



SYNERGY INSTITUTE OF TECHNOLOGY, BHUBANESWAR

Approved by AICTE, New Delhi, Affiliated to BPUT, Odisha

Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Mathematics-I

Year/Semester: 1st/1st

Subject Code: C101

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	1	2	2	-	-	-	-	-	-	1	-	-
CO2	2	3	-	1	2	-	-	-	-	-	-	-	-	-
CO3	2	2	-	2	2	-	-	-	-	-	-	3	-	-
CO4	1	2	2	1	-	-	-	-	-	-	-	2	-	-
CO5	2	1	2	-	-	-	-	-	-	-	-	-	-	-
CO6	2	3	-	1	1	-	-	-	-	-	-	1	-	-
Avg.	1.8	2.3	1.6	1.4	1.7	-	-	-	-	-	-	1.7	-	-
Round-Off	2	2	2	1	2	0	0	0	0	0	0	2	0	0



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Physics

Year/Semester: 1st/1st

Subject Code: C102

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	-	-	2	-	1	-	1	2	-	1	-	-
CO2	2	1	-	-	-	-	-	-	-	1	-	1	-	-
CO3	3	2	-	-	2	-	-	-	2	2	-	1	-	-
CO4	3	3	-	-	-	-	1	-	-	-	-	1	-	-
CO5	2	2	-	-	-	-	-	-	-	2	-	1	-	-
CO6	2	-	-	-	2	-	1	-	2	1	-	1	-	-
Average	3	2	-	-	2	-	1	-	2	2	-	1	-	-
Round-Off	3	2	0	0	2	0	1	0	2	2	-	1	0	0



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Basic Electrical Engineering

Year/Semester: 1st/1st

Subject Code: C103

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	1	1	2	1	-	-	-	-	1	2	1
CO2	3	3	2	1	1	2	1	-	-	-	-	1	2	1
CO3	3	3	2	1	1	2	1	-	-	-	-	1	2	1
CO4	3	3	2	1	1	2	1	-	-	-	-	1	2	1
CO5	3	3	2	1	1	2	1	-	-	-	-	1	2	1
CO6	2	2	1	1	1	2	1	-	-	-	-	2	2	1
Avg.	2.83	2.83	1.83	1	1	2	1					1.17	2	1
Round-Off	3	3	2	1	1	2	1	0	0	0	0	1	2	1



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Programming in C & Data Structure

Year/Semester: 1st/1st

Subject Code: C104

Course Outcome	Mapping CO's with PO's													
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2
CO1	3	3	3	3	2	2	2	-	3	-	2	-	-	1
CO2	3	3	2	3	2	1	2	1	2	-	2	1	-	1
CO3	3	3	3	3	2	-	-	2	-	-	1	-	-	1
CO4	3	3	3	3	2	2	2	2	-	-	2	1	-	1
CO5	3	3	3	3	2	2	2	1	1	1	2	1	-	1
CO6	3	3	2	3	2	1	2	2	2	1	2	1	-	1
Avg.	3	3	2.66	3	2	1.6	2	1.6	2	1	1.8	1	-	1
Round-Off	3	3	3	3	2	2	2	2	2	1	2	1	0	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Basic Civil Engineering

Year/Semester: 1st/1st

Subject Code: C105

Course Outcome														
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO7	PO8	PO 9	PO10	PO11	PO12	PSO 1	PSO 2
CO1	1	1	-	-	-	1	1	-	-	1	2	3	1	-
CO2	1	1	-	-	-	1	1	-	-	1	2	3	1	-
CO3	1	-	-	-	-	2	2	-	-	1	2	3	1	-
CO4	1	-	-	-	-	1	-	-	-	1	2	3	1	-
CO5	1	1	-	-	-	2	1	-	-	1	2	3	1	-
CO6	1	1	-	-	-	2	1	-	-	1	2	3	1	-
Avg	1	1	0	0	0	1.5	1.4	0	0	1	2	3	1	0
Round-Off	1	1	0	0	0	2	1	0	0	1	2	3	1	0



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Universal Human Values

Year/Semester: 1st/1st

Subject Code: C106

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	-	-	-	-	-	-	-	-	-	-	2	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	1	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	1	-	-
CO4	-	-	-	-	-	-	-	1	-	-	-	1	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	2	-	-
CO6	-	-	-	-	-	-	-	3	-	-	-	1	-	-
Average	-	-	-	-	-	-	-	2	-	-	-	1.3	-	-
Round-Off	0	0	0	0	0	0	0	2	0	0	0	1	0	0



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Physics Laboratory

Year/Semester: 1st/1st

Subject Code: C107

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	1	3	2	1	1	3	3	1	1	-	-
CO2	3	3	2	1	3	2	1	1	3	3	1	1	-	-
CO3	3	3	2	1	3	2	1	1	3	3	1	1	-	-
CO4	3	3	2	1	3	2	1	1	3	3	1	1	-	-
CO5	3	3	2	1	3	2	1	1	3	3	1	1	-	-
Course Average	3	3	2	1	3	2	1	1	3	3	1	1	0	0



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Basic Electrical Engineering Lab

Year/Semester: 1st/1st

Subject Code: C108

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO 1	PSO 2
CO1	3	3	2	1	3	2	1	1	3	3	1	1	2	1
CO2	3	3	2	1	3	2	1	1	3	3	1	1	2	1
CO3	3	3	2	1	3	2	1	1	3	3	1	1	2	2
CO4	3	3	2	1	3	2	1	1	3	3	1	1	2	, 1
CO5	3	3	2	1	3	2	1	1	3	3	1	1	2	1
Avg.	3	3	2	1	3	2	1	1	3	3	1	1	2	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Programming Lab

