



ATTAINMENTS

Course outcomes (CO) outline the information and values that students will be able to exhibit after completing a course. The PO/PSO assessment is completed at the conclusion of each course based on the CO attainment of all curricular components. Every course has a predetermined set of learning objectives and matching assessment standards. The programme outcomes and the course outcomes are mapped to each other in order to provide a quantitative assessment of how well the programme outcomes are met. By mapping questions to COs and COs to POs and PSOs, the performance of the students on the exams taken at the end of each course semester is utilised to calculate the level of achievement of the POs and PSOs. The subject faculty creates the CO-PO & PSO mapping for each course in the programme after consulting with other faculty members.

CO Attainment

Measurement techniques are identified for each CO in order to track the outcome's progress. There are two types of assessment methods: direct and indirect. The midterm, final, assignment, and quizzes serve as the foundation for the course result assessment procedure. Every question on a midterm, semester-end, assignment, or quiz is associated with a specific CO, and the average mark that is specified as the goal for final attainment determines the overall attainment of that CO. The following sections provide specifics on the procedures and resources utilized to achieve the course objectives:

Direct assessment methods include:

- Theory Courses – Internal and University exams
- Laboratory Courses – University exams

Indirect methods include:

- Course end survey
- Student Exit survey
- Alumni survey
- Parent's survey
- Employer's survey

1. Internal Examinations:

This kind of performance evaluation takes place during the thrice-per-semester examination sessions. The goal of every exam is to achieve the pertinent course objectives.

2. Semester End Examination:

The Semester University Examination serves as a gauge to determine if each CO has been met. A descriptive test is employed, with a greater emphasis on achieving programme and course targets. At the start of the semester, the faculty determines the expected target level of the course outcomes, which typically ranges from 50% to 75% depending on the students' cognitive abilities.



The level of direct accomplishment of the COs is calculated using the students' performance on the exams given at the end of each course during the semester. A "C" on the university exam is the minimal mark needed to calculate the achievement levels achieved. The faculty links each exam's questions to the learning objectives. The class average mark is used as the target to calculate each CO's accomplishment. Each course's COs are assigned weights of H (High), M (Medium), and L (Low) in relation to POs and PSOs. Programme outcomes are evaluated at the programme level using the results of each course.

Attainment of Program Outcomes and Program Specific Outcomes:

Every course that adds to the PO is identified, and the Course Outcomes evaluate these courses by utilizing direct evaluation instruments (examination outcomes from internal and external exams). The number of students who performed at the expected level is determined by micro-analyzing the courses and comparing the results to the predetermined benchmark. This yields the results of the direct assessment of the courses. Additionally, the PO is evaluated through the use of indirect assessment instruments, such as the Student Exit and Course End surveys. The total outcomes of the PO evaluations are compared with the projected attainment following the evaluation of the POs using both direct and indirect assessment methodologies. The PO is deemed satisfied if the projected accomplishment level is attained.

Course Outcomes – Assessment Process

- With the use of direct and indirect assessment instruments, the achievement of the course objectives is evaluated.
- Internal examinations are a part of direct assessment.
- Periodically, an assessment encompassing all course outcomes is conducted. This assessment is conducted thrice a semester, covering one or two course objectives in continual internal assessment (CIA) examination; however, all course outcomes are assessed at the end of the semester via model examination.
- The questions are structured based on the objectives of the course, and the outcome is examined. By this procedure, students' values, knowledge, and skills are evaluated.
- One indirect assessment approach for evaluating course outcomes is done by the course end survey.
- The interpretation of the data determines the COs' degree of accomplishment, which is then compared to predetermined benchmarks.
- Course Outcomes are matched to Programme and Programme Specific Outcomes. Every CO has a performance standard established for them.

Evaluation of course outcomes attainment (Direct assessment)

To obtain the CO through the Direct Assessment technique, internal assessments are assigned a weight of 75%, while university examinations are assigned a weight of 25%. It is possible to examine each student's attainment level and determine whether all COs have reached or exceeded the predetermined performance target. The value obtained for CO attainment is multiplied by 1 for strong, 0.8 for medium and 0.6 for low correlation with the PO.

The faculty takes the required actions to ensure that the improvement reaches the target when the level of attainment of each CO for each course is compared to the predetermined targets. Faculty recommendations are made to achieve the same improvement if the performance requirement is not met.




