

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	CIVIL
Year :	I
Sem:	I
Course Name:	INTRODCUTION TO CIVIL ENGINEERING
Course Code:	20CE103
A.Y:	2023-24
Batch:	2023-27
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE103.1	3	-	-	-	-	-	2	2	-	2	-	2	2	-	-	-	2.17
20CE103.2	-	-	-	-	-	-	2	-	-	2	-	2	2	-	-	-	2.00
20CE103.3	3	-	-	-	-	-	2	-	-	2	-	2	2	-	-	-	2.20
20CE103.4	2	-	-	-	-	-	-	-	2	2	-	2	2	-	-	-	2.00
Avg	2.67	-	-	-	-	-	2.00	2.00	2.00	2.00	-	2.00	2.00	-	-	-	2.09

CO-WISE ATTAINMENT					
Particulars		20CE103.1	20CE103.2	20CE103.3	20CE103.4
INTERNAL (CIE)	Threshold Internal	65	65	65	65
	%students secured more than Threshold	74.42	25.58	30.23	58.14
	Internal Attainment	3	0	0	2
	Next A.Y. Threshold	70	70	70	70
EXTERNAL (SEE)	Threshold External	55	55	55	55
	%students secured more than Threshold	44.19	90.7	86.05	34.88
	External Attainment	1	3	3	0
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		1.88	2.28	2.28	1.08

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE103.1	1.88	-	-	-	-	-	1.25	1.25	-	1.25	-	1.25	1.25	-	-	-	1.36
20CE103.2	-	-	-	-	-	-	1.52	-	-	1.52	-	1.52	1.52	-	-	-	1.52
20CE103.3	2.28	-	-	-	-	-	1.52	-	-	1.52	-	1.52	1.52	-	-	-	1.67
20CE103.4	0.72	-	-	-	-	-	-	-	0.72	0.72	-	0.72	0.72	-	-	-	0.72
Avg	1.63	-	-	-	-	-	1.43	1.25	0.72	1.25	-	1.25	1.25	-	-	-	1.32


Course Coordinator

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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	CIVIL
Year :	I
Sem:	II
Course Name:	ENGINEERING MECHANICS
Course Code:	20CE203
A.Y:	2023-24
Batch:	2023-27
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE203.1	3	2											3			2	2.67
20CE203.2	3	2											3			2	2.67
20CE203.3	3	2											3			2	2.67
20CE203.4	3	2											3			2	2.67
Avg	3.00	2.00	-	-	-	-	-	-	-	-	-	-	3.00	-	-	2.00	2.67

CO-WISE ATTAINMENT					
Particulars		20CE203.1	20CE203.2	20CE203.3	20CE203.4
INTERNAL (CIE)	Threshold Internal	65	65	65	65
	%students secured more than Threshold	40	54.29	22.86	11.43
	Internal Attainment	1	2	0	0
	Next A.Y. Threshold	70	70	70	70
EXTERNAL (SEE)	Threshold External	55	55	55	55
	%students secured more than Threshold	62.86	45.71	20	60
	External Attainment	3	1	0	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		2.52	1.64	0.60	2.28

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3		CO-Avg
20CE203.1	2.52	1.68	-	-	-	-	-	-	-	-	-	-	2.52	-	-		2.24
20CE203.2	1.64	1.09	-	-	-	-	-	-	-	-	-	-	1.64	-	-		1.46
20CE203.3	0.60	0.40	-	-	-	-	-	-	-	-	-	-	0.60	-	-		0.53
20CE203.4	2.28	1.52	-	-	-	-	-	-	-	-	-	-	2.28	-	-		2.03
Avg	1.76	1.17	-	-	-	-	-	-	-	-	-	-	1.76	-	-		1.57



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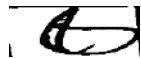
BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	CIVIL
Year :	II
Sem:	I
Course Name:	SURVEYING
Course Code:	20CE302
A.Y:	2023-24
Batch:	2023-27
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE302.1	3	1		1		1		1	2	1	1	2	3			2	1.60
20CE302.2	3	1		1		1		1	2	1	1	2	3			2	1.60
20CE302.3	3	1		1		1		1	2	1	1	2	3			2	1.60
20CE302.4	3	1		1		1		1	2	1	1	2	3			2	1.60
Avg	3.00	1.00	-	1.00	-	1.00	-	1.00	2.00	1.00	1.00	2.00	3.00	-	-	2.00	1.60

CO-WISE ATTAINMENT					
Particulars		20CE302.1	20CE302.2	20CE302.3	20CE302.4
INTERNAL (CIE)	Threshold Internal	65	65	65	65
	%students secured more than Threshold	69.01	30.99	71.83	74.65
	Internal Attainment	3	0	3	3
	Next A.Y. Threshold	70	70	70	70
EXTERNAL (SEE)	Threshold External	55	55	55	55
	%students secured more than Threshold	76.06	76.06	78.87	87.32
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	2.28	3.00	3.00

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3		CO-Avg
20CE302.1	3.00	1.00	-	1.00	-	1.00	-	1.00	2.00	1.00	1.00	2.00	3.00	-	-		1.60
20CE302.2	2.28	0.76	-	0.76	-	0.76	-	0.76	1.52	0.76	0.76	1.52	2.28	-	-		1.22
20CE302.3	3.00	1.00	-	1.00	-	1.00	-	1.00	2.00	1.00	1.00	2.00	3.00	-	-		1.60
20CE302.4	3.00	1.00	-	1.00	-	1.00	-	1.00	2.00	1.00	1.00	2.00	3.00	-	-		1.60
Avg	2.82	0.94	-	0.94	-	0.94	-	0.94	1.88	0.94	0.94	1.88	2.82	-	-		1.51



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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	CIVIL
Year :	II
Sem:	I
Course Name:	Solid Mechanics
Course Code:	20CE303
A.Y:	2023-24
Batch:	2022-26
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE303.1	3	3	2	2								3	3	3	2	3	2.63
20CE303.2	3	3	2	2								3	3	3	2	3	2.63
20CE303.3	3	3	2	2								3	3	3	2	3	2.63
20CE303.4	3	3	2	2								3	3	3	2	3	2.63
Avg	3.00	3.00	2.00	2.00	-	-	-	-	-	-	-	3.00	3.00	3.00	2.00	3.00	2.63

CO-WISE ATTAINMENT					
Particulars		20CE303.1	20CE303.2	20CE303.3	20CE303.4
INTERNAL (CIE)	Threshold Internal	65	65	65	65
	%students secured more than Threshold	52.7	90.54	66.22	94.59
	Internal Attainment	2	3	3	3
	Next A.Y. Threshold	70	70	70	70
EXTERNAL (SEE)	Threshold External	55	55	55	55
	%students secured more than Threshold	83.33	41.67	93.06	88.89
	External Attainment	3	1	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		2.76	1.88	3.00	3.00

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE303.1	2.76	2.76	1.84	1.84	-	-	-	-	-	-	-	2.76	2.76	2.76	1.84	2.76	2.45
20CE303.2	1.88	1.88	1.25	1.25	-	-	-	-	-	-	-	1.88	1.88	1.88	1.25	1.88	1.67
20CE303.3	3.00	3.00	2.00	2.00	-	-	-	-	-	-	-	3.00	3.00	3.00	2.00	3.00	2.67
20CE303.4	3.00	3.00	2.00	2.00	-	-	-	-	-	-	-	3.00	3.00	3.00	2.00	3.00	2.67
Avg	2.66	2.66	1.77	1.77	-	-	-	-	-	-	-	2.66	2.66	2.66	1.77	2.66	2.37

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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	Civil Engineering
Year :	II
Sem:	III
Course Name:	CONCRETE TECHNOLOGY
Course Code:	20CE304
A.Y:	2023-24
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE304.1	3	2	1										1	3		2	2.00
20CE304.2	3	2	1										1	3		2	2.00
20CE304.3	3	2	1										1	3		2	2.00
20CE304.4	3	2	1										1	3		2	2.00
Avg	3.00	2.00	1.00	-	-	-	-	-	-	-	-	-	1.00	3.00	-	2.00	2.00

CO-WISE ATTAINMENT					
Particulars		20CE304.1	20CE304.2	20CE304.3	20CE304.4
INTERNAL (CIE)	Threshold Internal	65	65	65	65
	%students secured more than Threshold	60.49	32.1	72.84	34.57
	Internal Attainment	3	0	3	0
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	55	55	55	55
	%students secured more than Threshold	29.41	26.74	21.93	11.76
	External Attainment	0	0	0	0
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		1.32	0.60	1.32	0.60

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE304.1	0.45	0.88	0.44	-	-	-	-	-	-	-	-	-	0.44	1.32	-	0.88	0.79
20CE304.2	0.60	0.40	0.20	-	-	-	-	-	-	-	-	-	0.20	0.60	-	0.40	0.40
20CE304.3	1.32	0.88	0.44	-	-	-	-	-	-	-	-	-	0.44	1.32	-	0.88	0.88
20CE304.4	0.60	0.40	0.20	-	-	-	-	-	-	-	-	-	0.20	0.60	-	0.40	0.40
Avg	0.84	0.64	0.32	-	-	-	-	-	-	-	-	-	0.32	0.96	-	0.64	0.62


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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	Civil Engineering
Year :	II
Sem:	IV
Course Name:	ENVIRONMENTAL ENGINEERING
Course Code:	20CE402
A.Y:	2023-24
Batch:	2022-26
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE402.1	2	2	1	1		3	2	1				2	1			3	1.80
20CE402.2	3	3	1	1		3	2	1				2				2	2.00
20CE402.3	2	2	1	1		3	2	1				2	1			3	1.80
20CE402.4	3	3	1	1		3	2	1				2				2	2.00
Avg	2.50	2.50	1.00	1.00	-	3.00	2.00	1.00	-	-	-	2.00	1.00	-	-	2.50	1.90

CO-WISE ATTAINMENT					
Particulars		20CE402.1	20CE402.2	20CE402.3	20CE402.4
INTERNAL (CIE)	Threshold Internal	65	65	65	65
	%students secured more than Threshold	66.67	45.33	66.67	32
	Internal Attainment	3	1	3	0
	Next A.Y. Threshold	70	70	70	70
EXTERNAL (SEE)	Threshold External	55	55	55	55
	%students secured more than Threshold	83.12	35.06	71.43	37.66
	External Attainment	3	0	3	0
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	0.84	3.00	0.60

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE402.1	2.00	2.00	1.00	1.00	-	3.00	2.00	1.00	-	-	-	2.00	1.00	-	-	3.00	1.80
20CE402.2	0.84	0.84	0.28	0.28	-	0.84	0.56	0.28	-	-	-	0.56	-	-	-	0.56	0.56
20CE402.3	2.00	2.00	1.00	1.00	-	3.00	2.00	1.00	-	-	-	2.00	1.00	-	-	3.00	1.80
20CE402.4	0.60	0.60	0.20	0.20	-	0.60	0.40	0.20	-	-	-	0.40	-	-	-	0.40	0.40
Avg	1.36	1.36	0.62	0.62	-	1.86	1.24	0.62	-	-	-	1.24	1.00	-	-	1.74	1.14

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	CIVIL
Year :	II
Sem:	I
Course Name:	Mechanics of Materials
Course Code:	20CE403
A.Y:	2023-24
Batch:	2022-26
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE403.1	3	3	2	2								3	3	3	2	3	2.63
20CE403.2	3	3	2	2								3	3	3	2	3	2.63
20CE403.3	3	3	2	2								3	3	3	2	3	2.63
20CE403.4	3	3	2	2								3	3	3	2	3	2.63
Avg	3.00	3.00	2.00	2.00	-	-	-	-	-	-	-	3.00	3.00	3.00	2.00	3.00	2.63

CO-WISE ATTAINMENT					
Particulars		20CE403.1	20CE403.2	20CE403.3	20CE403.4
INTERNAL (CIE)	Threshold Internal	65	65	65	65
	%students secured more than Threshold	54.05	79.73	74.32	70.27
	Internal Attainment	2	3	3	3
	Next A.Y. Threshold	70	70	70	70
EXTERNAL (SEE)	Threshold External	55	55	55	55
	%students secured more than Threshold	52.78	84.06	66.67	89.86
	External Attainment	2	3	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		2.20	3.00	3.00	3.00

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3		CO-Avg
20CE403.1	2.20	2.20	1.47	1.47	-	-	-	-	-	-	-	2.20	2.20	2.20	1.47		1.93
20CE403.2	3.00	3.00	2.00	2.00	-	-	-	-	-	-	-	3.00	3.00	3.00	2.00		2.63
20CE403.3	3.00	3.00	2.00	2.00	-	-	-	-	-	-	-	3.00	3.00	3.00	2.00		2.63
20CE403.4	3.00	3.00	2.00	2.00	-	-	-	-	-	-	-	3.00	3.00	3.00	2.00		2.63
Avg	2.80	2.80	1.87	1.87	-	-	-	-	-	-	-	2.80	2.80	2.80	1.87		2.46

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Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	Civil Engineering
Year :	II
Sem:	III
Course Name:	HYDRAULICS & HYDRAULIC MACHINES
Course Code:	20CE404
A.Y:	2023-24
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE404.1	2	3	3									1	3	2		2	2.29
20CE404.2	3	3	2									1	3	2		2	2.29
20CE404.3	2	3	2			2						2	3	3		2	2.38
20CE404.4	2	3	3			2						2	3	3		2	2.50
Avg	2.25	3.00	2.50	-	-	2.00	-	-	-	-	-	1.50	3.00	2.50	-	2.00	2.36

CO-WISE ATTAINMENT					
Particulars		20CE404.1	20CE404.2	20CE404.3	20CE404.4
INTERNAL (CIE)	Threshold Internal	60	60	60	60
	%students secured more than Threshold	86.11	45.83	69.44	31.94
	Internal Attainment	3	1	3	0
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	55	55	55	55
	%students secured more than Threshold	61.43	44.29	35.71	68.57
	External Attainment	3	1	0	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	1.40	1.32	2.28

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE404.1	2.00	3.00	3.00	-	-	-	-	-	-	-	-	1.00	3.00	2.00	-	2.00	2.29
20CE404.2	1.40	1.40	0.93	-	-	-	-	-	-	-	-	0.47	1.40	0.93	-	0.93	1.07
20CE404.3	0.88	1.32	0.88	-	-	0.88	-	-	-	-	-	0.88	1.32	1.32	-	0.88	1.05
20CE404.4	1.52	2.28	2.28	-	-	1.52	-	-	-	-	-	1.52	2.28	2.28	-	1.52	1.90
Avg	1.45	2.00	1.77	-	-	1.20	-	-	-	-	-	0.97	2.00	1.63	-	1.33	1.58



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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	Civil Engineering
Year :	III
Sem:	V
Course Name:	STRUCTURAL ANALYSIS
Course Code:	20CE501
A.Y:	2023-24
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE501.1	3	2											3	2		-	2.50
20CE501.2	2	3											3	2		-	2.50
20CE501.3	2	3											3	2		-	2.50
20CE501.4	3	2											3	2		-	2.50
Avg	2.50	2.50	-	-	-	-	-	-	-	-	-	-	3.00	2.00	-	-	2.50

CO-WISE ATTAINMENT					
Particulars		20CE501.1	20CE501.2	20CE501.3	20CE501.4
INTERNAL (CIE)	Threshold Internal	65	65	65	65
	%students secured more than Threshold	44.37	32.45	35.76	43.71
	Internal Attainment	1	0	0	1
	Next A.Y. Threshold	65	65	65	65
EXTERNAL (SEE)	Threshold External	55	55	55	55
	%students secured more than Threshold	64.86	44.59	29.73	75.68
	External Attainment	3	1	0	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		2.52	1.16	0.60	2.52

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE501.1	2.52	1.68	-	-	-	-	-	-	-	-	-	-	2.52	1.68	-	-	2.10
20CE501.2	0.77	1.16	-	-	-	-	-	-	-	-	-	-	1.16	0.77	-	-	0.97
20CE501.3	0.40	0.60	-	-	-	-	-	-	-	-	-	-	0.60	0.40	-	-	0.50
20CE501.4	2.52	1.68	-	-	-	-	-	-	-	-	-	-	2.52	1.68	-	-	2.10
Avg	1.55	1.28	-	-	-	-	-	-	-	-	-	-	1.70	1.13	-	-	1.42

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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R18)

Programme Specilization:	CIVIL ENGINEERING
Year :	III
Sem:	VI
Course Name:	DESIGN OF STEEL STRUCTURES
Course Code:	20CE601
A.Y:	2023-24
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE601.1	3	3	1										1	2			2.00
20CE601.2	2	2	3										2	3			2.40
20CE601.3	2	2	3										2	3			2.40
20CE601.4	2	3	3										2	3			2.60
20CE601.5	2	3	3										2	2			2.40
Avg	2.20	2.60	2.60	-	-	-	-	-	-	-	-	-	1.80	2.60	-	-	2.36

CO-WISE ATTAINMENT						
Particulars		20CE601.1	20CE601.2	20CE601.3	20CE601.4	20CE601.5
INTERNAL (CIE)	Threshold Internal	65	65	65	65	65
	%students secured more than Threshold	18	50	35.33	74	67.33
	Internal Attainment	0	2	0	3	3
	Next A.Y. Threshold	60	60	60	60	60
EXTERNAL (SEE)	Threshold External	55	55	55	55	55
	%students secured more than Threshold	66.89	70.95	86.49	76.35	85.14
	External Attainment	3	3	3	3	3
	Next A.Y. Target Threshold	55	55	55	55	55
Indirect Grade		3.00	3.00	3.00	3.00	3.00
Overall Attainment		1.80	2.60	1.80	3.00	3.00