Year/Semester: 1st/1st

Subject Code: C109

Course Outcome	Mapping CO's with PO's													
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
CO1	3	3	3	3	-	2	1	2	-	1	2	-	-	1
CO2	2	3	2	-	-	-	2	-	-	1	2	-	-	1
CO3	3	3	3	-	2	-	1	-	2	1	2	-	-	1
CO4	3	3	3	-	-	-	2	-	-	1	2	-	-	1
CO5	3	3	3	-	-	-	2	-	-	1	2	-	-	1
CO6	3	3	2	-	-	-	1	-	-	1	2	-	-	1
Average	3	3	2.6	3	2	2	1.5	2	2	1	2	0		1
Round-off	3	3	3	3	2	2	2	2	2	1	2	0	0	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Engineering Graphics & Design Lab

Year/Semester: 1st/1st

Subject Code: C110

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO1	PSO2
CO1	2	2	2	1	3	-	-	-	-	2	-	2	2	2
CO2	-	2	2	1	2	-	-	-	-	1	-	1	1	1
CO3	-	2	2	1	2	-	1	-	-	1	2	1	1	1
CO4	-	2	1	1	2	-	-	-	1	2	-	2	1	1
Avg.	2	2	1.7	1	2	0	1	0	1	1.5	2	1.5	1.2	1.2
Round-off	2	2	2	1	2	0	1	0	1	2	2	2	1	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Mathematics-II

Year/Semester: 1st/ 2nd

Subject Code: C111

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	1	2	-	-	-	-	-	-	-	2	-	-
CO2	2	3	1	-	2	-	-	-	-	-	-	2	-	-
CO3	2	3	2	1	2	-	-	-	-	-	-	2	-	-
CO4	1	2	2	1	-	-	-	-	-	-	-	1	-	-
CO5	3	2	2	2	-	-	-	-	-	-	-	2	-	-
CO6	2	3	2	1	-	-	-	-	-	-	-	1	-	-
Avg.	2	2.6	1.6	1.1	2	-	-	-	-	-	-	1.6	-	-
Round-Off	2	3	2	1	2	0	0	0	0	0	0	2	0	0



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Chemistry

Year/Semester: 1st/ 2nd

Subject Code: C112

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	-	2					-	-	-	-	-	-	-
CO2	2	2	-		3			-	-	-	-	2	-	-
CO3	2	2	-					-	-	-	-	-	-	-
CO4	2		--				3	-	-	-	-	2	-	-
CO5	2				-	3	3	-	-	-	-	2	-	-
CO6	2	2	2	0	3	3	3					2	-	-
Average	2	2	2	0	3	3	3	0	0	0	0	2	0	0
Round-off	2	2	2	0	3	3	3	0	0	0	0	2	0	0



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Basic Electronics

Year/Semester: 1st/ 2nd

Subject Code: C113

Course outcome s	Mapping CO'S with PO's													
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PS O1	PSO 2
CO1	3	3	3	3	-	-	-	-	-	-	1	2	3	3
CO2	3	3	3	3	-	-	-	-	-	-	1	2	3	3
CO3	3	3	3	3	-	-	-	-	-	-	1	2	3	3
CO4	3	3	3	3	-	-	-	-	-	-	1	2	3	3
CO5	3	3	3	3	-	-	-	-	-	-	1	2	3	3
CO6	3	3	3	3	-	-	-	-	-	-	1	2	3	3
AVG	3	3	3	3	0	0	0	0	0	0	1	2	3	3



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Engineering Mechanics

Year/Semester: 1st/ 2nd

Subject Code: C114

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	1	1				1	1	1	1	2	1
CO2	3	3	2	1	1				1	1	1	1	2	1
CO3	3	3	2	1	1				1	1	1	1	2	1
CO4	3	3	2	1	1				1	1	1	1	2	1
CO5	3	3	2	1	1				1	1	1	1	2	1
CO6	3	3	2	1	1				1	1	1	1	2	1
Average	3	3	2	1	1				1	1	1	1	2	1
Round-off	3	3	2	1	1	0	0	0	1	1	1	1	2	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Basic Mechanical Engineering

Year/Semester: 1st/ 2nd

Subject Code: C115

CO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO2
CO1	3	3	3	3	1				1	1	2	2	2	2
CO2	3	3	2	2					1	1	1	1	2	1
CO3	3	3	3	2					1	1	1	1	2	1
CO4	2	1	1	1					1	1	1	1	2	1
CO5	3	2	2	2					1	1	2	1	2	1
CO6	3	2	3	2	2			2	1	1	2	2	2	2
Average	2.8	2.3	2.3	2.0	1.5			2.0	1.0	1.0	1.5	1.3	2.0	1.3
Round off	3	2	2	2	2	0	0	2	1	1	1	1	2	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: English for Technical Writing

Year/Semester: 1st/ 2nd

Subject Code: C116

Course Outcome s	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P010	P011	PO12	PSO1	PSO2
CO1	-	-	-	-	-	-	-	-	-	3	-	2	-	-
CO2	-	-	-	-	-	1	-	-	-	3	-	2	-	-
CO3	-	-	-	-	-	-	-	-	-	3	-	1	-	-
CO4	-	-	-	-	-	-	-	-	-	3	-	1	-	-
CO5	-	-	-	-	-	-	-	2	-	3	-	2	-	-
CO6	-	-	-	-	-	-	-	1	2	3	-	2	-	-
Course Coverag e	0	0	0	0	0	1	0	2	2	3	0	2	0	0



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Chemistry Laboratory

Year/Semester: 1st/ 2nd

Subject Code: C117

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PS O 1	PS O 2
CO1	3	2	3	2	2	2							-	-
CO2	3	2	3	2	2	2							-	-
CO3	3	2	3	2	2	2							-	-
CO4	3	2	3	2	2	2	1	1					-	-
CO5	3	2	3	2	2	2							1	1
Average	3	2	3	2	2	2	1	1	0	0	0	0	1	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Basic Electronics Lab

Year/Semester: 1st/ 2nd

Subject Code: C118

Course outcomes	Mapping COs with POs & PSOs													
	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO 1	PSO 2
CO1	2	3	2	2	-	-	1	-	2	1	-	1	3	2
CO2	2	3	2	2	-	-	-	-	2	1	-	1	3	2
CO3	2	3	2	2	-	-	-	-	2	1	-	1	3	2
CO4	2	3	2	2	-	-	-	-	2	1	-	1	3	2
CO5	2	2	2	2	-	-	-	-	2	1	-	1	3	2
Avg	2	2.8	2	2	-	-	1	-	2	1	-	1	3	2
Round-off	2	3	2	2	0	0	1	0	2	1	0	1	3	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Communicative English & Report Writing Lab.

