



# BRILLIANT INSTITUTE OF ENGINEERING & TECHNOLOGY

College Code: QA

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(Approved by AICTE, New Delhi, Affiliated to JNTU-Hyderabad)

Abdullapur (V), Abdullapurmet (M), R.R. Dist – 501505, Telangana, India

Website: [www.b-iet.ac.in](http://www.b-iet.ac.in), e-mail: [principal@b-iet.ac.in](mailto:principal@b-iet.ac.in) Contact No.:+919652929786

2.6.2 Attainment of Program outcomes and course outcomes are evaluated by the institution.

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ABDULLAPUR (V), ABDULLAPURMET (M), R.R. DIST - 501505, TELANGANA, INDIA

**INSTITUTE VISION**

To produce technically competent, socially committed Technocrats, by imparting quality education in Academics and Research.

**INSTITUTE MISSION**

- ◆ To create advanced facilities of teaching and practical training to the UG & PG Students.
- ◆ To inculcate facilities in the area of Research & Development.
- ◆ To be state-of-the-art institution engineering in pursuit of excellence in the service of society.
- ◆ To initiate the collaborative, real-life industrial projects with nearby industries and academic institutions.

**INSTITUTE QUALITY POLICY**

We at Brilliant Institute of Engineering & Technology endeavor to uphold in all aspects by adopting best practices in effort and effect.



Rangareddy, Telangana, India  
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OPS Map Camera

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**DEPARTMENT VISION & MISSION**

**VISION:**  
 To produce High Quality, Technically Competent Electronics and Communication Engineers capable of efficiently addressing the Technical challenges in real world with Values and Ethics.

**MISSION:**

M1: Impart quality education in fundamentals of basic sciences, mathematics, electronics and communication engineering through innovative teaching-learning processes.

M2: To encourage creative thinking through innovative and group work exercises which enhances the entrepreneur skills, employability and research capabilities.

M3: To inculcate teamwork, imbibe leadership qualities, professional ethics and social responsibilities in students and faculty.

**PROGRAM SPECIFIC OUTCOMES (PSOs)**

PSO1: Development of Hardware/Software Co-designs. An ability to apply electronic design principles in the development of hardware/software prototypes and systems with progressive depth of complexity.

PSO2: Development of Electronic Communication Systems. An ability to deploy conventional & next-gen. techniques/tools for analysis & design of Information and Communication systems.

PSO3: Development of Signal Processing Applications. An ability to apply algorithmic knowledge of signal processing towards analysis, Recognition, and synthesis of multi-dimensional data.



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

Program specific outcomes (PSO's)

1. Development of Hardware/Software Co-designs:  
An ability to apply electronic design principles in the development of hardware/software prototypes and systems with progressive depth of complexity.
2. Development of Electronics Communication Systems:  
An ability to deploy conventional & next-gen. techniques/tools for analysis & design of Information and Communication systems.
3. Development of Signal Processing Applications:  
An ability to apply algorithmic knowledge of signal processing towards analysis, Recognition, and synthesis of multi-dimensional data.

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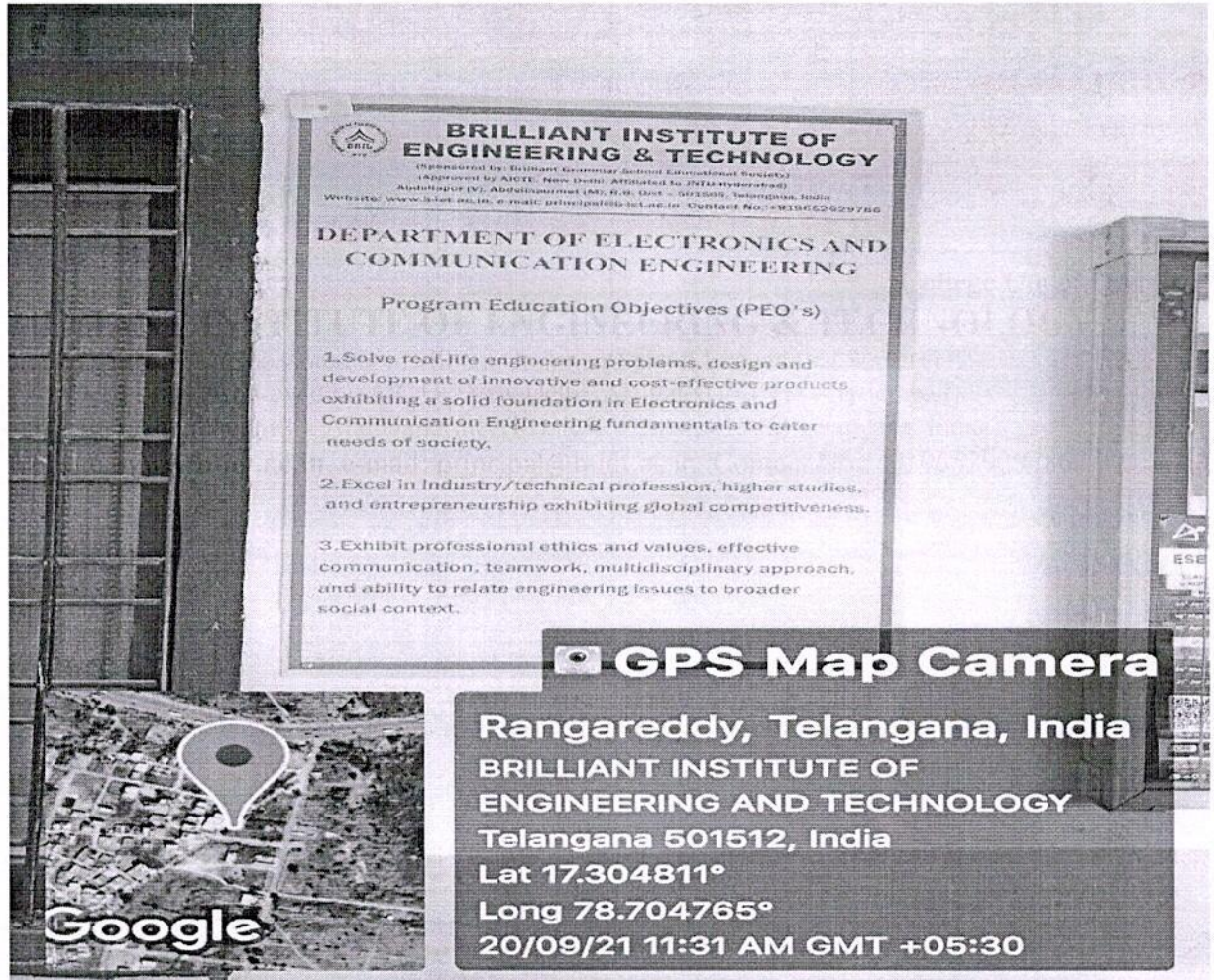
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**DEPARTMENT OF  
 ELECTRONICS AND COMMUNICATION ENGINEERING**