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE601.1	1.80	1.80	0.60	-	-	-	-	-	-	-	-	-	0.60	1.20	-	-	1.20
20CE601.2	1.73	1.73	2.60	-	-	-	-	-	-	-	-	-	1.73	2.60	-	-	2.08
20CE601.3	1.20	1.20	1.80	-	-	-	-	-	-	-	-	-	1.20	1.80	-	-	1.44
20CE601.4	2.00	3.00	3.00	-	-	-	-	-	-	-	-	-	2.00	3.00	-	-	2.60
20CE601.5	2.00	3.00	3.00	-	-	-	-	-	-	-	-	-	2.00	2.00	-	-	2.40
Avg	1.75	2.15	2.20	-	-	-	-	-	-	-	-	-	1.51	2.12	-	-	1.94


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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	Civil Engineering
Year :	III
Sem:	VI
Course Name:	HIGHWAY ENGINEERING
Course Code:	20CE603
A.Y:	2023-24
Batch:	2021-25
Course Type:	B.TECH

CO-PO, PSO MAPPING																		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg	
20CE603.1	3	3	3	2	2								2	3		3	2.63	
20CE603.2	2	3	3	3	3	2							3	3		3	2.78	
20CE603.3	2	3	2	3	3	2							2	3		3	2.56	
20CE603.4		3	2	3	3	2							2	3		3	2.63	
Avg	2.33	3.00	2.50	2.75	2.75	2.00	-	-	-	-	-	-	2.25	3.00	-	3.00	2.65	

CO-WISE ATTAINMENT					
Particulars		20CE603.1	20CE603.2	20CE603.3	20CE603.4
INTERNAL (CIE)	Threshold Internal	65	65	65	65
	%students secured more than Threshold	64.67	62.67	82.67	71.33
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	70	70	70	70
EXTERNAL (SEE)	Threshold External	55	55	55	55
	%students secured more than Threshold	84	46	84	83.33
	External Attainment	3	1	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	1.88	3.00	3.00

PO, PSO ATTAINMENT																		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg	
20CE603.1	3.00	3.00	3.00	2.00	2.00	-	-	-	-	-	-	-	2.00	3.00	-	3.00	2.63	
20CE603.2	1.25	1.88	1.88	1.88	1.88	1.25	-	-	-	-	-	-	1.88	1.88	-	1.88	1.74	
20CE603.3	2.00	3.00	2.00	3.00	3.00	2.00	-	-	-	-	-	-	2.00	3.00	-	3.00	2.56	
20CE603.4	-	3.00	2.00	3.00	3.00	2.00	-	-	-	-	-	-	2.00	3.00	-	3.00	2.63	
Avg	2.08	2.72	2.22	2.47	2.47	1.75	-	-	-	-	-	-	1.97	2.72	-	2.72	2.39	

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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	Civil Engineering
Year :	III
Sem:	VI
Course Name:	ADVANCED STRUCTURAL ANALYSIS
Course Code:	20CE604
A.Y:	2023-24
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg	
20CE604.1	3	3	-	-	-	-	-	2	3	3	-	2	-	-	2	-	2.57	
20CE604.2	3	3	-	-	-	-	-	2	3	3	-	2	-	-	2	-	2.57	
20CE604.3	3	2	-	-	-	2	2	2	3	3	-	2	-	-	2	-	2.33	
20CE604.4	-	2	-	-	-	-	-	3	2	3	-	2	-	-	2	-	2.33	
Avg	3.00	2.50	-	-	-	2.00	2.00	2.25	2.75	3.00	-	2.00	-	-	2.00	-	2.45	

CO-WISE ATTAINMENT					
Particulars		20CE604.1	20CE604.2	20CE604.3	20CE604.4
INTERNAL (CIE)	Threshold Internal	60	60	60	60
	%students secured more than Threshold	64.19	51.35	59.46	68.92
	Internal Attainment	3	2	2	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	60	60	60	60
	%students secured more than Threshold	77.7	37.84	79.05	68.92
	External Attainment	3	0	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	1.08	2.76	3.00

PO, PSO ATTAINMENT																		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg	
20CE604.1	3.00	3.00	-	-	-	-	-	2.00	3.00	3.00	-	2.00	-	-	2.00	-	2.57	
20CE604.2	1.08	1.08	-	-	-	-	-	0.72	1.08	1.08	-	0.72	-	-	0.72	-	0.93	
20CE604.3	2.76	1.84	-	-	-	1.84	1.84	1.84	2.76	2.76	-	1.84	-	-	1.84	-	2.15	
20CE604.4	-	2.00	-	-	-	-	-	3.00	2.00	3.00	-	2.00	-	-	2.00	-	2.33	
Avg	2.28	1.98	-	-	-	1.84	1.84	1.89	2.21	2.46	-	1.64	-	-	1.64	-	2.00	

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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R18)

Programme Specilization:	CIVIL
Year :	III
Sem:	III
Course Name:	TRANSPORTATION ENGINEERING LABORATORY
Course Code:	20CEL604
A.Y:	2023-24
Batch:	2021-25
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CEL604.1	2	1		3						2					2	3	2.17
20CEL604.2	2	2		2						2					2	3	2.17
20CEL604.3	2	1		3						2					2	3	2.17
20CEL604.4	2	2		1						2					2	2	1.83
Avg	2.00	1.50	-	2.25	-	-	-	-	-	2.00	-	-	-	-	2.75	2.08	

CO-WISE ATTAINMENT					
Particulars		20CEL604.1	20CEL604.2	20CEL604.3	20CEL604.4
INTERNAL (CIE)	Threshold Internal	60	60	60	60
	% students secured more than Threshold	99.33	99.33	99.33	99.33
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	99.33	99.33	99.33	99.33
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CEL604.1	2.00	1.00	-	3.00	-	-	-	-	-	2.00	-	-	-	-		3.00	2.20
20CEL604.2	2.00	2.00	-	2.00	-	-	-	-	-	2.00	-	-	-	-		3.00	2.20
20CEL604.3	2.00	1.00	-	3.00	-	-	-	-	-	2.00	-	-	-	-		3.00	2.20
20CEL604.4	2.00	2.00	-	1.00	-	-	-	-	-	2.00	-	-	-	-		2.00	1.80
Avg	2.00	1.50	-	2.25	-	-	-	-	-	2.00	-	-	-	-	-	2.75	2.10

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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	CIVIL ENGINEERING
Year :	IV
Sem:	VII
Course Name:	ADVANCED DESIGN OF STRUCTURES
Course Code:	20CE702
A.Y:	2023-24
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE702.1	2	2	2	3										2	3		2.33
20CE702.2	2	2	2	3										2	3		2.33
20CE702.3	2	2	2	3										2	3		2.33
20CE702.4	3	2	2	3										2	3		2.50
20CE702.5	2	2	2	3										2	3		2.33
Avg	2.20	2.00	2.00	3.00	-	-	-	-	-	-	-	-	-	2.00	3.00	-	2.37

CO-WISE ATTAINMENT						
Particulars		20CE702.1	20CE702.2	20CE702.3	20CE702.4	20CE702.5
INTERNAL (CIE)	Threshold Internal	65	65	65	65	65
	%students secured more than Threshold	46.2	65.19	48.73	80.38	63.29
	Internal Attainment	1	3	1	3	3
	Next A.Y. Threshold	65	65	65	65	65
EXTERNAL (SEE)	Threshold External	55	55	55	55	55
	%students secured more than Threshold	73.08	76.28	67.31	83.97	80.77
	External Attainment	3	3	3	3	3
	Next A.Y. Target Threshold	60	60	60	60	60
	Indirect Grade	3.00	3.00	3.00	3.00	3.00
Overall Attainment		2.20	3.00	2.20	3.00	3.00

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE702.1	1.47	1.47	1.47	2.20	-	-	-	-	-	-	-	-	-	1.47	2.20	-	1.71
20CE702.2	2.00	2.00	2.00	3.00	-	-	-	-	-	-	-	-	-	2.00	3.00	-	2.33
20CE702.3	1.47	1.47	1.47	2.20	-	-	-	-	-	-	-	-	-	1.47	2.20	-	1.71
20CE702.4	3.00	2.00	2.00	3.00	-	-	-	-	-	-	-	-	-	2.00	3.00	-	2.50
20CE702.5	2.00	2.00	2.00	3.00	-	-	-	-	-	-	-	-	-	2.00	3.00	-	2.33
Avg	1.99	1.79	1.79	2.68	-	-	-	-	-	-	-	-	-	1.79	2.68	-	2.12

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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	Civil Engineering
Year :	IV
Sem:	VII
Course Name:	RAILWAY & AIRPORT ENGINEERING
Course Code:	20CE703
A.Y:	2023-24
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE703.1	3	2	2										2	3			2.40
20CE703.2	3	2	3										2	3			2.60
20CE703.3	2	2	3										2	2			2.20
20CE703.4	2	2	3										2	3			2.40
Avg	2.50	2.00	2.75	-	-	-	-	-	-	-	-	-	2.00	2.75	-	-	2.40

CO-WISE ATTAINMENT					
Particulars		20CE703.1	20CE703.2	20CE703.3	20CE703.4
INTERNAL (CIE)	Threshold Internal	65	65	65	65
	%students secured more than Threshold	71.79	60.26	85.9	72.44
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	70	70	70	70
EXTERNAL (SEE)	Threshold External	55	55	55	55
	%students secured more than Threshold	50.64	44.87	69.23	66.67
	External Attainment	2	1	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		2.44	1.88	3.00	3.00

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CE703.1	2.44	1.63	1.63	-	-	-	-	-	-	-	-	-	1.63	2.44	-	-	1.95
20CE703.2	1.88	1.25	1.88	-	-	-	-	-	-	-	-	-	1.25	1.88	-	-	1.63
20CE703.3	2.00	2.00	3.00	-	-	-	-	-	-	-	-	-	2.00	2.00	-	-	2.20
20CE703.4	2.00	2.00	3.00	-	-	-	-	-	-	-	-	-	2.00	3.00	-	-	2.40
Avg	2.08	1.72	2.38	-	-	-	-	-	-	-	-	-	1.72	2.33	-	-	2.05


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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R18)

Programme Specilization:	CIVIL
Year :	II
Sem:	II
Course Name:	Quantity Estimation & Project Management
Course Code:	20CEL701
A.Y:	2023-24
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CEL701.1	3				2			3	3	3		2		2	2		2.50
20CEL701.2	3				3			3	3	3	2	2		2	2		2.56
20CEL701.3	3				2			3	3	3		2		2	2		2.50
20CEL701.4																	0.00
Avg	3.00	-	-	-	2.33	-	-	3.00	3.00	3.00	2.00	2.00	-	2.00	2.00	-	1.89

CO-WISE ATTAINMENT					
Particulars		20CEL701.1	20CEL701.2	20CEL701.3	20CEL701.4
INTERNAL (CIE)	Threshold Internal	65	65	65	0
	% students secured more than Threshold	87.74	87.74	87.74	0
	Internal Attainment	3	3	3	0
	Next A.Y. Threshold	70	70	70	0
EXTERNAL (SEE)	Threshold External	55	55	55	0
	%students secured more than Threshold	99.35	99.35	99.35	0
	External Attainment	3	3	3	0
	Next A.Y. Target Threshold	60	60	60	0
Indirect Grade		3.00	3.00	3.00	#DIV/0!
Overall Attainment		3.00	3.00	3.00	#DIV/0!

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	CO-Avg
20CEL701.1	3.00	-	-	-	2.00	-	-	3.00	3.00	3.00	-	2.00	-	2.00	2.00		2.50
20CEL701.2	3.00	-	-	-	3.00	-	-	3.00	3.00	3.00	2.00	2.00	-	2.00	2.00		2.56
20CEL701.3	3.00	-	-	-	2.00	-	-	3.00	3.00	3.00	-	2.00	-	2.00	2.00		2.50
20CEL701.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
Avg	2.25	0.00	0.00	0.00	1.75	0.00	0.00	2.25	2.25	2.25	1.00	1.50	0.00	1.50	1.50		1.89

Qb

Course Coordinator

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HoD

BAPATLA ENGINEERING COLLEGE, BAPATLA
Department of Computer Science & Engineering
Coursewise PO, PSO Attainment Sheet (B.Tech-R20) (SEM-1)

LINEAR ALGEBRA AND ORDINARY DIFFERENTIAL EQUATIONS (20CS101)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS101.1	3	3	2	-	-	-	-	-	-	-	-	2	-	3	-	2.6
20CS101.1	3	3	3	-	-	-	-	-	-	-	-	2	-	2	-	2.6
20CS101.1	3	3	3	-	-	-	-	-	-	-	-	2	-	2	-	2.6
20CS101.1	2.76	2.76	2.76	-	-	-	-	-	-	-	-	1.84	-	1.84	-	2.39
Avg	2.94	2.94	2.69	-	-	-	-	-	-	-	-	1.96	-	2.21	-	2.55

Communicative English(20EL01)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20EL01.1	-	-	-	-	-	-	-	2	2	3	2	2	-	2	-	2.17
20EL01.1	-	-	-	-	-	-	-	2	2	3	2	2	-	2	-	2.17
20EL01.1	-	-	-	-	-	-	-	2	2	3	2	2	-	2	-	2.17
20EL01.1	-	-	-	-	-	-	-	2	2	3	2	2	-	2	-	2.17
Avg	-	-	-	-	-	-	-	2	2	3	2	2	-	2	-	2.17

ECS LAB (20ELL01)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20ELL01.1	3	3	2	3	-	-	-	-	3	3	2	2	-	2	-	2.56
20ELL01.2	3	3	3	3	-	-	-	-	3	3	2	2	-	2	-	2.67
20ELL01.3	3	3	2	3	-	-	-	-	3	3	2	2	-	2	-	2.56
20ELL01.4	3	3	2	3	-	-	-	-	3	3	2	2	-	2	-	2.56
Avg	3	3	2.25	3	-	-	-	-	3	3	2	2	-	2	-	2.59

ENGINEERING GRAPHICS LAB (20CSL101/MEL01)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL101/MEL01.1	3	3	3	-	3	-	-	-	3	3	-	3	3	3	3	3
20CSL101/MEL01.2	3	3	3	-	3	-	-	-	3	3	-	3	3	3	3	3
20CSL101/MEL01.3	3	3	3	-	3	-	-	-	3	3	-	3	3	3	3	3
20CSL101/MEL01.4	2	-	-	-	-	-	-	-	3	3	-	3	3	3	3	2.86
Avg	2.75	3	3	-	3	-	-	-	3	3	-	3	3	3	3	2.97

ENGINEERING CHEMISTRY(20CS102/CY01)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS102/CY01.1	2	3	2	3	-	2	3	-	-	-	-	3	-	-	-	2.57

20CS102/CY01.1	2	3	2	3	-	2	3	-	-	-	-	3	-	-	-	2.57
20CS102/CY01.1	2	3	2	3	-	2	3	-	-	-	-	3	-	-	-	2.57
20CS102/CY01.1	2	3	3	3	-	2	3	-	-	-	-	3	-	-	-	2.71
Avg	2	3	2.25	3	-	2	3	-	-	-	-	3	-	-	-	2.61

ENGINEERING CHEMISTRY LAB(20CSL102/CYL01)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL102/CYL01.1	2												2	2	-	2
20CSL102/CYL01.2	2	2	2	2		2						2	2	2	-	2
20CSL102/CYL01.3	2	2	2	2		2						2	2	2	-	2
20CSL102/CYL01.4	2	2	2	2								2	2	2	-	2
Avg	2	2	2	2	-	2	-	-	-	-	-	2	2	2	-	2

WORKSHOP PRACTICE LAB(20CSL104/MEL02)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL104/MEL02.1	3	3	3	-	3	-	-	-	3	3	-	3	3	3	3	3
20CSL104/MEL02.2	3	3	3	-	3	-	-	-	3	3	-	3	3	3	3	3
20CSL104/MEL02.3	3	3	3	-	3	-	-	-	3	3	-	3	3	3	3	3
20CSL104/MEL02.4	2	-	-	-	-	-	-	-	3	3	-	3	3	3	3	2.86
Avg	2.75	3	3	-	3	-	-	-	3	3	-	3	3	3	3	2.97

BAPATLA ENGINEERING COLLEGE, BAPATLA
Department of Computer Science & Engineering
Coursewise PO, PSO Attainment Sheet (B.Tech-R20) (SEM-2)

NUMERICAL METHODS AND ADVANCED CALCULUS(18CS201)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg

20CS201.1	3	3	2	-	-	-	-	-	-	-	-	-	2	-	3	-	2.6
20CS201.1	3	3	2	-	-	-	-	-	-	-	-	-	2	-	3	-	2.6
20CS201.1	3	3	2	-	-	-	-	-	-	-	-	-	2	-	2	-	2.4
20CS201.1	3	3	2	-	-	-	-	-	-	-	-	-	2	-	3	-	2.6
Avg	3	3	2	-	-	-	-	-	-	-	-	-	2	-	2.75	-	2.55

Basic Electrical and Electronics Engineering (20CS203/EE01)

Program Outcome & Program Specific Outcome															
Course Outcomes	Programme Outcomes (PO's) and PSO Direct Attainments												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20CS203.1	2.3	2.3	1.066667	0	0	0	0	0	0	0	0	0	2.3	0	0
20CS203.2	1.066667	1.6	0.533333	0	0	0	0	0	0	0	0	0	1.6	0	0
20CS203.3	2.3	2.3	1.533333	0	0	0	0	0	0	0	0	0	2.3	0	0
20CS203.4	1.7	1.7	1.133333	0	0	0	0	0	0	0	0	0	1.7	0	0
20CS203.5	2.4	2.4	1.6	0	0	0	0	0	0	0	0	0	2.4	0	0
20CS203.6	2.1	2.1	1.4	0	0	0	0	0	0	0	0	0	2.1	0	0
20CS203	1.977778	2.066667	1.211111	0	0	0	0	0	0	0	0	0	1.975	0	0

Basic Electrical and Electronics Engineering Lab(20CSL202)

