



SIDDHARTHA

College Code -TP

INSTITUTE OF ENGINEERING & TECHNOLOGY

(Accredited by NBA, Approved by AICTE & Affiliated to JNTU)
Vinobha Nagar, Ibrahimpatnam, Ranga Reddy Dist – 501 506, Telangana, INDIA.
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2.6.2 Attainment of Program outcomes and course outcomes are evaluated by the institution.

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ATTAINMENT OF COURSE OUTCOMES

Assessment Process adopted for attainment of course outcomes for various courses:

Tools used for assessment:

Marks allocation by University: The division of marks given by university, and weightages 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: Weightage of Marks for CIE: SEE

Type of Course	Internal Marks(CIE)	External Marks(SEE)	Total Marks	Net CO attainment level as per weightage
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 the candidate, Letter grades are awarded as shown below and corresponding Grade Points are also shown in table

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or 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
50 and 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


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For attainment of course outcomes

- Final Letter grades obtained by each student in the course are made available by university.
- These Letter grades must be converted to marks as shown 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 each assessment tool is shown in a table.

Assessment Tool	Frequency
University Examination	once a semester
Mid Examination	twice a semester
Assignments	twice a semester
Internal/External Lab Examination	once a semester

Table: Data Frequency


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Attainment of CO's for Theory Courses:

Attainment of theory courses calculated based on student performance in Continuous Internal Evaluation (CIE) and Semester End Examination (SEE)

$$\text{Overall CO attainment} = 0.25 * \text{CIE Level} + 0.75 * \text{SEE Level}$$

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 Programming

Table: Mid-I Internal Examination Attainment

Sl.No	Roll Number	Question No.				Objective	Assignment
		1	2	3	4		
Maximum Marks		5	5	5	5	10	5
1	13TP1A0547			2.5	2.5	7	5
2	15J11A0540		5		4.5	9.5	5
3	15TP1A0583	5			4.5	8	5
13	17J11A0503	2	5			9	5
14	17J11A0504	5	5			9.5	5
15	17J11A0506	5	5			9.5	4
73	17TP1A0571			2	3	9	5
74	17TP1A0572	5	5			10	5
No. of students attempted		75	69	43	38	115	115
Max Marks Question wise		5	5	5	5	10	5
Threshold 55%		2.75	2.75	2.75	2.75	5.5	2.75
No. of Students above threshold		71	68	36	34	111	115
% of Students > Target Score		94.67	98.56	83.73	89.48	96.53	100
Attainment Level		3	3	3	3	3	3
Attainment Level 1:						60% students score more than threshold	
Attainment Level 2:						70% students score more than threshold	
Attainment Level 3:						80% students score more than threshold	

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	3	3	3
Course outcome - 2	3	3	3	3
Course outcome - 3			3	3
Course outcome - 4				
Course outcome - 5				


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Table: Mid-2 Internal Examination Attainment

Sl.No	Roll Number	Question No.				Objective	Assignment
		1	2	3	4		
Maximum Marks		5	5	5	5	10	5
1	13TP1A0547			3.5	1.5	6	5
2	15J11A0540			4	2	6	5
3	15TP1A0583	5	5			7.5	5
4	16J11A0501	2	2			5	5
5	16J11A0517	5			4	8.5	5
6	16J11A0539	4		3		9.5	5
73	17TP1A0571				2.5	8	5
74	17TP1A0572	5	5			8	5
75	17TP1A0573	5	2			8	5
No. of students attempted		108	71	20	28	115	115
Max Marks Question wise		5	5	5	5	10	5
Threshold 55%		2.75	2.75	2.75	2.75	5.5	2.75
No. of Students above threshold		104	55	10	22	108	115
% of Students > Target Score		96.3	77.47	50	78.58	93.92	100
Attainment Level		3	2	1	2	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	3	3	3
Course outcome - 4	2	3	3	3
Course outcome - 5	1	3	3	2



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External Examination Attainment