**ELECTRONIC DEVICES AND CIRCUITS LABORATORY**

B.Tech. I Year II Sem. L T P C  
0 0 2 1

**Course Outcomes: Students will be able to:**

1. Acquire the knowledge of various semiconductor devices and their use in real life.
2. Design aspects of biasing and keep them in active region of the device for functional circuits
3. Acquire the knowledge about the role of special purpose devices and their applications.

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	-	2	-	3	-	-	3	3	-	-	1
CO2	1	-	2	-	3	-	-	3	3	-	-	1
CO3	1	-	2	-	3	-	-	3	3	-	-	1

**LIST OF EXPERIMENTS**

1. PN Junction diode characteristics A) Forward bias B) Reverse bias.
2. Full Wave Rectifier with & without filters
3. Types of Clippers at different reference voltages
4. Types of Clampers at different reference voltages
5. The steady state output waveform of clampers for a square wave input
6. Input and output characteristics of BJT in CB Configuration
7. Input and output characteristics of BJT in CE Configuration
8. Input and output characteristics of BJT in CC Configuration
9. Input and output characteristics of MOS FET in CS Configuration
10. Input and output characteristics of MOS FET in CD Configuration
11. Switching characteristics of a transistor
12. Zener diode characteristics and Zener as voltage Regulator
13. SCR Characteristics.
14. UJT Characteristics and identify negative region
15. Photo diode characteristics
16. Solar cell characteristics
17. LED Characteristics

\*Design a circuit to switch on and off LED using diode/BJT/FET as a switch.



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**ANALOG CIRCUITS LABORATORY**

B.Tech. II Year I Sem. L T P C  
0 0 2 1

**Course Outcomes:** Upon completing this course the students will be able to

- Design amplifiers with required Q point and analyse amplifier characteristics
- Examine the effect multistage amplification on frequency response
- Investigate feedback concept in amplifiers and oscillator

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	-	2	-	3	-	-	3	3	-	-	1
CO2	1	-	2	-	3	-	-	3	3	-	-	1
CO3	1	-	2	-	3	-	-	3	3	-	-	1

**LIST OF EXPERIMENTS**

- Perform an experiment to choose Q-point for a Transistor that operate in active region and observe the effect of external Load resistance on Q-point.
- Design a self bias Circuit and determine the Q-point of the Transistor and its Stability factor by both simulation and realization with hardware components.
- Obtain the I/O Characteristics of CE, CB, CC amplifiers. Calculate h-parameters from the Characteristics.
- Design and Simulate a Common Drain Amplifier with voltage divider bias and determine the Stability factor.
- Obtain the Drain and Transfer characteristics of CD, CS amplifiers of JFET. Calculate  $g_m$ ,  $r_d$  from the Characteristics.
- By experiment prove that the voltage gain of Emitter Follower Circuit is one.
- Design a Common Emitter Amplifier with a gain of 30dB and Bandwidth of 10KHZ and plot the frequency response practically.
- Design a two stage RC Coupled amplifier and prove that gain is increased and analyze the effects of coupling capacitance.
- Practically prove that the Darlington pair has high input impedance.
- Draw the high frequency response of common emitter transistor amplifier and calculate  $f_u$ ,  $f_\beta$  and gain bandwidth product.
- Design a cascode amplifier for a given specifications
- Design four topologies of feedback amplifiers and draw the frequency response of them with and without feedback.
- Design an RC phase shift oscillator circuit and derive the gain condition for oscillations practically for given frequency.

Design a Colpitts oscillator circuit for the given frequency and draw the output waveform.

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### ATTAINMENT OF COURSE OUTCOMES

#### Tools used for assessment:

Marks allocation by University: The division of marks given by university, and weight ages in arriving at the attainment of CO are given below. The CO assessment is carried out through CIE and SEE with the following proportions:

**Table: Weightages of Marks for CIE: SEE**

Type of course	Internal Marks(CIE)	External Marks(SEE)	Total Marks	Net CO Attainment Level As per Weightages
Theory	25	75	100	0.25*CIE Level+0.75*SEE Level
Laboratory	25	75	100	0.25*CIE Level+0.75*SEE Level
Seminar	100	-	100	CIE Level
Industrial oriented Mini Project/Summer internship	25	75	100	0.25*CIE Level+0.75*SEE Level
Project stage -I	100	-	100	CIE Level
Project stage -II	25	75	100	0.25*CIE Level+0.75*SEE Level
Mandatory course	100	-	100	CIE Level

Based on combined Marks(i.e. CIE+SEE) Obtained by Candidate, Letter grades are Awarded as shown below Corresponding Grade Points also shown in table

% Of marks Secured in Subject/Course (Class intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than are Equal to 90%	O(Outstanding)	10
80 and Less than 90	A+(Excellent)	9
70 and less than 80%	A(Very Good)	8
60 and Less than 70%	B+(Good)	7
50and Less than 60%	B(Average)	6
40 and less than 50%	C(Pass)	5
Below 40%	F(Fail)	0
Absent	Ab	0

Table: Letter Grades With Respect to Academic Performance

For attainment of course outcomes

  
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- Final Letter grades obtained by each student in the course in the course are made available by university.
- These Letter grades must be converted to marks as show in below table.

