10
5	18JU1A0465	10	2	7	5	5	8
6	18JU1A0466	7	4	8	6	5	8
7	18JU1A0467	13	4	11	9	5	10
8	18JU1A0468	5	3	6	2	5	6
9	18JU1A0469	18	4	13	11	5	11
10	18JU1A0470	0	0	0	12	5	11
11	18JU1A0471	10	4	9	9	5	10
12	18JU1A0472	16	3	11	7	5	9
13	18JU1A0473	14	4	11	0	5	5
14	18JU1A0474	18	4	13	10	5	10
15	18JU1A0475	16	5	13	6	5	8
16	18JU1A0476	14	4	11	9	5	10
17	18JU1A0477	5	4	7	6	5	8
18	18JU1A0478	15	4	12	10	5	10
19	18JU1A0479	18	4	13	8	5	9
20	18JU1A0480	15	4	12	12	5	11
21	18JU1A0481	15	4	12	8	5	9
22	18JU1A0482	16	4	12	8	5	9
23	18JU1A0484	12	3	9	11	5	11
24	18JU1A0485	19	4	14	18	5	14
25	18JU1A0486	12	4	10	12	5	11
26	18JU1A0487	15	4	12	12	5	11
27	18JU1A0488	18	4	13	15	5	13
28	18JU1A0489	16	4	12	7	5	9
29	18JU1A0490	14	4	11	7	5	9
30	18JU1A0491	10	4	9	12	5	11
31	18JU1A0492	6	4	7	2	5	6
32	18JU1A0493	15	4	12	13	5	12
33	18JU1A0494	18	4	13	15	5	13
34	18JU1A0495	8	3	7	8	5	9
35	18JU1A0496	16	4	12	11	5	11
36	18JU1A0497	13	4	11	9	5	10
37	18JU1A0498	15	3	11	3	5	7
38	18JU1A0499	12	4	10	8	5	9
39	18JU1A04A0	10	5	10	5	5	8
40	18JU1A04A1	17	4	13	8	5	9
41	18JU1A04A2	16	4	12	13	5	12
42	18JU1A04A3	17	4	13	13	5	12
43	18JU1A04A4	11	4	10	8	5	9
44	18JU1A04A5	14	4	11	6	5	8
45	18JU1A04A6	19	3	13	5	5	8
46	18JU1A04A7	16	4	12	11	5	11
47	18JU1A04A8	11	4	10	0	5	5
48	18JU1A04A9	13	4	11	10	5	10
49	18JU1A04B0	20	4	14	9	5	10
50	18JU1A04B1	15	4	12	9	5	10
51	18JU1A04B2	13	3	10	12	5	11
52	18JU1A04B3	2	2	3	7	0	4
53	18JU1A04B4	6	3	6	3	0	2
54	18JU1A04B5	9	4	9	3	5	7
55	18JU1A04B6	16	4	12	14	5	12

  
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56	19JU5A0401	13	4	11	9	5	10
57	19JU5A0402	7	4	8	8	5	9
58	19JU5A0403	7	3	7	7	5	9
59	19JU5A0404	11	4	10	8	5	9
60	19JU5A0405	7	4	8	6	5	8
61	19JU5A0406	8	4	8	4	5	7


Attempts	61	61	61	61	61	61
Score Above 50%	48	56	52	21	59	52
Attainments %	78.69	91.80	85.25	34.43	96.72	85.25
Attainment on 3 point scale			3			3

**CO-attainment Targets at course level (Direct Internal Assessment - QUIZ + ASSIGNMENT)**

Threshold Value	Attainment level
Attainments % >= 70	3
Attainments % >= 60	2
Attainments % >= 50	1

<b>AVG CO1,C02,C03</b>	<b>3</b>
<b>AVG CO4,C05,C06</b>	<b>3</b>

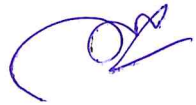
COURSE OUT COMES	QUIZ & ASSIGNMENT
C211.1	3.00
C211.2	3.00
C211.3	3.00
C211.4	3.00
C211.5	3.00
C211.6	3.00

  
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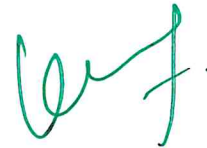
  
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COURSE OUT COMES	TEST	QUIZ & ASSIGNMENT	AVG
C211.1	3.00	3.00	3.00
C211.2	1.00	3.00	2.00
C211.3	1.00	3.00	2.00
C211.4	3.00	3.00	3.00
C211.5	2.00	3.00	2.50
C211.6	3.00	3.00	3.00



