



College Code: QA

BRILLIANT INSTITUTE OF ENGINEERING & TECHNOLOGY

(Sponsored by: Brilliant Grammar School Educational Society)

(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, e-mail: principal@b-iet.ac.in Contact No.: +919652929786

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

S.NO	Subject	Page No.
1	Display Material of Vision, Mission, COs, POs and PEOs	2
2	Attainment Procedure of POs and COs with Sample data	11
3	Sample CO-PO attainment of an Academic Year	39
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Study Report of Brilliant Institute of Engineering and Technology


PRINCIPAL
BRILLIANT INSTITUTE OF
ENGINEERING AND TECHNOLOGY
VIII & Mdl: Abdullapurmet, R.R Dist-501 505.



College Code: QA

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The photograph shows a wall with a poster for Brilliant Institute of Engineering & Technology. The poster contains the following text:

BRILLIANT INSTITUTE OF ENGINEERING & TECHNOLOGY
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Website: www.b-iet.ac.in, e-mail: principal@b-iet.ac.in Contact No.: +919652929786

INSTITUTE VISION
To produce technically competent socially committed Technocrats, prosper captaincy and bureaucrats through Quality academics and research.

INSTITUTE MISSION

01. To create advanced facilities of teaching and Practical training to the UG & PG students.
02. To inculcate facilities in the arena of research & development.
03. To develop technical manpower through Interactive communication, training, short-term Courses, seminars, group discussions, Mock-interviews, etc.
04. To initiate the collaborative real life Industrial Projects with nearby industries and academic Institutions.

QUALITY POLICY
We at brilliant institute of engineering & technology Endeavor to uphold in all aspects by adopting best Practices in effort and effect.

Below the poster is a GPS Map Camera overlay showing a satellite view of the location. The overlay includes the text:

GPS Map Camera
Rangareddy, Telangana, India
BRILLIANT INSTITUTE OF ENGINEERING AND TECHNOLOGY
Telangana 501512, India
Lat 17.304811°
Long 78.704765°
17/08/21 10:12 AM GMT +05:30

PRINCIPAL
BRILLIANT INSTITUTE OF
ENGINEERING AND TECHNOLOGY
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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

MISSION
→ Impart quality education in fundamentals of basic sciences, mathematics, electronics and communication engineering through innovative teaching-learning processes.
→ To encourage creative thinking through innovative and group work exercises which enhances the entrepreneur skills, employability and research capabilities.

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Home About Us Programs Offered Facilities Academics Exam Results Scholarships Administration Placements R & D RTI IQAC NAAC Feedback Careers Contact Us

Department of Mechanical Engineering

Services of Department to Visit

Mechanical Dept Program Outcomes

- **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem Analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/Development of Solutions:** Design solutions for complex engineering problems and design systems/components/processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.
- **Conduct Investigations of Complex Problems:** 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.
- **Modern Tool Usage:** 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.
- **The Engineer and Society:** 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.
- **Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and Team Work:** Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.

Department Contact Details

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Dr. M. NAGARJUNA
M.Tech, Ph.D.
Phone: +91 97056 31233
Email: nagarjuna@b-iet.ac.in

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Placements: placements@b-iet.ac.in
Career: career@b-iet.ac.in

Important Phone Numbers

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Placements: +91 965 134 0825

Quick Links

Admission
Library
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Careers

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BLOOM'S TAXONOMY DIGITAL PLANNING VERBS

KNOWLEDGE	UNDERSTANDING	APPLYING	ANALYZING	EVALUATING	CREATING
Copying Defining Finding Listing Quoting Labeling Grouping Repeating Predicting Ordering Highlighting Marking Numbering Selecting Identifying Tabulating Duplicating Matching Recommending	Annotating Twisting Analogizing Tagging Summarizing Relating Categorizing Paraphrasing Predicting Comparing Contrasting Classifying Journaling Interpreting Grouping Inferring Estimating Extending Gathering Exemplifying	Acting Out Articulate Reacting Loading Choosing Determining Displaying Judging Examining Implementing Sketching Experimenting Hacking Interviewing Painting Preparing Playing Integrating Presenting	Comparing Contrasting Classifying Categorizing Analyzing Synthesizing Evaluating Predicting Ordering Highlighting Marking Numbering Selecting Identifying Tabulating Duplicating Matching Recommending	Arguing Validating Testing Assessing Classifying Comparing Contrasting Classifying Categorizing Analyzing Synthesizing Evaluating Predicting Ordering Highlighting Marking Numbering Selecting Identifying Tabulating Duplicating Matching Recommending	Bloggng Building Animating Adapting Collaborating Composing Directing Devising Podcasting With Building Writing Filming Programing Storyboarding Role Playing Solving Creating Inventing Designing Constructing Producing Performing Presenting Publishing Recording Communicating Lecturing

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Google

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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.