%of Marks Secured in a Subject	Letter Grade	Corresponding Marks
Greater than or equal to 90%	O	1*Max SEE Marks
80 and less than 90%	A+	0.89*Max SEE Marks
70 and less than 80%	A	0.79*Max SEE Marks
60 and less than 70%	B+	0.69*Max SEE Marks
50 and less than 60%	B	0.59*Max SEE Marks
40 and less than 50%	C	0.49*Max SEE Marks
Below 40%	F	0.39*Max SEE Marks

Table: Conversion of Letter grades into corresponding marks

- Frequency of data Collection

The data required for calculating attainments is to be gathered. Each course instructor maintains the data required like internal Marks mid wise and External Marks of their respective course. The frequency of data collection for collection for each assessment tool is show in a table.

Assessment Toll	Frequency
University	Once a semester
Mid Examination	Twice a semester
Assignments	Twice a semester
Internal/External Lab Examination	Once a semester

Table: Data Frequency

#### Attainment of CO's for Theory Courses:

Attainment of theory courses calculated base on student performance I Continuous internal Evaluation (CIE) and semester End Examination (SEE)

Overall CO attainment -0.25 CIE Level +0.75 SEE Level

These values of the CO levels for the course are then used for mapping the PO attainments, using the array of target PO values for the course. The procedure adapted for calculating the attainment of Course Outcomes for a Theory course is described with an example for the course Python program

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Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		L.Praveen Kumar		Academic Year:		2023-24	
Branch & Section:		ECE		Exam:		MID - I	
Course:		LDICA		Year/Semester:		II/II	
Sl.No	Roll Number	Question No.				Objective	Assignment
		1	2	3	4		
Maximum Marks		5	5	5	5	10	5
1	20QA1A0401		4	5		8	5
2	20QA1A0402		4	4		10	5
3	20QA1A0403	2		3		4	5
4	20QA1A0404		3		2	2	5
5	20QA1A0405		5		4	5	5
6	20QA1A0406	2			3	2	5
7	20QA1A0407		2		3	2	5
8	20QA1A0408		4		4	5	5
9	20QA1A0409			4	4	6	5
10	20QA1A0410		5		5	9	5
11	20QA1A0411		5	5		7	5
12	20QA1A0412	5			4	6	5
13	20QA1A0413	5		5		10	5
14	20QA1A0414		5		5	5	5
15	20QA1A0415		5		4	6	5
16	20QA1A0416			5	5	10	5
17	20QA1A0417		3	2		2	5
18	20QA1A0418	5		4		6	5
19	20QA1A0419		5	5		10	5
20	20QA1A0420			5	5	5	5
21	20QA1A0421		2		2	3	5
22	20QA1A0422	5		5		10	5
23	20QA1A0423		4		2	1	5
24	20QA1A0424			5	4	8	5
25	20QA1A0425		4		4	6	5
26	20QA1A0426			5	5	10	5
27	20QA1A0427		2	3		2	5



28	20QA1A0428	3	4	4	7	5
29	20QA1A0429	4	5	5	8	5
30	20QA1A0430	5	4	5	5	5
31	20QA1A0431	3	3	6	2	5
32	20QA1A0432	2	3	2	6	5
33	20QA1A0433	5	5	6	2	5
34	20QA1A0434	2	3	2	2	5
35	20QA1A0435	5	5	10	2	5
36	20QA1A0436	3	2	2	2	5
37	20QA1A0437	4	5	6	2	5
38	20QA1A0438	4	5	7	2	5
39	20QA1A0439	2	3	2	2	5
40	20QA1A0440	5	5	9	2	5
41	20QA1A0441	3	4	10	2	5
42	20QA1A0442	5	5	5	2	5
43	20QA1A0443	5	5	7	2	5
44	20QA1A0444	5	4	7	2	5
45	20QA1A0445	5	5	10	2	5
46	20QA1A0446	3	5	10	2	5
47	21QA5A0401	2	3	2	2	5
48	21QA5A0402	4	5	5	2	5
49	21QA5A0403	2	2	3	4	5
50	21QA5A0404	3	3	4	2	5
51	21QA5A0405	5	5	10	2	5
52	21QA5A0406	5	3	4	2	5
53	21QA5A0407	2	3	2	2	5
54	21QA5A0408	3	2	2	2	5
55	21QA5A0409	4	4	6	2	5
56	21QA5A0410	2	2	3	2	5
57	21QA5A0411	2	2	3	2	5
58	21QA5A0412	3	1	3	2	5
59	21QA5A0413	2	3	2	2	5
60	21QA5A0414	4	1	2	2	5
61	21QA5A0415	2	2	3	2	5
62	21QA5A0416	2	2	3	2	5
63	21QA5A0417	2	2	3	2	5