Program Outcome & Program Specific Outcome															
Course Outcomes	Programme Outcomes (PO's) and PSO Direct Attainments												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20CSL202.1	3	3	1	3	0	0	0	0	3	2	0	0	3	0	0
20CSL202.2	3	3	1	3	0	0	0	0	3	2	0	0	3	0	0
20CSL202.3	3	3	1	3	0	0	0	0	3	2	0	0	3	0	0
20CSL202.4	1	3	1	3	0	0	0	0	3	2	0	0	3	0	0
20CSL202	2.5	3	1	3	0	0	0	0	3	2	0	0	3	0	0

SEMICONDUCTOR PHYSICS AND NANO MATERIALS(20CS202)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS202.1	1.63	1.63	-	1.63	-	-	-	-	-	-	-	-	1.63	-	-	1.63
20CS202.1	2.44	1.63	1.63	1.63	-	-	-	-	-	-	-	-	1.63	-	-	1.79
20CS202.1	2.44	-	-	1.63	1.63	-	1.63	-	-	-	1.63	-	1.63	-	-	1.77
20CS202.1	2.44	-	-	1.63	1.63	-	-	0	-	-	1.63	1.63	1.63	-	-	1.51
Avg	2.24	1.63	1.63	1.63	1.63	-	1.63	0	-	-	1.63	1.63	1.63	-	-	1.68

PROBLEM SOLVING USING PROGRAMMING(20CS204)

PO, PSO ATTAINMENT																
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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS204.1	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	3
20CS204.1	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	3
20CS204.1	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	3
20CS204.1	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	3
Avg	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	3

Digital Logic Design(20CS205)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS205.1	1.64	1.64	1.09	1.64	-	-	-	-	-	-	-	0.55	1.09	1.09	-	1.25
20CS205.1	1.64	1.64	1.64	1.64	-	-	-	-	-	-	-	0.55	1.09	1.09	-	1.33
20CS205.1	1.64	1.64	1.09	1.64	-	-	-	-	-	-	-	1.09	1.09	1.09	-	1.33
20CS205.1	1.4	1.4	0.93	1.4	-	-	-	-	-	-	-	0.93	0.93	0.93	-	1.13
Avg	1.58	1.58	1.19	1.58	-	-	-	-	-	-	-	0.78	1.05	1.05	-	1.26

Discrete Mathematics(20CS206)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS206.1	2.76	2.76	1.84	2.76	-	-	-	-	-	-	-	0.92	1.84	1.84	-	2.1
20CS206.1	2.76	2.76	2.76	2.76	-	-	-	-	-	-	-	0.92	1.84	1.84	-	2.23
20CS206.1	2.76	2.76	1.84	2.76	-	-	-	-	-	-	-	1.84	1.84	1.84	-	2.23
20CS206.1	2.52	2.52	1.68	2.52	-	-	-	-	-	-	-	1.68	1.68	1.68	-	2.04
Avg	2.7	2.7	2.03	2.7	-	-	-	-	-	-	-	1.34	1.8	1.8	-	2.15

SEMICONDUCTORS PHYSICS LAB(20PHL01)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20PHL01.1	3	3	2	2	-	-	-	-	2	-	-	-	2	-	-	2.33
20PHL01.2	3	3	2	2	-	-	-	-	2	2	-	-	2	-	-	2.29
20PHL01.3	3	3	2	2	2	-	-	-	2	-	-	-	2	-	-	2.29
20PHL01.4																
Avg	3	3	2	2	2	-	-	-	2	2	-	-	2	-	-	2.3

Basic Electrical and Electronics Engineering Lab(20CSL202)

Program Outcome & Program Specific Outcome																
Course Outcomes	Programme Outcomes (PO's) and PSO Direct Attainments												PSO's			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
20CSL202.1	3	3	1	3	0	0	0	0	3	2	0	0	3	0	0	
20CSL202.2	3	3	1	3	0	0	0	0	3	2	0	0	3	0	0	
20CSL202.3	3	3	1	3	0	0	0	0	3	2	0	0	3	0	0	

20CSL202.4	1	3	1	3	0	0	0	0	3	2	0	0	3	0	0
20CSL202	2.5	3	1	3	0	0	0	0	3	2	0	0	3	0	0

PROGRAMMING FOR PROBLEM SOLVING LAB(20CSL203)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL203.1	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	3
20CSL203.2	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	3
20CSL203.3	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	3
20CSL203.4	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	3
Avg	3	3	3	-	-	-	-	-	-	-	-	3	3	3	-	3

BAPATLA ENGINEERING COLLEGE, BAPATLA
Department of Computer Science & Engineering
Coursewise PO, PSO Attainment Sheet (B.Tech-R20) (SEM-3)

PROBABILITY AND STATISTICS(20CS301)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS301.1	3	3	-	-	-	-	-	-	-	-	-	2	-	3	-	2.75
20CS301.2	3	3	2	-	-	-	-	-	-	-	-	2	-	3	-	2.6
20CS301.3	3	3	2	-	-	-	-	-	-	-	-	2	-	3	-	2.6
20CS301.4	3	3	3	-	-	-	-	-	-	-	-	2	-	3	-	2.8
Avg	3	3	2.33	-	-	-	-	-	-	-	-	2	-	3	-	2.69

DATA STRUCTURES(20CS302)

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS302.1	3	3	3	-	-	-	-	-	-	-	-	-	3	3	-	3
20CS302.2	3	3	3	-	-	-	-	-	-	-	-	-	3	3	-	3
20CS302.3	3	3	3	-	-	-	-	-	-	-	-	-	3	3	-	3
20CS302.4	3	3	3	-	-	-	-	-	-	-	-	-	3	3	-	3
Avg	3	3	3	-	-	-	-	-	-	-	-	-	3	3	-	3

Object Oriented Programming(20CS303)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS303.1	2.28	2.28	2.28	-	-	-	-	-	-	-	-	2.28	2.28	2.28	2.28	2.28
20CS303.2	2.28	2.28	2.28	-	-	-	-	-	-	-	-	2.28	2.28	2.28	2.28	2.28
20CS303.3	2.76	2.76	2.76	-	-	-	-	-	-	-	-	2.76	2.76	2.76	2.76	2.76
20CS303.4	2.28	2.28	2.28	-	-	-	-	-	-	-	-	2.28	2.28	2.28	2.28	2.28
Avg	2.4	2.4	2.4	-	-	-	-	-	-	-	-	2.4	2.4	2.4	2.4	2.4

OPERATING SYSTEMS(20CS304)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS304.1	3	3	3	-	-	-	-	-	-	-	-	-	3	-	-	3
20CS304.2	3	3	3	-	-	-	-	-	-	-	-	-	3	-	-	3
20CS304.3	3	3	3	-	-	-	-	-	-	-	-	-	3	-	-	3
20CS304.4	2.76	2.76	2.76	-	-	-	-	-	-	-	-	-	2.76	-	-	2.76
Avg	2.94	2.94	2.94	-	-	-	-	-	-	-	-	-	2.94	-	-	2.94

Computer Organization(20CS305)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS305.1	1.63	1.63	2.44	1.63	-	-	-	-	-	-	-	1.63	1.63	2.44	0.81	1.73
20CS305.2	1.4	0.93	0.93	0.93	-	-	-	-	-	-	-	0.47	1.4	0.93	0.47	0.93
20CS305.3	2	3	1	-	-	-	-	-	-	-	-	2	2	3	1	2
20CS305.4	1.63	-	2.44	-	0.81	-	-	-	-	-	-	1.63	2.44	1.63	0.81	1.63
Avg	1.67	1.85	1.7	1.28	0.81	-	-	-	-	-	-	1.43	1.87	2	0.77	1.57

Professional Ethics& Human Values(20CS306)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS306.1	-	-	-	-	-	3	3	3	-	-	-	3	-	-	-	3
20CS306.2	-	-	-	-	-	1.4	1.4	1.4	-	-	-	1.4	-	-	-	1.4
20CS306.3	-	-	-	-	-	2.2	2.2	2.2	-	-	-	2.2	-	-	-	2.2
20CS306.4	-	-	-	-	-	3	3	3	-	-	-	3	-	-	-	3
Avg	-	-	-	-	-	2.4	2.4	2.4	-	-	-	2.4	-	-	-	2.4

LINUX ESSENTIALS LAB(20CSL301)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL301.1	3	3	3	-	-	-	-	2	-	2	-	3	3	3	3	2.78
20CSL301.2	3	3	3	-	-	-	-	2	-	2	-	3	3	3	3	2.78
20CSL301.3	3	3	3	-	-	-	-	2	-	2	-	3	3	3	3	2.78
20CSL301.4	3	3	3	-	-	-	-	2	-	2	-	3	3	3	3	2.78
Avg	3	3	3	-	-	-	-	2	-	2	-	3	3	3	3	2.78

DATA STRUCTURES LAB(20CSL302)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL302.1	2.52	2.52	2.52	-	2.52	-	-	1.68	-	1.68	-	2.52	2.52	2.52	2.52	2.35
20CSL302.2	2.52	2.52	2.52	-	2.52	-	-	1.68	-	1.68	-	2.52	2.52	2.52	2.52	2.35
20CSL302.3	2.52	2.52	2.52	-	2.52	-	-	1.68	-	1.68	-	2.52	2.52	2.52	2.52	2.35
20CSL302.4	2.52	2.52	2.52	-	2.52	-	-	1.68	-	1.68	-	2.52	2.52	2.52	2.52	2.35
Avg	2.52	2.52	2.52	-	2.52	-	-	1.68	-	1.68	-	2.52	2.52	2.52	2.52	2.35

Object Oriented Programming Lab(20CSL303)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL303.1	2.76	2.76	2.76	-	2.76	-	-	1.84	-	1.84	-	2.76	2.76	2.76	2.76	2.58
20CSL303.2	2.76	2.76	2.76	-	2.76	-	-	1.84	-	1.84	-	2.76	2.76	2.76	2.76	2.58
20CSL303.3	2.76	2.76	2.76	-	2.76	-	-	1.84	-	1.84	-	2.76	2.76	2.76	2.76	2.58
20CSL303.4	2.76	2.76	2.76	-	2.76	-	-	1.84	-	1.84	-	2.76	2.76	2.76	2.76	2.58
Avg	2.76	2.76	2.76	-	2.76	-	-	1.84	-	1.84	-	2.76	2.76	2.76	2.76	2.58

BAPATLA ENGINEERING COLLEGE, BAPATLA
Department of Computer Science & Engineering
Coursewise PO, PSO Attainment Sheet (B.Tech-R20) (SEM-4)

MICRO PROCESSOR & MICRO CONTROLLER(20CS401)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS401.1	2	2	3	-	-	-	-	-	-	-	-	-	3	-	-	2.5
20CS401.2	2.76	-	-	-	1.84	-	-	-	-	-	-	-	2.76	-	-	2.45
20CS401.3	-	-	1.63	-	-	-	-	-	-	-	-	-	2.44	-	-	2.04
20CS401.4	3	-	2	-	2	-	-	-	-	-	-	-	3	-	-	2.5
Avg	2.59	2	2.21	-	1.92	-	-	-	-	-	-	-	2.8	-	-	2.37

Web Technologies(20CS402)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS402.1	1.64	-	1.64	-	1.64	-	-	-	-	-	-	1.64	1.64	-	1.64	1.64
20CS402.2	0.84	-	0.84	-	0.84	-	-	-	-	-	-	0.84	0.84	-	0.84	0.84
20CS402.3	0.6	-	0.6	-	0.6	-	-	-	-	-	-	0.6	0.6	-	0.6	0.6
20CS402.4	1.16	-	1.16	-	1.16	-	-	-	-	-	-	1.16	1.16	-	1.16	1.16

Avg	1.06	-	1.06	-	1.06	-	-	-	-	-	-	-	1.06	1.06	-	1.06	1.06
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DATA BASE MANAGEMENT SYSTEMS(20CS403)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS403.1	2.28	2.28	2.28	2.28	-	-	-	-	-	-	-	-	2.28	2.28	1.52	2.17
20CS403.2	3	3	3	3	3	-	-	-	-	-	-	-	3	3	2	2.88
20CS403.3	2.28	2.28	2.28	2.28	-	-	-	-	-	-	-	-	2.28	2.28	1.52	2.17
20CS403.4	2.52	2.52	2.52	2.52	-	-	-	-	-	-	-	-	2.52	2.52	1.68	2.4
Avg	2.52	2.52	2.52	2.52	3	-	-	-	-	-	-	-	2.52	2.52	1.68	2.41

DESIGN AND ANALYSIS OF ALGORITHMS(20CS404)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS404.1	3	3	3	3	-	-	-	-	-	-	-	-	3	3	2	2.86
20CS404.2	2.52	2.52	2.52	2.52	2.52	-	-	-	-	-	-	-	2.52	2.52	1.68	2.42
20CS404.3	1.4	1.4	1.4	1.4	-	-	-	-	-	-	-	-	1.4	1.4	0.93	1.33
20CS404.4	2.76	2.76	2.76	2.76	-	-	-	-	-	-	-	-	2.76	2.76	1.84	2.63
Avg	2.42	2.42	2.42	2.42	2.52	-	-	-	-	-	-	-	2.42	2.42	1.61	2.31

Technical English(20EL002)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20EL002.1	-	-	-	-	-	-	-	2	2	3	2	2	-	2	-	2.17
20EL002.2	-	-	-	-	-	-	-	1.63	1.63	2.44	1.63	1.63	-	1.63	-	1.77
20EL002.3	-	-	-	-	-	-	-	2	2	3	2	2	-	2	-	2.17
20EL002.4	-	-	-	-	-	-	-	2	2	3	2	2	-	2	-	2.17
Avg	-	-	-	-	-	-	-	1.91	1.91	2.86	1.91	1.91	-	1.91	-	2.07

PYTHON PROGRAMMING(20CSL401)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL401.1	3	1.88	3	-	3	-	-	2	-	2	-	3	3	3	3	2.69
20CSL401.2	1.88	1.88	1.88	-	3	-	-	2	-	2	-	3	3	3	3	2.46
20CSL401.3	1.88	1.88	3	-	3	-	-	2	-	2	-	3	3	3	3	2.58
20CSL401.4	1.88	1.88	3	-	3	-	-	2	-	2	-	3	3	3	3	2.58
Avg	2.16	1.88	2.72	-	3	-	-	2	-	2	-	3	3	3	3	2.58

Web Technologies Lab(20CSL402)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL402.1	2.76	-	2.76	-	2.76	-	-	1.84	-	1.84	-	2.76	2.76	-	-	2.5
20CSL402.2	2.76	-	2.76	-	2.76	-	-	1.84	-	1.84	-	2.76	2.76	-	-	2.5
20CSL402.3	2.76	-	2.76	-	2.76	-	-	1.84	-	1.84	-	2.76	2.76	-	-	2.5
20CSL402.4	2.76	-	2.76	-	2.76	-	-	1.84	-	1.84	-	2.76	2.76	-	-	2.5
Avg	2.76	-	2.76	-	2.76	-	-	1.84	-	1.84	-	2.76	2.76	-	-	2.5

DATABASE MANAGEMENT SYSTEMS LAB(20CSL403)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL403.1	2.76	2.76	2.76	2.76	2.76	-	-	1.84	-	1.84	-	2.76	2.76	2.76	2.76	2.59
20CSL403.2	2.76	2.76	2.76	2.76	2.76	-	-	1.84	-	1.84	-	2.76	2.76	2.76	2.76	2.59
20CSL403.3	2.76	2.76	2.76	2.76	2.76	-	-	1.84	-	1.84	-	2.76	2.76	2.76	2.76	2.59
20CSL403.4	2.76	2.76	2.76	2.76	2.76	-	-	1.84	-	1.84	-	2.76	2.76	2.76	2.76	2.59
Avg	2.76	2.76	2.76	2.76	2.76	-	-	1.84	-	1.84	-	2.76	2.76	2.76	2.76	2.59

BAPATLA ENGINEERING COLLEGE, BAPATLA
Department of Computer Science & Engineering
Coursewise PO, PSO Attainment Sheet (B.Tech-R20) (SEM-5)

AUTOMATA THEORY AND FORMAL LANGUAGES(20CS501)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS501.1	3	1	1	-	-	-	-	-	-	-	-	1	-	-	2	1.6
20CS501.2	1.68	0.84	0.84	-	0.84	-	-	-	-	-	-	0.84	0.84	1.68	1.68	1.16
20CS501.3	2.2	2.2	2.2	0.73	-	-	-	-	-	-	-	0.73	0.73	1.47	1.47	1.47
20CS501.4	2.52	2.52	2.52	1.68	-	-	-	-	-	-	-	0.84	0.84	1.68	1.68	1.79
Avg	2.35	1.64	1.64	1.21	0.84	-	-	-	-	-	-	0.85	0.8	1.61	1.71	1.51

Computer Networks(20CS502)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS502.1	3	3	3	-	-	-	-	-	-	-	-	-	3	-	3	3
20CS502.2	2.28	2.28	2.28	-	-	-	-	-	-	-	-	-	2.28	-	2.28	2.28
20CS502.3	2.2	2.2	2.2	-	-	-	-	-	-	-	-	-	2.2	-	2.2	2.2
20CS502.4	2.28	2.28	2.28	-	-	-	-	-	-	-	-	-	2.28	-	2.28	2.28
Avg	2.44	2.44	2.44	-	-	-	-	-	-	-	-	-	2.44	-	2.44	2.44

SOFTWARE ENGINEERING(20CS503)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS503.1	0.84	0.84	0.84	-	0.84	-	-	-	-	-	-	0.84	0.84	0.56	0.84	0.81
20CS503.2	0.6	0.6	0.6	-	0.6	-	-	-	-	-	-	0.6	0.6	0.4	0.6	0.58
20CS503.3	0.84	0.84	0.84	-	0.84	-	-	-	-	-	-	0.84	0.84	0.56	0.84	0.81
20CS503.4	2.2	2.2	2.2	-	2.2	-	-	-	-	-	-	2.2	2.2	1.47	2.2	2.11