GPS Map Camera

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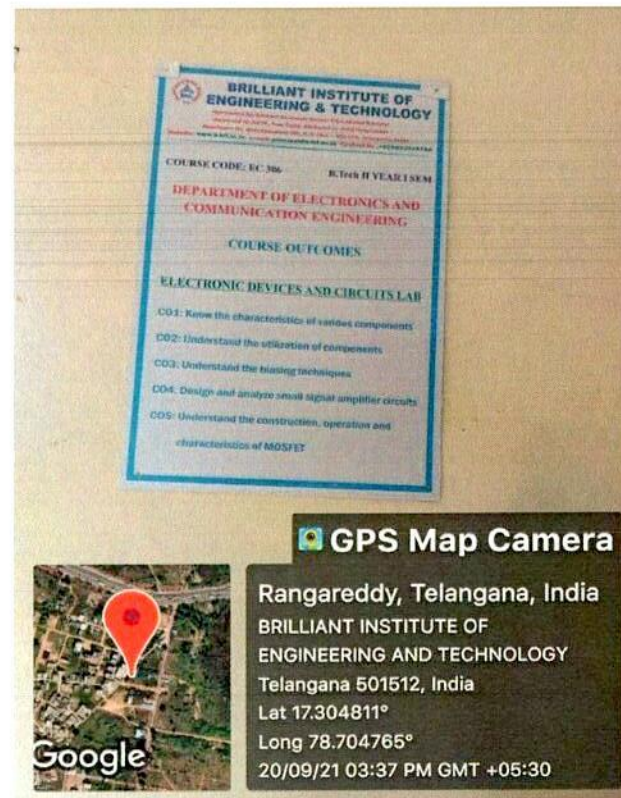
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Website: www.b-iet.ac.in, e-mail: principal@b-iet.ac.in Contact No.: +919652929786**ATTAINMENT OF COURSE OUTCOMES****Tools used for assessment:**

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	$0.25 \times \text{CIE Level} + 0.75 \times \text{SEE Level}$
Laboratory	25	75	100	$0.25 \times \text{CIE Level} + 0.75 \times \text{SEE Level}$
Seminar	100	-	100	CIE Level
Industrial oriented Mini Project/Summer internship	25	75	100	$0.25 \times \text{CIE Level} + 0.75 \times \text{SEE Level}$
Project stage -I	100	-	100	CIE Level
Project stage -II	25	75	100	$0.25 \times \text{CIE Level} + 0.75 \times \text{SEE Level}$
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

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% 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

- 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	Corresponging 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

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➤ 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:		2021-22	
Branch & Section:		ECE		Exam:		MID - I	
Course:		LICA		Year/Semister:		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


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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		7	5
29	20QA1A0429	4		5		8	5
30	20QA1A0430	5		4		5	5
31	20QA1A0431		3		3	6	5
32	20QA1A0432		2	3		2	5
33	20QA1A0433	5			5	6	5
34	20QA1A0434		2		3	2	5
35	20QA1A0435	5		5		10	5
36	20QA1A0436		3	2		2	5
37	20QA1A0437			5	4	6	5
38	20QA1A0438	4	5			7	5
39	20QA1A0439		2	3		2	5
40	20QA1A0440	5			5	9	5
41	20QA1A0441			3	4	10	5


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42	20QA1A0442		5	5		5	5
43	20QA1A0443			5	5	7	5
44	20QA1A0444	5		4		7	5
45	20QA1A0445			5	5	10	5
46	20QA1A0446		3		5	10	5
47	21QA5A0401		2	3		2	5
48	21QA5A0402		4	5		5	5
49	21QA5A0403			2	2	3	5
50	21QA5A0404	3	3			4	5
51	21QA5A0405			5	5	10	5
52	21QA5A0406	5		3		4	5
53	21QA5A0407		2	3		2	5
54	21QA5A0408	3			2	2	5
55	21QA5A0409		4		4	6	5
56	21QA5A0410			2	3	2	5
57	21QA5A0411		2	2		3	5
58	21QA5A0412	3	1			3	5
59	21QA5A0413		2	3		2	5
60	21QA5A0414	4			1	2	5
61	21QA5A0415		2		2	3	5
62	21QA5A0416	2	2			3	5
63	21QA5A0417			2	3	6	5
64	21QA5A0418			4	5	7	5
65	21QA5A0419		2	2		3	5
66	21QA5A0420	5			4	4	5