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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ATTAINMENT OF COURSE OUTCOMES (Batch: 2020-2024)
(2014-15 Regulation)

Sl. No.	Course Code	Course Name	Appeared	Passed	Pass %	CO Attainment	Target Level	Attainment Status
1	C101	Mathematics - I	50	50	100	2.87	2.85	✓
2	C102	Physics	50	50	100	2.87	2.85	✓
3	C103	Chemistry	50	50	100	2.87	2.85	✓
4	C104	Basic Electrical and Electronics Engineering	50	50	100	2.87	2.85	✓
5	C105	Engineering Thermodynamics	50	50	100	2.87	2.85	✓
6	C106	Computer Programming	50	50	100	2.87	2.85	✓
7	C107	Computer Programming Laboratory	50	50	100	3	2.85	✓
8	C108	Engineering Graphics	50	50	100	3	2.85	✓
9	C109	Basic Electrical and Electronics Laboratory	50	50	100	3	2.85	✓
10	C110	Mathematics - II	50	50	100	2.87	2.85	✓
11	C111	Material Science	50	50	100	2.87	2.85	✓
12	C112	Environmental Science	50	50	100	2.87	2.85	✓
13	C113	Basic Civil and Mechanical Engineering	50	50	100	2.87	2.85	✓
14	C114	Engineering Mechanics	50	50	100	2.87	2.85	✓
15	C115	Communicative English	50	50	100	2.87	2.85	✓
16	C116	Physics lab	50	50	100	3	2.85	✓
17	C117	Chemistry lab	50	50	100	3	2.85	✓
18	C118	Workshop Practice	50	50	100	3	2.85	✓
19	C119	NSS/NCC	50	50	100	3	2.85	✓
20	C201	Mathematics - III	50	48	96	3	2.85	✓
21	C202	Electronics Devices and Circuits	50	47	94	2.85	2.85	✓
22	C203	Object Oriented Programming and Design	50	43	86	2.77	2.85	×
23	C204	Digital System Design	50	39	78	2.75	2.85	×
24	C205	Data Structures	50	46	92	2.82	2.85	×

25	C206	Computer Organization and Architecture	50	43	86	2.87	2.85	✓
26	C207	Electronics Devices and Circuits	50	50	100	3	2.85	✓
		Laboratory						
27	C208	Data Structures Laboratory	50	50	100	3	2.85	✓
28	C209	Digital System Design Laboratory	50	50	100	3	2.85	✓
29	C210	Mathematics – IV	50	47	94	2.6	2.85	×
30	C211	Microprocessors and Microcontrollers	50	46	92	2.82	2.85	✓
31	C212	Automata Languages and Computations	50	44	88	2.75	2.85	×
32	C213	Design and Analysis of Algorithms	50	44	88	2.75	2.85	×
33	C214	Object Oriented Programming	50	42	84	2.77	2.85	×
34	C215	Graphics and Image Processing	50	37	74	2.6	2.85	×
35	C216	Microprocessors and Microcontrollers Laboratory	50	50	100	3	2.85	✓
36	C217	Design and Analysis of Algorithms Laboratory	50	50	100	3	2.85	✓
37	C218	Object Oriented Programming Laboratory	50	50	100	3	2.85	✓
38	C219	Physical Education	50	50	100	3	2.85	✓
39	C301	Operating Systems	58	52	89.66	2.8	2.85	×
40	C302	Computer Networks	58	53	91.38	2.85	2.85	✓
41	C303	Database Management Systems	58	55	94.83	2.9	2.85	✓
42	C304	Language Translators	58	49	84.48	2.63	2.85	×
43	C305	Software Engineering	58	54	93.1	2.9	2.85	✓
44	C306	Operating Systems Laboratory	58	55	94.83	3	2.85	✓
45	C307	Computer Networks Laboratory	58	55	94.83	3	2.85	✓
46	C308	Database Management System Laboratory	58	55	94.83	3	2.85	✓
47	C309	General Proficiency – I	58	58	100	3	2.85	✓
48	C310	Enterprise Solutions	55	55	100	2.73	2.85	×
49	C311	Embedded Systems	55	54	98.18	2.8	2.85	×
50	C312	Web Technology	55	52	94.55	2.9	2.85	✓