Principal



Attainment Level	1:	2:	3:	40% students score more than threshold	50% students score more than threshold	60% students score more than threshold
64	21QA5A0418		4	5	7	5
65	21QA5A0419	2	2		3	5
66	21QA5A0420	5		4	4	5
67	21QA5A0421	1		4	4	5
68	21QA5A0422	2	5		7	5
69	21QA5A0423	3		4	6	5
70	21QA5A0424	3			7	5
71	21QA5A0425		3		2	5
72	21QA5A0426	1		2	4	5
73	21QA5A0427	3		1	3	5
74	21QA5A0428		3	5	7	5
No. of students attempted	24	41	42	41	74	74
Max Marks Question wise	5	5	5	5	10	5
Threshold 50%	2.5	2.5	2.5	2.5	5	2.5
No. of Students above threshold	20	24	35	32	43	74
% of Students>Target Score	83.34	58.54	83.34	78.05	58.11	100
Attainment Level	3	2	3	3	2	3

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Course Outcome Mapping with each Question						
CO's	Question No				Objective	Assignment
	1	2	3	4		
Course outcome - 1	y				y	y
Course outcome - 2		y	y		y	y
Course outcome - 3				y	y	y
Course outcome - 4						
Course outcome - 5						

Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question						
CO's	Question No				Objective	Assignment
	1	2	3	4		
Course outcome - 1	3				2	3
Course outcome - 2		2	3		2	3
Course outcome - 3				3	2	3
Course outcome - 4						
Course outcome - 5						

Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question				
CO's	Subjective	Objective	Assignment	Attainment Level
Course outcome - 1	3.00	2.00	3.00	2.67
Course outcome - 2	2.50	2.00	3.00	2.50
Course outcome - 3	3.00	2.00	3.00	2.67
Course outcome - 4	-	-	-	-
Course outcome - 5	-	-	--	-



**Course Outcome Attainment - Internal Assessments**

Name of the Faculty:		L.Praveen Kumar		Academic Year:		2023-24	
Branch & Section:		ECE		Exam:		MID - II	
Course:		LDICA		Year/Semister:		II/II	
Sl.No	Roll Number	Question No.				Objective	Assignment
		1	2	3	4		
Maximum Marks							
1	20QA1A0401	5	5	5	7	5	5
2	20QA1A0402	5	5	5	8	5	5
3	20QA1A0403	3	2	2	4	5	5
4	20QA1A0404	2	2	2	3	5	5
5	20QA1A0405		4	4	6	5	5
6	20QA1A0406		2	2	3	5	5
7	20QA1A0407	2	2	2	3	5	5
8	20QA1A0408	4	4		5	5	5
9	20QA1A0409	5		5	4	5	5
10	20QA1A0410	5		5	9	5	5
11	20QA1A0411	4	4	4	9	5	5
12	20QA1A0412	5		5	5	5	5
13	20QA1A0413	5		5	10	5	5
14	20QA1A0414		4	4	6	5	5
15	20QA1A0415	4		4	7	5	5
16	20QA1A0416	5	5	5	10	5	5
17	20QA1A0417	3	2	2	2	5	5
18	20QA1A0418	3	3	3	9	5	5
19	20QA1A0419			5	10	5	5
20	20QA1A0420	4	4	4	7	5	5
21	20QA1A0421	2		2	3	5	5
22	20QA1A0422	5	5	5	10	5	5
23	20QA1A0423	1	2	2	4	5	5
24	20QA1A0424	5	5	5	7	5	5
25	20QA1A0425	5	4	4	5	5	5
26	20QA1A0426	5		5	10	5	5
27	20QA1A0427		2	2	3	5	5
28	20QA1A0428	3	4		7	5	5
29	20QA1A0429	5		5	7	5	5



30	20QA1A0430	4		3		7	5
31	20QA1A0431		4	2		6	5
32	20QA1A0432	3	2			2	5
33	20QA1A0433		5	4		7	5
34	20QA1A0434		2		2	3	5
35	20QA1A0435	5	5			10	5
36	20QA1A0436			2	2	3	5
37	20QA1A0437		3	4		8	5
38	20QA1A0438		4	4		8	5
39	20QA1A0439		2			2	5
40	20QA1A0440	5		4		10	5
41	20QA1A0441		5	5		7	5
42	20QA1A0442		4	5		6	5
43	20QA1A0443		5	5		7	5
44	20QA1A0444			4	5	7	5
45	20QA1A0445	5			5	10	5
46	20QA1A0446		5	4		9	5
47	21QA5A0401			2	2	3	5
48	21QA5A0402		4	5		5	5
49	21QA5A0403		2		2	3	5
50	21QA5A0404	4	4			5	5
51	21QA5A0405		5	5		10	5
52	21QA5A0406			4	4	4	5
53	21QA5A0407	4	4			6	5
54	21QA5A0408		4		4	6	5
55	21QA5A0409		5			7	5
56	21QA5A0410		5		5	8	5
57	21QA5A0411			2	2	3	5
58	21QA5A0412		5			10	5
59	21QA5A0413			4	4	8	5
60	21QA5A0414	5	5			10	5
61	21QA5A0415		4	4		8	5
62	21QA5A0416			4	5	8	5
63	21QA5A0417		5	5		9	5
64	21QA5A0418		5			10	5
65	21QA5A0419			2	2	3	5

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66	21QA5A0420		2	2		3	5
67	21QA5A0421			4	4	7	5
68	21QA5A0422		3	3		5	5
69	21QA5A0423	4	5			8	5
70	21QA5A0424		4	4		4	5
71	21QA5A0425	4			4	4	5
72	21QA5A0426		5		4	7	5
73	21QA5A0427		4	5		5	5
74	21QA5A0428	4	5				5
No. of students attempted		29	42	48	29	74	74
Max Marks Question wise		5	5	5	5	10	5
Threshold 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above threshold		26	35	35	20	52	74
% of Students>Target Score		89.66	83.34	72.92	68.97	70.28	100
Attainment Level		3	3	3	3	3	3

Attainment Level	1:	40% students score more than threshold
Attainment Level	2:	50% students score more than threshold
Attainment Level	3:	60% students score more than threshold