Avg	1.12	1.12	1.12	-	1.12	-	-	-	-	-	-	-	1.12	1.12	0.75	1.12	1.08
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ARTIFICIAL INTELLIGENCE(20CS505)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS505.1	3	3	3	-	-	-	-	-	-	-	-	3	3	3	3	3
20CS505.2	1.72	1.72	1.72	-	-	-	-	-	-	-	-	1.72	1.72	1.72	1.72	1.72
20CS505.3	3	3	3	-	-	-	-	-	-	-	-	3	3	3	3	3
20CS505.4	1.32	1.32	1.32	-	-	-	-	-	-	-	-	1.32	1.32	1.32	1.32	1.32
Avg	2.26	2.26	2.26	-	-	-	-	-	-	-	-	2.26	2.26	2.26	2.26	2.26

Essence of Indian Traditional Knowledge (20CS506/MC03)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS506/MC03.1	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	3
20CS506/MC03.2	-	-	-	-	-	1.4	1.4	-	-	-	-	-	-	-	-	1.4
20CS506/MC03.3	-	-	-	-	-	2.2	2.2	-	-	-	-	-	-	-	-	2.2
20CS506/MC03.4	-	-	-	-	-	1.4	1.4	-	-	-	-	-	-	-	-	1.4
Avg	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	2

Soft Skills Lab(20CSL501)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS302.1	-	-	-	-	-	-	-	2	3	3	2	2	-	2	-	2.33
20CS302.2	-	-	-	-	-	-	-	2	3	3	2	2	-	2	-	2.33
20CS302.3	-	-	-	-	-	-	-	2	3	3	2	2	-	2	-	2.33
20CS302.4	-	-	-	-	-	-	-	2	3	3	2	2	-	2	-	2.33
Avg	-	-	-	-	-	-	-	2	3	3	2	2	-	2	-	2.33

SOFTWARE ENGINEERING(20CSL502)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL502.1	3	3	3	-	3	-	-	2	-	2	-	3	3	3	3	2.8
20CSL502.2	3	3	3	-	3	-	-	2	-	2	-	3	3	3	3	2.8
20CSL502.3	3	3	3	-	3	-	-	2	-	2	-	3	3	3	3	2.8
20CSL502.4	3	3	3	-	3	-	-	2	-	2	-	3	3	3	3	2.8
Avg	3	3	3	-	3	-	-	2	-	2	-	3	3	3	3	2.8

Enterprise Programming Lab(20CSL503)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg

20CSL503.1	2.52	2.52	2.52	-	2.52	-	-	1.68	-	1.68	-	2.52	2.52	2.52	2.52	2.35
20CSL503.2	2.52	2.52	2.52	-	2.52	-	-	1.68	-	1.68	-	2.52	2.52	2.52	2.52	2.35
20CSL503.3	2.52	2.52	2.52	-	2.52	-	-	1.68	-	1.68	-	2.52	2.52	2.52	2.52	2.35
20CSL503.4	2.52	2.52	2.52	-	2.52	-	-	1.68	-	1.68	-	2.52	2.52	2.52	2.52	2.35
Avg	2.52	2.52	2.52	-	2.52	-	-	1.68	-	1.68	-	2.52	2.52	2.52	2.52	2.35

INTERNSHIP(20CSL504/INT01)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
20CSL504/INT01.1	-	-	-	-	-	-	-	-	3	3	-	3	3	3	3	
20CSL504/INT01.2	-	-	-	-	-	-	-	-	3	3	-	3	3	3	3	
20CSL504/INT01.3	-	-	-	-	-	-	-	-	3	3	-	3	3	3	3	
20CSL504/INT01.4	-	-	-	-	-	-	-	-	3	3	-	3	3	3	3	
PO, PSO ATTAINMENT	-	-	-	-	-	-	-	-	3	3	-	3	3	3	3	3

BAPATLA ENGINEERING COLLEGE, BAPATLA
Department of Computer Science & Engineering
Coursewise PO, PSO Attainment Sheet (B.Tech-R20) (SEM-6)

COMPILER DESIGN(20CS601)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS601.1	2.76	2.76	2.76	-	-	-	-	-	-	-	-	-	2.76	2.76	-	2.76
20CS601.2	1.72	1.72	1.72	-	-	-	-	-	-	-	-	-	1.72	1.72	-	1.72
20CS601.3	2.28	2.28	2.28	-	-	-	-	-	-	-	-	-	2.28	2.28	-	2.28
20CS601.4	1.68	1.68	1.68	-	-	-	-	-	-	-	-	-	2.52	1.68	-	1.85
Avg	2.11	2.11	2.11	-	-	-	-	-	-	-	-	-	2.32	2.11	-	2.15

Machine Learning(20CS602)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS602.1	3	3	2	3	-	-	-	-	-	-	-	1	2	2	1	2.13
20CS602.2	2.52	2.52	2.52	2.52	-	-	-	-	-	-	-	0.84	1.68	1.68	0.84	1.89
20CS602.3	2.44	2.44	1.63	2.44	-	-	-	-	-	-	-	1.63	1.63	1.63	0.81	1.83
20CS602.4	2.28	2.28	1.52	2.28	-	-	-	-	-	-	-	1.52	1.52	1.52	0.76	1.71
Avg	2.56	2.56	1.92	2.56	-	-	-	-	-	-	-	1.25	1.71	1.71	0.85	1.89

CRYPTOGRAPHY AND NETWORK SECURITY(20CS603)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS603.1	3	3	-	-	-	-	-	-	-	-	-	-	3	2	2	2.6
20CS603.2	1.52	2.28	2.28	-	-	-	-	-	-	-	-	-	2.28	1.52	1.52	1.9
20CS603.3	1.84	1.84	-	-	-	-	-	-	-	-	-	-	-	1.84	1.84	1.84
20CS603.4	-	1.68	2.52	-	-	-	-	-	-	-	-	-	-	1.68	1.68	1.89

Avg	2.12	2.2	2.4	-	-	-	-	-	-	-	-	-	-	2.64	1.76	1.76	2.06
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BLOCK CHAIN TECHNOLOGY(20CS604)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS604.1	2.52	2.52	2.52	-	-	2.52	-	-	-	-	-	1.68	-	2.52	2.52	2.4
20CS604.2	1.72	1.72	1.72	-	-	1.72	-	-	-	-	-	1.15	-	1.72	1.72	1.64
20CS604.3	1.08	1.08	1.08	-	-	1.08	-	-	-	-	-	0.72	-	1.08	1.08	1.03
20CS604.4	2.28	2.28	2.28	-	-	2.28	-	-	-	-	-	1.52	-	2.28	2.28	2.17
Avg	1.9	1.9	1.9	-	-	1.9	-	-	-	-	-	1.27	-	1.9	1.9	1.81

MOBILE APPLICATION DEVELOPMENT(20CS605)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS605.1	3	2	3	-	3	-	-	-	-	-	-	2	3	3	3	2.75
20CS605.2	2.28	1.52	2.28	-	2.28	-	-	-	-	-	-	1.52	2.28	2.28	2.28	2.09
20CS605.3	1.32	1.32	0.88	1.32	-	-	-	-	-	-	-	0.88	0.88	0.88	0.44	0.99
20CS605.4	1.32	1.32	0.88	1.32	-	-	-	-	-	-	-	0.88	0.88	0.88	0.44	0.99
Avg	1.26	1.26	0.93	1.26	-	-	-	-	-	-	-	0.64	0.84	0.84	0.42	0.93

Constitution of India(20CS606/MC04)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS606/MC04.1	-	-	-	-	-	3	-	-	-	-	-	2	-	-	-	2.5
20CS606/MC04.2	-	-	-	-	-	0.6	-	-	-	-	-	0.4	-	-	-	0.5
20CS606/MC04.3	-	-	-	-	-	1.4	-	-	-	-	-	0.93	-	-	-	1.17
20CS606/MC04.4	-	-	-	-	-	0.6	-	-	-	-	-	0.4	-	-	-	0.5
Avg	-	-	-	-	-	1.4	-	-	-	-	-	0.93	-	-	-	1.17

FULL STACK DEVELOPMENT LAB(20CSL601)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL601.1	3	2	3	-	3	-	-	-	-	-	-	2	3	3	3	2.75
20CSL601.2	3	2	3	-	3	-	-	-	-	-	-	2	3	3	3	2.75
20CSL601.3	3	2	3	-	3	-	-	-	-	-	-	2	3	3	3	2.75
20CSL601.4	3	2	3	-	3	-	-	-	-	-	-	2	3	3	3	2.75
Avg	3	2	3	-	3	-	-	-	-	-	-	2	3	3	3	2.75

Machine Learning Lab(20CSL602)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg

20CSL602.1	3	3	3	3	3	-	-	2	-	2	-	3	3	3	3	2.82
20CSL602.2	3	3	3	3	3	-	-	2	-	2	-	3	3	3	3	2.82
20CSL602.3	3	3	3	3	3	-	-	2	-	2	-	3	3	3	3	2.82
20CSL602.4	3	3	3	3	3	-	-	2	-	2	-	3	3	3	3	2.82
Avg	3	3	3	3	3	-	-	2	-	2	-	3	3	3	3	2.82

MOBILE APPLICATION DEVELOPMENT LAB(20CSL603)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL603.1	2.92	2.92	2.92	-	2.92	-	-	1.95	-	1.95	-	2.92	2.92	2.92	2.92	2.73
20CSL603.2	2.92	2.92	2.92	-	2.92	-	-	1.95	-	1.95	-	2.92	2.92	2.92	2.92	2.73
20CSL603.3	2.9	2.9	2.9	-	2.9	-	-	1.93	-	1.93	-	2.9	2.9	2.9	2.92	2.71
20CSL603.4	2.93	2.93	2.93	-	2.93	-	-	1.95	-	1.95	-	2.93	2.93	2.93	2.92	2.73
Avg	2.92	2.92	2.92	-	2.92	-	-	1.95	-	1.95	-	2.92	2.92	2.92	2.92	2.73

BAPATLA ENGINEERING COLLEGE, BAPATLA
Department of Computer Science & Engineering
Coursewise PO, PSO Attainment Sheet (B.Tech-R20) (SEM-7)

WIRELESS NETWORKS(20CS701/PE3A)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS701/PE3A.1	2.28	2.28	2.28	-	-	-	-	-	-	-	-	2.28	2.28	2.28	2.28	2.28
20CS701/PE3A.2	1.64	1.64	1.64	-	-	-	-	-	-	-	-	1.64	1.64	1.64	1.64	1.64
20CS701/PE3A.3	2.28	2.28	2.28	-	-	-	-	-	-	-	-	2.28	2.28	2.28	2.28	2.28
20CS701/PE3A.4	3	3	3	-	-	-	-	-	-	-	-	3	3	3	3	3
Avg	2.3	2.3	2.3	-	-	-	-	-	-	-	-	2.3	2.3	2.3	2.3	2.3

ARTIFICIAL NEURAL NETWORKS AND DEEP LEARNING(20CS702)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS702.1	2.28	2.28	2.28	2.28	2.28	-	-	-	-	-	-	1.52	2.28	2.28	2.28	2.2
20CS702.2	2.28	2.28	2.28	2.28	2.28	-	-	-	-	-	-	1.52	2.28	2.28	2.28	2.2
20CS702.3	3	3	3	3	3	-	-	-	-	-	-	2	3	3	3	2.89
20CS702.4	2.76	2.76	2.76	2.76	2.76	-	-	-	-	-	-	1.84	2.76	2.76	2.76	2.66
Avg	2.58	2.58	2.58	2.58	2.58	-	-	-	-	-	-	1.72	2.58	2.58	2.58	2.49

Natural Language Processing(20CS702)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS702/PE4B.1	1.52	1.52	2.28	-	2.28	2.28	-	2.28	-	-	-	1.52	1.52	1.52	1.52	1.82
20CS702/PE4B.2	1.52	1.52	2.28	-	2.28	2.28	-	2.28	-	-	-	1.52	1.52	1.52	1.52	1.82
20CS702/PE4B.3	1.52	1.52	2.28	-	2.28	2.28	-	2.28	-	-	-	1.52	1.52	1.52	1.52	1.82
20CS702/PE4B.4	1.52	1.52	2.28	-	2.28	2.28	-	2.28	-	-	-	1.52	1.52	1.52	1.52	1.82

Avg	1.52	1.52	2.28	-	2.28	2.28	-	2.28	-	-	-	1.52	1.52	1.52	1.52	1.82
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Cloud Programming(20CS703)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS703.1	3	2	3	-	3	-	-	-	-	-	-	2	3	3	3	2.75
20CS703.2	2.52	1.68	2.52	-	2.52	-	-	-	-	-	-	1.68	2.52	2.52	2.52	2.31
20CS703.3	3	2	3	-	3	-	-	-	-	-	-	2	3	3	3	2.75
20CS703.4	2.52	1.68	2.52	-	2.52	-	-	-	-	-	-	1.68	2.52	2.52	2.52	2.31
Avg	2.76	1.84	2.76	-	2.76	-	-	-	-	-	-	1.84	2.76	2.76	2.76	2.53

CYBER SECURITY(20CS703)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS703/JO03.1	3	3	2	3	-	-	-	-	-	-	-	1	2	2	1	2.13
20CS703/JO03.2	3	3	3	3	-	-	-	-	-	-	-	1	2	2	1	2.25
20CS703/JO03.3	3	3	2	3	-	-	-	-	-	-	-	2	2	2	1	2.25
20CS703/JO03.4	2.76	2.76	1.84	2.76	-	-	-	-	-	-	-	1.84	1.84	1.84	0.92	2.07
Avg	2.94	2.94	2.21	2.94	-	-	-	-	-	-	-	1.46	1.96	1.96	0.98	2.18

INDUSTRIAL MANAGEMENT & ENTREPRENUERSHIP DEVELOPMENT(20CS705)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS705.1	-	-	-	-	-	-	-	-	-	-	2.2	2.2	1.47	-	-	1.96
20CS705.2	-	-	-	-	-	-	-	-	-	-	1.16	1.16	0.77	-	-	1.03
20CS705.3	-	-	-	-	-	-	-	-	-	-	1.32	1.32	0.88	-	-	1.17
20CS705.4	0.77	1.16	0.77	1.16	-	-	-	-	-	-	1.16	1.16	0.77	-	-	0.99
Avg	0.77	1.16	0.77	1.16	-	-	-	-	-	-	1.46	1.46	0.97	-	-	1.29

DevOps Lab(20CSL701)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL701.1	0.73	1.47	0.73	1.47	2.2	-	-	-	2.2	2.2	2.2	1.47	1.47	1.47	2.2	1.65
20CSL701.2	0.73	2.2	2.2	1.47	2.2	-	-	-	2.2	1.47	2.2	1.47	2.2	2.2	1.47	1.83
20CSL701.3	0.73	2.2	2.2	1.47	2.2	-	-	-	2.2	1.47	2.2	1.47	2.2	2.2	1.47	1.83
20CSL701.4	1.47	1.47	0.73	0.73	2.2	-	-	-	2.2	1.47	1.47	1.47	1.47	0.73	0.73	1.35
Avg	0.92	1.84	1.47	1.29	2.2	-	-	-	2.2	1.65	2.02	1.47	1.84	1.65	1.47	1.67

Cloud Programming Lab(20CSL702)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg

20CSL702.1	3	3	3	-	3	-	-	2	-	2	-	3	3	3	3	2.8
20CSL702.2	3	3	3	-	3	-	-	2	-	2	-	3	3	3	3	2.8
20CSL702.3	3	3	3	-	3	-	-	2	-	2	-	3	3	3	3	2.8
20CSL702.4	3	3	3	-	3	-	-	2	-	2	-	3	3	3	3	2.8
Avg	3	3	3	-	3	-	-	2	-	2	-	3	3	3	3	2.8

Cyber Security Lab(20CSL703)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL702.1	2	2	3	-	3	3	-	3	-	-	-	2	2	2	2	2.4
20CSL702.2	2	2	3	-	3	3	-	3	-	-	-	2	2	2	2	2.4
20CSL702.3	2	2	3	-	3	3	-	3	-	-	-	2	2	2	2	2.4
20CSL702.4	2	2	3	-	3	3	-	3	-	-	-	2	2	2	2	2.4
Avg	2	2	3	-	3	3	-	3	-	-	-	2	2	2	2	2.4

BAPATLA ENGINEERING COLLEGE, BAPATLA
Department of Computer Science & Engineering
Coursewise PO, PSO Attainment Sheet (B.Tech-R20) (SEM-8)

Project Work(20CS801)

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS801.1	3	3	3	3	3	3	3	3	3	3	-	3	3	3	3	3
20CS801.2	3	3	3	3	3	3	3	3	3	3	-	3	3	3	3	3
20CS801.3	3	3	3	3	3	3	3	3	3	3	-	3	3	3	3	3
20CS801.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.2
Avg	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	0	2.25	2.25	2.25	3	2.3



BAPATLA ENGINEERING COLLEGE::BAPATLA
(Autonomous)
Department of Electronics and Communication Engineering

Attainment of Course Outcomes for all courses with respect to set attainment levels.