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# Final Assessment (Semester End Examinations)


Course Name: Electronic Devices and Circuits (C211) R16 Regulations

S.NO	ROLL NO	EXTERNAL GRADE
1	18JU1A0461	D
2	18JU1A0462	B
3	18JU1A0463	D
4	18JU1A0464	D
5	18JU1A0465	F
6	18JU1A0466	F
7	18JU1A0467	D
8	18JU1A0468	F
9	18JU1A0469	C
10	18JU1A0470	D
11	18JU1A0471	D
12	18JU1A0472	B
13	18JU1A0473	C
14	18JU1A0474	D
15	18JU1A0475	C
16	18JU1A0476	C
17	18JU1A0477	D
18	18JU1A0478	B
19	18JU1A0479	D
20	18JU1A0480	B
21	18JU1A0481	A
22	18JU1A0482	C
23	18JU1A0484	B
24	18JU1A0485	A
25	18JU1A0486	C
26	18JU1A0487	B
27	18JU1A0488	B
28	18JU1A0489	F
29	18JU1A0490	C
30	18JU1A0491	B
31	18JU1A0492	F
32	18JU1A0493	B
33	18JU1A0494	C
34	18JU1A0495	F
35	18JU1A0496	C
36	18JU1A0497	F
37	18JU1A0498	C
38	18JU1A0499	D
39	18JU1A04A0	F
40	18JU1A04A1	C
41	18JU1A04A2	C
42	18JU1A04A3	B
43	18JU1A04A4	B
44	18JU1A04A5	C
45	18JU1A04A6	C
46	18JU1A04A7	B
47	18JU1A04A8	D
48	18JU1A04A9	C

  
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49	18JU1A04B0	A
50	18JU1A04B1	D
51	18JU1A04B2	C
52	18JU1A04B3	F
53	18JU1A04B4	F
54	18JU1A04B5	D
55	18JU1A04B6	C
56	19JU5A0401	A
57	19JU5A0402	F
58	19JU5A0403	F
59	19JU5A0404	F
60	19JU5A0405	F
61	19JU5A0406	F

  
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## CO'S attained targets at course level

PREDEFINED THRESHOLD VALUE		
LEVEL 1	LESS THAN 50%	1
LEVEL 2	51-59%	2
LEVEL 3	60% AND MORE	3

ATTEMPTS	61
SCORES ABOVE F GRADE	46
ATTINMENT %	75.41

COURSE OUT COMES	END EXAM
C211.1	3
C211.2	3
C211.3	3
C211.4	3
C211.5	3
C211.6	3

  
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## CO - Attainment

co-attainment evaluation is the combination of Direct and In-Direct attainment I) Direct-80% II) Indirect-20%

I. Direct attainment process is the combination of

- 1) Internal exam marks a) Descriptive Exam Marks b) Quiz & Assignment marks
- 2) External Examination marks

**Total Direct CO-Attainment= 80% External Exam Marks + 20% Internal Exam Marks**

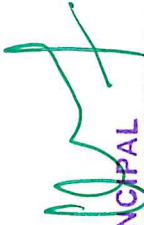
II. In-Direct attainment process is evaluated through Course Exit Survey

COURSE OUTCOMES	TEST	QUIZ & ASSIGNMENT	AVG	END EXAM	ATTAINMENT	Direct CO-80%	In-Direct CO%	In-Direct CO-20%	Total CO Attainment
C211.1	3	3.00	3.00	3	3.00	2.4	3	0.6	3
C211.2	1	3.00	2.00	3	2.80	2.24	3	0.6	2.84
C211.3	1	3.00	2.00	3	2.80	2.24	3	0.6	2.84
C211.4	3	3.00	3.00	3	3.00	2.4	3	0.6	3
C211.5	2	3.00	2.50	3	2.90	2.32	3	0.6	2.92
C211.6	3	3.00	3.00	3	3.00	2.4	3	0.6	3
								<b>AVG</b>	<b>2.93</b>

## CO-PO MAPPING

All course outcomes shall have linkage to programme outcomes is such as a way that strongest relation has the weight 3 and the weakest relation is 1. The relation is put into a table given below.