Course Outcome Mapping with each Question						
CO's	Question No				Objective	Assignment
	1	2	3	4		
Course outcome - 1						
Course outcome - 2						
Course outcome - 3	y				y	y
Course outcome - 4		y	y		y	y
Course outcome - 5				y	y	y

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Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question						
CO's	Question No				Objective	Assignment
	1	2	3	4		
Course outcome - 1						
Course outcome - 2						
Course outcome - 3	3				3	3
Course outcome - 4		3	3		3	3
Course outcome - 5				3	3	3

Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question				
CO's	Subjective	Objective	Assignment	Attainment Level
Course outcome - 1	-	-	-	-
Course outcome - 2	-	-	-	-
Course outcome - 3	3.00	3.00	3.00	3.00
Course outcome - 4	3.00	3.00	3.00	3.00
Course outcome - 5	3.00	3.00	3.00	3.00

  
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<b>Course Outcome Attainment External Examination</b>			
Name of the Faculty:		L.Praveen Kumar	Academic Year: 2023-24
Branch & Section:		ECE	Exam: EXTERNAL
Course:		LDICA	Year/Semester: II/II
S.NO.	HALLTICKET NO	TOTAL(Max. Score:75)	
1	20QA1A0401	74	
2	20QA1A0402	72	
3	20QA1A0403	69	
4	20QA1A0405	69	
5	20QA1A0406	65	
6	20QA1A0407	66	
7	20QA1A0408	63	
8	20QA1A0409	65	
9	20QA1A0410	70	
10	20QA1A0411	69	
11	20QA1A0412	64	
12	20QA1A0413	74	
13	20QA1A0414	68	
14	20QA1A0415	69	
15	20QA1A0416	75	
16	20QA1A0417	69	
17	20QA1A0418	69	
18	20QA1A0419	74	
19	20QA1A0420	68	
20	20QA1A0421	66	
21	20QA1A0422	74	
22	20QA1A0423	63	
23	20QA1A0424	71	
24	20QA1A0425	70	
25	20QA1A0426	71	
26	20QA1A0427	63	
27	20QA1A0428	63	
28	20QA1A0429	73	
29	20QA1A0430	68	
30	20QA1A0431	66	
31	20QA1A0432	64	



32	20QA1A0433	68
33	20QA1A0434	68
34	20QA1A0435	71
35	20QA1A0436	-1
36	20QA1A0437	65
37	20QA1A0438	72
38	20QA1A0440	71
39	20QA1A0441	68
40	20QA1A0442	69
41	20QA1A0443	71
42	20QA1A0444	71
43	20QA1A0445	70
44	20QA1A0446	66
45	21QA5A0402	65
46	21QA5A0403	-1
47	21QA5A0404	68
48	21QA5A0405	75
49	21QA5A0406	62
50	21QA5A0407	67
51	21QA5A0408	67
52	21QA5A0409	71
53	21QA5A0410	69
54	21QA5A0411	-1
55	21QA5A0412	70
56	21QA5A0413	70
57	21QA5A0414	71
58	21QA5A0415	69
59	21QA5A0416	69
60	21QA5A0417	71
61	21QA5A0418	74
62	21QA5A0419	-1
63	21QA5A0420	60
64	21QA5A0421	69
65	21QA5A0422	65
66	21QA5A0423	66
67	21QA5A0424	69

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68	21QA5A0425	66
69	21QA5A0426	64
70	21QA5A0427	63
71	21QA5A0428	67
No. of students who attempted the subject		71
Max. Marks		75
Thresold 40%		30
No. of students who scored more than the target score		67
Percentage of students who scored more than target score		94.37
Overall External Attainment level		3
Attainment Level	1:	40% students score more than threshold
Attainment Level	2:	50% students score more than threshold
Attainment Level	3:	60% students score more than threshold

Similarly CO attainment is calculated for all theory courses for corresponding academic years respectively

CO attainment level for courses other than Theory:

a) Laboratory:

Continuous Internal Evaluation:

The internal evaluation is based on session wise performance of experiment and viva voce, Observation, record and internal examination. The final internal marks are considered for CIE, and CO level for CIE attainment is decided upon the percentage of students who score more than 55% of the maximum internal marks, i.e., 13.75 out of 25 is used to decide the CO attainment level and is uniform for all CO's.

Semester End University Examination Evaluation (SEE): SEE Lab exam is evaluated for 75 marks. In SEE of the lab, % of students who score over 40% of the maximum marks, i.e. 30 out of 75 marks, is used to decide the CO attainment level and is uniform for all CO's.

b) Seminar:

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For seminars, the assessment is based only on internal evaluation. The marks obtained in seminar is used to decide the % of students who scored more than 55% of maximum marks, and this % is used for determining corresponding CO attainment level. This Attainment level is construed as uniform for all COs of the course.

c) Industry Oriented Mini Project: For Industry Oriented Mini Project, the assessment is based only on External evaluation. The marks obtained in Industry Oriented Mini Project is used to decide the % of students who scored more than 40% of maximum marks, and this % is used for determining corresponding CO attainment level. This Attainment level is construed as uniform for all COs of the course.

d) Project: Continuous Internal Evaluation:

The internal marks for project (25) are the total of marks allotted in Project review, final presentation, and by project guide. The final internal marks are considered for CIE, and CO level for CIE attainment is decided upon the percentage of students who score more than 55% of the maximum internal marks, i.e., 13.75 out of 25 is used to decide the CO attainment level and is uniform for all Cos

**Semester End University Examination Evaluation (SEE):**

The external evaluation is by award of Grade (Excellent/Very Good/Satisfactory /Poor). These grades are considered for SEE, and CO level for SEE attainment is decided upon the percentage of students who got Excellent/Very Good/Good to the number of students appeared is used to decide the CO attainment level and is uniform for all COs. The average value of the CO levels for the course are then used for mapping the PO attainments, using the array of target PO values for the course.