Year/Semester: 1st/ 2nd

Subject Code: C119

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	-	-	-	-	-	-	-	1	3	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	1	-	-	-	-
CO3	-	-	-	-	-	1	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	2	3	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	3	-	-	-	-
CO6	-	-	-	-	-	-	-	-	1	3	-	2	-	-
Course Coverage	0	0	0	0	0	1	0	0	1	3	0	2	0	0



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Workshop & Digital Manufacturing Lab.

Year/Semester: 1st/ 2nd

Subject Code: C120

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	3	2	-	-	2	-	1	2	1	1	2	1
CO2	1	2	3	1	-	-	1	-	1	1	1	1	2	1
CO3	1	2	2	1	2	-	1	-	-	2	2	2	3	2
CO4	1	2	1	1	2	-	1	-	-	2	2	2	3	2
Avg.	1.2	2	2.2	1.2	2	0	1.2	0	1	1.7	1.5	1.5	2.5	1.5
Round-off	1	2	2	1	2	0	1	0	1	2	2	2	3	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Mathematics-III

Year/Semester: 2nd / 3rd

Subject Code: C201

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	2	2	1	1	2	2	2	3	3
CO2	3	3	2	3	3	2	2	1	3	3	2	2	3	2
CO3	3	3	3	2	3	2	2	2	3	3	2	2	2	2
CO4	3	3	2	3	3	3	1	1	3	3	1	2	3	2
CO5	3	3	3	2	3	2	1	2	3	2	2	2	2	1
CO6	3	3	2	3	3	3	2	1	2	3	3	2	2	2
Avg.	3	3	2.5	2.5	2.8	2.3	1.6	1.3	2.5	2.6	2	2	2.5	2
Round off	3	3	3	3	3	2	2	1	3	3	2	2	3	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: OOP Using JAVA

Year/Semester: 2nd / 3rd

Subject Code: C202

Course Outcome	Mapping COs with POs & PSOs													
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO1	PSO2
C202.1	3	2	3	-	2	-	3	-	-	-	-	-	3	2
C202.2	3	2	3	-	3	-	-	-	-	-	-	3	3	3
C202.3	3	2	3	-	2	-	-	-	-	-	2	2	3	3
C202.4	3	2	3	-	3	-	-	-	-	-	2	3	3	3
C202.5	3	3	3	-	3	-	-	-	-	-	-	3	3	3
C202.6	3	2	3	-	2	-	-	-	-	-	-	2	3	3
Average	3	2	3	0	2.5	-	3	-	-	-	2	2.5	3	2.5
Round-off	3	2	3	0	3	0	3	0	0	0	2	3	3	3



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Organizational Behavior

Year/Semester: 2nd / 3rd

Subject Code: C203

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1				3								2	3	2
CO2								2			2	2	3	1
CO3									3			2	3	2
CO4									3	2		2	3	3
CO5				2				1				3	3	3
CO6				2		2						2	3	2
Average	0	0	0	2.3	0	2	0	1.5	3	2	2	2.1	3	2.1
Round-off	0	0	0	2	0	2	0	2	3	2	2	2	3	2



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Digital Logic Design

Year/Semester: 2nd / 3rd

Subject Code: C204

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO2	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO3	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO4	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO5	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO6	3	3	3	3	3	-	-	-	-	-	2	3	3	2
AVG	3	3	3	3	3	-	-	-	-	-	2	3	3	2
Round off	3	3	3	3	3	0	0	0	0	0	2	3	3	2



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Data Structure

Year/Semester: 2nd / 3rd

Subject Code: C205

Course Outcome	Mapping COs with POs & PSOs													
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	2	2	1	1	1	-	1	-	3	3
CO2	3	3	3	3	2	2	2	1	2	2	2	1	3	3
CO3	3	3	3	3	2	-	-	2	2	2	1	2-	3	3
CO4	3	3	3	3	2	2	2	2	-	-	2	1	3	3
CO5	3	3	3	3	2	2	2	1	3	2	2	1	3	3
CO6	2	2	2	2	1	1	1	1	2	1	1	1	2	1
Average	2.8	2.8	2.8	2.8	1.8	1.8	1.6	1.3	2	1.7	1.5	1.2	2.8	2.6
Round Off	3	3	3	3	2	2	2	1	2	2	2	1	3	3



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Environmental Science

Year/Semester: 2nd / 3rd

Subject Code: C206



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: DIGITAL LOGIC DESIGN LAB.

Year/Semester: 2nd / 3rd

Subject Code: C207

Course outcomes	Mapping COs with POs & PSOs													
	PO1	PO2	PO3	PO4	PO5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
CO1	2	3	2	2	-	-	1	-	2	1	-	1	3	2
CO2	2	3	2	2	-	-	-	-	2	1	-	1	3	2
CO3	2	3	2	2	-	-	-	-	2	1	-	1	3	2
CO4	2	3	2	2	-	-	-	-	2	1	-	1	3	2
CO5	2	2	2	2	-	-	-	-	2	1	-	1	3	2
Avg	2	2.8	2	2	-	-	1	-	2	1	-	1	3	2
Round off	2	3	2	2	0	0	1	0	2	1	0	1	3	2



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Data Structure Lab.