  
HEAD OF THE DEPARTMENT  
Dept. of Electronics & Communication Engg.  
KRISHNA CHAITANYA INSTITUTE  
OF TECHNOLOGY

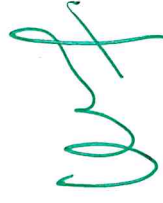
  
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C0	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
C211.1	3	3	2	2	-	-	-	-	-	-	-	2
C211.2	3	3	2	-	-	-	-	-	-	-	-	2
C211.3	3	3	2	2	-	-	-	-	-	-	-	2
C211.4	3	3	2	3	-	-	-	-	-	-	-	2
C211.5	3	3	3	-	-	-	-	-	-	-	-	2
C211.6	3	3	2	-	-	-	-	-	-	-	-	2
AVG C211	3	3	2.16	2.33	-	-	-	-	-	-	-	2

### PO ATTAINMENT

C0	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
C211 DA	2.93	2.93	2.11	2.28	-	-	-	-	-	-	-	1.95
C211 IDA	3	3	3	3	-	-	-	-	-	-	-	3
TOTAL POA	2.94	2.94	2.29	2.42	-	-	-	-	-	-	-	2.16

  
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## **2.6.2 CO-PO Attainment**



# KRISHNA CHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES


Devarajugattu (Post), Peddaraveedu (Mandal), Prakasam Dist. - 523 320.

(Approved by A.I.C.T.E., New Delhi, & Affiliated to JNTUK, Kakinada)

**NAAC ACCREDITED INSTITUTION**

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING 18-BATCH CO'S ATTAINMENT TABLE

S.NO.	COURSE CODE	COURSE NAME	ATTAINMENT VALUE			TARGET VALUE		STATUS	
			A-SEC	B-SEC		A-SEC	B-SEC		
1	C111	English - I	2.99	2.99	2.99			2.5	ATTAINED
2	C112	Mathematics - I	2.95	2.95	2.95			2.73	ATTAINED
3	C113	Mathematics -II	2.95	2.95	2.95			2.71	ATTAINED
4	C114	Applied Physics	2.93	2.93	2.93			1.95	ATTAINED
5	C115	Computer Programming	2.92	2.92	2.92			2.03	ATTAINED
6	C116	Engineering Drawing	3.00	3.00	3.00			1.76	ATTAINED
7	C117	English - Communication Skills Lab -1	3.00	3.00	3.00			2.75	ATTAINED
8	C118	Applied / Engineering Physics Laboratory	3.00	3.00	3.00			2.7	ATTAINED
9	C119	Applied / Engineering Physics -Virtual Labs - Assignments	3.00	3.00	3.00			2.70	ATTAINED
10	C1110	ES Engineering Workshop& IT Workshop	3.00	3.00	3.00			1.86	ATTAINED
11	C121	English - II	3.00	3.00	3.00			2.15	ATTAINED
12	C122	Mathematics -III	3.00	3.00	3.00			1.89	ATTAINED
13	C123	Applied Chemistry	3.00	3.00	3.00			2.67	ATTAINED
14	C124	Electrical and Mechanical Technology	2.99	2.99	2.99			2.13	ATTAINED
15	C125	Environmental Studies	3.00	3.00	3.00			2.48	ATTAINED
16	C126	Data Structures	3.00	3.00	3.00			2.05	ATTAINED
17	C127	Applied / Engineering Chemistry Laboratory	3.00	3.00	3.00			2.20	ATTAINED
18	C128	English - Communication Skills Lab -2	3.00	3.00	3.00			2.17	ATTAINED
19	C129	Computer Programming Lab	3.00	3.00	3.00			2.03	ATTAINED
20	C211	Electronic Devices and Circuits	2.92	2.93	2.93	2.50	2.50	2.50	ATTAINED
21	C212	Switching Theory and Logic Design	2.24	2.36	2.30	2.73	2.73	2.73	NOT ATTAINED
22	C213	Signals and Systems	2.89	2.92	2.91	2.71	2.71	2.71	ATTAINED
23	C214	Network Analysis	2.29	2.35	2.32	1.95	1.95	1.95	ATTAINED
24	C215	Random Variables and Stochastic Process	2.93	2.31	2.62	2.03	2.03	2.03	ATTAINED
25	C216	Managerial Economics & Financial Analysis	2.99	2.99	2.99	1.90	1.90	1.90	ATTAINED
26	C217	Electronic Devices and Circuits Lab	3.00	3.00	3.00	2.43	2.43	2.43	ATTAINED
27	C218	Networks & Electrical Technology Lab	3.00	3.00	3.00	1.83	1.83	1.83	ATTAINED
28	C221	Electronic Circuit Analysis	2.95	2.92	2.94	2.42	2.42	2.42	ATTAINED
29	C222	Control Systems	2.93	2.99	2.96	1.89	1.89	1.89	ATTAINED
30	C223	Electromagnetic Waves and Transmission Lines	2.79	2.84	2.82	2.66	2.66	2.66	ATTAINED
31	C224	Analog Communications	2.93	3.00	2.97	2.13	2.13	2.13	ATTAINED
32	C225	Pulse and Digital Circuits	2.88	2.92	2.90	2.50	2.50	2.50	ATTAINED
33	C226	Management Science	2.96	3.00	2.98	2.05	2.05	2.05	ATTAINED
34	C227	Electronic Circuit Analysis Lab	3.00	3.00	3.00	1.98	1.98	1.98	ATTAINED
35	C228	Analog Communications Lab	3.00	3.00	3.00	2.17	2.17	2.17	ATTAINED
36	C311	Computer Architecture and Organization	2.96	3.00	2.98	1.76	1.76	1.76	ATTAINED
37	C312	Linear I C Applications	2.95	2.95	2.95	2.75	2.75	2.75	ATTAINED
38	C313	Digital I C Applications	2.97	2.95	2.96	2.70	2.70	2.70	ATTAINED
39	C314	Digital Communications	2.97	3.00	2.99	2.70	2.70	2.70	ATTAINED