Overall Course-Wise CO Attainment (2020-2024 Batch)

Course Code & Course Name	COs	Internal Examination	End Semester Examination	Direct	Indirect	Final Course Attainment	CO Target Value	CO Attained (Yes/No)
		(CIE)	(SEE)			80% of Direct and 20% of Indirect		
		Attainment Level	Attainment Level	Attainment Level	Attainment Level	Level		
20EC101-Linear Algebra and Ordinary Differential Equations	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	1	3	2.4	3	2.52	1.86	Yes
20EC102-Waves and Modern Physics	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC103-Engineering Chemistry	CO1	3	3	3	3	3	1.86	Yes
	CO2	2	3	2.7	3	2.76	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes

20EC104-Programming for Problem Solving	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	2	2.3	3	2.44	1.86	Yes
20ECL101-Chemistry Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL102-Hardware Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL103-Programming for Problem Solving Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC105- Environmental Studies	CO1	3	-	3	3	3	1.86	Yes
	CO2	1	-	1	3	1.4	1.86	No
	CO3	3	-	3	3	3	1.86	Yes
	CO4	1	-	1	3	1.4	1.86	No
20EC201-Numerical Methods and Advanced Calculus	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC202-Basic Instrumentation	CO1	3	3	3	3	3	1.86	Yes
	CO2	1	3	2.4	2	2	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC203- Communicative English	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes

	CO3	2	3	2.7	3	2.6	1.86	Yes
	CO4	2	3	2.7	3	2.6	1.86	Yes
20EC204-Programming with C++	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC205-Circuit Theory	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC206-Fundamentals of Digital Electronics	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	2	2.3	3	2.44	1.86	Yes
20ECL201-Physics Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL202-English Communication Skills Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL203-Programming with C++ Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC301-Probability and Statistics	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	0	0.9	3	1.32	1.86	No
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes

20EC302-Signals & Systems	CO1	3	3	3	3	3	1.86	Yes
	CO2	0	3	2.1	3	2.28	1.86	Yes
	CO3	3	1	1.6	3	1.88	1.86	Yes
	CO4	0	0	0	2	0.4	1.86	No
20EC303-Electronic Devices and Circuits	CO1	1	3	2.4	3	2.52	1.86	Yes
	CO2	0	3	2.1	2	2.08	1.86	Yes
	CO3	0	1	0.7	2	0.96	1.86	No
	CO4	0	0	0	2	0.4	1.86	No
20EC304-Electromagnetic Field Theory	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	2	1	1.3	3	1.64	1.86	No
20EC305-Digital Logic Design	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	1	1.6	3	1.88	1.86	Yes
20EC306-Data Structures Using Python(Skill Oriented course-I)	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	0	0.9	3	1.32	1.86	No
20ECL301-Data Structures using Python Lab	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	2	2.3	3	2.44	1.86	Yes
20ECL302-Electronic Devices Lab	CO1	3	0	0.9	3	1.32	1.86	No
	CO2	3	0	0.9	2	1.12	1.86	No
	CO3	3	0	0.9	3	1.32	1.86	No
	CO4	3	0	0.9	2	1.12	1.86	No
20ECL303-Signals & Systems Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes

	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC307-Indian Constitution	CO1	2	-	2	3	2.2	1.86	Yes
	CO2	0	-	0	3	0.6	1.86	No
	CO3	3	-	3	3	3	1.86	Yes
	CO4	0	-	0	3	0.6	1.86	No
20EC401-Complex Analysis and Special Functions	CO1	2	0	0.6	3	1.08	1.86	No
	CO2	0	0	0	2	0.4	1.86	No
	CO3	3	3	3	3	3	1.86	Yes
	CO4	2	3	2.7	3	2.76	1.86	Yes
20EC402-Electronic Circuit Analysis	CO1	3	3	3	3	3	1.86	Yes
	CO2	2	3	2.7	3	2.76	1.86	Yes
	CO3	0	1	0.7	3	1.16	1.86	No
	CO4	0	0	0	3	0.60	1.86	No
20EC403-EM Waves and Transmission Lines	CO1	3	3	3	3	3	1.86	Yes
	CO2	0	2	1.4	2	1.52	1.86	No
	CO3	3	1	1.6	3	1.88	1.86	Yes
	CO4	0	0	0	2	0.4	1.86	No
20EC404-Analog Communication	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	2	2.3	3	2.44	1.86	Yes
20EC405-Microprocessor and Microcontroller(Skill Oriented Course-I)	CO1	3	1	1.6	3	1.88	1.86	Yes
	CO2	3	1	1.6	3	1.88	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	0	0.9	3	1.32	1.86	No
20EC406-Technical English	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	1	1.6	3	1.88	1.86	Yes
	CO3	3	0	0.9	2	1.12	1.86	No
	CO4	2	3	2.7	3	2.76	1.86	Yes

20ECL401-Electronic Circuits Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL402-Digital logic Design Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL403-Microprocessor and Microcontroller Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC501-Linear Integrated Circuits	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	1	3	2.4	3	2.52	1.86	Yes
20EC502-Antennas and Wave Propagation	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	2	0	0.6	2	0.88	1.86	No
20EC503-Digital Communication	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	2	3	2.7	3	2.76	1.86	Yes
20EC504-1A-Embedded System & Design	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC504-1B-Data Communication &	CO1	3	3	3	3	3	1.86	Yes
	CO2	0	2	1.4	2	1.52	1.86	No

Computer Networks	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC504-1C- Programming with JAVA	CO1	3	3	3	3	3	1.86	Yes
	CO2	1	3	2.4	2	2.32	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC505-1A- Information Theory and Coding	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC505-1B- Telecommunication Switching Systems and Networks	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	1	3	2.4	2	2.32	1.86	Yes
20EC505-1D-Optical Communications	CO1	3	3	3	3	3	1.86	Yes
	CO2	0	3	2.1	2	2.08	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	2	2.3	3	2.44	1.86	Yes
20ECL501-Machine Learning(Skill Advanced Course-I)	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL502-Analog and Digital Communications Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL503-Linear Integrated Circuits Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes

	CO4	3	3	3	3	3	1.86	Yes
20ECL504-Summer Internship	CO1	-	3	3	3	3	1.86	Yes
	CO2	-	3	3	3	3	1.86	Yes
	CO3	-	3	3	3	3	1.86	Yes
	CO4	-	3	3	3	3	1.86	Yes
20EC506-Essence of Indian Traditional Knowledge	CO1	3	-	3	3	3	1.86	Yes
	CO2	3	-	3	3	3	1.86	Yes
	CO3	3	-	3	3	3	1.86	Yes
	CO4	3	-	3	3	3	1.86	Yes
20EC601-VLSI Design	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	2	3	2.7	3	2.76	1.86	Yes
	CO4	3	1	1.6	3	1.88	1.86	Yes
20EC602-Linear Control Systems	CO1	3	3	3	3	3	1.86	Yes
	CO2	2	2	2	3	2.2	1.86	Yes
	CO3	3	1	1.6	3	1.88	1.86	Yes
	CO4	0	3	2.1	2	2.08	1.86	Yes
20EC603-Digital Signal Processing	CO1	3	0	0.9	2	1.12	1.86	No
	CO2	0	0	0	2	0.4	1.86	No
	CO3	1	0	0.3	2	0.64	1.86	No
	CO4	0	0	0	2	0.4	1.86	No
20EC604-Internet of Things(Skil Advanced Course-II)	CO1	0	3	2.1	3	2.28	1.86	Yes
	CO2	1	3	2.4	2	2.32	1.86	Yes
	CO3	0	1	0.7	2	1.16	1.86	No
	CO4	2	1	1.3	3	1.64	1.86	No
20EC605-2A-Digital Design Using Verilog HDL	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	1	1.6	2	1.68	1.86	No
	CO4	3	1	1.6	3	1.88	1.86	Yes

20EC605-2B-Artificial Intelligence	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	0	0.9	2	1.12	1.86	No
20EC606-2A-Microwave Engineering	CO1	3	1	1.6	3	1.88	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	0	0	0	2	0.4	1.86	No
	CO4	0	3	2.1	3	2.28	1.86	Yes
20EC606-2B-Mobile and Cellular Communications	CO1	2	3	2.7	2	2.56	1.86	Yes
	CO2	0	0	0	2	0.4	1.86	No
	CO3	3	3	3	3	3	1.86	Yes
	CO4	0	3	2.1	2	2.08	1.86	Yes
20ECL601-Digital Signal Processing Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL602-Internet of Things Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL603-VLSI Design Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC607-Professional Ethics and Human Values	CO1	3	-	3	3	3	1.86	Yes
	CO2	1	-	1	2	1.2	1.86	No
	CO3	3	-	3	3	3	1.86	Yes
	CO4	0	-	0	2	0.4	1.86	No
20EC701-3A-Radar	CO1	3	3	3	3	3	1.86	Yes

Engineering	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	2	3	2.7	3	2.76	1.86	Yes
20EC702-4A-Satellite Communications	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	1	1.6	3	1.88	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	1	3	2.4	2	2.32	1.86	Yes
20EC703- 5A-Low Power VLSI	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	1	3	2.4	3	2.52	1.86	Yes
20EC703- 5D-Advanced Sensors	CO1	3	3	3	3	3	1.86	Yes
	CO2	2	3	2.7	3	2.76	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC705-3A-Digital Image Processing	CO1	3	3	3	3	3	1.86	Yes
	CO2	0	1	0.7	2	0.96	1.86	No
	CO3	3	1	1.6	3	1.88	1.86	Yes
	CO4	2	1	1.3	3	1.64	1.86	No
20EC705-3D-Deep learning	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	2	0	0.6	2	0.88	1.86	No
20EC706-Industrial Management and Entrepreneurship Development	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	2	2.3	3	2.44	1.86	Yes
20ECL701-Artificial Neural Networks(Skill	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes

Advanced Course-III)	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL702- Industrial/Research Internship	CO1	-	3	3	3	3	1.86	Yes
	CO2	-	3	3	3	3	1.86	Yes
	CO3	-	3	3	3	3	1.86	Yes
	CO4	-	3	3	3	3	1.86	Yes
20EC801-Project Work & Internship	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes

Total Number of COs in the Program	288
NO. of COs Attained	249
No. of COs Not Attained	39


Signature of Co-ordinator


HOD,ECE
HOD-ECE,
Bapatia Engineering College,
BAPATLA-592 101.



BAPATLA ENGINEERING COLLEGE::BAPATLA
(Autonomous)
Department of Electronics and Communication Engineering

Attainment of Course Outcomes for all courses with respect to set attainment levels.

Overall Course-Wise CO Attainment (2020-2024 Batch)

Course Code & Course Name	COs	Internal Examination	End Semester Examination	Direct	Indirect	Final Course Attainment	CO Target Value	CO Attained (Yes/No)
		(CIE)	(SEE)			80% of Direct and 20% of Indirect		
		Attainment Level	Attainment Level	Attainment Level	Attainment Level	Level		
20EC101-Linear Algebra and Ordinary Differential Equations	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	1	3	2.4	3	2.52	1.86	Yes
20EC102-Waves and Modern Physics	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC103-Engineering Chemistry	CO1	3	3	3	3	3	1.86	Yes
	CO2	2	3	2.7	3	2.76	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes

20EC104-Programming for Problem Solving	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	2	2.3	3	2.44	1.86	Yes
20ECL101-Chemistry Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL102-Hardware Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL103-Programming for Problem Solving Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC105- Environmental Studies	CO1	3	-	3	3	3	1.86	Yes
	CO2	1	-	1	3	1.4	1.86	No
	CO3	3	-	3	3	3	1.86	Yes
	CO4	1	-	1	3	1.4	1.86	No
20EC201-Numerical Methods and Advanced Calculus	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC202-Basic Instrumentation	CO1	3	3	3	3	3	1.86	Yes
	CO2	1	3	2.4	2	2	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC203- Communicative English	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes

	CO3	2	3	2.7	3	2.6	1.86	Yes
	CO4	2	3	2.7	3	2.6	1.86	Yes
20EC204-Programming with C++	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC205-Circuit Theory	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC206-Fundamentals of Digital Electronics	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	2	2.3	3	2.44	1.86	Yes
20ECL201-Physics Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL202-English Communication Skills Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL203-Programming with C++ Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC301-Probability and Statistics	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	0	0.9	3	1.32	1.86	No
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes

20EC302-Signals & Systems	CO1	3	3	3	3	3	1.86	Yes
	CO2	0	3	2.1	3	2.28	1.86	Yes
	CO3	3	1	1.6	3	1.88	1.86	Yes
	CO4	0	0	0	2	0.4	1.86	No
20EC303-Electronic Devices and Circuits	CO1	1	3	2.4	3	2.52	1.86	Yes
	CO2	0	3	2.1	2	2.08	1.86	Yes
	CO3	0	1	0.7	2	0.96	1.86	No
	CO4	0	0	0	2	0.4	1.86	No
20EC304-Electromagnetic Field Theory	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	2	1	1.3	3	1.64	1.86	No
20EC305-Digital Logic Design	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	1	1.6	3	1.88	1.86	Yes
20EC306-Data Structures Using Python(Skill Oriented course-I)	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	0	0.9	3	1.32	1.86	No
20ECL301-Data Structures using Python Lab	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	2	2.3	3	2.44	1.86	Yes
20ECL302-Electronic Devices Lab	CO1	3	0	0.9	3	1.32	1.86	No
	CO2	3	0	0.9	2	1.12	1.86	No
	CO3	3	0	0.9	3	1.32	1.86	No
	CO4	3	0	0.9	2	1.12	1.86	No
20ECL303-Signals & Systems Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes

	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC307-Indian Constitution	CO1	2	-	2	3	2.2	1.86	Yes
	CO2	0	-	0	3	0.6	1.86	No
	CO3	3	-	3	3	3	1.86	Yes
	CO4	0	-	0	3	0.6	1.86	No
20EC401-Complex Analysis and Special Functions	CO1	2	0	0.6	3	1.08	1.86	No
	CO2	0	0	0	2	0.4	1.86	No
	CO3	3	3	3	3	3	1.86	Yes
	CO4	2	3	2.7	3	2.76	1.86	Yes
20EC402-Electronic Circuit Analysis	CO1	3	3	3	3	3	1.86	Yes
	CO2	2	3	2.7	3	2.76	1.86	Yes
	CO3	0	1	0.7	3	1.16	1.86	No
	CO4	0	0	0	3	0.60	1.86	No
20EC403-EM Waves and Transmission Lines	CO1	3	3	3	3	3	1.86	Yes
	CO2	0	2	1.4	2	1.52	1.86	No
	CO3	3	1	1.6	3	1.88	1.86	Yes
	CO4	0	0	0	2	0.4	1.86	No
20EC404-Analog Communication	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	2	2.3	3	2.44	1.86	Yes
20EC405-Microprocessor and Microcontroller(Skill Oriented Course-I)	CO1	3	1	1.6	3	1.88	1.86	Yes
	CO2	3	1	1.6	3	1.88	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	0	0.9	3	1.32	1.86	No
20EC406-Technical English	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	1	1.6	3	1.88	1.86	Yes
	CO3	3	0	0.9	2	1.12	1.86	No
	CO4	2	3	2.7	3	2.76	1.86	Yes

20ECL401-Electronic Circuits Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL402-Digital logic Design Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL403-Microprocessor and Microcontroller Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC501-Linear Integrated Circuits	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	1	3	2.4	3	2.52	1.86	Yes
20EC502-Antennas and Wave Propagation	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	2	0	0.6	2	0.88	1.86	No
20EC503-Digital Communication	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	2	3	2.7	3	2.76	1.86	Yes
20EC504-1A-Embedded System & Design	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC504-1B-Data Communication &	CO1	3	3	3	3	3	1.86	Yes
	CO2	0	2	1.4	2	1.52	1.86	No

Computer Networks	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC504-1C- Programming with JAVA	CO1	3	3	3	3	3	1.86	Yes
	CO2	1	3	2.4	2	2.32	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC505-1A- Information Theory and Coding	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC505-1B- Telecommunication Switching Systems and Networks	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	1	3	2.4	2	2.32	1.86	Yes
20EC505-1D-Optical Communications	CO1	3	3	3	3	3	1.86	Yes
	CO2	0	3	2.1	2	2.08	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	2	2.3	3	2.44	1.86	Yes
20ECL501-Machine Learning(Skill Advanced Course-I)	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL502-Analog and Digital Communications Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL503-Linear Integrated Circuits Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes

	CO4	3	3	3	3	3	1.86	Yes
20ECL504-Summer Internship	CO1	-	3	3	3	3	1.86	Yes
	CO2	-	3	3	3	3	1.86	Yes
	CO3	-	3	3	3	3	1.86	Yes
	CO4	-	3	3	3	3	1.86	Yes
20EC506-Essence of Indian Traditional Knowledge	CO1	3	-	3	3	3	1.86	Yes
	CO2	3	-	3	3	3	1.86	Yes
	CO3	3	-	3	3	3	1.86	Yes
	CO4	3	-	3	3	3	1.86	Yes
20EC601-VLSI Design	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	2	3	2.7	3	2.76	1.86	Yes
	CO4	3	1	1.6	3	1.88	1.86	Yes
20EC602-Linear Control Systems	CO1	3	3	3	3	3	1.86	Yes
	CO2	2	2	2	3	2.2	1.86	Yes
	CO3	3	1	1.6	3	1.88	1.86	Yes
	CO4	0	3	2.1	2	2.08	1.86	Yes
20EC603-Digital Signal Processing	CO1	3	0	0.9	2	1.12	1.86	No
	CO2	0	0	0	2	0.4	1.86	No
	CO3	1	0	0.3	2	0.64	1.86	No
	CO4	0	0	0	2	0.4	1.86	No
20EC604-Internet of Things(Skil Advanced Course-II)	CO1	0	3	2.1	3	2.28	1.86	Yes
	CO2	1	3	2.4	2	2.32	1.86	Yes
	CO3	0	1	0.7	2	1.16	1.86	No
	CO4	2	1	1.3	3	1.64	1.86	No
20EC605-2A-Digital Design Using Verilog HDL	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	1	1.6	2	1.68	1.86	No
	CO4	3	1	1.6	3	1.88	1.86	Yes

20EC605-2B-Artificial Intelligence	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	3	0	0.9	2	1.12	1.86	No
20EC606-2A-Microwave Engineering	CO1	3	1	1.6	3	1.88	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	0	0	0	2	0.4	1.86	No
	CO4	0	3	2.1	3	2.28	1.86	Yes
20EC606-2B-Mobile and Cellular Communications	CO1	2	3	2.7	2	2.56	1.86	Yes
	CO2	0	0	0	2	0.4	1.86	No
	CO3	3	3	3	3	3	1.86	Yes
	CO4	0	3	2.1	2	2.08	1.86	Yes
20ECL601-Digital Signal Processing Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL602-Internet of Things Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL603-VLSI Design Lab	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC607-Professional Ethics and Human Values	CO1	3	-	3	3	3	1.86	Yes
	CO2	1	-	1	2	1.2	1.86	No
	CO3	3	-	3	3	3	1.86	Yes
	CO4	0	-	0	2	0.4	1.86	No
20EC701-3A-Radar	CO1	3	3	3	3	3	1.86	Yes