**Attainment of Program Outcomes and Program Specific Outcomes:**

Direct assessment of POS and PSOS for a course is obtained by mapping the respective CO value of Course Outcome attainment with the mapping of the target or expected POS and PSOs for the particular course.

The procedure adapted for calculating the attainment of Course Outcomes for a Theory course is described with an example for the course Python Programming the CO values arrived from CIE and SEE for the course Python Programming (CS751PC) for

**Indirect Assessment Tools:**

The PO/PSOs are attained indirectly by taking different surveys. These surveys are also having equal weightages

For overall PO/PSO attainment.

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1. Program Exit Survey
2. Alumni Survey
3. Employer Feedback Survey

**Frequency of Data Collection:**

Table: Data Frequency

S.No	Assesment Tool	Frequency of data collection
1.	Program Exit Survey	Once a year
2.	Alumni Survey	Once a year
3.	Employer Feedback Survey	Once a year

**Indirect Assessment Tools:**

Alumni Survey: A feedback is collected on POS & PSOS from alumni students. It contributes towards the weight age of PO and PSO attainment. This survey is conducted by Alumni coordinator with the passed out students. Alumni coordinator collects both Alumni feedback forms filled by passed out student.

Employer Feedback Survey: A feedback is collected on Vision & Mission, PEOs, and POs & PSOS It is an indirect assessment tool which contributes towards the weightage of PO and PSOS. It is conducted after one year of service completed by the graduates from joining those respective organizations.

Program Exit Survey: The Program graduate exit survey is collected at the end of the program. The objective of the survey is to know the level of confidence of each POs & PSOS that a graduate possess by the end of the program.

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College Code: QA

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**ALUMNI SURVEY FORMAT**  
 (Indirect Assessment)

Thanking you for taking time to respond to this survey for ECE Alumni. Your ideas and opinions are very important to our programs and our efforts to continuously improve these programs. You may use available blank space at the end of our comments.

Name of the Alumni:	G. Vasantha
Year of graduation:	2024
Branch:	ECE
Present address:	H.No.3-9-149, Sriramhillaboy, LB Nagar, 500070
e-mail-ID:	Vasandhaudu@gmail.com
Present Occupation (Please send appointment letter copy to the HOD at the earliest)	Programmer in UFS

S.No	Please answer the following questions	Evaluate the following		
		Excellent 3	Good 2	Satisfactory 1
1	How effectively the engineering knowledge is helpful in your real life?	✓		
2	How far did you apply mathematical formulas and algorithmic principles to design and implement computer based system?	✓		
3	How far your studies helped you to meet the specific needs of society?		✓	
4	How far you are able to apply studies in research oriented way to investigate complex problems?	✓		
5	Did you acquire your knowledge to meet modern engineering tools and current technologies?	✓		
6	How far you are able to serve the society with your computer based knowledge?		✓	
7	How far your engineering skills did help you to sustain in global environment for carrier achievement?		✓	

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8	Did your studies inculcate the professional ethics for a successful carrier?	✓		
9	How effectively your activities in the college helped you to work in diverse teams as an individual/leader?		✓	
10	How far your efforts on academic projects helped you to meet real time presentations/documentations and enhance your over all communication skills	✓		
11	How far you have knowledge on engineering and management principles which helped you to manage the projects as leader/team?	✓		
12	How far are you ready to recognize and prepare for technological changes to sustain in real world?		✓	
13	Have you applied the advanced principles learned from academics for software developments?		✓	
14	Are you able to identify the technological developments which helps further in your carrier?	✓		

**Suggestions/Comments:**

Requested to provide more number of Industrial visits

1. Your feedback is tremendously useful to improve BRIL learning environment
2. Thank you for taking time to answer our questions. Your feedback is tremendously valuable to us

Date: 20-12-20

Vasantho  
Signature:

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## Program Level CO-PO Mapping

(A.Y. : 2023-2024)

BTECH I YEAR I SEM(A.Y.2017-2018)															
SNO	COURSE CODE	CODE	NAME	PROGRAM OUTCOMES											
				PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	MA101BS	C101	Mathematics-I	3	3	3	2	2							3
2	CH102BS	C102	Engineering Chemisty	3	3	3	2	2							2.8
3	PH103BS	C103	Engineering Physics-I	3	3	2.8	2	2.6							3
4	EN104HS	C104	Professional Communication in English	3	3		2.2	2.6			2.6	3	3		3
5	ME105ES	C105	Engineering Mechanics	2.8	2.8	2.6	1.8	1.6	1.6	1.6	2	2.6	1.4	1.4	3
6	EE106ES	C106	Basic Electrical nad Elcctronics Engineering	3	3	2	2.2	2.6	2		2.2	2	1.8		3
7	EN107HS	C107	English Language Communication Skills Lab	3	3		2.2	2.6			2.6	3	3		3
8	ME108ES	C108	Engineering Workshop	2.8	2.8		1.8	1.6	1.6	1.6	2	2.6	1.4	1.4	3
BTECH I YEAR II SEM															
SNO	COURSE CODE	CODE	NAME	PROGRAM OUTCOMES											
				PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
9	PH201BS	C110	Engineering Physics-II	3	3	c	1.6	2.4							2.8
10	MA202BS	C121	Mathematics-II	2.8	2.6	2.6	1.6	1.6							2.6
11	MA203BS	C131	Mathematics-III	2.4	2.4	2.4	1.6	1.6							2.4
12	CS204ES	C141	Computer Programming in C	2.8	2.8	2	2	2.6	2		2	2	2		2.8
13	ME205ES	C151	Enginneering Graphics	2.8	2.6	2.6	2.2	1.6	2.2	1.8	2.2	2.4	1.6	1.4	3