S.NO.	HALLTICKET NO	TOTAL (Max. Score:75)
1	17J11A0506	34
2	17J11A0511	27
3	17TP1A0501	26
4	17TP1A0502	26
5	17TP1A0505	30
14	17TP1A0516	6
15	17TP1A0517	31
16	17TP1A0519	32
17	17TP1A0521	34
18	17TP1A0523	18
94	18TP5A0510	30
95	18TP5A0511	12
No. of students who attempted the subject		94
Max. Marks		75
Thresold 40%		30
No. of students who scored more than the target score		66
Percentage of students who scored more than target score		70.21
Overall External Attainment level		2

Table: Overall Attainment for Python Programming(CS751PC)

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal (Avg.)	University Exam	Overall Attainment
Course outcome - 1	3		3	2	2.25
Course outcome - 2	3		3	2	2.25
Course outcome - 3	3	3	3	2	2.25
Course outcome - 4		3	3	2	2.25
Course outcome - 5		2	2	2	2

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



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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.

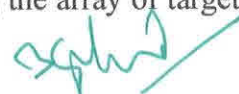
d) Project:

Continuous Internal Evaluation:

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.



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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 academic year 2020-21 is

Table: CO values of Python Programming

CS751PC	CO1	CO2	CO3	CO4	CO5
	2.25	2.25	2.25	2.25	2

The Mapping POs for particular COs for the course CS751PC are given below

Table: CO-PO Mapping of CS751PC course

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	1	3	3	3	2	1	-	-	-	3	3	3	3
CO2	1	1	3	2	3	2	2	-	-	-	3	3	3	3
CO3	1	1	3	2	2	2	2	-	-	-	3	3	3	3
CO4	2	2	3	3	2	2	2	-	-	-	3	3	3	3
CO5	2	2	3	2	2	2	2	-	-	-	3	3	2	2
Avg.	1.4	1.4	3	2.4	2.4	2	1.8	-	-	-	3	3	2.8	2.8

Mapping value for combination of CO1-PO1 is 1.

Then the attainment value is $2.25 \times 1/3 = 0.75$

Mapping value for combination of CO2-PO4 is 2.

Then the attainment value is $2.25 \times 2/3 = 1.50$

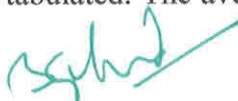
Other POs are mapped similarly.

The Complete PO Attainment mapping for the course CS751PC is shown below.

Table: PO Attainment from Course Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	0.75	0.75	2.25	2.25	2.25	1.50	0.75	-	-	-	2.25	2.25	2.25	2.25
CO2	0.75	0.75	2.25	1.50	2.25	1.50	1.50	-	-	-	2.25	2.25	2.25	2.25
CO3	0.75	0.75	2.25	1.50	1.50	1.50	1.50	-	-	-	2.25	2.25	2.25	2.25
CO4	1.50	1.50	2.25	2.25	1.50	1.50	1.50	-	-	-	2.25	2.25	2.25	2.25
CO5	1.33	1.33	2.00	1.33	1.33	1.33	1.33	-	-	-	2.00	2.00	1.33	1.33
Avg.	1.02	1.02	2.20	1.77	1.77	1.47	1.32	-	-	-	2.20	2.20	2.07	2.07

The PO/PSO attainment values so obtained from their direct component for the course. The direct components for all the courses are obtained similarly and tabulated. The average for each PO/PSO gives the values attained directly.


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Indirect Component:

The PO/PSOs are attained indirectly by taking different surveys. These surveys are also having equal weightage for Overall PO/PSO attainment.

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

Frequency of Data Collection:**Table: Data frequency**

Assessment Tool	Frequency of data collection
Program Exit Survey	once a year
Employer Survey	once a year
Alumni Survey	once a year

Indirect Assessment Tools:

- **Alumni Survey:** A feedback is collected on POs & PSOs from alumni students. It contributes towards the weightage 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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SIET/CSE/C3/P29/2018-19

FEEDBACK FROM ALUMNI

Thanking you for taking time to respond to this survey for CSE 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.