  
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40	C315	Antenna and Wave Propagation	2.24	2.96	2.60	1.86	1.86	1.86	ATTAINED
41	C316	Pulse and Digital Circuits Lab	3.00	3.00	3.00	2.15	2.15	2.15	ATTAINED
42	C317	Linear I C Applications Lab	3.00	3.00	3.00	2.06	2.06	2.06	ATTAINED
43	C318	Digital I C Applications Lab	3.00	3.00	3.00	2.25	2.25	2.25	ATTAINED
44	C321	Micro Processors & Micro Controllers	2.95	2.96	2.96	2.38	2.38	2.38	ATTAINED
45	C322	Micro Wave Engineering	2.93	2.97	2.95	2.16	2.16	2.16	ATTAINED
46	C323	VLSI Design	3.00	3.00	3.00	2.16	2.16	2.16	ATTAINED
47	C324	Digital Signal Processing	2.85	3.00	2.93	2.21	2.21	2.21	ATTAINED
48	C325	Bio-Medical Engineering	2.25	2.89	2.57	1.92	1.92	1.92	ATTAINED
49	C326	Micro Processors & Micro Controllers Lab	3.00	3.00	3.00	2.00	2.00	2.00	ATTAINED
50	C327	VLSI Lab	3.00	3.00	3.00	2.33	2.33	2.33	ATTAINED
51	C328	Digital Communications Lab	3.00	3.00	3.00	1.88	1.88	1.88	ATTAINED
52	C411	Radar Systems	2.96	3.00	2.98	2.10	2.10	2.10	ATTAINED
53	C412	Digital Image Processing	2.92	2.87	2.90	1.92	1.92	1.92	ATTAINED
54	C413	Computer Networks	2.96	3.00	2.98	1.85	1.85	1.85	ATTAINED
55	C414	Optical Communications	3.00	2.96	2.98	1.77	1.77	1.77	ATTAINED
56	C415	Electronic Switching Systems <b>(Elective-I)</b>	2.92	2.96	2.94	2.74	2.74	2.74	ATTAINED
57	C416	Embedded Systems <b>(Elective-II)</b>	2.91	2.85	2.88	2.42	2.42	2.42	ATTAINED
58	C417	Micro Wave Engineering & Optical Lab	3.00	3.00	3.00	2.17	2.17	2.17	ATTAINED
59	C418	Digital Signal Processing Lab	3.00	3.00	3.00	1.99	1.99	1.99	ATTAINED
60	C421	Cellular Mobile Communications	2.92	2.88	2.90	2.80	2.80	2.80	ATTAINED
61	C422	Electronic Measurements and Instrumentation	2.85	2.88	2.87	2.28	2.28	2.28	ATTAINED
62	C423	Satellite Communications	2.96	3.00	2.98	1.83	1.83	1.83	ATTAINED
63	C424	Wireless sensors & Networks <b>(Elective-III)</b>	2.96	2.96	2.96	2.74	2.74	2.74	ATTAINED
64	C425	Seminar	2.52	2.52	2.52	2.87	2.87	2.87	NOT ATTAINED
65	C426	Project	2.52	2.52	2.52	2.90	2.90	2.90	NOT ATTAINED

  
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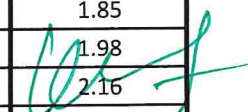
# KRISHNA CHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

Devarajugattu (Post), Peddaraveedu (Mandal), Prakasam Dist. - 523 320.  
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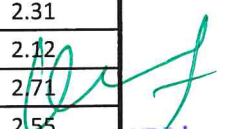
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**18-BATCH CO-PO MAPPING TABLE**