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14	CH206BS	C161	Engineering Chemistry Lab	2.8	2.8	2.4	1.6	1.6							2.6
15	PH207BS	C171	Engineering Physics Lab	2.6	2.6	2.6	1.8	2.4							2.6
16	CS208ES	C181	Computer Programming in C Lab	2.8	2.8	2.2	2.2	2.6	2		2	2	2		2.8
<b>BTECH II YEAR I SEM (AY.2023-2024)</b>															
17	MA301BS	C211	Mathematics – IV	2.4	2.4	2.4	1.6	1.6							2.4
18	CS302ES	C212	Data Structures through C++	2.8	2.8	2.8	2.2	2	2.4	2.4		2	2	2.2	3
19	CS303ES	C213	Mathematical Foundations of Computer Science	2.4	3	2.6			1.4	1.2			1.6		1.6
20	CS304ES	C214	Digital Logic Design	2.8	2.7	2.6		2		2.4			2.4		2.6
21	CS305ES	C215	Object Oriented Programming through Java	3	3	2.4	2.2	2.2	2	2		1	1.6		2
22	CS306ES	C216	Data Structures through C++ Lab	3	2	2.5	2								
23	CS307ES	C217	IT Workshop	1.8	2	2.2	1.8	2				2	2	1.6	1.8
24	CS308ES	C218	Object Oriented Programming through Java Lab	2.4	2.4	1.3	1.8	2				1.8	2	2.4	1.67
<b>BTECH II YEAR II SEM</b>															
25	CS401BS	C221	Computer Organization	3	2.2	2.4	2.2	2	2	2		2.2	2		
26	CS402ES	C222	Database Management Systems	2.4	2.2	2	2.4	2	2.2			2.4	2.8		2
27	CS403ES	C223	Operating Systems	2.2	2.2	2.2	2.4	1.8	2.2	1.8		2.6	2		2
28	CS404ES	C224	Formal Languages and Automata Theory	2.4	2.2	2	2	2				2			2

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29	SM405MS	C225	Business Economics and Financial Analysis	1	1	2	1	2	2	2	3	3	2	1	2
30	CS406ES	C226	Computer Organization Lab	2.8	2	2.8									2.6
31	CS407ES	C227	Database Management Systems Lab	2.2	2.2	2.2	2.3	2.33					1.8		
32	CS408ES	C228	Operating Systems Lab	2	2	3	2					2	2.2		
<b>BTECH III YEAR I SEM(AY.2023-2024)</b>															
33	CS501PC	C321	Design and Analysis of Algorithms	2.6	2.4	2.2	2.4	2.6				2.4	2.6		2.2
34	CS502PC	C322	Data Communication and Computer Networks	2.6	2.8	2.6						2.4	2.4	2.2	2.6
35	CS503PC	C323	Software Engineering	2.6	2.6	2.4	2.6	2.5	1.8		2.5	2.6		2.6	2.5
36	SM504MS	C324	Fundamentals of Management	1.0	1.0	2.0	1.0	2.0	2.0	2.0	3.0	3.0	2.0	1.0	2.0
37	ME512OE	C325	Computer Graphics	2.5	2.3	2.3	2.3	2.3				2.0	2.0	2.5	2.3
38	CS505PC	C326	Design and Analysis of Algorithms Lab	2.6	2.2	2.8	2.4	2.6				2.4	2.6		2.2
39	CS506PC	C327	Computer Networks Lab	2.8	2.4	2.8	2.2	2.0				2.6	2.6	2.2	2.0
40	CS507PC	C328	Software Engineering Lab	2.6	2.6	2.4	2.6	2.5	1.8		2.5	2.6		2.6	2.5
<b>BTECH III YEAR II SEM</b>															
41	CS601PC	C422	Compiler Design	3	3	3	3	3				2	2.4	2.4	2.6
42	CS602PC	C423	Web Technologies	2.4	2.4	2.2		2.8				2.2	2.2		
43	CS603PC	C424	Cryptography and Network Security	2.4	2	2	2	2	2			1			2
44	ME622OE	C425	Fundamentals of Robotics	2.6	2	2	2					2.4			2.2

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45	CS612PE	C426	Design Patterns	2.6	2.2	2	2	2							
46	CS604PC	C427	Cryptography and Network Security Lab	2.2	2	2	2	2							2
47	CS605PC	C428	Web Technologies Lab	2.6	2.2	2.4	2.6					2.4			2.4
48	EN606HS	C429	Advanced English Communication Skills Lab	3	3										
<b>BTECH IV YEAR I SEM(2023-2024)</b>															
49	CS701PC	C521	Data Mining	1.5	2.2	2.06	2.06				1.5	0			2.25
50	CS702PC	C522	Principles of Programming Languages	1.5	1.3	1.4	1.4	1.3	1.1				1.5	1.5	1.3
51	CS721PE	C523	Python Programming	2.1	2.1	2..1	1.95	2.1				2.25	1.95		1.8
52	CS732PE	C524	Distributed Systems	1.5	1.5	1.5	1.5					1.3	1.5		
53	CS742PE	C525	Cloud Computing	2	2	3	2.6	3							
54	CS703PC	C526	Data Mining Lab	2.4	2	2.2	2.25	2.6	2	2	2	2.6		2	3
55	CS751PC	C527	Python Programming Lab	2	2.2	2.4	2.2	2.2							
56	CS705PC	C528	Industry Oriented Mini Project	2.3	2	3		2	2			2	3	2	
57	CS706PC	C529	Seminar	2	2		2.3	2					2		

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BTECH IV YEAR II SEM															
58	EE833OE	C631	Organizational Behaviors	1	1	2	1	2	2	2	3	3	2	1	2
59	CS852PE	C632	Real-Time Systems	2.5	2.2	3	2.3	2	1						
60	CS862PE	C633	Web Services and Service Oriented Architecture	2.25	2.2	2.25		2.1		1.95		1.05		1.95	2.1
61	CS801PC	C634	Major Project	2.3	2	3		2	2			2	3	2	
Average				2.42	2.32	2.38	2.39	2.08	1.79	1.78	2.76	2.58	1.78	2.19	2.79