Year/Semester: 2nd / 3rd

Subject Code: C208

Course Outcome	Mapping COs with POs & PSOs													
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2	-	-	-	-	-	-	-	-	2	1
CO2	2	2	2	2	-	-	-	-	-	-	-	-	2	1
CO3	2	2	2	2	-	-	-	-	-	-	-	-	2	1
CO4	2	2	2	2	-	-	-	-	-	-	-	-	2	1
CO5	2	2	2	2	-	-	-	-	-	-	-	-	2	1
Average	2	2	2	2	-	-	-	-	-	-	-	-	2	1
Round Off	2	2	2	2	0	0	0	0	0	0	0	0	2	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: OOP Using Java Lab.

Year/Semester: 2nd / 3rd

Subject Code: C209

Course Outcome	Mapping COs with POs & PSOs													
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO1	PSO2
C202.1	3	2	3	-	2	-	3	-	-	-	-	-	3	2
C202.2	3	2	3	-	3	-	-	-	-	-	-	3	3	3
C202.3	3	2	3	-	2	-	-	-	-	-	2	2	3	3
C202.4	3	2	3	-	3	-	-	-	-	-	2	3	3	3
C202.5	3	3	3	-	3	-	-	-	-	-	-	3	3	3
C202.6	3	2	3	-	2	-	-	-	-	-	-	2	3	3
Average	3	2	3	0	2.5	-	3	-	-	-	2	2.5	3	2.5
Round-off	3	2	3	0	3	0	3	0	0	0	2	3	3	3



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Evaluation of Internship-I

Year/Semester: 2nd / 3rd

Subject Code: C210

Course Outcome	Mapping COs with POs & PSOs													
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO 1	PSO 2
CO1	2	2	2	2	1	2	1	2	2	2	2	2	2	2
CO2	3	2	3	3	2	2	2	2	3	2	2	2	2	2
CO3	1	1	1	1	1	1	1	2	2	2	1	1	2	2
CO4	1	1	1	1	1	1	1	2	2	1	1	1	2	2
CO5	1	1	1	1	1	1	1	1	2	1	1	1	1	2
Average	1.6	1.4	1.6	1.6	1.2	1.4	1.2	1.8	2.2	1.6	1.4	1.4	1.8	2
Round off	2	1	2	2	1	1	1	2	2	2	1	1	2	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Discrete Mathematics

Year/Semester: 2nd / 4th

Subject Code: C211

Course outcomes	Mapping COs with POs & PSOs													
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
CO1	3	3	3	2	2	2	2	1	1	1	2	2	3	3
CO2	3	3	2	3	3	2	2	1	3	3	2	2	3	2
CO3	3	3	3	2	3	2	2	2	3	3	2	2	2	2
CO4	3	3	2	3	3	3	1	1	3	3	1	2	3	2
CO5	3	3	3	2	3	2	1	2	3	2	2	2	2	1
CO6	3	3	2	3	3	3	2	1	2	3	3	2	2	2
Avg	3	3	2.5	2.5	2.8	2.3	1.6	1.3	2.5	2.5	2	2	2.5	2
Round off	3	3	3	3	3	2	2	1	3	3	2	2	3	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Design and Analysis of Algorithms

Year/Semester: 2nd / 4th

Subject Code: C212

Course Outcome	Mapping COs with POs & PSOs													
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO 1	PSO 2
CO1	3	3	3	3	2	2	2	-	-	-	-	1	2	2
CO2	3	3	3	3	-	2	2	-	2	-	-	1	2	2
CO3	3	3	3	3	3	1	-	2	-	-	1	1	2	1
CO4	3	3	3	3	-	3	2	-	2	-	-	1	2	1
CO5	3	3	3	3	-	-	-					1	1	1
CO6	3	3	3	3	-	-	-					1	1	0
Avg.	3	3	3	3	2.5	2	2	2	2	-	1	1	1.6	1.1
Round off	3	3	3	3	3	2	2	2	2	0	1	1	2	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Engineering Economics

Year/Semester: 2nd / 4th

Subject Code: C213

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	P01 0	P01 1	PO 12	PSO 1	PSO 2
CO1				2								2	2	1
CO2		2		2								2	3	2
CO3					2	3		1				2	3	2
CO4	3	2	2								2	2	3	3
CO5						2						2	1	1
CO6						2						2	2	1
Average	3	2	2	2	2	1.1	0	1	0	0	2	2	2.3	1.6
Round off	3	2	2	2	2	1	0	1	0	0	2	2	2	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Computer Organization and Architecture

Year/Semester: 2nd / 4th

Subject Code: C214

Course Outcome s	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	-	-	-	-	-	-	-	-	2	1
CO2	3	3	-	2	-	-	-	-	-	-	-	-	2	2
CO3	3	2	3	2	-	-	-	-	-	-	-	-	2	2
CO4	3	2	2	2	-	-	-	-	-	-	-	-	2	2
CO5	3	2	2	2	-	-	-	-	-	-	-	-	1	2
CO6	3	2	2	3	-	2	2	-	-	-	-	2	1	1
Average	3	2.6	2.2	2.1	-	2	2	-	-	-	-	2	1.6	1.6
Round off	3	2	2	2	0	2	2	0	0	0	0	2	2	2



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Data Communication

Year/Semester: 2nd / 4th

Subject Code: C215

Course Outcome s	PO1	PO2	PO3	PO 4	PO5	PO6	PO 7	PO8	PO9	P010	P011	PO12	PSO 1	PSO 2
CO1	3	2	2	-	1	-	-	2	-	-	-	1	2	1
CO2	3	2	2	-	1	-	-	2	-	-	-	1	2	1
CO3	3	2	2	-	1	-	-	2	-	-	-	1	2	1
CO4	3	2	2	-	1	-	-	2	-	-	-	1	2	1
CO5	3	2	2	-	1	-	-	2	-	-	-	1	2	1
CO6	3	2	2	-	1	-	-	2	-	-	-	1	2	1
Average	3	2	2	-	1	-	-	2	-	-	-	1	2	1
Round off	3	2	2	0	1	0	0	2	0	0	0	1	2	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Microprocessor and Microcontroller