51	C313	Object Oriented Analysis and Design	55	54	98.18	2.73	2.85	×
52	C314	E-Business	55	54	98.18	2.67	2.85	×
53	C315	Enterprise Solutions Laboratory	55	55	100	3	2.85	✓
54	C316	Embedded Systems Laboratory	55	55	100	3	2.85	✓
55	C317	Web Technology Laboratory	55	55	100	3	2.85	✓
56	C318	Industrial Visits/Training	55	55	100	3	2.85	✓
57	C319	General Proficiency – II	55	55	100	3	2.85	✓
58	C401	Artificial Intelligence	54	54	92.59	2.65	2.85	×
59	C402	Computer Hardware and Network Trouble Shooting	54	53	98.15	2.65	2.85	×
60	C403	Platform Technology	54	52	96.3	2.9	2.85	✓
61	C404	Network Protocol	54	53	98.15	2.9	2.85	✓
62	C405	Artificial Intelligence Laboratory	54	53	98.15	3	2.85	✓
63	C406	Troubleshooting Laboratory	54	53	98.15	3	2.85	✓
64	C407	Platform Technology Laboratory	54	53	98.15	3	2.85	✓
65	C408	Project Work – Phase I	54	54	100	3	2.85	✓
66	C409	Professional Ethics	54	54	100	2.9	2.85	✓
67	C410	Engineering Economics and Management	54	54	100	2.9	2.85	✓
68	C411	Information Security	54	54	100	2.9	2.85	✓
69	C412	Mobile Computing	54	53	98	2.9	2.85	✓
70	C413	Cloud Computing	54	53	98	2.9	2.85	✓
71	C414	Seminar	54	54	100	3	2.85	✓
72	C415	Comprehensive Viva-Voce	54	54	100	3	2.85	✓
73	C416	Projects Work – Phase II	54	54	100	3	2.85	✓


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ATTAINMENT OF PROGRAMME OUTCOMES (Batch : 2020-2024)
Regulation (2014-2015)

Semester	Sub. Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I Semester	C101	Mathematics - I	3	3	3	3	3	3	3	2	3	3	2	2
	C102	Physics	3	3	3	3	3	3	3	2	2	2	2	2
	C103	Chemistry	2	3	3	3	3	3	3	2	2	2	2	2
	C104	Basic Electrical and Electronics Engineering	2	3	3	3	3	3	2	2	3	2	2	2
	C105	Engineering Thermodynamics	2	3	3	3	2	2	3	2	3	2	2	2
	C106	Computer Programming	3	3	3	3	3	3	3	2	3	2	2	2
	C107	Computer Programming Laboratory	3	3	3	3	3	3	3	2	2	2	2	2
	C108	Engineering Graphics	3	3	3	3	2	2	2	2	2	2	2	2
	C109	Basic Electrical and Electronics Laboratory	3	3	3	2	3	3	3	2	2	2	2	2
II Semester	C110	Mathematics – II	3	3	3	2	3	2	2	2	2	2	2	2
	C111	Material Science	3	3	3	2	3	2	3	2	2	2	2	2
	C112	Environmental Science	3	3	3	2	3	2	3	2	3	2	2	2
	C113	Basic Civil and Mechanical Engineering	3	3	3	2	3	2	2	2	3	2	2	2
	C114	Engineering Mechanics	3	3	1	2	3	2	3	1	3	3	3	2
	C115	Communicative English	3	3	2	3	3	2	3	2	3	2	2	2
	C116	Physics lab	3	3	2	3	3	3	2	2	3	3	3	2
	C117	Chemistry lab	3	3	2	3	3	3	3	0	2	2	3	2
	C118	Workshop Practice	3	3	2	3	3	3	3	2	2	2	3	2
C119	NSS/NCC	3	3	2	2	2	2	2	1	2	2	2	2	
III Semester	C201	Mathematics – III	3	3	2	2	2	2	2	2	2	2	3	2
	C202	Electronics Devices and Circuits	3	3	2	2	3	3	2	2	2	2	2	3
	C203	Object Oriented Programming and Design	2	2	2	2	2	2	2	2	3	3	2	2
	C204	Digital System Design	2	2	2	2	2	1	2	2	3	3	2	2
	C205	Data Structures	3	3	3	3	3	1	3	2	2	2	2	1
	C206	Computer Organization and Architecture	3	2	3	2	3	1	2	2	2	2	2	2
	C207	Electronics Devices and Circuits Laboratory	3	1	2	1	2	2	3	2	3	1	1	2
	C208	Data Structures Laboratory	3	3	2	1	3	2	3	2	3	1	1	2
	C209	Digital System Design Laboratory	3	2	2	1	2	2	3	2	3	1	1	2