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67	21QA5A0421		1		4	4	5
68	21QA5A0422	2		5		7	5
69	21QA5A0423		3		4	6	5
70	21QA5A0424	3	3			7	5
71	21QA5A0425		2	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

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


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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						

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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	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	-	-	--	-


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Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		L.Praveen Kumar		Academic Year:		2021-22	
Branch & Section:		ECE		Exam:		MID - II	
Course:		LICA		Year/Semister:		II/II	
Sl.No	Roll Number	Question No.				Objective	Assignment
		1	2	3	4		
Maximum Marks		5	5	5	5	10	5
1	20QA1A0401		5	5		7	5
2	20QA1A0402		5	5		8	5
3	20QA1A0403		3	2		4	5
4	20QA1A0404		2	2		3	5
5	20QA1A0405			4	4	6	5
6	20QA1A0406			2	2	3	5
7	20QA1A0407	2		2		3	5
8	20QA1A0408	4	4			5	5
9	20QA1A0409	5			5	4	5
10	20QA1A0410	5		5		9	5
11	20QA1A0411		4	4		9	5
12	20QA1A0412		5		5	5	5
13	20QA1A0413	5		5		10	5
14	20QA1A0414			4	5	6	5

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15	20QA1A0415		4		4	7	5
16	20QA1A0416		5	5		10	5
17	20QA1A0417		3	2		2	5
18	20QA1A0418		3	3		9	5
19	20QA1A0419			5	5	10	5
20	20QA1A0420		4	4		7	5
21	20QA1A0421	2		2		3	5
22	20QA1A0422	5		5		10	5
23	20QA1A0423	1		2		4	5
24	20QA1A0424	5		5		7	5
25	20QA1A0425	5		4		5	5
26	20QA1A0426	5			5	10	5
27	20QA1A0427		2		2	3	5
28	20QA1A0428	3	4			7	5
29	20QA1A0429	5		5		7	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	3	5

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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		5		7	5
56	21QA5A0410		5		5	8	5
57	21QA5A0411			2	2	3	5
58	21QA5A0412		5		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			5	10	5

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65	21QA5A0419			2	2	3	5
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


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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

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


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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	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

Course Outcome Attainment External Examination

Name of the Faculty:	L.Praveen Kumar	Academic Year:	2021-22
Branch & Section:	ECE	Exam:	EXTERNAL
Course:	LICA	Year/Semister:	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	


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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


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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


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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
68	21QA5A0425	66
69	21QA5A0426	64
70	21QA5A0427	63
71	21QA5A0428	67
No. of students who attempted the subject		71
Max. Marks		75
Threshold 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


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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:

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:



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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.

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


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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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ALUMNI SURVEY FORMAT

(Indirect Assessment)

Thanking you for taking time to respond to this survey for I.C.E. 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 for comments.

Name of the Alumni:	Daseju Savya
Year of Graduation:	2021
Branch:	Electronics and Communication Engineering
Present address:	H.No. 16-A-440/111, Saidabad, Hyd. Pin - 500059
Email-ID:	Savya0411@gmail.com
Present Occupation/Please Send appointment letter copy to the HOD at the earliest	Survey programme

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?		✓	

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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 career achievement?	✓		
8	Did your studies inculcate the professional ethics for a successful career?		✓	
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 overall communication skills?	✓		
11	How far you have knowledge on engineering and management principles which helped you to manage the projects as a 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 learnt from academics for software development?			✓
14	Are you able to identify the technological development which helps further in your career?	✓		


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Suggestion/Comments:

Requested to provide more no. of
industrial visits

1. Your feedback is tremendously useful to improve BRIL learning environment

2. Thank you for taking time to answer our question. Your feedback is tremendously valuable to us.

Date: 16/02/22

Signature:

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FEEDBACK FROM EMPLOYER

Our Institute is following outcome base education. The assessment of the outcome has to be through a survey. The following questions need your valued consideration. Please spend time in answering them.