Engineering	CO2	3	2	2.3	3	2.44	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	2	3	2.7	3	2.76	1.86	Yes
20EC702-4A-Satellite Communications	CO1	3	2	2.3	3	2.44	1.86	Yes
	CO2	3	1	1.6	3	1.88	1.86	Yes
	CO3	3	2	2.3	3	2.44	1.86	Yes
	CO4	1	3	2.4	2	2.32	1.86	Yes
20EC703- 5A-Low Power VLSI	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	1	3	2.4	3	2.52	1.86	Yes
20EC703- 5D-Advanced Sensors	CO1	3	3	3	3	3	1.86	Yes
	CO2	2	3	2.7	3	2.76	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20EC705-3A-Digital Image Processing	CO1	3	3	3	3	3	1.86	Yes
	CO2	0	1	0.7	2	0.96	1.86	No
	CO3	3	1	1.6	3	1.88	1.86	Yes
	CO4	2	1	1.3	3	1.64	1.86	No
20EC705-3D-Deep learning	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	2	0	0.6	2	0.88	1.86	No
20EC706-Industrial Management and Entrepreneurship Development	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	2	2.3	3	2.44	1.86	Yes
20ECL701-Artificial Neural Networks(Skill	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes

Advanced Course-III)	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes
20ECL702- Industrial/Research Internship	CO1	-	3	3	3	3	1.86	Yes
	CO2	-	3	3	3	3	1.86	Yes
	CO3	-	3	3	3	3	1.86	Yes
	CO4	-	3	3	3	3	1.86	Yes
20EC801-Project Work & Internship	CO1	3	3	3	3	3	1.86	Yes
	CO2	3	3	3	3	3	1.86	Yes
	CO3	3	3	3	3	3	1.86	Yes
	CO4	3	3	3	3	3	1.86	Yes

Total Number of COs in the Program	288
NO. of COs Attained	249
No. of COs Not Attained	39

Signature of Co-ordinator

HoD,ECE



**Bapatla Engineering College :: Bapatla
(AUTONOMOUS)
Department of Electrical Electronics Engineering
Overall CO, PO, and PSO Attainments
Subject_Code: 20EE303
A.Y. 2023-24**

Name of the Subject: Electro Magnetic Fields
Class, Semester : II Year, III semester
Total number of Students Registered: 105

CO's	CIE						SEE					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	3.00	3.00	3.00	0.00	1.00	3.00	1.00	2.00	1.00	
% Attainment	100.0	100.0	100.0	100.0	100.0	0.0	33.3	100.0	33.3	66.7	33.3	0.0

CO's	Direct attainment (30% CIE+ 70% SEE)						Indirect attainment					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	1.60	3.00	1.60	2.30	1.60	0.00	3.00	3.00	3.00	3.00	3.00	
% Attainment	53.3	100.0	53.3	76.7	53.3	0.0	100.0	100.0	100.0	100.0	100.0	0.0

CO's	Overall CO Attainment (80% Direct Attainment +20% Indirect Attainment)					
	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	1.88	3.00	1.88	2.44	1.88	0.00
% Attainment	62.7	100.0	62.7	81.3	62.7	0.0

Average CO Attainment Obtained	2.22	74%
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Course Outcomes, Program Objectives & Program Specific Objectives Mapping														
Course Outcomes	Programme Outcomes (PO's)											PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	3
20EE303.1	3	3	3									2	3	2
20EE303.2	3	3	2									2	3	2
20EE303.3	3	3	2									2	3	2
20EE303.4	2	2	2									2	3	2
20EE303.5	3	3	3									2	3	2
20EE303	2.75	2.75	2.25	0	0	0	0	0	0	0	0	2	3	2
	1.65	1.65	1.35	0	0	0	0	0	0	0	0	1.2	1.8	1.2

Program Outcome & Program Specific Outcome														
Course Outcomes	Programme Outcomes (PO's) and PSO Direct Attainments											PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	3
20EE303.1	1.6	1.6	1.88	0	0	0	0	0	0	0	0	0	1.6	0.6666666
20EE303.2	3	3	2	0	0	0	0	0	0	0	0	0	2	3
20EE303.3	1.6	1.6	1.06666667	0	0	0	0	0	0	0	0	0	1.6	0.6666666
20EE303.4	1.53333333	1.53333333	1.53333333	0	0	0	0	0	0	0	0	0	2.3	1.53333333
20EE303.5	1.6	1.6	1.6	0	0	0	0	0	0	0	0	0	1.6	0.6666666
20EE303	1.86666667	1.86666667	1.616	0	0	0	0	0	0	0	0	0	2.125	1.41666667

PO attainment = CO's of a PO /3 X Final CO attainment for the subject

No. of CO's 5

PO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
PO1	2.80	1.47	1.87	3.00	2.09	1.46	0.63	Reached
PO2	2.80	1.47	1.87	3.00	2.09	1.46	0.63	Reached
PO3	2.40	1.20	1.56	3.00	1.85	1.46	0.39	Reached
PO12	2.00	1.07	1.35	3.00	1.68	1.46	0.22	Reached
PSO1	3.00	1.60	2.02	3.00	2.22	1.50	0.72	Reached
PSO2	2.00	1.07	1.35	3.00	1.68	1.50	0.18	Reached

CO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
CO1	3.00	1.00	1.60	3.00	1.88	1.80	0.08	Reached
CO2	3.00	3.00	3.00	3.00	3.00	1.80	1.20	Reached
CO3	3.00	1.00	1.60	3.00	1.88	1.80	0.08	Reached
CO4	3.00	2.00	2.30	3.00	2.44	1.80	0.64	Reached
CO5	3.00	1.00	1.60	3.00	1.88	1.80	0.08	Reached
					2.22	1.80	0.42	

Next Year Average CO Attainment Target: 61%

M. Jayendra

Course Coordinator

HOD



Bapatla Engineering College :: Bapatla
(AUTONOMOUS)
Department of Electrical Electronics Engineering
Overall CO, PO, and PSO Attainments

Name of the Subject: DC Machines & Transformers
 Class, Semester : II Year, III semester
 Total number of Students Registered: 108

Subject Code: 20EE304
 A.Y. 2023-24

Average CO Attainment Target: 60%

CO's	CIE						SEE					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	3.00	3.00	0.00	0.00	3.00	3.00	1.00	2.00	0.00	#REF!
% Attainment	100.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	33.3	66.7	0.0	#REF!

CO's	Direct attainment (30% CIE+ 70% SEE)						Indirect attainment					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	1.60	2.30	0.00	#REF!	3.00	3.00	3.00	3.00	0.00	#DIV/0!
% Attainment	100.0	100.0	53.3	76.7	0.0	#REF!	100.0	100.0	100.0	100.0	0.0	#DIV/0!

CO's	Overall CO Attainment (80% Direct Attainment +20% Indirect Attainment)					
	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	1.88	2.44	0.00	#REF!
% Attainment	100.0	100.0	62.7	81.3	0.0	#REF!

Average CO Attainment Obtained	2.58	86%
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Course Outcomes, Program Objectives & Program Specific Objectives Mapping															
Course Outcomes	Programme Outcomes (PO's)												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE403.1	3	3	2	2								2	3	3	3
20EE403.2	3	3	3	2								2	3	3	3
20EE403.3	3	3	3	2								2	3	3	3
20EE403.4	3	3	2	3								2	3	3	3
20EE303.5															
20EE403	3	3	2.5	2.25	0	0	0	0	0	0	0	2	3	3	3
	1.8	1.8	1.5	1.35								1.2	1.8	1.8	1.8

Program Outcome & Program Specific Outcome															
Course Outcomes	Programme Outcomes (PO's) and PSO Direct Attainments												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE403.1	3	3	2	2	0	0	0	0	0	0	0	2	3	3	3
20EE403.2	3	3	3	2	0	0	0	0	0	0	0	2	3	3	3
20EE403.3	1.6	1.6	1.6	.06666666	0	0	0	0	0	0	0	666666	1.6	1.6	1.6
20EE403.4	2.3	2.3	1.53333333	2.3	0	0	0	0	0	0	0	333333	2.3	2.3	2.3
20EE403.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20EE403	2.475	2.475	2.03333333	2.84166666	0	0	0	0	0	0	0	1.65	2.475	2.475	2.475

PO attainment = CO's of a PO /3 X Final CO attainment for the subject

No. of CO's 4

PO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
PO1	3.00	2.25	2.48	3.00	2.58	1.53	1.05	Reached
PO2	3.00	2.25	2.48	3.00	2.58	1.53	1.05	Reached
PO3	2.50	1.83	2.03	3.00	2.23	1.53	0.70	Reached
PO4	2.25	1.67	1.84	3.00	2.07	1.53	0.54	Reached
PO12	2.00	1.50	1.65	3.00	1.92	1.53	0.39	Reached
PSO1	3.00	2.25	2.48	3.00	2.58	1.80	0.78	Reached
PSO2	2.25	2.25	2.25	3.00	2.40	1.80	0.60	Reached
PSO3	2.25	2.25	2.25	3.00	2.40	1.80	0.60	Reached

CO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
CO1	3.00	3.00	3.00	3.00	3.00	1.80	1.20	Reached
CO2	3.00	3.00	3.00	3.00	3.00	1.80	1.20	Reached
CO3	3.00	1.00	1.60	3.00	1.88	1.80	0.08	Reached
CO4	3.00	2.00	2.30	3.00	2.44	1.80	0.64	Reached
					2.58	1.80	0.78	

Next Year Average CO Attainment Target: 61%

Dr. Haniprasad
 Course Coordinator

HOD



**Bapatla Engineering College :: Bapatla
(AUTONOMOUS)
Department of Electrical Electronics Engineering
Overall CO, PO, and PSO Attainments**

Name of the Subject: Analog Electronics
Class, Semester : II Year, IV semester
Total number of Students Registered: 104

Subject_Code: 20EE401
A.Y. 2023-24

Average CO Attainment Target: 60%

CO's	CIE						SEE					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	1.00	3.00	3.00	3.00	0.00	3.00	3.00	2.00	3.00	2.00	
% Attainment	100.0	33.3	100.0	100.0	100.0	0.0	100.0	100.0	66.7	100.0	66.7	0.0

CO's	Direct attainment (30% CIE+ 70% SEE)						Indirect attainment					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	2.40	2.30	3.00	2.30	0.00	3.00	3.00	3.00	3.00	3.00	
% Attainment	100.0	80.0	76.7	100.0	76.7	0.0	100.0	100.0	100.0	100.0	100.0	0.0

CO's	Overall CO Attainment (80% Direct Attainment +20% Indirect Attainment)					
	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	2.52	2.44	3.00	2.44	0.00
% Attainment	100.0	84.0	81.3	100.0	81.3	0.0

Average CO Attainment Obtained 2.68 89%

Course Outcomes, Program Objectives & Program Specific Objectives Mapping															
Course Outcomes	Programme Outcomes (PO's)												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE401.1	3	3	2										3	2	
20EE401.2	3	3	2										3	2	
20EE401.3	3	3	2										3	2	
20EE401.4	3	3	2									2	3	2	
20EE401.5	3	3	2										3	2	
20EE401	3	3	2	0	0	0	0	0	0	0	0	2	3	2	0
	1.8	1.8	1.2	0	0	0	0	0	0	0	0	1.2	1.8	1.2	0

Program Outcome & Program Specific Outcome															
Course Outcomes	Programme Outcomes (PO's) and PSO Direct Attainments												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE401.1	3	3	2	0	0	0	0	0	0	0	0	0	3	2	0
20EE401.2	2.4	2.4	1.6	0	0	0	0	0	0	0	0	0	2.4	1.6	0
20EE401.3	2.3	2.3	1.53333333	0	0	0	0	0	0	0	0	0	2.3	1.53333333	0
20EE401.4	3	3	2	0	0	0	0	0	0	0	0	2	3	2	0
20EE401.5	2.3	2.3	1.53333333	0	0	0	0	0	0	0	0	0	2.3	1.53333333	0
20EE302	2.6	2.6	1.73333333	0	0	0	0	0	0	0	0	2	2.675	1.78333333	0

PO attainment = CO's of a PO /3 X Final CO attainment for the subject

No. of CO's 5

PO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
PO1	2.60	2.60	2.60	3.00	2.68	1.50	1.18	Reached
PO2	2.60	2.60	2.60	3.00	2.68	1.50	1.18	Reached
PO3	1.73	1.73	1.73	3.00	1.99	1.50	0.49	Reached
PO12	0.40	0.40	0.40	3.00	0.92	1.50	-0.58	Not Reached
PSO1	2.60	2.60	2.60	3.00	2.68	1.50	1.18	Reached
PSO2	1.73	1.73	1.73	3.00	1.99	1.50	0.49	Reached

CO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
CO1	3.00	3.00	3.00	3.00	3.00	1.80	1.20	Reached
CO2	1.00	3.00	2.40	3.00	2.52	1.80	0.72	Reached
CO3	3.00	2.00	2.30	3.00	2.44	1.80	0.64	Reached
CO4	3.00	3.00	3.00	3.00	3.00	1.80	1.20	Reached
CO5	3.00	2.00	2.30	3.00	2.44	1.80	0.64	Reached

2.68 1.80 0.88

Next Year Average CO Attainment Target: 62%

M. Jayendra
Course Coordinator

HOD



Bapatla Engineering College :: Bapatla
(AUTONOMOUS)
Department of Electrical Electronics Engineering
Overall CO, PO, and PSO Attainments

Name of the Subject: Digital Electronics
 Class, Semester : II Year, IV semester
 Total number of Students Registered: 104

Subject_Code: 20EE402
 A.Y. 2023-24

Average CO Attainment Target: 60%

CO's	CIE						SEE					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	1.00	3.00	3.00
% Attainment	100.0	100.0	66.7	100.0	100.0	100.0	100.0	100.0	100.0	33.3	100.0	100.0

CO's	Direct attainment (30% CIE+ 70% SEE)						Indirect attainment					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	2.70	1.60	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00
% Attainment	100.0	100.0	90.0	53.3	100.0	100.0	100.0	100.0	100.0	100.0	66.7	100.0

CO's	Overall CO Attainment (80% Direct Attainment +20% Indirect)					
	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	2.76	1.88	2.80	3.00
% Attainment	100.0	100.0	92.0	62.7	93.3	100.0

Average CO Attainment Obtained	2.74	91%
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Course Outcomes, Program Objectives & Program Specific Objectives Mapping															
Course Outcomes	Programme Outcomes (PO's)												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE302.1	3	3	2	0	0	0	0	0	0	0	0	0	3	2	2
20EE302.2	3	3	2	0	0	0	0	0	0	0	0	0	3	2	2
20EE302.3	3	3	2	0	0	0	0	0	0	0	0	0	3	2	2
20EE302.4	3	3	2	0	0	0	0	0	0	0	0	0	3	2	2
20EE302.5	3	3	2	0	0	0	0	0	0	0	0	0	3	2	2
20EE302.6	3	3	2	0	0	0	0	0	0	0	0	0	3	2	2
20EE302	3	3	2	0	0	0	0	0	0	0	0	0	3	2	2
	1.8	1.8	1.2	0	0	0	0	0	0	0	0	0	1.8	1.2	1.2
	1.6												1.4		

Program Outcome & Program Specific Outcome															
Course Outcomes	Programme Outcomes (PO's) and PSO Direct Attainments												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE302.1	3	3	2	0	0	0	0	0	0	0	0	0	3	2	2
20EE302.2	3	3	2	0	0	0	0	0	0	0	0	0	3	2	2
20EE302.3	2.7	2.7	1.8	0	0	0	0	0	0	0	0	0	2.7	1.8	1.8
20EE302.4	1.6	1.6	0.666666	0	0	0	0	0	0	0	0	0	1.6	0.666666	0.666666
20EE302.5	3	3	2	0	0	0	0	0	0	0	0	0	3	2	2
20EE302.6	3	3	2	0	0	0	0	0	0	0	0	0	3	2	2
20EE302	7.166666	7.166666	5.111111	0	0	0	0	0	0	0	0	0	2.575	7.166666	7.166666

PO attainment = CO's of a PO / 3 X Final CO attainment for the subject

PO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
PO1	2.83	2.67	2.72	2.83	2.74	1.60	1.14	Reached
PO2	2.83	2.67	2.72	2.83	2.74	1.60	1.14	Reached
PO3	1.89	1.78	1.81	2.83	2.02	1.60	0.42	Reached
PSO1	2.83	2.67	2.72	2.83	2.74	1.40	1.34	Reached
PSO2	1.89	1.78	1.81	2.83	2.02	1.40	0.62	Reached
PSO3	1.89	1.78	1.81	2.83	2.02	1.40	0.62	Reached

CO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
CO1	3.00	3.00	3.00	3.00	3.00	1.80	1.20	Reached
CO2	3.00	3.00	3.00	3.00	3.00	1.80	1.20	Reached
CO3	2.00	3.00	2.70	3.00	2.76	1.80	0.96	Reached
CO4	3.00	1.00	1.60	3.00	1.88	1.80	0.08	Reached
CO5	3.00	3.00	3.00	2.00	2.80	1.80	1.00	Reached
CO6	3.00	3.00	3.00	3.00	3.00	1.80	1.20	Reached
					2.74	1.80	0.94	

Next Year Average CO Attainment Target: 65%

Course Coordinator

HOD



Bapatla Engineering College :: Bapatla
(AUTONOMOUS)
Department of Electrical Electronics Engineering
Overall CO, PO, and PSO Attainments