Alumni Name	Bobdli Mamatha (12TP/A0506)
Year of Graduation	2017
Branch	CSE
Present Address	
Email-ID	
Present Occupation (Please send appointment letter copy to the HOD at the earliest)	
Whether undergone higher education: Yes/No (If Yes, please send Admission details at the earliest)	

Please answer the following questions	Evaluate on following scale:		
	Excellent 3	Good 2	Satisfactory 1
1) How effectively the engineering knowledge is helpful in your real life?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>
2) How far did you apply mathematical formulas and algorithmic principles to design and implement computer based system?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>
3) How far your studies helped you to meet the specific needs of society?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>
4) How far you are able to apply studies in research oriented way to investigate complex problems?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>
5) Did you acquire your knowledge to meet modern engineering tools and current technologies?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>

(Signature)

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6) How far you are able to serve the society with your computer based knowledge?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>
7) How far your engineering skills did help you to sustain in global environment for career achievement?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>
8) Did your studies inculcate the professional ethics for a successful career?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>
9) How effectively your activities in the college helped you to work in diverse teams as an individual/leader?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>
10) How far your efforts on academic projects helped you to meet real time presentations/documentations and enhance your overall communication skills?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>
11) How far you have knowledge on engineering and management principles which helped you to manage the projects as a leader/team?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>
12) How far are you ready to recognize and prepare for technological changes to sustain in real world?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>
13) Have you applied the advanced principles learnt from academics for software development?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>
14) Are you able to identify the technological development which helps further in your career?	3 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>

Suggestion / Comments:

- Your feedback is tremendously useful to improve SIET learning environment.
- Thank you for taking the time to answer our questions. Your feedback is tremendously valuable to us.

Date: 24/5/19

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:	concentrix
Mailing Address:	

Please answer the following questions	POs & PSOs	Evaluate on following scale:		
		Excellent	Good	Satisfactory
		3	2	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	✓		
	PO2:Problem Analysis	✓		
	PO3:Delopment of Solution	✓		
	PO4:Investigations of Complex Problem	✓		
	PO5:Modern Tools Usage	✓		
	PO6: Engineer & Society		✓	
2) How capable are our students to learn new skills	PO7: Environment & Sustainability		✓	
3) How do you rate our students with respect to their ethical and moral values	PO8: Ethics		✓	
4) How do you rate our students with respect to individual and team work	PO9: Individual & Teamwork	✓		
5) How do you rate our students with respect to communication skills	PO10: Communication		✓	
6) How capable are our students in managing the give task	PO11: Finance & Project Management	✓		
7) How do you find our curriculum with respect to industry	PO12: LifeLong Learning	✓		
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	✓		
9) How do you rate our students in giving solution to problems with varying complexities	PSO2: Capable to participate in the construction of software systems of varying complexity.		✓	

Suggestion / Comments:

Your feedback is tremendously useful to improve SIEI learning environment.

➤ Thank you for taking the time to answer our questions. Your feedback is tremendously valuable to us.

Date: 27/01/2019

Signature: Manogna

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STUDENT-EXIT FEEDBACK

SIET/CSE/C3/P29/18-19

Regd. No.	15TP1A0521
Name of the Student	Kenchugundu Arun Kumar
Program Name	
Phone number	
Email-ID	

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

Please answer the following questions	Evaluate on following scale:		
	Excellent 3	Good 2	Satisfactory 1
1) Can You apply the basic principles of mathematics, science and engineering to solve the complex engineering problems?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2) How effectively do you analyze the problems of engineering?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Can you design solutions for complex problems from your academic knowledge for sustainable growth?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5) Have you learnt about current technologies and modern engineering tools?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6) Can you serve the society with your knowledge achieved from your studies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7) Have you learnt any basic skills to survive in the society?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8) Have you come to know ethical values from academics?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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9) Will your efforts in academic projects help you out to work in diverse teams?	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1
10) How far your academics helped you to enhance your communication skills?	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1
11) How did you demonstrate and apply the knowledge acquired from your academics at the time of project documentation and implementation?	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1
12) Can you learn independently throughout your life for career development?	<input type="checkbox"/> 3	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 1
13) Have you learnt to develop software for quality products independently / as a group applying modified engineering principles?	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1
14) Did your academics give you enough knowledge to write competitive exams for successful career?	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1