IV Semester	C210	Mathematics – IV	3	3	2	2	2	2	3	2	2	2	2	2
	C211	Microprocessors and Microcontrollers	2	3	2	2	2	2	3	1	1	2	2	1
	C212	Automata Languages and Computations	2	3	3	2	2	1	3	1	2	2	1	3
	C213	Design and Analysis of Algorithms	2	3	3	3	3	2	3	1	2	2	1	2
	C214	Object Oriented Programming	2	3	3	3	3	3	2	2	3	3	3	3
	C215	Graphics and Image Processing	2	3	3	1	1	2	2	1	2	1	1	2
	C216	Microprocessors and Microcontrollers Laboratory	3	1	2	1	2	2	3	2	3	1	1	2
	C217	Design and Analysis of Algorithms Laboratory	3	3	3	2	3	2	3	1	2	2	2	2
	C218	Object Oriented Programming Laboratory	3	3	3	1	3	2	3	1	2	1	1	2
V Semester	C219	Physical Education	3	2	2	2	2	3	2	1	3	2	1	2
	C301	Operating Systems	3	3	2	2	2	3	3	2	2	2	2	1
	C302	Computer Networks	3	3	3	3	3	3	3	2	2	2	2	3
	C303	Database Management Systems	3	3	3	3	3	3	2	2	3	3	3	3
	C304	Language Translators	3	3	2	2	2	2	3	1	1	3	2	1
	C305	Software Engineering	3	2	3	2	2	1	2	2	2	2	2	2
	C306	Operating Systems Laboratory	3	3	2	2	1	3	3	2	2	2	2	1
	C307	Computer Networks Laboratory	2	3	3	2	1	3	3	1	2	2	2	2
	C308	Database Management System Laboratory	3	3	2	1	3	2	3	2	2	1	2	2
VI Semester	C309	General Proficiency – I	2	2	2	3	3	2	3	2	3	3	1	3
	C310	Enterprise Solutions	2	2	3	3	3	1	2	2	2	2	2	2
	C311	Embedded Systems	2	2	3	3	3	1	2	2	2	2	2	2
	C312	Web Technology	3	3	2	3	3	2	3	1	1	2	2	1
	C313	Object Oriented Analysis and Design	2	3	2	3	3	2	3	1	1	2	2	1
	C314	E-Business	2	2	3	3	3	1	2	2	2	2	2	2
	C315	Enterprise Solutions Laboratory	3	2	2	3	3	3	1	1	2	2	1	3
	C316	Embedded Systems Laboratory	3	1	2	3	3	3	3	2	3	1	1	2
	C317	Web Technology Laboratory	3	1	2	3	3	3	3	2	3	1	1	2
VII Semester	C318	Industrial Visits/Training	2	2	2	3	3	2	2	2	1	3	1	3
	C319	General Proficiency – II	3	2	2	3	3	3	1	1	2	3	1	2
	C401	Artificial Intelligence	2	3	2	3	3	3	3	2	3	1	1	2
	C402	Computer Hardware and Network Trouble Shooting	3	3	3	3	3	3	3	2	3	1	1	2
	C403	Platform Technology	3	3	2	2	2	3	1	1	2	2	1	2
	C404	Network Protocol	2	3	3	3	2	2	2	2	2	2	3	3
	C405	Artificial Intelligence Laboratory	2	3	2	3	2	3	3	2	3	1	1	2
	C406	Troubleshooting Laboratory	3	3	3	3	2	2	2	2	2	2	3	3
	C407	Platform Technology Laboratory	3	2	2	3	2	3	3	2	3	1	1	2
VIII Semester	C408	Project Work – Phase I	3	3	3	3	3	3	3	3	3	3	3	3
	C409	Professional Ethics	3	2	2	2	2	3	0	3	2	2	1	2
	C410	Engineering Economics and Management	2	2	2	2	3	2	2	3	3	3	2	3
	C411	Information Security	3	3	3	3	3	3	3	2	2	3	2	3
	C412	Mobile Computing	3	3	3	3	3	3	2	2	3	2	2	3
	C413	Cloud Computing	3	3	3	3	3	3	2	2	2	2	2	3

Semester	C414	Seminar	3	3	3	3	3	3	3	3	3	3	3	3
	C415	Comprehensive Viva-Voce	3	3	3	3	3	3	2	2	2	3	3	3
	C416	Projects Work – Phase II	3	3	3	3	3	3	3	3	3	3	3	3
	Average		2.71	2.67	2.51	2.47	2.62	2.37	2.49	1.84	2.36	2.04	1.90	2.15


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ATTAINMENT OF PROGRAMME SPECIFIC OUTCOMES (Batch : 2020-2024)
Regulation (2014-2015)