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## PO ATTAINMENT LEVEL (2023-2024)

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment (Average)	2.42	2.32	2.38	2.39	2.08	1.79	1.78	2.76	2.58	1.78	2.19	2.79
Direct Attainment (80%Average)	1.936	1.856	1.904	1.912	1.664	1.432	1.424	2.208	2.064	1.424	1.752	2.232
Indirect Attainment	2.92	2.89	2.95	2.89	2.96	2.95	2.75	2.81	2.85	2.77	2.86	2.91
Indirect Attainment (20%)	0.58	0.57	0.59	0.57	0.59	0.59	0.55	0.56	0.57	0.55	0.57	0.58
Overall PO attainment (80+20)	2.516	2.426	2.494	2.482	2.254	2.022	1.974	2.768	2.634	1.974	2.322	2.812

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S.No	CODE	Name	PSO		
			PSO1	PSO2	PSO3
<b>B.TECH I YEAR</b>					
1	C101	Mathematics-I	1.6	2	-
2	C102	Engineering Chemisty	2	2	-
3	C103	Engineering Physics-I	2	2	-
4	C104	Professional Communication in English	1.6	1.6	1.6
5	C105	Engineering Mechanics	1.6	1.6	1.2
6	C106	Basic Electrical nad Elcectronics Engineering	1.6	1.6	1.6
7	C107	English Language Communication Skills Lab	1.6	1.6	1.6
8	C108	Engineering Workshop	1.6	1.6	-
9	C110	Engineering Physics-II	1.6	1.6	-
10	C121	Mathematics-II	1.6	2	1.4
11	C131	Mathematics-III	1.6	1.6	1.6
12	C141	Computer Programming in C	1.6	1.6	3
13	C151	Enginneering Graphics	2	1.8	2.2
14	C161	Engieerning Cheistry Lab	2	2.4	1.6
15	C171	Engineering Physics Lab	2	2	
16	C181	Computer Programming in C Lab	1.8	1.8	3
<b>B.TECH II YEAR</b>					
17	C211	Mathematics – IV	1.6	1.6	1.6
18	C212	Data Structures through C++	2.2	2.6	3
19	C213	Mathematical Foundations of Computer Science	1.8	1.8	-
20	C214	Digital Logic Design	2.2	2.4	2.8

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21	C215	Object Oriented Programming through Java	2.85	2.4	3
22	C216	Data Structures through C++ Lab	1.8		2
23	C217	IT Workshop	2.6	2.4	2.6
24	C218	Object Oriented Programming through Java Lab	2.2	2.4	2.6
26	C221	Computer Organization	2.8	2.6	2
27	C222	Database Management Systems	2.2	2.8	2.2
28	C223	Operating Systems	2.6	2.6	2.4
29	C224	Formal Languages and Automata Theory	2.8	2.5	
30	C225	Business Economics and Financial Analysis	2	3	3
31	C226	Computer Organization Lab	2.4	2	2.2
32	C227	Database Management Systems Lab	2.4	2.6	2
33	C228	Operating Systems Lab	2.2	2.4	2.6
		<b>B.TECH III YEAR</b>	2.8	2.4	3.0
35	C321	Design and Analysis of Algorithms	2.6	2.4	2.6
36	C322	Data Communication and Computer Networks	2.6	3	2.6
37	C323	Software Engineering	2	3	3
38	C324	Fundamentals of Management	2.5	2	2.8
39	C325	Computer Graphics	2.2	2.2	2.8
40	C326	Design and Analysis of Algorithms Lab	2.6	2.2	2.8
41	C327	Computer Networks Lab	2.6	2.2	2.0
42	C328	Software Engineering Lab	2.6	3	2.6
44	C422	Compiler Design	2.8	2.4	2.2
45	C423	Web Technologies	3	2.2	2.4
46	C424	Cryptography and Network Security	2.2	2	2
47	C425	Fundamentals of Robotics	2	2.2	2

  
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48	C426	Design Patterns	2.6	2.4	3
49	C427	Cryptography and Network Security Lab	2.8	2.4	2.2
50	C428	Web Technologies Lab	3	2.4	2.8
51	C429	Advanced English Communication Skills Lab	3	-	-
<b>B.TECH IVYEAR</b>					
52	C521	Data Mining	2.1	2.25	2.25
53	C522	Principles of Programming Languages	1.3	1.5	1.5
54	C523	Python Programming	1.65	1.95	2.25
55	C524	Distributed Systems	1.5	1.4	1.3
56	C525	Cloud Computing	3	3	3
57	C526	Data Mining Lab	2.4	2.2	2
58	C527	Python Programming Lab	2.2	2	2
59	C528	Industry Oriented Mini Project	2.3	2.2	2.5
60	C529	Seminar	2.5	2.5	2.5
61	C631	Organizational Behaviours	2	3	3
62	C632	Real-Time Systems	2	2.6	2.25
63	C633	Web Services and Service Oriented Architecture	2.1	2.1	
64	C634	Major Project	2	2	-
<b>AVERAGE</b>			<b>1.8</b>	<b>2.8</b>	<b>2.4</b>

  
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PSO ATTAINMENT LEVEL(2023-2024)			
COURSE	PSO1	PSO2	PSO3
Direct Attainment (Average)	1.8	2.8	2.4
Direct attainment (80% of Avg)	1.4	2.2	1.9
Indirect Attainment	2.92	2.93	2.91
Indirect Attainment (20%)	0.5	0.5	0.5
Overall PO Attainment (80+20)	1.9	2.7	2.4

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