Year/Semester: 2nd / 4th

Subject Code: C216

Course outcome s	Mapping CO'S with PO's													
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
CO1	3	3	2	2	2	-	-	-	-	-	1	2	3	2
CO2	3	3	2	2	2	-	-	-	-	-	1	2	3	2
CO3	3	3	2	2	2	-	-	-	-	-	1	2	3	2
CO4	3	3	3	2	3	-	-	-	-	-	1	2	3	2
CO5	3	3	3	2	3	-	-	-	-	-	1	2	3	2
CO6	3	3	3	2	3	-	-	-	-	-	1	2	3	2
Avg	3	3	2.5	2	2.5	-	-	-	-	-	1	2	3	2
Round off	3	3	3	2	3	0	0	0	0	0	1	2	3	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Digital Signal Processing

Year/Semester: 2nd / 4th

Subject Code: C217

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO2	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO3	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO4	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO5	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO6	3	3	3	3	3	-	-	-	-	-	2	3	3	2
AVG	3	3	3	3	3	-	-	-	-	-	2	3	3	2
Round off	3	3	3	3	3	0	0	0	0	0	2	3	3	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Constitution of India

Year/Semester: 2nd / 4th

Subject Code: C218

CO MAPPING With PO,PSO: The CO's of Constitution of India does not Map or relate with any PO's & PSO's



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Problem Solving and Python Programming Lab.

Year/Semester: 2nd / 4th

Subject Code: C219

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	2	2	2	-	3	-	2	-	3	2
CO2	3	3	2	1	2	2	2	-	2	-	2	1	3	3
CO3	3	3	3	2	2	-	-	2	-	-	1	-	3	3
CO4	3	3	3	2	2	2	2	2	-	-	2	1	3	2
CO5	3	3	3	1	2	2	2	1	1	1	2	1	3	3
AVG	3	3	2.6	1.6	2	2	2	1.6	2	1	1.8	1	3	2.6
Round off	3	3	3	2	2	2	2	2	2	1	2	1	3	3



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Design and Analysis of Algorithms Lab

Year/Semester: 2nd / 4th

Subject Code: C220

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	-	-	-	-	-	-	-	1	2	1
CO2	3	3	3	3	-	-	-	-	-	-	-	1	2	1
CO3	3	3	3	3	-	-	-	-	-	-	-	1	2	1
CO4	3	3	3	3	-	-	-	-	-	-	-	1	2	1
CO5	3	3	3	3	-	-	-	-	-	-	-	1	2	1
CO6	3	3	3	3	-	-	-	-	-	-	-	1	2	1
AVG	3	3	3	3	-	-	-	-	-	-	-	1	2	1
Round off	3	3	3	3	0	0	0	0	0	0	0	1	2	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Computer Organization & Architecture Lab

Year/Semester: 2nd / 4th

Subject Code: C221

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	-	-	-	-	-	-	-		2	1
CO2	3	3	-	2	-	-	-	-	-	-	-	-	2	2
CO3	3	2	3	3	-	-	-	-	-	-	-	-	2	2
CO4	3	3	2	3	-	-	-	-	-	-	-	-	2	2
CO5	3	3	2	3	-	-	-	-	-	-	-	-	1	2
CO6	3	2	2	3	-	-		-	-	-	-	2	1	1
AVG	3	2.6	2.2	2.6	-	-	-	-	-	-	-	2	1.6	1.6
Round off	3	3	2	3	0	0	0	0	0	0	0	2	2	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Formal Languages and Automata Theory

Year/Semester: 3rd / 5th

Subject Code: C301

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	3	-	-	-	-	-	-	-	2	2	2
CO2	3	3	3	3	-	-	-	-	-	-	-	2	2	2
CO3	3	3	3	3	-	-	-	-	-	-	-	2	2	2
CO4	2	3	2	1	-	-	-	-	-	-	-	1	2	2
CO5	2	3	2	2	-	-	-	-	-	-	-	1	1	1
CO6	1	3	1	2	-	-	-	-	-	-	-	1	1	2
AVG	2.3	2.8	2.1	2.3	-	-	-	-	-	-	-	1.5	1.6	1.8
Round off	2	3	2	2	0	0	0	0	0	0	0	2	2	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Data Base Management System

Year/Semester: 3rd / 5th

Subject Code: C302

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	2	2	-	2	2	-	-	-	-	2	3	3
CO2	3	3	-	2	-	2	2	-	-	-	-	2	3	3
CO3	-	3	2	-	-	2	2	-	-	-	-	2	3	3
CO4	3	3	2	2	-	2	2	-	-	-	-	2	3	2
CO5	3	3	2	2	-	2	2	-	-	-	-	2	3	2
CO6	3	3	2	2	-	2	2	-	-	-	-	2	2	1
AVG	2.8	3	2	2	-	2	2	-	-	-	-	2	2.8	2.3
Round off	3	3	2	2	0	2	2	0	0	0	0	2	3	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Operating System

Year/Semester: 3rd / 5th

Subject Code: C303

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2	2	-	-	-	-	-	-	1	2	1
CO2	3	3	2	2	2	-	-	-	-	-	-	1	2	1
CO3	3	3	3	3	2	-	-	-	-	-	-	1	2	1
CO4	2	3	2	3	2	-	-	-	-	-	-	1	2	1
CO5	3	2	3	3	2	2	2	-	-	-	-	1	2	1
CO6	2	2	3	2	2	-	-	2	1	1	2	1	2	1
AVG	2.5	2.5	2.5	2.5	2	2	2	2	1	1	2	1	2	1
Round off	3	3	3	3	2	2	2	2	1	1	2	1	2	1



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Artificial Intelligence & Machine Learning

Year/Semester: 3rd / 5th

Subject Code: C304

Course Outcome	Mapping CO's with PO's											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO304.1	3	2	1	1	-	-	-	-	-	-	-	
CO304.2	3	3	3	1	-	-	-	-	-	-	-	
CO304.3	3	3	2	2	-	-	-	-	-	-	-	
CO304.4	3	2	3	3	-	-	-	-	-	-	-	
CO304.5	2	2	2	2	0	0	-	-	-	-	-	1
CO304.6	1	3	2	2	-	-	-	-	-	-	-	1
Average	2.5	2.5	2.1	1.8	0	0	-	-	-	-	-	1
Round up	3	3	2	2	0	0	0	0	0	0	0	1