S.NO.	COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	Total	AVG
1	C111	3.00	3.00	2.16	2.40	-	-	-	-	-	-	-	2.00	12.56	2.51
2	C112	3.00	3.00	2.40	2.50	-	-	-	-	-	-	-	-	10.90	2.73
3	C113	3.00	3.00	2.50	2.40	-	-	-	-	-	-	-	-	10.90	2.73
4	C114	3.00	2.33	1.20	1.70	1.50	-	-	-	-	-	-	2.00	11.73	1.96
5	C115	3.00	2.00	1.60	-	-	1.60	-	-	-	-	-	-	8.20	2.05
6	C116	2.50	1.83	2.17	2.00	-	-	-	1.00	1.50	-	-	1.33	12.33	1.76
7	C117	3.00	2.40	2.83	2.75	-	-	-	-	-	-	-	-	10.98	2.75
8	C118	2.80	2.50	2.50	3.00	-	-	-	-	-	-	-	-	10.80	2.70
9	C119	2.80	2.50	2.50	3.00	-	-	-	-	-	-	-	-	10.80	2.70
10	C1110	1.50	2.50	2.00	3.00	-	1.00	-	1.00	-	-	-	2.00	13.00	1.86
11	C121	2.00	2.16	2.50	2.50	-	-	3.00	1.00	-	2.00	-	2.00	17.16	2.15
12	C122	2.66	1.83	2.66	2.16	-	-	-	-	-	-	1.00	1.00	11.31	1.89
13	C123	3.00	3.00	2.83	1.83	-	-	-	-	-	-	-	-	10.66	2.67
14	C124	2.66	3.00	2.00	2.00	-	-	-	1.00	-	-	-	-	10.66	2.13
15	C125	3.00	2.50	2.75	2.50	-	-	-	-	-	-	-	1.66	12.41	2.48
16	C126	2.66	1.66	2.00	2.00	-	-	-	2.00	-	-	-	2.00	12.32	2.05
17	C127	3.00	3.00	2.83	2.00	2.00	-	2.00	1.00	-	2.00	-	2.00	19.83	2.20
18	C128	2.50	2.50	2.00	-	-	-	-	1.00	-	3.00	-	2.00	13.00	2.17
19	C129	3.00	2.00	1.60	-	-	1.50	-	-	-	-	-	-	8.10	2.03
20	C211	3.00	2.94	2.29	2.42	-	-	-	-	-	-	-	2.16	12.81	2.56
21	C212	2.49	2.49	2.11	2.20	-	-	-	-	-	-	-	-	9.29	2.32
22	C213	3.00	2.85	2.25	2.40	-	-	-	-	-	-	-	-	10.51	2.63
23	C214	2.59	2.06	1.35	1.70	1.54	-	-	-	-	-	-	1.85	11.10	1.85
24	C215	3.00	1.82	1.57	-	-	1.52	-	-	-	-	-	-	7.91	1.98
25	C216	2.67	-	2.19	2.20	2.19	-	-	-	1.40	2.19	1.40	2.99	17.24	2.16
26	C217	2.80	3.00	2.73	-	2.60	-	2.20	-	-	2.20	-	2.20	17.73	2.53
27	C218	2.70	1.93	1.80	2.20	1.40	-	-	-	-	1.93	-	2.20	14.15	2.36
28	C221	2.80	2.94	2.16	-	-	-	-	-	-	-	-	1.89	9.79	2.45
29	C222	2.72	2.06	2.72	2.32	-	-	-	-	-	-	1.40	1.40	12.62	2.19