Semester	Sub. Code	Subject Name	PSO1	PSO2
I Semester	C101	Mathematics - I	3	3
	C102	Physics	2	3
	C103	Chemistry	2	2
	C104	Basic Electrical and Electronics Engineering	2	3
	C105	Engineering Thermodynamics	2	3
	C106	Computer Programming	2	3
	C107	Computer Programming Laboratory	3	3
	C108	Engineering Graphics	2	2
	C109	Basic Electrical and Electronics Laboratory	2	1
II Semester	C110	Mathematics - II	3	3
	C111	Material Science	2	2
	C112	Environmental Science	2	3
	C113	Basic Civil and Mechanical Engineering	2	3
	C114	Engineering Mechanics	2	3
	C115	Communicative English	2	2
	C116	Physics lab	2	3
	C117	Chemistry lab	2	3
	C118	Workshop Practice	3	3
III Semester	C201	Mathematics - III	3	3
	C202	Electronics Devices and Circuits	2	2
	C203	Object Oriented Programming and Design	2	3
	C204	Digital System Design	2	2
	C205	Data Structures	2	3
	C206	Computer Organization and Architecture	2	3
	C207	Electronics Devices and Circuits Laboratory	2	3
	C208	Data Structures Laboratory	2	3
	C209	Digital System Design Laboratory	2	3
IV Semester	C210	Mathematics - IV	3	3
	C211	Microprocessors and Microcontrollers	2	2
	C212	Automata Languages and Computations	2	3
	C213	Design and Analysis of Algorithms	2	3
	C214	Object Oriented Programming	2	3
	C215	Graphics and Image Processing	2	3
	C216	Microprocessors and Microcontrollers Laboratory	2	3
	C217	Design and Analysis of Algorithms Laboratory	3	3
	C218	Object Oriented Programming Laboratory	2	2
V Semester	C301	Operating Systems	3	3
	C302	Computer Networks	3	2
	C303	Database Management Systems	3	2
	C304	Language Translators	3	3
	C305	Software Engineering	3	3
	C306	Operating Systems Laboratory	3	2
	C307	Computer Networks Laboratory	3	2
	C308	Database Management System Laboratory	2	3
	C309	General Proficiency - I	3	3
VI Semester	C310	Enterprise Solutions	3	3
	C311	Embedded Systems	3	3
	C312	Web Technology	3	3
	C313	Object Oriented Analysis and Design	3	3
	C314	E-Business	2	3

	C315	Enterprise Solutions Laboratory	2	3
	C316	Embedded Systems Laboratory	2	3
	C317	Web Technology Laboratory	2	3
	C318	Industrial Visits/Training	3	3
VII Semester	C319	General Proficiency - II	3	3
	C401	Artificial Intelligence	2	2
	C402	Computer Hardware and Network Trouble Shooting	2	2
	C403	Platform Technology	2	2
	C404	Network Protocol	2	2
	C405	Artificial Intelligence Laboratory	2	2
	C406	Troubleshooting Laboratory	2	2
	C407	Platform Technology Laboratory	2	2
VIII Semester	C408	Project Work - Phase I	3	3
	C409	Professional Ethics	3	3
	C410	Engineering Economics and Management	3	3
	C411	Information Security	2	3
	C412	Mobile Computing	2	3
	C413	Cloud Computing	3	3
	C414	Seminar	3	3
	C415	Comprehensive Viva-Voce	3	3
	C416	Projects Work - Phase II	3	3
		Average	2.40	2.71

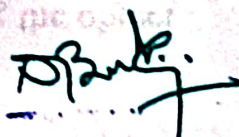
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1. Student Exit Survey

Exit Survey to measure the attainment of POs and PSOs by indirect method, exit survey given by 50 out of 54 is taken. The survey is taken on a 5 point scale reflecting the graduate attributes, which measure attainment of POs and PSOs. In the table below, the consolidated report of the exit survey is given:

PO No.	Assessment of abilities, skills and attributes acquired	0	1	2	3	4	5	Count of Rating above 3	% of High rating
PO1	Basic knowledge in mathematics, science, engineering and humanities.	0	3	2	15	16	14	45	90.0
PO2	Ability to identify, design, analyze and solve computer engineering	0	3	3	14	16	14	44	88.0
PO3	Design/develop of complex engineering problems and their solutions	2	3	2	15	14	14	43	86.0
PO4	Use of research based knowledge and research methods	0	3	2	15	16	14	45	90.0
PO5	Demonstrate the ability of advanced technologies to solve real time problems.	2	3	2	14	16	13	43	86.0
PO6	Awareness to apply engineering solutions in global, national and societal contexts.	0	3	2	15	16	14	45	90.0
PO7	Understanding professional engineering solutions in societal and environmental contexts.	2	3	3	14	15	13	42	84.0
PO8	Understand of professional and ethical responsibilities.	0	3	3	14	16	14	44	88.0
PO9	Ability to function as an effective member in multi-disciplinary teams.	2	3	2	14	16	13	43	86.0
PO10	Proficiency in English language in both communication and technical forms.	0	3	2	15	16	14	45	90.0
PO11	Demonstrate the ability to choose and apply appropriate resources	2	3	2	14	16	13	43	86.0
PO12	Capable of self education and a clear understanding of the value of updating their professional knowledge to engage in lifelong learning.	2	3	3	14	15	13	42	84.0
PSO1	Capability to utilize mathematical principles in computer science and engineering to deliver solutions.	0	0	0	17	17	16	50	100.0
PSO2	Designing, testing, and evaluating software and offering innovative technologies.	2	3	3	14	15	13	42	84.0