Course Outcome	Mapping CO's with PSO's	
	PSO 1	PSO 2
CO304.1	2	2
CO304.2	3	2
CO304.3	3	2
CO304.4	3	3
CO304.5	3	3
CO304.6	2	2
Average	2.6	2.3
Round up	3	2



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Computer Graphics

Year/Semester: 3rd / 5th

Subject Code: C305

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	-	1	-	-	-	-	-	-	-	2	1
CO2	3	3	2	-	2	-	-	-	-	-	-	1	2	1
CO3	2	2	3	-	2	-	-	-	-	-	-	-	2	1
CO4	3	3	2	1	2	-	-	-	-	-	-	1	2	1
CO5	3	3	3	2	2	-	-	-	-	1	-	1	2	1
CO6	3	3	3	2	2	1	2	-	-	1	2	1	2	1
AVG	2.7	2.7	2.5	1.6	1.8	1	2	-	-	1	2	1	2	1
Round off	3	3	3	2	2	1	2	0	0	1	2	1	2	1



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Universal Human Values

Year/Semester: 3rd / 5th

Subject Code: C306

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	-	-	-	-	-	-	-	-			2	-	-
CO2	-	-	-	-	-	-	-	-	-			1	-	-
CO3	-	-	-	-	-	-	-	-	-			1	-	-
CO4	-	-	-	-	-	-	-	1	-			1	-	-
CO5	-	-	-	-	-	-	-	-	-			2	-	-
CO6	-	-	-	-	-	-	-	3	-			1	-	-
AVG	-	-	-	-	-	-	-	2	-			1.3	-	-
Round off	0	0	0	0	0	0	0	2	0	0	0	1	0	0



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Formal Languages and Automata Theory Lab

Year/Semester: 3rd / 5th

Subject Code: C307

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	3	-	-	-	-	-	-	-	-	2	2
CO2	3	3	3	3	-	-	-	-	-	-	-	-	2	2
CO3	3	3	3	3	-	-	-	-	-	-	-	-	2	2
CO4	3	3	2	2	-	-	-	-	-	-	-	-	2	2
CO5	3	3	2	2	-	-	-	-	-	-	-	-	1	1
CO6	2	3	1	3	-	-	-	-	-	-	-	2	1	2
AVG	2.8	2.8	2.3	2.6	-	-	-	-	-	-	-	2	1.6	1.8
Round off	3	3	2	3	0	0	0	0	0	0	0	2	2	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Database Management System Lab

Year/Semester: 3rd / 5th

Subject Code: C308

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	-	3	-	-	2	-	-	-	-	-	1	2	2
CO2	-	-	3	-	-	2	-	-	-	-	-	1	2	2
CO3	-	-	3	2	-	2	-	-	-	-	-	1	2	2
CO4	-	-	3	2	-	2	-	-	-	-	-	1	2	2
CO5	-	2	3	2	-	2	-	-	-	-	-	1	2	2
CO6	-	-	3	2	2	2	-	-	-	-	-	1	2	2
AVG	2	2	3	2	2	2	-	-	-	-	-	1	2	2
Round off	2	2	3	2	2	2	0	0	0	0	0	1	2	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Operating System Lab

Year/Semester: 3rd / 5th

Subject Code: C309

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	-	-	-	-	-	-			1	2	1
CO2	3	3	2	-	-	-	-	-	-			1	3	1
CO3	3	3	3	3	-	-	-	-	-			1	3	2
CO4	2	3	2	3	2	-	-	-	-			2	3	2
2CO5	3	2	3	3	2	2	2	-	-	2	1	2	2	2
CO6	2	2	3	2	2	-	-	2	1	2	1	2	2	1
AVG	2.5	2.5	2.5	2.7	2	2	2	2	1	2	1	1.5	2.5	1.5
Round off	3	3	3	3	2	2	2	2	1	2	1	2	3	2



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Evaluation Of Summer Internship

Year/Semester: 3rd / 5th

Subject Code: C310

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	1	1	2	1	2	2	2	2	2	2	2
CO2	3	2	2	2	2	2	2	2	3	2	2	2	2	2
CO3	1	1	1	2	1	1	1	2	2	2	1	1	2	2
CO4	1	1	1	1	1	1	1	2	2	1	1	1	2	2
CO5	1	1	1	2	1	1	1	1	2	1	1	1	1	2
AVG	1.6	1.4	1.6	1.6	1.2	1.4	1.2	1.8	2.2	1.6	1.4	1.4	1.8	2
Round off	2	1	2	2	1	1	1	2	2	2	1	1	2	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Software Engineering

Year/Semester: 3rd / 6th

Subject Code: C311

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2	1	-	-	-	-	1	1	1	2	2
CO2	2	2	2	2	1	-	-	-	-	3	1	1	2	2
CO3	3	1	2	1	1	-	-	-	-	1	1	1	2	2
CO4	2	3	2	1	1	-	-	-	-	1	1	1	2	2
CO5	2	3	2	1	1	-	-	-	-	1	1	1	1	1
CO6	2	1	2	1	1	-	-	-	3	1	1	1	2	2
AVG	2.3	2	2	1.3	1	-	-	-	3	1.3	1	1	1.8	1.8
Round off	2	2	2	1	1	0	0	0	3	1	1	1	2	2



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Compiler Design

Year/Semester: 3rd / 6th

Subject Code: C312

Course Outcome	Mapping CO's with PO's											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12
CO312.1	3	2	1	1	-	-	-	-	-	-	-	-
CO312.2	1	3	3	1	2	-	-	-	-	-	-	-
CO312.3	1	1	3	1	2	-	-	-	-	-	-	-
CO312.4	1	1	3	1	-	-	-	-	-	-	-	2
CO312.5	1	1	1	3	-	-	-	-	-	-	-	2
CO312.6	1	2	2	1	-	-	-	-	-	-	-	2
Average	1	2	2	1	2	-	-	-	-	-	-	2