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

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

Date: 28/03/19



Signature


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S.No.	Code	Name	Program Outcomes											
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
B.Tech I Year														
1	C101	Mathematics - I	1.5	1.5	1.5	1.5	1.5	1.5	-	-	1.5	1.5	1.5	1.5
2	C102	Chemistry	1.5	1.5	1.5	1.5	1.5	1.5	-	-	1.5	-	1.5	1.5
3	C103	Basic Electrical Engineering	1.5	1.5	1.5	1.5	-	1.5	1.5	1.5	1.5	1.5	1.5	1.5
4	C104	Engineering Workshop	1.5	1.5	1.5	1.5	1.5	-	1.5	-	1.5	1.5	-	1.5
5	C105	English	-	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
6	C106	Engineering Chemistry Lab	2.25	-	-	-	-	-	-	-	2.25	-	-	-
7	C107	English Language And Communication Skills Lab	3	2	3	3	3	3	3	3	3	3	3	3
8	C108	Basic Electrical Engineering Lab	1.5	1.5	1.5	1.5	-	1.5	1.5	1.5	1.5	1.5	1.5	1.5
9	C109	Environmental Science	2.25	2.25	2.25	2.25	2.25	2.25	-	-	2.25	2.25	2.25	2.25
10	C110	Mathematics - II	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
11	C111	Applied Physics	1.5	1.5	1.5	-	-	-	-	-	-	-	-	-
12	C112	Programming For Problem Solving	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
13	C113	Engineering Graphics	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
14	C114	Applied Physics Lab	-	-	-	3	-	-	-	-	-	-	-	-
15	C115	Programming For Problem Solving Lab	3	3	3	3	3	3	3	3	3	3	3	3
B.Tech II Year														
16	C201	Mathematics – IV	1.5	1.5	0.5	0.5	-	-	-	-	-	-	-	0.5
17	C202	Data Structures Through C++	2.1	2.1	2.1	1.8	1.5	1.8	1.8	-	1.5	-	-	1.5
18	C203	Mathematical Foundations Of Computer Science	1.8	1.8	1.95	-	-	1.05	-	1.05	-	-	1.2	1.05
19	C204	Digital Logic Design	1.1	1.1	1.4	-	0.8	-	-	-	-	0.8	-	-
20	C205	Object Oriented Programming	1.5	1.5	1.2	1.1	1.1	1	-	-	0.8	0.8	-	-

		Through Java												
21	C206	Data Structures Through C++ Lab	3	3	2.6	2.4	3	2	3	-	2	-	-	-
22	C207	It Workshop	2.4	2.6	2.4	-	2.6	2	2	-	2	1.75	1.8	1.8
23	C208	Object Oriented Programming Through Java Lab	2.8	2.8	2.6	2	2.6	2	-	-	2	1.8	-	1.6
24	C209	Computer Organization	2.6	2.6	2.4	2.4	2.2	2	2	-	-	-	-	-
25	C210	Database Management Systems	1.2	1.1	1.4	1	1.4	1	1	-	1	1.3	-	-
26	C211	Operating Systems	2.1	1.8	1.8	2.06 25	1.05	1.35	-	-	-	-	-	-
27	C212	Formal Languages And Automata Theory	1.5	2.25	1.2	0.75	0.75	0.75	0.75	-	-	-	-	-
28	C213	Business Economics And Financial Analysis	1.2	1	-	1	1.2	-	1.2	-	-	-	1.8	-
29	C214	Computer Organization Lab	2	1.8	3	3	3	1	-	-	-	-	-	-
30	C215	Database Management Systems Lab	2.6	2.6	2	2	3	2	-	-	-	1.4	2	1.2
31	C216	Operating Systems Lab	2.5	2.5	2.75	2.25	3	1	-	-	1.5	-	2.5	1
B.Tech III Year														
32	C301	Design and Analysis of Algorithms	2.25	1.35	2.25	2.25	2.25	-	-	-	-	-	1.5	1.35
33	C302	Data Communication and Computer Networks	2.25	1.5	0.975	0.75	0.75	-	-	-	-	1.35	0.75	-
34	C303	Software Engineering	1.2	1.2	1.2	1.1	1.375	1	-	-	1	1	1	0.7
35	C304	Fundamentals of Management	0.7	0.7	0.8	-	0.6	0.6	0.8	-	0.7	0.7	0.7	0.6
36	C305	Principles of Electronic Communications	1	2	2	-	2	1	1	-	2	3	-	3
37	C306	Design and Analysis of Algorithms Lab	3	2.8	3	2	3	2	2	-	1	-	-	-
38	C307	Computer Networks Lab	3	3	3	3	3	2	2	-	1	2	-	2
39	C308	Software Engineering Lab	3	3	3	3	3	3	2	2	2	1.25	3	2
40	C309	Compiler Design	1.1	0.83	1	-	0.7	1.5	-	-	-	-	-	-
41	C310	Web Technologies	3	2.6	2.2	1.2	2.6	-	3	-	-	-	-	-