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1. Alumni Feedback Survey

Exit Survey to measure the attainment of POs and PSOs by indirect method, exit survey given by 110 students out of 120 is taken. The survey is taken on a 5 point scale reflecting the graduate attributes, which measures the attainment of POs and PSOs. In the table below, the consolidated report of the exit survey is given:

PO No.	Assessment of abilities, skills and attributes acquired		0	1	2	3	4	5	Count of Rating above 3	% of High rating	Rating In 3 Point Scale
PO1	Engineering Knowledge	Technical Skill	0	4	5	20	28	53	101	91.8	2.8
PO2	Problem analysis	Creativity	0	2	6	23	29	50	102	92.7	2.8
PO3	Design/development of solution	Analytical Thinking	0	0	1	24	30	55	109	99.1	3.0
PO4	Conduct investigations of		0	0	1	24	30	55			
PO5	Modern tool usage	Technical Skill	2	0	6	22	50	30	102	92.7	2.8
PO6	Engineer and society										
PO7	Environment and										
PO8	Ethics	Decision making	0	4	3	26	22	55	103	93.6	2.8
PO9	Individual and team work	Team Collaboration	0	3	4	24	23	56	103	93.6	2.8
		Verbal Communication	0	0	1	24	30	55	109	99.1	3.0
		Written Communication	0	1	2	25	26	56	107	97.3	2.9
PO10	Communication	Presentation Skills	1	0	22	20	47	20	87	79.1	2.4
PO11	Project management and	Motivation and Guidance	0	3	4	20	28	55	103	93.6	2.8
PO12	Life long Learning										
PSO1	Core knowledge	Professional	0	0	0	24	31	55	110	100.0	3.0
PSO2	Technical proficiency	Career Advancement	0	2	6	23	29	50	102	92.7	2.8

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1. Parent's Survey


Exit Survey to measure the attainment of POs and PSOs by indirect method, parent's survey given by 50 out of 54 parents of the 2024 passed out students is taken. The survey is taken on a 5 point scale reflecting the graduate attributes, which measures the attainment of POs and PSOs. In the table below, the consolidated report of the exit survey is given:

Programme Satisfaction:

Sl. No.	Assessment of abilities, skills and attributes acquired	0	1	2	3	4	5	Count of Rating above 3	% of High rating	Rating in 3 Point Scale
1	Overall Satisfaction with the Program	0	3	2	15	16	14	45	90.0	2.7
2	Quality of Academic Instruction	0	3	3	14	16	14	44	88.0	2.6
3	Relevance of Curriculum to Industry Needs	2	3	2	15	14	14	43	86.0	2.6
4	Availability of Resources (labs, materials, etc.)	0	3	2	15	16	14	45	90.0	2.7
5	Communication from institution to Parents	3	3	3	12	15	14	41	82.0	2.5

Specific Program Aspects

Sl. No.	Assessment of abilities, skills and attributes acquired	0	1	2	3	4	5	Count of Rating above 3	% of High rating	Rating in 3 Point Scale
6	Faculty: Effectiveness of teaching, approachability and availability and knowledge of subject matter	1	3	5	12	15	14	41	82.0	2.5
7	Facility: Adequacy of Laboratories, Access to Technology, Study Spaces	0	3	2	15	16	14	45	90.0	2.7
8	Student Support: Counseling services, Career guidance, Academic advising	2	3	2	14	13	16	43	86.0	2.6
9	Industry Exposure: Internship opportunities, Industry guest lectures and networking events	0	3	2	15	16	14	45	90.0	2.7
10	Preparation for Future	0	3	2	15	16	14	45	90.0	2.7
11	Communication	0	3	3	14	16	14	44	88.0	2.6
12	Recommendation	2	3	2	15	14	14	43	86.0	2.6
13	Professionalism	0	0	0	16	17	17	50	100.0	3.0
14	Overall	0	0	2	14	13	16	43	86.0	2.6