Course Outcome	Mapping CO's with PSO's	
	PSO 1	PSO 2
CO312.1	2	1
CO312.2	1	1
CO312.3	2	1
CO312.4	3	2
CO312.5	2	1
CO312.6	3	1
Average	2	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Optimization in Engineering

Year/Semester: 3rd / 6th

Subject Code: C313

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	2	2	1	1	2	2	2	3	3
CO2	3	3	2	3	3	2	2	1	3	3	2	2	3	2
CO3	3	3	3	2	3	2	2	2	3	3	2	2	2	2
CO4	3	3	2	3	3	3	1	1	3	3	1	2	3	2
CO5	3	3	3	2	3	2	1	2	3	2	2	2	2	1
CO6	3	3	2	3	3	3	2	1	2	3	3	2	2	2
AVG	3	3	2.5	2.5	2.8	2.3	1.6	1.3	2.5	2.6	2	2	2.5	2
Round off	3	3	3	3	3	2	2	1	3	3	2	2	3	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Real-Time System

Year/Semester: 3rd / 6th

Subject Code: C314

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	-	-	-	-	-	-	2	-	1	2	1
CO2	3	3	-	2	-	2	2	-	-	-	-	1	2	1
CO3	3	-	3	-	-	2	2	-	-	-	-	1	2	1
CO4	3	3	2	3	-	2	2	-	-	-	-	1	2	1
CO5	2	2	1	-	-	-	-	-	-	-	-	1	2	1
CO6	3	2	2	2	-	-	-	-	-	-	-	1	2	1
AVG	2.6	2.4	2	2.6	-	2	2	-	-	2	-	1	2	1
Round off	3	2	2	3	0	2	2	0	0	2	0	1	2	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Analog and Digital Communication

Year/Semester: 3rd / 6th

Subject Code: C315



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Essence of Indian Knowledge Tradition - I

Year/Semester: 3rd / 6th

Subject Code: C316



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Software Engineering Lab

Year/Semester: 3rd / 6th

Subject Code: C317

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	3	-	-	2	-	-	-	1	1	2	2
CO2	2	3	-	2	-	-	2	-	-	-	1	1	2	1
CO3	1	-	2	-	-	-	2	-	-	-	1	1	2	2
CO4	2	3	2	2	-	-	2	-	-	-	1	1	1	2
CO5	1	1	1	1	-	-	1	-	-	-	1	1	-	-
CO6	1	1	1	1	-	-	1	-	-	-	1	1	-	-
AVG	1.6	2.2	1.6	1.8	0	0	1.6	0	0	0	1	1	1.7	1.7
Round off	2	2	2	2	0	0	2	0	0	0	1	1	2	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Compiler Design Lab

Year/Semester: 3rd / 6th

Subject Code: C318

Course Outcome	Mapping CO's with PO's											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12
CO318.1	3	3	2	1	-	-	-	-	-	-	-	-
CO318.2	3	3	2	1	-	-	-	-	-	-	-	-
CO318.3	3	3	2	1	-	-	-	-	-	-	-	-
CO318.4	3	3	2	1	-	-	-	-	-	-	-	-
CO318.5	3	3	2	1	-	-	-	-	-	-	-	-
Average	3	3	2	1	0	0	0	0	0	0	0	0

Course Outcome	Mapping CO's with PSO's	
	PSO 1	PSO 2
CO318.1	2	1
CO318.2	2	1
CO318.3	2	1
CO318.4	2	1
CO318.5	2	1
Average	2	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Future Ready Contributor Develop Model Lab

Year/Semester: 3rd / 6th

Subject Code: C319

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	-	-	-	-	-	-	1	-	-	-	1	-	-
CO2	-	-	-	-	-	-	-	-	2	-	-	1	-	-
CO3	-	-	-	-	-	-	-	-	2	-	-	1	1	-
CO4	-	-	2	-	-	-	-	-	1	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	1	-	1	-	-	-
CO6	-	-	-	-	-	2	-	-	1	-	-	-	1	-
Average	-	-	2	-	-	2	-	1	1.4	-	1	1	1	-
Round off	0	0	2	0	0	2	0	1	1	0	1	1	1	0



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Seminar-I

Year/Semester: 3rd / 6th

Subject Code: C320

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	2	1	1	2	1	-	2	-	2	2	1
CO2	3	2	1	2	1	2	2	1	-	2	-	2	2	1
CO3	3	2	2	2	1	2	2	1	-	2	-	2	2	1
CO4	3	2	2	1	1	2	2	1	-	2	-	2	2	1
CO5	3	2	2	1	1	1	2	1	-	2	-	2	2	1
CO6	3	2	2	1	1	1	2	1	-	2	-	2	2	1
AVG	3	2	1.6	1.5	1	1.5	2	1	-	2	-	2	2	1
Round off	3	2	2	2	1	2	2	1	0	2	0	2	2	1



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Entrepreneurship Development

Year/Semester: 4th / 7th

Subject Code: C401

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1								2				2	3	2
CO2				2	2	2				3		3	2	3
CO3							3	2				2	3	1
CO4											3	2	3	2
CO5						3						3	3	2
CO6			3			3				2	2	3	3	1
AVG	0	0	3	2	2	2.6	3	2		2.5	2.5	2.5	2.8	1.8
Round off	0	0	3	2	2	3	3	2	0	3	3	3	3	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Embedded System

Year/Semester: 4th / 7th

Subject Code: C402

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO2	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO3	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO4	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO5	3	3	3	3	3	-	-	-	-	-	2	3	3	2
CO6	3	3	3	3	3	-	-	-	-	-	2	3	3	2
AVG	3	3	3	3	3	0	0	0	0	0	2	3	3	2