Name of the Subject: Microprocessors & Micro controllers
 Class, Semester : III Year, V semester
 Total number of Students Registered: 93

Subject_Code: 20EE501
 A.Y. 2023-24

Average CO Attainment Target: 62%

CO's	CIE						SEE					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	3.00	3.00	0.00	0.00	3.00	3.00	3.00	3.00	0.00	0.00
% Attainment	100.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0	100.0	0.0	0.0

CO's	Direct attainment (30% CIE+ 70% SEE)						Indirect attainment					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	3.00	3.00	0.00	0.00	3.00	3.00	3.00	3.00	0.00	0.00
% Attainment	100.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0	100.0	0.0	0.0

CO's	Overall CO Attainment (80% Direct Attainment +20% Indirect)					
	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	3.00	3.00	0.00	0.00
% Attainment	100.0	100.0	100.0	100.0	0.0	0.0

Average CO Attainment Obtained	3.00	100%
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Course Outcomes, Program Objectives & Program Specific Objectives Mapping															
Course Outcomes	Programme Outcomes (PO's)												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE501.1	3	2	3	1	1	0	0	0	0	0	0	2	2	2	0
20EE501.2	3	3	3	2	2	0	0	0	0	0	0	2	2	2	0
20EE501.3	3	3	3	3	3	0	0	0	0	0	0	2	2	2	0
20EE501.4	3	3	3	3	3	0	0	0	0	0	0	2	2	2	0
20EE501	3	2.75	3	2.25	2.25	0	0	0	0	0	0	2	2	2	0
	1.86	1.705	1.86	1.395	1.395	0	0	0	0	0	0	1.24	1.24	1.24	0
	1.58														

Program Outcome & Program Specific Outcome															
Course Outcomes	Programme Outcomes (PO's) and PSO Direct Attainments												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE501.1	3	2	3	1	1	0	0	0	0	0	0	2	2	2	0
20EE501.2	3	3	3	2	2	0	0	0	0	0	0	2	2	2	0
20EE501.3	3	3	3	3	3	0	0	0	0	0	0	2	2	2	0
20EE501.4	3	3	3	3	3	0	0	0	0	0	0	2	2	2	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20EE501	3	2.75	3	2.25	2.25	0	0	0	0	0	0	2	2	2	0

PO attainment = CO's of a PO /3 X Final CO attainment for the subject

PO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
PO1	3.00	3.00	3.00	3.00	3.00	1.58	1.42	Reached
PO2	2.75	2.75	2.75	3.00	2.80	1.58	1.22	Reached
PO3	3.00	3.00	3.00	3.00	3.00	1.58	1.42	Reached
PO4	2.25	2.25	2.25	3.00	2.40	1.58	0.82	Reached
PO5	2.25	2.25	2.25	3.00	2.40	1.58	0.82	Reached
PO12	2.00	2.00	2.00	3.00	2.20	1.58	0.62	Reached
PSO1	3.00	2.00	2.50	3.00	2.60	1.24	1.36	Reached
PSO2	2.00	2.00	2.00	3.00	2.20	1.24	0.96	Reached

CO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
CO1	3.00	3.00	3.00	3.00	3.00	1.85	1.15	Reached
CO2	3.00	3.00	3.00	3.00	3.00	1.85	1.15	Reached
CO3	3.00	3.00	3.00	3.00	3.00	1.85	1.15	Reached
CO4	3.00	3.00	3.00	3.00	3.00	1.85	1.15	Reached

Next Year Average CO Attainment Target: 63%

Dr. Hariprasad
 Course Coordinator

(Signature)
 HOD



**Bapatla Engineering College :: Bapatla
(AUTONOMOUS)
Department of Electrical Electronics Engineering
Overall CO, PO, and PSO Attainments**

Name of the Subject: Power System Analysis
Class, Semester : III Year, V semester
Total number of Students Registered: 93

Subject_Code: 20EE502
A.Y. 2023-24

Average CO Attainment Target: 62%

CO's	CIE						SEE					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	2.00	3.00	2.00	0.00	0.00	3.00	3.00	3.00	3.00	0.00	
% Attainment	100.0	66.7	100.0	66.7	0.0	0.0	100.0	100.0	100.0	100.0	0.0	

CO's	Direct attainment (30% CIE+ 70% SEE)						Indirect attainment					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	2.70	3.00	2.70	0.00	0.00	2.00	3.00	2.00	3.00	0.00	
% Attainment	100.0	90.0	100.0	90.0	0.0	0.0	66.7	100.0	66.7	100.0	0.0	

CO's	Overall CO Attainment (80% Direct Attainment +20% Indirect Attainment)					
	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	2.80	2.76	2.80	2.76	0.00	0.00
% Attainment	93.3	92.0	93.3	92.0	0.0	0.0

Average CO Attainment Obtained	2.78	93%
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Course Outcomes, Program Objectives & Program Specific Objectives Mapping															
Course Outcomes	Programme Outcomes (PO's)												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE502.1	3	3	2	2	0	0	0	0	0	0	0	0	3	2	2
20EE502.2	3	3	2	1	0	0	0	0	0	0	0	0	3	2	2
20EE502.3	3	3	2	3	0	0	2	0	0	0	0	0	3	2	2
20EE502.4	3	3	2	2	0	0	1	0	0	0	0	0	3	2	2
20EE502	3	3	2	2	0	0	1.5	0	0	0	0	0	3	2	2
	1.86	1.86	1.24	1.24	0	0	0.93	0	0	0	0	0	1.86	1.24	1.24

Program Outcome & Program Specific Outcome															
Course Outcomes	Programme Outcomes (PO's) and PSO Direct Attainments												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE502.1	3	3	1.86666667	2	0	0	0	0	0	0	0	0	3	2	2
20EE502.2	2.7	2.7	1.8	0.9	0	0	0	0	0	0	0	0	2.7	1.8	1.8
20EE502.3	3	3	2	3	0	0	2	0	0	0	0	0	3	2	2
20EE502.4	2.7	2.7	1.8	1.8	0	0	0.9	0	0	0	0	0	2.7	1.8	1.8
20EE502.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20EE502	2.85	2.85	1.86666667	1.925	0	0	1.45	0	0	0	0	0	2.85	1.9	1.9

PO attainment = CO's of a PO / 3 X Final CO attainment for the subject

No. of CO's 4

PO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
PO1	2.50	3.00	2.85	2.50	2.78	1.43	1.35	Reached
PO2	2.50	3.00	2.85	2.50	2.78	1.43	1.35	Reached
PO3	1.67	2.00	1.90	2.50	2.02	1.43	0.59	Reached
PO4	1.75	2.00	1.93	2.00	1.94	1.43	0.51	Reached
PO7	1.33	1.50	1.45	2.50	1.66	1.43	0.23	Reached
PSO1	2.50	3.00	2.85	2.50	2.78	1.45	1.33	Reached
PSO2	1.67	2.00	1.90	2.50	2.02	1.45	0.57	Reached
PSO3	1.67	2.00	1.90	2.50	2.02	1.45	0.57	Reached

CO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
CO1	3.00	3.00	3.00	2.00	2.80	1.85	0.95	Reached
CO2	2.00	3.00	2.70	3.00	2.76	1.85	0.91	Reached
CO3	3.00	3.00	3.00	2.00	2.80	1.85	0.95	Reached
CO4	2.00	3.00	2.70	3.00	2.76	1.85	0.91	Reached

2.78 1.85 0.93

Next Year Average CO Attainment Target: 63%

G. Anil Kumar
Course Coordinator

[Signature]
HOD



Bapatla Engineering College :: Bapatla
(AUTONOMOUS)
Department of Electrical Electrinics Engineering
Overall CO, PO, and PSO Attainments

Name of the Subject: HVDC & FACTS
 Class, Semester : III Year, VI semester
 Total number of Students Registered: 93

Subject Code: 20EE603
 A.Y. 2023-24

Average CO Attainment Target: **62%**

CO's	CIE						SEE					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	3.00	3.00	0.00	0.00	3.00	3.00	3.00	3.00	0.00	0.00
% Attainment	100.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0	100.0	0.0	0.0

CO's	Direct attainment (30% CIE+ 70% SEE)						Indirect attainment					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	3.00	3.00	0.00	0.00	3.00	3.00	3.00	3.00		
% Attainment	100.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0	100.0	0.0	0.0

CO's	Overall CO Attainment (80% Direct Attainment +20% Indirect)					
	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	3.00	3.00	0.00	0.00
% Attainment	100.0	100.0	100.0	100.0	0.0	0.0

Average CO Attainment Obtained **3.00 100%**

Course Outcomes, Program Objectives & Program Specific Objectives Mapping															
Course Outcomes	Programme Outcomes (PO's)												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE602	2	2	1	1	1	0	0	0	0	0	0	1	3	2	2
20EE602	3	3	3	2	2	0	0	0	0	0	0	1	3	2	2
20EE602	3	3	3	2	2	0	0	0	0	0	0	2	3	2	2
20EE602	3	2	3	2	2	0	0	0	0	0	0	2	3	2	2
20EE602	2.75	2.5	2.5	1.75	1.75	0	0	0	0	0	0	1.5	3	2	2
	1.705	1.55	1.55	1.085	1.085	0	0	0	0	0	0	0.93	1.86	1.24	1.24
	1.32												1.45		

Program Outcome & Program Specific Outcome															
Course Outcomes	Programme Outcomes (PO's) and PSO Direct Attainments												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE602	2	2	1	1	1	0	0	0	0	0	0	1	3	2	2
20EE602	3	3	3	2	2	0	0	0	0	0	0	1	3	2	2
20EE602	3	3	3	2	2	0	0	0	0	0	0	2	3	2	2
20EE602	3	2	3	2	2	0	0	0	0	0	0	2	3	2	2
20EE602	2.75	2.5	2.5	1.75	1.75	0	0	0	0	0	0	1.5	3	2	2

PO attainment = CO's of a PO /3 X Final CO attainment for the subject

PO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
PO1	2.75	2.75	2.75	3.00	2.80	1.32	1.48	Reached
PO2	2.50	2.50	2.50	3.00	2.60	1.32	1.28	Reached
PO3	2.50	2.50	2.50	3.00	2.60	1.32	1.28	Reached
PO4	1.75	1.75	1.75	3.00	2.00	1.32	0.68	Reached
PO5	1.75	1.75	1.75	3.00	2.00	1.32	0.68	Reached
PO12	1.50	1.50	1.50	3.00	1.80	1.32	0.48	Reached
PSO1	3.00	3.00	3.00	3.00	3.00	1.45	1.55	Reached
PSO2	2.00	2.00	2.00	3.00	2.20	1.45	0.75	Reached
PSO3	2.00	2.00	2.00	3.00	2.20	1.45	0.75	Reached

CO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
CO1	3.00	3.00	3.00	3.00	3.00	1.85	1.15	Reached
CO2	3.00	3.00	3.00	3.00	3.00	1.85	1.15	Reached
CO3	3.00	3.00	3.00	3.00	3.00	1.85	1.15	Reached
CO4	3.00	3.00	3.00	3.00	3.00	1.85	1.15	Reached
					3.00	1.85	1.15	

Next Year Average CO Attainment Target: 63%

M. Jayendra
 Course Coordinator

HOD



**Bapatla Engineering College :: Bapatla
(AUTONOMOUS)
Department of Electrical Electronics Engineering
Overall CO, PO, and PSO Attainments**

Name of the Subject: Solar PV & Wind plant design
Class, Semester : III Year, VI semester
Total number of Students Registered: 93

Subject Code: 20EE604
A.Y. 2023-24

Average CO Attainment Target: 62%

CO's	CIE						SEE					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	3.00	3.00	0.00	0.00	3.00	3.00	3.00	3.00	0.00	0.00
% Attainment	100.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0	100.0	0.0	0.0

CO's	Direct attainment (30% CIE+ 70% SEE)						Indirect attainment					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	3.00	3.00	0.00	0.00	3.00	3.00	3.00	3.00		
% Attainment	100.0	100.0	100.0	100.0	0.0	0.0	100.0	100.0	100.0	100.0	0.0	0.0

CO's	Overall CO Attainment (80% Direct Attainment +20% Indirect)					
	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	3.00	3.00	3.00	0.00	0.00
% Attainment	100.0	100.0	100.0	100.0	0.0	0.0

Average CO Attainment Obtained		3.00	100%
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Course Outcomes, Program Objectives & Program Specific Objectives Mapping															
Course Outcomes	Programme Outcomes (PO's)												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE604	3	3	3	2	3	2	2	0	3	2	0	2	2	2	3
20EE604	3	3	3	3	3	2	2	0	3	2	0	2	2	2	3
20EE604	3	3	3	3	3	3	2	0	3	3	0	2	2	2	3
20EE604	3	3	3	3	3	3	2	0	3	3	0	2	2	2	3
20EE604	3	3	3	2.75	3	2.5	2	0	3	2.5	0	2	2	2	3
	1.86	1.86	1.86	1.705	1.86	1.55	1.24	0	1.86	1.55	0	1.24	1.24	1.24	1.86

Program Outcome & Program Specific Outcome															
Course Outcomes	Programme Outcomes (PO's) and PSO Direct Attainments												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE604	3	3	3	2	3	2	2	0	3	2	0	2	2	2	3
20EE604	3	3	3	3	3	2	2	0	3	2	0	2	2	2	3
20EE604	3	3	3	3	3	3	2	0	3	3	0	2	2	2	3
20EE604	3	3	3	3	3	3	2	0	3	3	0	2	2	2	3
20EE604	3	3	3	2.75	3	2.5	2	0	3	2.5	0	2	2	2	3

PO attainment = CO's of a PO /3 X Final CO attainment for the subject

PO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
PO1	3.00	3.00	3.00	3.00	3.00	1.66	1.34	Reached
PO2	3.00	3.00	3.00	3.00	3.00	1.66	1.34	Reached
PO3	3.00	3.00	3.00	3.00	3.00	1.66	1.34	Reached
PO4	2.75	2.75	2.75	3.00	2.80	1.66	1.14	Reached
PO5	3.00	3.00	3.00	3.00	3.00	1.66	1.34	Reached
PO6	2.50	2.50	2.50	3.00	2.60	1.66	0.94	Reached
PO7	2.00	2.00	2.00	3.00	2.20	1.66	0.54	Reached
PO9	3.00	3.00	3.00	3.00	3.00	1.66	1.34	Reached
PO10	2.50	2.50	2.50	3.00	2.60	1.66	0.94	Reached
PO12	2.00	2.00	2.00	3.00	2.20	1.66	0.54	Reached
PSO1	3.00	2.00	2.30	3.00	2.44	1.45	0.99	Reached
PSO2	2.00	2.00	2.00	3.00	2.20	1.45	0.75	Reached
PSO3	3.00	3.00	3.00	3.00	3.00	1.45	1.55	Reached

CO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
CO1	3.00	3.00	3.00	3.00	3.00	1.85	1.15	Reached
CO2	3.00	3.00	3.00	3.00	3.00	1.85	1.15	Reached
CO3	3.00	3.00	3.00	3.00	3.00	1.85	1.15	Reached
CO4	3.00	3.00	3.00	3.00	3.00	1.85	1.15	Reached

3.00 1.85 1.15

Next Year Average CO Attainment Target: 63%

D. Nagabhisnu
Course Coordinator

HOD



Bapatla Engineering College :: Bapatla
AUTONOMOUS
Department of Electrical Electrinics Engineering
Overall CO, PO, and PSO Attainments

Name of the Subject: Power System Operation Control & Stability
 Class, Semester : IV Year, VII semester
 Total number of Students Registered: 107

Subject_Code: 20EE701
 A.Y. 2023-24

Average CO Attainment Target: 63%

CO's	CIE						SEE					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	1.00	3.00	3.00	3.00	0.00	3.00	3.00	3.00	3.00	3.00	
% Attainment	100.0	33.3	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	100.0	

CO's	Direct attainment (30% CIE+ 70% SEE)						Indirect attainment					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	2.40	3.00	3.00	3.00	0.00	3.00	3.00	3.00	3.00	3.00	#DIV/0!
% Attainment	100.0	80.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	100.0	#DIV/0!

CO's	Overall CO Attainment (80% Direct Attainment +20% Indirect Attainment)					
	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	3.00	2.52	3.00	3.00	3.00	#DIV/0!
% Attainment	100.0	84.0	100.0	100.0	100.0	#DIV/0!