  
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30	<b>C223</b>	2.78	2.87	2.74	2.00	-	-	-	-	-	-	-	-	10.40	2.60
31	<b>C224</b>	2.73	3.00	2.20	2.20	-	-	-	1.40	-	-	-	-	11.53	2.31
32	<b>C225</b>	2.77	2.90	2.63	2.04	--	-	-	-	-	-	-	-	10.35	2.59
33	<b>C226</b>	2.74	1.91	2.18	2.20	-	-	-	2.18	-	-	-	2.18	13.39	2.23
34	<b>C227</b>	2.77	3.00	2.86	2.20	2.20	-	2.20	1.40	-	2.20	-	2.20	21.03	2.34
35	<b>C228</b>	2.75	2.60	2.20	-	-	-	-	1.40	-	3.00	-	2.20	14.15	2.36
36	<b>C311</b>	2.76	2.04	2.31	2.20	-	-	-	1.39	1.78	-	-	1.65	14.14	2.02
37	<b>C312</b>	2.75	2.49	2.83	2.80	-	-	-	-	-	-	-	-	10.86	2.72
38	<b>C313</b>	2.76	2.13	2.41	2.32	-	-	-	-	-	-	-	-	9.63	2.41
39	<b>C314</b>	2.75	2.42	2.74	2.70	-	-	-	-	-	-	-	-	10.62	2.65
40	<b>C315</b>	2.76	2.09	1.79	2.40	-	1.20	-	1.20	-	-	-	1.79	13.24	1.89
41	<b>C316</b>	2.75	2.33	2.60	2.60	-	-	3.00	1.40	-	2.20	-	2.20	19.08	2.39
42	<b>C317</b>	2.76	2.20	2.20	2.60	2.20	-	-	1.40	-	2.20	-	2.20	17.76	2.22
43	<b>C318</b>	2.75	2.20	2.20	-	-	-	-	-	-	-	-	2.20	9.35	2.34
44	<b>C321</b>	2.76	2.83	2.43	1.80	2.69	2.20	-	-	-	-	-	-	14.71	2.45
45	<b>C322</b>	2.75	2.94	2.94	2.20	-	-	-	1.38	-	-	-	2.16	14.39	2.40
46	<b>C323</b>	2.76	3.00	2.20	2.20	-	-	-	2.20	-	-	1.40	2.33	16.08	2.68
47	<b>C324</b>	2.75	2.37	1.99	-	-	-	-	-	-	-	1.86	2.28	11.25	2.25
48	<b>C325</b>	2.76	1.50	1.80	-	1.68	1.40	-	-	-	-	-	-	9.14	1.83
49	<b>C326</b>	2.75	3.00	2.20	2.20	2.20	-	-	1.40	-	2.20	-	-	15.95	2.28
50	<b>C327</b>	2.75	2.20	2.73	3.00	-	-	-	-	-	2.20	-	2.20	15.08	2.51
51	<b>C328</b>	2.75	2.20	2.20	2.20	1.40	-	-	1.40	-	2.20	-	2.20	16.55	2.07
52	<b>C411</b>	2.75	2.18	2.18	2.20	2.18	-	2.18	-	-	2.18	-	2.18	18.03	2.25
53	<b>C412</b>	2.75	3.00	1.25	1.25	-	-	-	-	-	-	-	-	8.25	2.06
54	<b>C413</b>	2.75	2.57	2.18	2.20	2.44	-	-	1.39	-	-	1.39	2.18	17.10	2.14
55	<b>C414</b>	2.75	3.00	-	3.00	-	-	1.40	2.20	1.40	1.40	1.40	1.40	17.95	1.99
56	<b>C415</b>	2.75	2.5	2.803626667	2.8	-	-	-	-	-	-	-	-	10.86	2.71
57	<b>C416</b>	2.70	2.80	2.66	2.30	2.41	2.20	2.15	-	-	2.15	-	2.93	22.30	2.48
58	<b>C417</b>	2.70	2.20	2.20	3.00	2.20	-	-	-	-	-	-	2.20	14.50	2.42
59	<b>C418</b>	2.70	2.33	2.33	2.60	2.20	-	-	-	1.40	-	-	-	13.56	2.26
60	<b>C421</b>	2.70	2.16	2.94	3.00	2.94	-	-	-	-	-	-	-	13.73	2.75
61	<b>C422</b>	2.70	2	2.652	-	-	1.9	-	-	-	-	-	-	9.25	2.31
62	<b>C423</b>	2.70	1.78	2.30	1.71	1.39	1.40	2.65	-	2.44	2.04	2.30	2.57	23.30	2.12
63	<b>C424</b>	2.70	2.49	2.83	2.80	-	-	-	-	-	-	-	-	10.83	2.71
64	<b>C425</b>	2.70	2.20	2.50	2.20	2.62	2.70	2.62	2.62	2.62	2.62	2.62	2.62	30.61	2.55
65	<b>C426</b>	2.70	2.30	2.62	2.30	2.62	2.70	2.62	2.62	2.62	2.62	2.62	1.94	30.26	2.52
<b>Sum</b>		178.54	156.54	148.05	126.40	44.59	21.32	26.01	34.97	15.15	42.53	17.38	78.50		
<b>ATTAINED VALUE</b>		<b>2.75</b>	<b>2.45</b>	<b>2.31</b>	<b>2.34</b>	<b>2.12</b>	<b>1.78</b>	<b>2.36</b>	<b>1.52</b>	<b>1.89</b>	<b>2.24</b>	<b>1.74</b>	<b>2.07</b>		