Employee Name: Inaganli Revathi
Mailing Address: inaganli.revathi@concentrix.com

S.No	Please answer the following Questions	POs & PSOs	Evaluate the following		
			Excellent 3	Good 2	Satisfactory 1
1	How do you find our students in applying the knowledge of maths, science in the solution of complying engineering problems	PO1: Engineering Knowledge		<input checked="" type="checkbox"/>	
		PO2: Problem Analysis		<input checked="" type="checkbox"/>	
		PO3: Development of Solution	<input checked="" type="checkbox"/>		
		PO4: Investigations of Complex Problem		<input checked="" type="checkbox"/>	
		PO5: Modern Tools Usage	<input checked="" type="checkbox"/>		
		PO6: Engineer & Society		<input checked="" type="checkbox"/>	
2	How capable are our students to learn new skills	PO7: Environment & Sustainability		<input checked="" type="checkbox"/>	
3	How do you rate our students with respect to their ethical and moral values	PO8: Ethics	<input checked="" type="checkbox"/>		
4	How do you rate our students with respect to individual and team work	PO9: Individual & Teamwork		<input checked="" type="checkbox"/>	
5	How do you rate our students with respect to communication skills	PO10: Communication		<input checked="" type="checkbox"/>	
6	How capable are our students in managing the give task	PO11: Finance & Project Management	<input checked="" type="checkbox"/>		
7	How do you find our curriculum with respect to industry	PO12: Life Long Learning	<input checked="" type="checkbox"/>		
8	How do you rate our students capabilities in developing new apps	PSO1: Expertise on the contemporary skills towards development of innovative apps and firmware products		<input checked="" type="checkbox"/>	
9	How do our students in giving in solution to problems with varying complexities	PSO2: Capable to participate the construction of software systems of varying complexity	<input checked="" type="checkbox"/>		


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Suggestion/Comment:

The college is really cares about it's members. It is a place of civility & good cheer.

1. Your feedback is tremendously useful to improve BRIL learning environment

2. Thank you for taking time to answer our question. Your feedback is tremendously valuable to us.

Date: 16/2/2020

Signature:

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STUDENT-EXIT FEEDBACK

Half Ticket No	1809100482
Name of the student	D. SUMANTH
Phone Number	9381323741
Email ID	devavathasumanth@gmail.com

Please answer the questions below to help the authorities for improving the methodology of teaching learning process. Tick mark against appropriate the block.

Please answer the following Questions	Evaluate the following		
	Excellent 3	Good 2	Satisfactory 1
1) Can You apply the basic principles of mathematics, science and engineering to solve the complex engineering problems?		✓	
2) How effectively do you analyze the problems of engineering?		✓	
3) Can you design solutions for complex problems from your academic knowledge for sustainable growth?	✓		
4) How far you are able to investigate a problem by utilizing research based knowledge and methods which you have learnt from academics in research oriented way.		✓	
5) Have you learnt about current technologies and modern engineering tools?	✓		
6) Can you serve the society with your knowledge achieved from your studies?		✓	
7) Have you learnt any basic skills to survive in the society?	✓		
8) Have you come to know ethical values from academics?		✓	

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9) Will your efforts in academic projects help you out to work in diverse teams?	✓		
10) How far your academics helped you to enhance your communication skills?		✓	
11) How did you demonstrate and apply the knowledge acquired from your academics at the time of project documentation and implementation?		✓	
12) Can you learn independently throughout your life for career development?	✓		
13) Have you learnt to develop software for quality products independently / as a group applying modified engineering principles?		✓	
14) Did your academics give you enough knowledge to write competitive exams for successful career?		✓	

Your feedback is valuable, which will lead to achieve further improvement in the system

Write a few words about college environment that made you graduate engineering

Our college gives us the best chance of getting a job after graduation, it also teaches us how the can solve the problems

Date: 14/12/22

Signature

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Program Level CO-PO Mapping

(A.Y. : 2017-2022)

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
BTECH II YEAR I SEM (AY.2018-2019)															
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
BTECH II YEAR II SEM															
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



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28	CS404ES	C224	Formal Languages and Automata Theory	2.4	2.2	2	2	2				2			2
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		
BTECH III YEAR I SEM (AY.2019-2020)															
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
BTECH III YEAR II SEM															
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



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44	ME622OE	C425	Fundamentals of Robotics	2.6	2	2	2					2.4			2.2
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										
BTECH IV YEAR I SEM(2021-2022)															
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	1.3
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		
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						



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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 (2017-2022)

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.TECH I YEAR					
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 Elcelectronics 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.TECH II YEAR					
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	1.8	1.8	-


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Vill & Md: Abdullapurmet, R.R Dist-501505



BRILLIANT INSTITUTE OF ENGINEERING & TECHNOLOGY

College Code: QA


(Sponsored by: Brilliant Grammar School Educational Society)

(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, e-mail: principal@b-iet.ac.in Contact No.: +919652929786

		Computer Science			
20	C214	Digital Logic Design	2.2	2.4	2.8
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.TECH III YEAR	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


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46	C424	Cryptography and Network Security	2.2	2	2
47	C425	Fundamentals of Robotics	2	2.2	2
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.TECH IVYEAR					
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	-
AVERAGE			1.8	2.8	2.4

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PSO ATTAINMENT LEVEL(2017-2018)			
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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