42	C311	Cryptography and Network Security	1.65	1.5	1.35	1.5	-	1.35	1.5	-	1.5	-	0.9	1.2
43	C312	Principles of Computer Communications and Networks	1	1	1	1	1	1	-	-	-	3	2	3
44	C313	Artificial Intelligence	1.5	1.125	0.5	0.5	-	-	-	-	-	1	-	-
45	C314	Cryptography and Network Security Lab	3	3	3	3	3	2	2	-	2	1	-	1
46	C315	Web Technologies Lab	1.4	1.4	3	1.4	3	3	-	-	2	3	-	2
47	C316	Advanced English Communication Skills Lab	-	-	-	-	-	-	-	1.8	1.8	2.2	2	2.4
B.Tech IV Year														
48	C401	Linux Programming	1.95	-	1.65	1.5	1.8	2.25	1.2	-	1.95	1.8	1.95	-
49	C402	Design Patterns	0.8	0.8	0.8	-	-	-	-	-	-	-	0.8	-
50	C403	Data Warehousing and Data Mining	2.2	2	1.3	1.6	2.3	-	-	-	2	-	-	-
51	C404	Cloud Computing	1.8	1.245	2.1	1.35	-	-	1.125	-	1.5	-	1.5	1.5
52	C405	Software Project Management	1.35	1.65	1.5	1.2	-	1.245	1.5	-	1.5	1.5	1.5	1.35
53	C406	Information Retrieval Systems	1	1	1.2	1.2	0.75	0.7	0.7	-	-	1	0.7	-
54	C407	Linux Programming Lab	2.25	1	2.25	1.5	2	-	-	-	-	-	-	-
55	C408	Data Warehousing and Mining Lab	2.4	2.4	2.8	2.2	2.8	2	2	-	2	3	2.4	-
56	C409	Management Science	-	-	1.65	1.5	-	0.75	1.2	1.35	-	-	1.05	-
57	C410	Web Services	0.8	0.7	0.7	0.5	-	-	-	-	-	-	-	-
58	C411	Database Security	2.25	1.5	1.5	1.125	2.25	-	-	-	2.25	-	-	2.25
59	C412	Industry Oriented Mini Project	2.2	2.6	2.6	2	2.4	1.6	1.8	1	1.8	2.6	2.6	1.6
60	C413	Seminar	2	1.5	-	2.75	2	-	-	-	-	3	-	3
61	C414	Project Work	2	1.5	1.25	1.25	3	2	1.75	-	2	2.5	1.75	1.33
62	C415	Comprehensive Viva	2.6	2.6	2	-	-	-	-	3	3	2.33	-	2
Average			1.976	1.829	1.887	1.75	2.0353	1.6661	1.6984	1.7375	1.7744	1.8592	1.766	1.7281



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PO ATTAINMENT LEVEL (2018-2019)												
COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
DIRECT ATTAINMENT (Average)	1.975862	1.8292	1.8871	1.75125	2.0353	1.6661	1.6984	1.7375	1.7744	1.8592	1.766	1.7281
DIRECT ATTAINMENT (80% of avg)	1.58069	1.4634	1.5096	1.401	1.6283	1.33288	1.3588	1.39	1.4195	1.4873	1.413	1.3824
INDIRECT ATTAINMENT	2.98	2.95	2.95	2.81	2.99	2.80	2.70	2.71	2.81	2.70	2.86	2.85
INDIRECT ATTAINMENT (20%)	0.60	0.59	0.59	0.56	0.60	0.56	0.54	0.54	0.56	0.54	0.57	0.57
Overall PO ATTAINMENT (80+20)	2.18069	2.0534	2.0996	1.961	2.2283	1.89288	1.8988	1.93	1.9795	2.0273	1.983	1.92524


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CO and PSO Average (A.Y. 2018-19)