  
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**KRISHNA CHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES**Devarajugattu (Post), Peddaraveedu (Mandal), Prakasam Dist. - 523 320.  
(Approved by A.I.C.T.E., New Delhi, & Affiliated to JNTUK, Kakinada)**NAAC ACCREDITED INSTITUTION****18-BATCH CO-PO MAPPING TABLE**

S.NO.	COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
1	C111	2.99	2.99	2.32	2.46	-	-	-	-	-	-	-	2.19	2.59
2	C112	2.96	2.96	2.49	2.57	-	-	-	-	-	-	-	-	2.74
3	C113	2.96	2.96	2.57	2.43	-	-	-	-	-	-	-	-	2.73
4	C114	2.94	2.42	1.54	1.90	-	-	-	-	-	-	-	2.16	2.19
5	C115	2.94	2.16	1.85	-	-	1.77	-	-	-	-	-	-	2.18
6	C116	2.60	2.06	2.33	2.20	-	-	-	1.40	1.80	-	-	1.66	2.01
7	C117	3.00	2.52	2.86	2.80	-	-	-	-	-	-	-	-	2.8
8	C118	2.84	2.60	2.60	3.00	-	-	-	-	-	-	-	-	2.76
9	C119	2.84	2.60	2.60	3.00	-	-	-	-	-	-	-	-	2.76
10	C1110	1.80	2.60	2.20	3.00	-	1.40	-	1.40	-	-	-	2.20	2.09
11	C121	2.20	2.33	2.60	2.60	-	-	3.00	1.40	-	2.20	-	2.20	2.32
12	C122	2.73	2.07	2.73	2.33	-	-	-	-	-	-	1.40	1.40	2.11
13	C123	3.00	3.00	2.86	2.07	-	-	-	-	-	-	-	-	2.73
14	C124	2.72	2.99	2.19	2.19	-	-	-	1.40	-	-	-	-	2.3
15	C125	3.00	2.60	2.80	2.60	-	-	-	-	-	-	-	1.93	2.59
16	C126	2.73	1.93	2.20	2.20	-	-	-	2.20	-	-	-	2.20	2.24
17	C127	3.00	3.00	2.86	2.20	2.20	-	2.20	1.40	-	2.20	-	2.20	2.36
18	C128	2.60	2.60	2.20	-	-	-	-	1.40	-	3.00	-	2.20	2.33
19	C129	3.00	2.20	1.88	-	-	1.80	-	-	-	-	-	-	2.22
20	C211	3.00	3.00	2.16	2.33	-	-	-	-	-	-	-	2.00	2.5
21	C212	3.00	3.00	2.40	2.50	-	-	-	-	-	-	-	-	2.73
22	C213	3.00	3.00	2.50	2.33	-	-	-	-	-	-	-	-	2.71
23	C214	3.00	2.33	1.20	1.67	1.50	-	-	-	-	-	-	2.00	1.95
24	C215	3.00	2.00	1.60	-	-	1.50	-	-	-	-	-	-	2.03
25	C216	2.17	-	2.00	2.00	2.00	-	-	-	1.00	2.00	1.00	3.00	1.9
26	C217	2.83	3.00	2.66	-	2.50	-	2.00	-	-	2.00	-	2.00	2.43
27	C218	3.00	1.66	1.50	2.00	1.00	-	-	-	-	1.66	-	2.00	1.83
28	C221	3.00	3.00	2.00	-	-	-	-	-	-	-	-	1.66	1.40
29	C222	2.66	1.83	2.66	2.16	-	-	-	-	-	-	1.00	1.00	1.89