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Software Project Management

Year/Semester: 4th / 7th

Subject Code: C403

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	3	-	3	1	3	-	-	-	3	1	3	2
CO2	3	3	2	3	3	2	2	1	-	-	3	1	3	3
CO3	3	3	3	-		1	2	1	-	-	2	1	3	3
CO4	3	2	1	-	-	1	2	1	-	-	2	1	3	3
CO5	3	2	1	-	-	1	3	1	3	3	2	1	3	2
CO6	3	2	1	-	-	1	3	1	-	-	1	1	3	2
AVG	3	2.3	1.8	3	3	1.1	2.5	1	3	3	1.6	1	3	2.5
Round off	3	2	2	3	3	1	3	1	3	3	2	1	3	3



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CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Green Technology

Year/Semester: 4th / 7th

Subject Code: C404

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	-	-		-	-	-	-	-	-	3	2		1
CO2	2	-	-		-	-	-	-	-	-	2	2		3
CO3	2	3	3	3	3	-	-	-	-	-	3	2	3	3
CO4	2	3	3	3	3	-	-	-	-	-	1	2	3	2
CO5	3	3	3	3	3	-	-	-	1	-	1	2	2	2
CO6	3	3	3	3	3	-	-	-	-	-	1	2		2
AVG	2.5	3	3	3	3	-	-	-	1	-	1.8	2	2.6	2.3
Round off	3	3	3	3	3	0	0	0	1	0	2	2	3	2



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Digital VLSI Design

Year/Semester: 4th / 7th

Subject Code: C405

Course outcom es	Mapping CO'S with PO's													
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
CO1	2	--	2	-	3	2	3	-	-	-	-	2	-	-
CO2	2	-	2	-	2	-	2	-	-	-	-	2	-	1
CO3	2	-	2	-	2	2	2	2	-	-	-	2	-	-
CO4	2	-	3	-	2	2	2	2	-	-	-	2	-	1
CO5	2	-	2	-	3	-	3	-	-	-	-	2	1	-
CO6	2	-	3	-	3	1	3	2	-	-	-	2	-	1
AVG	2	-	2.3	-	2.5	1.7	2.5	2	-	-	-	2	1	1
Round off	2	0	2	0	3	2	3	2	0	0	0	2	1	1



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Cyber Law and Ethics

Year/Semester: 4th / 7th

Subject Code: C406

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	-	1	-	-	1	1	2	-	-	-	-	1	2
CO2	-	-	1	-	-	1	1	2	-	-	-	-	1	-
CO3	-	-	1	-	-	1	1	2	-	-	-	-	1	2
CO4	-	-	1	-	-	1	1	3	-	-	-	1	1	2
CO5	-	-	1	-	-	1	1	2	-	-	-	1	1	-
CO6	-	-	1	-	-	1	1	3	-	-	-	-	1	1
AVG	-	-	1	-	-	1	1	2.3	-	-	-	1	1	1.7
Round off	0	0	1	0	0	1	1	2	0	0	0	1	1	2



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Minor Project

Year/Semester: 4th / 7th

Subject Code: C407

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	2	1	2	1	1	2	2	2	1	1	2	1
CO2	2	2	2	1	2	1	1	2	2	2	1	1	2	1
CO3	-	2	2	1	2	1	1	2	2	2	1	1	2	1
CO4	3	3	2	1	2	1	1	2	2	2	1	1	2	1
CO5	3	2	1	1	2	1	1	2	2	2	1	1	1	1
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	=
AVG	2.5	2.4	1.8	1	2	1	1	2	2	2	1	1	1.8	1
Round off	3	2	2	1	2	1	1	2	2	2	1	1	2	1



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Seminar-II

Year/Semester: 4th / 7th

Subject Code: C408

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	2	1	1	2	1	-	2	-	2	2	1
CO2	3	2	1	2	1	2	2	1	-	2	-	2	2	1
CO3	3	2	2	2	1	2	2	1	-	2	-	2	2	1
CO4	3	2	2	1	1	2	2	1	-	2	-	2	2	1
CO5	3	2	2	1	1	1	2	1	-	2	-	2	2	1
CO6	3	2	2	1	1	1	2	1	-	2	-	2	2	1
AVG	3	2	1.6	1.5	1	1.5	2	1	-	2	-	2	2	1
Round off	3	2	2	2	1	2	2	1	0	2	0	2	2	1



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Comprehensive Viva

Year/Semester: 4th / 8th

Subject Code: C409

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	-	-	-	-	2	-	-	-	-	-	-	1	-
CO2	-	-	-	-	-	2	-	3	-	-	3	-	1	-
CO3	-	-	-	-	-	-	-	3	-	-	-	-	1	-
CO4	-	-	-	-	-	3	-	-	-	-	3	-	1	-
CO5	-	-	-	-	-	3	-	-	-	-	-	-	1	-
CO6	-	-	-	-	-	-	-	-	-	-	3	-	1	-
AVG	-	-	-	-	-	2.5	-	3	-	-	3	-	1	-
Round off	0	0	0	0	0	3	0	3	0	0	3	0	1	0



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Department of Computer Science and Engineering

CO-PO/PSO Mapping Of All Courses (Course Year 2023-24)

Subject: Major Project

Year/Semester: 4th / 8th

Subject Code: C410

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	2	1	2	1	1	2	2	2	1	1	2	1
CO2	2	2	2	1	2	1	1	2	2	2	1	1	2	1
CO3	-	2	2	1	2	1	1	2	2	2	1	1	2	1
CO4	3	3	2	1	2	1	1	2	2	2	1	1	2	1
CO5	3	2	1	1	2	1	1	2	2	2	1	1	1	1
CO6		2	2	1	2	1	-	3	-	-	-	1	1	1
AVG	2.5	2.3	1.5	1	2	1	1	2.1	2	2	1	1	1.8	1
Round off	3	2	2	1	2	1	1	2	2	2	1	1	2	1