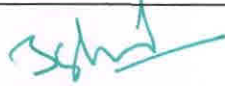
S.No.	Code	Name	PSO	
			PSO1	PSO2
B.Tech I Year				
1	C101	Mathematics - I	1.5	1.5
2	C102	Chemistry	1.5	1.5
3	C103	Basic Electrical Engineering	1.5	1.5
4	C104	Engineering Workshop	1.5	1.5
5	C105	English	1.5	1.5
6	C106	Engineering Chemistry Lab	2.25	-
7	C107	English Language And Communication Skills Lab	-	-
8	C108	Basic Electrical Engineering Lab	1.5	1.5
9	C109	Environmental Science	2.25	2.25
10	C110	Mathematics - II	1.5	1.5
11	C111	Applied Physics	1.5	-
12	C112	Programming For Problem Solving	1.5	1.5
13	C113	Engineering Graphics	1.5	1.5
14	C114	Applied Physics Lab	-	3
15	C115	Programming For Problem Solving Lab	-	-
B.Tech II Year				
16	C201	Mathematics – IV	-	-
17	C202	Data Structures Through C++	1.2	1.2
18	C203	Mathematical Foundations Of Computer Science	1.2	1.2
19	C204	Digital Logic Design	0.5	0.5
20	C205	Object Oriented Programming Through Java	0.9	0.9


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21	C206	Data Structures Through C++ Lab	2.2	2.4
22	C207	It Workshop	2	2
23	C208	Object Oriented Programming Through Java Lab	2	2
24	C209	Computer Organization	2.6	2.6
25	C210	Database Management Systems	1.2	1.2
26	C211	Operating Systems	1.2	1.2
27	C212	Formal Languages And Automata Theory	1.6875	1.5
28	C213	Business Economics And Financial Analysis	2.2	2.6
29	C214	Computer Organization Lab	2.67	2.67
30	C215	Database Management Systems Lab	3	3
31	C216	Operating Systems Lab	3	3
B.Tech III Year				
32	C301	Design and Analysis of Algorithms	1.95	1.95
33	C302	Data Communication and Computer Networks	1.5	1.5
34	C303	Software Engineering	1	1.2
35	C304	Fundamentals of Management	1.2	1.1
36	C305	Principles of Electronic Communications	1	1
37	C306	Design and Analysis of Algorithms Lab	1.8	1.8
38	C307	Computer Networks Lab	2.6	2.6
39	C308	Software Engineering Lab	2	2
40	C309	Compiler Design	0.83	1
41	C310	Web Technologies	2.2	3
42	C311	Cryptography and Network Security	1.5	0.75
43	C312	Principles of Computer Communications and Networks	1	1
44	C313	Artificial Intelligence	0.7	0.875
45	C314	Cryptography and Network Security Lab	1.75	1.75
46	C315	Web Technologies Lab	3	3


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47	C316	Advanced English Communication Skills Lab	-	-
B.Tech IV Year				
48	C401	Linux Programming	-	0.975
49	C402	Design Patterns	0.5	-
50	C403	Data Warehousing and Data Mining	2	1.8
51	C404	Cloud Computing	1.2	1.2
52	C405	Software Project Management	1.5	1.5
53	C406	Information Retrieval Systems	0.5	0.5
54	C407	Linux Programming Lab	1.67	1.67
55	C408	Data Warehousing and Mining Lab	1.66	1.75
56	C409	Management Science	1.8	1.5
57	C410	Web Services	0.8	0.7
58	C411	Database Security	1.125	1.5
59	C412	Industry Oriented Mini Project	2.5	2.5
60	C413	Seminar	1.5	1.8
61	C414	Project Work	3	3
62	C415	Comprehensive Viva	3	3
Average			1.7521	1.7779


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PSO ATTAINMENT LEVEL (2018-2019)		
COURSE	PSO1	PSO2
DIRECT ATTAINMENT(Average)	1.7521	1.7779
DIRECT ATTAINMENT(80% of avg)	1.4017	1.4224
INDIRECT ATTAINMENT	2.91	2.96
INDIRECT ATTAINMENT (20%)	0.58	0.59
Overall PO ATTAINMENT (80+20)	1.93775	1.98404



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