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30	C223	3.00	3.00	2.83	1.83	-	-	-	-	-	-	-	-	2.67
31	C224	2.66	3.00	2.00	2.00	-	-	-	1.00	-	-	-	-	2.13
32	C225	3.00	2.50	2.75	2.50	-	-	-	-	-	-	-	1.66	2.48
33	C226	2.66	1.66	2.00	2.00	-	-	-	2.00	-	-	-	2.00	2.05
34	C227	3.00	3.00	2.83	2.00	2.00	-	2.00	1.00	-	2.00	-	2.00	2.2
35	C228	2.50	2.50	2.00	-	-	-	-	1.00	-	3.00	-	2.00	2.17
36	C311	2.50	1.83	2.17	2.00	-	-	-	1.00	1.50	-	-	1.33	1.76
37	C312	3.00	2.40	2.83	2.75	-	-	-	-	-	-	-	-	2.75
38	C313	2.80	2.50	2.50	3.00	-	-	-	-	-	-	-	-	2.7
39	C314	2.80	2.50	2.50	3.00	-	-	-	-	-	-	-	-	2.7
40	C315	1.50	2.50	2.00	3.00	-	1.00	-	1.00	-	-	-	2.00	1.86
41	C316	2.00	2.16	2.50	2.50	-	-	3.00	1.00	-	2.00	-	2.00	2.15
42	C317	3.00	2.00	2.00	2.50	2.00	-	-	1.00	-	2.00	-	2.00	2.06
43	C318	3.00	2.00	2.00	-	-	-	-	-	-	-	-	2.00	2.25
44	C321	3.00	2.83	2.33	1.50	2.66	2.00	-	-	-	-	-	-	2.39
45	C322	2.00	3.00	3.00	2.00	-	-	-	1.00	-	-	-	2.00	2.17
46	C323	3.00	3.00	2.00	2.00	-	-	-	2.00	-	-	-	1.00	2.17
47	C324	3.00	2.33	1.83	-	-	-	-	-	-	-	-	1.66	2.21
48	C325	3.00	1.50	2.00	-	1.80	1.30	-	-	-	-	-	-	1.92
49	C326	2.00	3.00	2.00	2.00	2.00	-	-	1.00	-	2.00	-	-	2
50	C327	2.00	2.00	2.66	3.00	-	-	-	-	-	2.00	-	2.00	2.28
51	C328	3.00	2.00	2.00	2.00	1.00	-	-	1.00	-	2.00	-	2.00	1.88
52	C411	2.83	2.00	2.00	2.00	2.00	-	2.00	-	-	2.00	-	2.00	2.1
53	C412	3.00	3.00	0.83	0.83	-	-	-	-	-	-	-	-	1.92
54	C413	2.00	2.50	2.00	2.00	2.33	-	-	1.00	-	-	1.00	2.00	1.85
55	C414	3.00	3.00	-	3.00	-	-	1.00	2.00	1.00	1.00	1.00	1.00	1.78
56	C415	3.00	2.40	2.83	2.75	-	-	-	-	-	-	-	-	2.75
57	C416	2.83	2.83	2.66	2.16	2.33	2.00	2.00	-	-	2.00	-	3.00	2.42
58	C417	2.00	2.00	2.00	3.00	2.00	-	-	-	-	-	-	2.00	2.17
59	C418	2.16	2.16	2.16	2.50	2.00	-	-	-	1.00	-	-	-	2
60	C421	3.00	2.00	3.00	3.00	3.00	-	-	-	-	-	-	-	2.8
61	C422	3.00	1.80	2.70	-	-	1.60	-	-	-	-	-	-	2.28
62	C423	1.66	1.50	2.16	1.40	1.00	1.00	2.60	-	2.33	1.83	2.16	2.50	1.83
63	C424	3.00	2.40	2.83	2.75	-	-	-	-	-	-	-	-	2.75
64	C425	3.00	2.33	2.83	2.33	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.87
65	C426	3.00	2.50	3.00	2.50	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.83
<b>SUM</b>		177.41	157.04	148.10	126.34	41.32	21.37	25.80	33.60	14.63	40.89	13.56	77.16	
<b>TARGET VALUE</b>		<b>2.73</b>	<b>2.45</b>	<b>2.31</b>	<b>2.34</b>	<b>2.07</b>	<b>1.78</b>	<b>2.35</b>	<b>1.46</b>	<b>1.83</b>	<b>2.15</b>	<b>1.70</b>	<b>1.98</b>	

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**KRISHNA CHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES**

Devarajugattu (Post), Peddaraveedu (Mandal), Prakasam Dist. - 523 320.  
(Approved by A.I.C.T.E., New Delhi, & Affiliated to JNTUK, Kakinada)

**NAAC ACCREDITED INSTITUTION****18-BATCH PO'S ATTAINMENT TABLE**

S.NO.	COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	<b>ATTAINMENT VALUE</b>	2.75	2.45	2.31	2.34	2.12	1.78	2.36	1.52	1.89	2.24	1.74	2.07
2	<b>TARGET VALUE</b>	2.73	2.45	2.31	2.34	2.07	1.78	2.35	1.46	1.83	2.15	1.70	1.98
<b>STATUS</b>		ATTAINED	ATTAINED	ATTAINED	ATTAINED	ATTAINED	ATTAINED	ATTAINED	ATTAINED	ATTAINED	ATTAINED	ATTAINED	ATTAINED

  
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