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1. Employer's Survey

Exit Survey to measure the attainment of POs and PSOs by indirect method, employer's survey given by 15 companies is taken. The survey is taken on a 5 point scale reflecting the graduate attributes, which measures the attainment of POs and PSOs. In the table below, the consolidated report of the employer's survey is given:

Sl. No.	Assessment of abilities, skills and attributes acquired	0	1	2	3	4	5	Count of Rating above 3	% of High rating	Rating in 3 Point Scale
Technical Skills										
1	Knowledge of Core Engineering Concepts	0	0	1	5	8	1	14	93.3	2.8
2	Application of Technical Knowledge	0	1	1	5	5	3	13	86.7	2.6
3	Problem-Solving Abilities	0	0	1	5	8	1	14	93.3	2.8
Communication Skills										
4	Communication (Verbal and Written)	0	1	2	5	5	2	12	80.0	2.4
5	Teamwork and Collaboration	0	0	1	5	8	1	14	93.3	2.8
6	Adaptability	0	1	1	5	5	3	13	86.7	2.6
Practical Experience										
7	Relevance of Academic Knowledge to the Workplace	0	1	1	5	5	3	13	86.7	2.6
8	Ability to Apply Theory to Practical Situations	0	0	1	5	8	1	14	93.3	2.8
9	Overall Work Performance	0	0	1	5	8	1	14	93.3	2.8
Specific Skill Assessment										
10	Project Management	0	0	1	5	8	1	14	93.3	2.8
11	Technical Proficiency	0	0	1	5	8	1	14	93.3	2.8
12	Professionalism	0	1	1	5	5	3	13	86.7	2.6
13	Program Contribution to Workplace Success	0	0	0	5	8	2	15	100.0	3.0
14	Recommendations and Improvements	0	0	1	5	8	1	14	93.3	2.8



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INDIRECT ATTAINMENT VALUES

Surveys	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Exit Survey	2.70	2.64	2.58	2.70	2.58	2.70	2.52	2.64	2.58	2.70	2.58	2.52	3.00	2.52
Alumni Survey	2.75	2.78	2.97	2.97	2.78	2.78	2.78	2.81	2.92	2.37	2.81	2.81	3.00	2.78
Parent's Survey	2.7	2.64	2.58	2.7	2.46	2.46	2.7	2.58	2.7	2.7	2.64	2.58	3	2.58
Emp. Survey	2.8	2.6	2.8	2.4	2.8	2.6	2.6	2.8	2.8	2.8	2.8	2.6	3	2.8
Average	2.74	2.67	2.73	2.69	2.66	2.64	2.65	2.71	2.75	2.64	2.71	2.63	3.00	2.67



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A) PSO Attainment - Direct Method

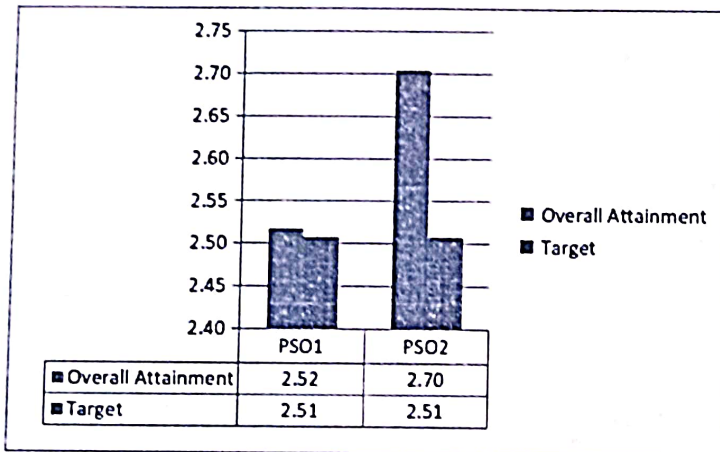
PSOs	PSO1	PSO2
Average Value	2.40	2.71
80% of Average Value	1.92	2.17

B) PO Attainment - Indirect Method

Surveys	PSO1	PSO2
Average Value	3.00	2.67
20% of Average Value	0.60	0.53

C) OVERALL ATTAINMENT

POs	PSO1	PSO2
Direct 80%	1.92	2.17
Indirect 20%	0.60	0.53
Overall Attainment	2.52	2.70
Target	2.51	2.51



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ALUMNI FEEDBACK SURVEY

NAME : ARUNA . I
DEPARTMENT : CSE
YEAR OF PASSED OUT : 2022

Rate the following statements based on your experience:

0-Strongly disagree, 1 – Disagree, 2 -Somewhat disagree, 3 – Neutral,4 – Agree, 5 -Strongly Agree

Assessment of abilities, skills and attributes acquired		0	1	2	3	4	5
Engineering Knowledge	Technical Skill					✓	
Problem analysis	Creativity					✓	
Design/development of solutions	Analytical Thinking				✓		
Conduct investigations of complex problems						✓	
Modern tool usage	Technical Skill						✓
Engineer and society							
Environment and sustainability							
Ethics	Decision making				✓		
Individual and team work	Team Collaboration					✓	
	Verbal Communication					✓	
	Written Communication					✓	
Communication	Presentation Skills						✓
Project management and finance	Motivation and Guidance						✓
Life long Learning							
Core knowledge	Professional Development					✓	
Technical proficiency	Career Advancement and Satisfaction				✓		


SIGNATURE



PARENT SURVEY

PARENT NAME : SHANMUGANATHAN
STUDENT NAME : DEVISRI . S
DEPARTMENT : CSE
YEAR OF PASSED OUT OF STUDENT : 2024

Rate the following statements based on your experience:

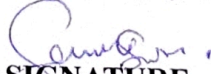
0-Strongly disagree, 1 – Disagree, 2 -Somewhat disagree, 3 – Neutral,4 – Agree,
5 -Strongly Agree

Programme Satisfaction:

Sl. No.	Assessment of abilities, skills and attributes acquired	0	1	2	3	4	5
1	Overall Satisfaction with the Program					✓	
2	Quality of Academic Instruction					✓	
3	Relevance of Curriculum to Industry Needs				✓		
4	Availability of Resources (labs, materials, etc.)				✓		
5	Communication from institution to Parents					✓	

Specific Program Aspects

Sl. No.	Assessment of abilities, skills and attributes acquired	0	1	2	3	4	5
6	Faculty: Effectiveness of teaching, approachability and availability and knowledge of subject matter						✓
7	Facility: Adequacy of Laboratories, Access to Technology, Study Spaces					✓	
8	Student Support: Counseling services, Career guidance, Academic advising					✓	
9	Industry Exposure: Internship opportunities, Industry guest lectures and networking events						✓
10	Preparation for Future						✓
11	Communication					✓	
12	Recommendation						✓
13	Professionalism					✓	
14	Overall						✓


SIGNATURE



STUDENT EXIT SURVEY

NAME : AJAY.S
DEPARTMENT : CSE
BATCH : 2020 - 2024

Rate the following statements based on your experience:

0-Strongly disagree, 1 – Disagree, 2 -Somewhat disagree, 3 – Neutral,4 – Agree,
5 -Strongly Agree

Assessment of abilities, skills and attributes acquired	0	1	2	3	4	5
Basic knowledge in mathematics, science, engineering and humanities.					✓	
Ability to identify, design, analyze and solve computer engineering				✓		
Design/develop of complex engineering problems and their solutions						✓
Use of research based knowledge and research methods						✓
Demonstrate the ability of advanced technologies to solve real time problems.					✓	
Awareness to apply engineering solutions in global, national and societal contexts.				✓		
Understanding professional engineering solutions in societal and environmental contexts.						✓
Understand of professional and ethical responsibilities.						✓
Ability to function as an effective member in multi-disciplinary teams.					✓	
Proficiency in English language in both communication and technical forms.						✓
Demonstrate the ability to choose and apply appropriate resources						✓
Capable of self education and a clear understanding of the value of updating their professional knowledge to engage in lifelong learning.					✓	
Capability to utilize mathematical principles in computer science and engineering to deliver solutions.						✓
Designing, testing, and evaluating software and offering innovative technologies.					✓	

Ajay
SIGNATURE



EMPLOYER SURVEY

Employer Details

1. Company Name: Touchmark Descience
2. Your Name & Designation: Mrs. Mohanraj, CTO
3. Years of Experience:
 - 0-5 years
 - 6-10 years
4. Industry Type:
 - IT & Software
 - Manufacturing
 - Healthcare
 - Automotive
 - Construction
 - Other: _____

Rate the following statements based on your experience:

0-Strongly disagree, 1 – Disagree, 2 -Somewhat disagree, 3 – Neutral, 4 – Agree,
5 -Strongly Agree

Sl. No.	Assessment of abilities, skills and attributes acquired	0	1	2	3	4	5
1	Knowledge of Core Engineering Concepts					✓	
2	Application of Technical Knowledge					✓	
3	Problem-Solving Abilities				✓		
4	Communication (Verbal and Written)				✓		
5	Teamwork and Collaboration					✓	
6	Adaptability						✓
7	Relevance of Academic Knowledge to the Workplace					✓	
8	Ability to Apply Theory to Practical Situations					✓	
9	Overall Work Performance					✓	
10	Project Management						✓