Average CO Attainment Obtained		2.90	97%
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Course Outcomes, Program Objectives & Program Specific Objectives Mapping															
Course Outcomes	Programme Outcomes (PO's)												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE401.1	3	3	3										3	2	
20EE401.2	3	3	3										3	2	
20EE401.3	3	3	3										3	2	
20EE401.4	3	3	3										3	3	2
20EE401.5	3	3	3										3	2	
20EE401	3	3	3	0	0	0	0	0	0	0	0	0	3	2.25	2
	1.89	1.89	1.89	0	0	0	0	0	0	0	0	0	1.89	1.4175	1.26

Program Outcome & Program Specific Outcome															
Course Outcomes	Programme Outcomes (PO's) and PSO Direct Attainments												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE401.1	3	3	3	0	0	0	0	0	0	0	0	0	3	2	0
20EE401.2	2.4	2.4	2.4	0	0	0	0	0	0	0	0	0	2.4	1.6	0
20EE401.3	3	3	3	0	0	0	0	0	0	0	0	0	3	2	0
20EE401.4	3	3	3	0	0	0	0	0	0	0	0	0	3	3	2
20EE401.5	3	3	3	0	0	0	0	0	0	0	0	0	3	2	0
20EE302	2.88	2.88	2.88	0	0	0	0	0	0	0	0	0	2.85	2.15	2

PO attainment = CO's of a PO /3 X Final CO attainment for the subject

No. of CO's 5

PO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
PO1	2.60	3.00	2.88	3.00	2.90	1.89	1.01	Reached
PO2	2.60	3.00	2.88	3.00	2.90	1.89	1.01	Reached
PO3	2.60	3.00	2.88	3.00	2.90	1.89	1.01	Reached
PSO1	2.60	3.00	2.88	3.00	2.90	1.52	1.38	Reached
PSO2	2.60	2.20	2.32	3.00	2.46	1.52	0.94	Reached

CO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
CO1	3.00	3.00	3.00	3.00	3.00	1.90	1.10	Reached
CO2	1.00	3.00	2.40	3.00	2.52	1.90	0.62	Reached
CO3	3.00	3.00	3.00	3.00	3.00	1.90	1.10	Reached
CO4	3.00	3.00	3.00	3.00	3.00	1.90	1.10	Reached
CO5	3.00	3.00	3.00	3.00	3.00	1.90	1.10	Reached
					2.90	1.90	1.00	

Next Year Average CO Attainment Target: 63%



Bapatla Engineering College :: Bapatla
(AUTONOMOUS)
Department of Electrical Electronics Engineering
Overall CO, PO, and PSO Attainments

Name of the Subject: High voltage Engineering
 Class & Semester : IV Year, & VII semester
 Total Number of Students Registered: 107

Subject_Code: 20EE702
 A.Y. 2023-24

Average CO Attainment Target: 63%

CO's	CIE						SEE					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	1.00	1.00	2.00	1.00	0.00	0.00	3.00	3.00	3.00	3.00	0.00	0.00
% Attainment	33.3	33.3	66.7	33.3	0.0	0.0	100.0	100.0	100.0	100.0	0.0	0.0

CO's	Direct attainment (30% CIE+ 70% SEE)						Indirect attainment					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	2.40	2.40	2.70	2.40	0.00	0.00	3.00	3.00	3.00	3.00	0.00	0.00
% Attainment	80.0	80.0	90.0	80.0	0.0	0.0	100.0	100.0	100.0	100.0	0.0	0.0

CO's	Overall CO Attainment (80% Direct Attainment +20% Indirect Attainment)					
	CO1	CO2	CO3	CO4	CO5	CO6
Attainment	2.52	2.52	2.76	2.52	0.00	0.00
% Attainment	84.0	84.0	92.0	84.0	0.0	0.0

Average CO Attainment Obtained	2.58	86%
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Course Outcomes, Program Objectives & Program Specific Objectives Mapping															
Course Outcomes	Programme Outcomes (PO's)												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE702.1	3	3	1	1									3		
20EE702.2	3	3	1	2									3	3	
20EE702.3	2	1	2	2									3	3	
20EE702.4	3	3	2	2									3		
20EE702	2.75	2.5	1.5	1.75	0	0	0	0	0	0	0	0	3	3	0
	1.7325	1.575	0.945	1.1025	0	0	0	0	0	0	0	0	1.89	1.89	0
	1.34														

Program Outcome & Program Specific Outcome															
Course Outcomes	Programme Outcomes (PO's) and PSO Direct Attainments												PSO's		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20EE702.1	2.4	2.4	0.84	0.8	0	0	0	0	0	0	0	0	2.4	0	0
20EE702.2	2.4	2.4	0.8	1.6	0	0	0	0	0	0	0	0	2.4	2.4	0
20EE702.3	1.8	0.9	1.8	1.8	0	0	0	0	0	0	0	0	2.7	2.7	0
20EE702.4	2.4	2.4	1.6	1.6	0	0	0	0	0	0	0	0	2.4	0	0
20EE702.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20EE702	2.25	2.025	1.26	1.45	0	0	0	0	0	0	0	0	2.475	2.55	0

PO attainment = CO's of a PO /3 X Final CO attainment for the subject

No. of CO's 4

PO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
PO1	1.08	2.75	2.25	3.00	2.40	1.34	1.06	Reached
PO2	0.92	2.50	2.03	3.00	2.22	1.34	0.88	Reached
PO3	0.67	1.50	1.25	3.00	1.60	1.34	0.26	Reached
PO4	0.75	1.50	1.28	3.00	1.62	1.34	0.28	Reached
PSO1	1.25	3.00	2.48	3.00	2.58	1.89	0.69	Reached
PSO2	1.00	1.50	1.35	1.50	1.38	1.89	-0.51	Not Reached

CO Attainment	Internal	External	Direct	Indirect	Overall	Target	Gap	Outcome
CO1	1.00	3.00	2.40	3.00	2.52	1.90	0.62	Reached
CO2	1.00	3.00	2.40	3.00	2.52	1.90	0.62	Reached
CO3	2.00	3.00	2.70	3.00	2.76	1.90	0.86	Reached
CO4	1.00	3.00	2.40	3.00	2.52	1.90	0.62	Reached

2.58 1.90 0.68

Next Year Average CO Attainment Target: 63%

P. Kaimulle
 Course Coordinator

H. Hanumanth
 HOD

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

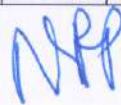
Programme Specilization:	IT
Year :	IV
Sem:	VII
Course Name:	CP
Course Code:	20IT703
A.Y:	2023-2024
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20IT703.1	3	3	2	-	-	-	-	-	-	-	-	2	3	3	2	2.57
20IT703.2	3	3	2	-	-	-	-	-	-	-	-	2	3	3	2	2.57
20IT703.3	3	3	2	-	-	-	-	-	-	-	-	2	3	3	2	2.57
20IT703.4	3	3	2	-	-	-	-	-	-	-	-	2	3	3	2	2.57
Avg	3.00	3.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	3.00	2.00	2.57

CO-WISE ATTAINMENT					
Particulars		20IT703.1	20IT703.2	20IT703.3	20IT703.4
INTERNAL (CIE)	Threshold Internal	60	60	60	60
	%students secured more than Threshold	100	87.9	98.39	87.9
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	100	100	100	100
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

PO, PSO ATTAINMENT															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
20IT703.1	3.00	3.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	3.00	2.00
20IT703.2	3.00	3.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	3.00	2.00
20IT703.3	3.00	3.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	3.00	2.00
20IT703.4	3.00	3.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	3.00	2.00
Avg	3.00	3.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	3.00	2.00


Course Coordinator


HOD, IT Dept.

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	IT
Year :	IV
Sem:	I
Course Name:	Distributed Systems
Course Code:	20IT702/PE
A.Y:	2023-24
Batch:	2020-24
Course Type:	Theory

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20IT702/PE.1	3	2	2	-	-	-	-	-	-	-	-	2	3	2	2	2.29
20IT702/PE.2	3	2	2	-	-	-	-	-	-	-	-	2	3	2	2	2.29
20IT702/PE.3	3	2	2	-	-	-	-	-	-	-	-	3	3	2	2	2.43
20IT702/PE.4	3	2	2	-	-	-	-	-	-	-	-	3	3	2	2	2.43
Avg	3.00	2.00	2.00	-	-	-	-	-	-	-	-	2.50	3.00	2.00	2.00	2.36

CO-WISE ATTAINMENT					
Particulars		20IT702/	20IT702/	20IT702/	20IT702/
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	89.43	52.85	95.93	57.72
	Internal Attainment	3	2	3	2
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	84.3	60.87	98.35	47.93
	External Attainment	3	3	3	1
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	2.76	3.00	1.64

PO, PSO ATTAINMENT															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
20IT702/PE.1	3.00	2.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	2.00	2.00
20IT702/PE.2	2.76	1.84	1.84	-	-	-	-	-	-	-	-	1.84	2.76	1.84	1.84
20IT702/PE.3	3.00	2.00	2.00	-	-	-	-	-	-	-	-	3.00	3.00	2.00	2.00
20IT702/PE.4	1.64	1.09	1.09	-	-	-	-	-	-	-	-	1.64	1.64	1.09	1.09
Avg	2.60	1.73	1.73	-	-	-	-	-	-	-	-	2.12	2.60	1.73	1.73

K. Sai Prasanth
 Course Coordinator

[Signature]
 HOD, IT Dept.

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	IT
Year :	III
Sem:	VI
Course Name:	DATA WAREHOUSING AND DATA MINING
Course Code:	20ITPE2A
A.Y:	2022-23
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	
20ITPE2A.1	3	3	3	3	3	-	-	-	-	-	-	3	3	3	3	3.00	
20ITPE2A.2	3	3	3	3	3	-	-	-	-	-	-	3	3	3	3	3.00	
20ITPE2A.3	3	3	3	3	3	-	-	-	-	-	-	3	3	3	3	3.00	
20ITPE2A.4	3	3	3	3	3	-	-	-	-	-	-	3	3	3	3	3.00	
Avg	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00	3.00	3.00	3.00	3.00	

CO-WISE ATTAINMENT					
Particulars		20ITPE2A.	20ITPE2A.	20ITPE2A.	20ITPE2A.
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	44.26	12.3	63.93	88.52
	Internal Attainment	1	0	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	85.44	57.28	85.44	86.41
	External Attainment	3	2	3	3
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		2.52	1.72	3.00	3.00

PO, PSO ATTAINMENT															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
20ITPE2A.1	2.52	2.52	2.52	2.52	2.52	-	-	-	-	-	-	2.52	2.52	2.52	2.52
20ITPE2A.2	1.72	1.72	1.72	1.72	1.72	-	-	-	-	-	-	1.72	1.72	1.72	1.72
20ITPE2A.3	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00	3.00	3.00	3.00
20ITPE2A.4	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00	3.00	3.00	3.00
Avg	2.56	2.56	2.56	2.56	2.56	-	-	-	-	-	-	2.56	2.56	2.56	2.56

Course Coordinator

HOD, IT Dept.

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	IT
Year :	III
Sem:	VI
Course Name:	MACHINE LEARNING
Course Code:	20IT602
A.Y:	2022-23
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20IT602.1	3	3	3	3	3	-	-	-	-	-	-	3	3	3	3	3.00
20IT602.2	3	3	3	3	3	-	-	-	-	-	-	3	3	3	3	3.00
20IT602.3	3	3	3	3	3	-	-	-	-	-	-	3	3	3	3	3.00
20IT602.4	3	3	3	3	3	-	-	-	-	-	-	3	3	3	3	3.00
Avg	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00	3.00	3.00	3.00	3.00

CO-WISE ATTAINMENT					
Particulars		20IT602.1	20IT602.2	20IT602.3	20IT602.4
INTERNAL (CIE)	Threshold Internal	60	60	60	60
	%students secured more than Threshold	67.92	66.98	60.38	65.09
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	82.08	67.62	67.62	91.51
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

PO, PSO ATTAINMENT															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
20IT602.1	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00	3.00	3.00	3.00
20IT602.2	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00	3.00	3.00	3.00
20IT602.3	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00	3.00	3.00	3.00
20IT602.4	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00	3.00	3.00	3.00
Avg	3.00	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00	3.00	3.00	3.00


Course Coordinator


HOD, IT Dept.

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)


Programme Specilization:	IT
Year :	III
Sem:	II
Course Name:	Cryptography and Network Security
Course Code:	20IT603
A.Y:	2022-23
Batch:	2020-24
Course Type:	Theory

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20IT603.1	3	3	3	3	-	-	-	-	-	-	-	3	3	3	3	3.00
20IT603.2	3	3	3	3	-	-	-	-	-	-	-	3	3	3	3	3.00
20IT603.3	3	3	3	3	-	-	-	-	-	-	-	3	3	3	3	3.00
20IT603.4	3	3	3	3	-	-	-	-	-	-	-	3	3	3	3	3.00
Avg	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	3	3	3	3	3.00
												3.00	3.00	3.00	3.00	3.00

CO-WISE ATTAINMENT					
Particulars		20IT603.1	20IT603.2	20IT603.3	20IT603.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	89.52	66.94	92.74	62.1
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	81.45	79.03	87.9	80.65
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	50	50	50	50
Direct Attainment (DA)		3	3	3	3
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
20IT603.1	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00	3.00	3.00	
20IT603.2	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00	3.00	3.00	
20IT603.3	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00	3.00	3.00	
20IT603.4	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00	3.00	3.00	
Avg	3.00	3.00	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00	3.00	3.00	
												3.00	3.00	3.00	3.00	


 Course Coordinator


 HOD, IT Dept.

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	IT
Year :	III
Sem:	V
Course Name:	Software Engineering
Course Code:	20IT501
A.Y:	2022-23
Batch:	2020-24
Course Type:	Theory

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20IT501.1	3	2	0	-	2	-	-	-	-	-	2	2	3	2	2	2.00
20IT501.2	3	2	2	-	2	-	-	-	-	-	2	2	3	2	2	2.22
20IT501.3	3	2	2	-	2	-	-	-	-	-	2	2	3	2	2	2.22
20IT501.4	3	2	2	-	2	-	-	-	-	-	2	2	3	2	2	2.22
Avg	3.00	2.00	1.50	-	2.00	-	-	-	-	-	2.00	2.00	3.00	2.00	2.00	2.17

CO-WISE ATTAINMENT					
Particulars		20IT501.1	20IT501.2	20IT501.3	20IT501.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	42.4	28.8	97.6	40.8
	Internal Attainment	1	0	3	1
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	88.97	83.82	83.82	83.09
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		2.52	2.28	3.00	2.52

PO, PSO ATTAINMENT															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
20IT501.1	2.52	1.68	-	-	1.68	-	-	-	-	-	1.68	1.68	2.52	1.68	1.68
20IT501.2	2.28	1.52	1.52	-	1.52	-	-	-	-	-	1.52	1.52	2.28	1.52	1.52
20IT501.3	3.00	2.00	2.00	-	2.00	-	-	-	-	-	2.00	2.00	3.00	2.00	2.00
20IT501.4	2.52	1.68	1.68	-	1.68	-	-	-	-	-	1.68	1.68	2.52	1.68	1.68
Avg	2.58	1.72	1.73	-	1.72	-	-	-	-	-	1.72	1.72	2.58	1.72	1.72


 Course Coordinator


 HOD, IT Dept.

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	Information Technology
Year :	III
Sem:	V
Course Name:	Computer Networks
Course Code:	20IT502
A.Y:	2022-23
Batch:	2020-24
Course Type:	Theory

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	
20IT502.1	3	3	2	-	-	-	-	-	-	-	-	2	3	2	2	2.43	
20IT502.2	3	3	2	-	-	-	-	-	-	-	-	2	3	2	2	2.43	
20IT502.3	3	3	2	-	-	-	-	-	-	-	-	2	3	2	2	2.43	
20IT502.4	3	3	2	-	-	-	-	-	-	-	-	2	3	2	2	2.43	
Avg	3.00	3.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	2.00	2.00	2.43	

CO-WISE ATTAINMENT					
Particulars		20IT502.1	20IT502.2	20IT502.3	20IT502.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	90.4	48.8	80.8	52
	Internal Attainment	3	1	3	2
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	95.93	85.37	95.12	78.86
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	50	50	50	50
	Indirect Grade	3.00	3.00	3.00	3.00
Overall Attainment		3.00	2.52	3.00	2.76

PO, PSO ATTAINMENT															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
20IT502.1	3.00	3.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	2.00	2.00
20IT502.2	2.52	2.52	1.68	-	-	-	-	-	-	-	-	1.68	2.52	1.68	1.68
20IT502.3	3.00	3.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	2.00	2.00
20IT502.4	2.76	2.76	1.84	-	-	-	-	-	-	-	-	1.84	2.76	1.84	1.84
Avg	2.82	2.82	1.88	-	-	-	-	-	-	-	-	1.88	2.82	1.88	1.88

S. THA
 Course Coordinator

NRP
 HOD, IT Dept.

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)


Programme Specialization:	IT
Year :	II
Sem:	II
Course Name:	CO
Course Code:	20IT305
A.Y:	2021-2022
Batch:	2020-2024
Course Type:	Theory

CO-PO, PSO MAPPING OF NMAC(20IT201), 2020-2021, SEM-II																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20IT305.CO1	3	2	0	-	-	-	-	-	-	-	-	2	3	2	2	2.00
20IT305.CO2	3	2	2	-	-	-	-	-	-	-	-	2	3	2	2	2.29
20IT305.CO3	3	2	2	-	-	-	-	-	-	-	-	2	3	2	2	2.29
20IT305.CO4	3	2	2	-	-	-	-	-	-	-	-	2	3	2	2	2.29
Avg	3.00	2.00	1.50	-	-	-	-	-	-	-	-	2.00	3.00	2.00	2.00	2.21

CO-WISE ATTAINMENT					
Particulars		20IT305. CO1	20IT305. CO2	20IT305. CO3	20IT305. CO4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	% students secured more than Threshold	95.15	89.32	94.17	94.17
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	90.2	90.2	90.2	90.2
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

PO, PSO ATTAINMENT OF NMAC(20IT201), 2020-2021, SEM-II															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
20IT305.CO1	3.00	2.00	-	-	-	-	-	-	-	-	-	2.00	3.00	2.00	2.00
20IT305.CO2	3.00	2.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	2.00	2.00
20IT305.CO3	3.00	2.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	2.00	2.00
20IT305.CO4	3.00	2.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	2.00	2.00
Avg	3.00	2.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	2.00	2.00


Course Coordinator


HOD, IT Dept.

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	IT
Year :	II
Sem:	II
Course Name:	DAA
Course Code:	2IT404
A.Y:	2021-22
Batch:	2020-24
Course Type:	Theory

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	
2IT404.1	3	3	3	3	0	2	0	0	0	0	0	2	3	3	3	1.67	
2IT404.2	3	3	3	3	0	2	0	0	0	0	0	2	3	3	3	1.67	
2IT404.3	3	3	3	3	0	2	0	0	0	0	0	2	3	3	3	1.67	
2IT404.4	3	3	3	3	0	2	0	0	0	0	0	2	3	3	3	1.67	
Avg	3.00	3.00	3.00	3.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	2.00	3.00	3.00	3.00	1.67	

CO-WISE ATTAINMENT					
Particulars		2IT404.1	2IT404.2	2IT404.3	2IT404.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	70.95	56.76	55.41	34.46
	Internal Attainment	3	2	2	0
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	90.91	91.82	94.55	86.36
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	2.76	2.76	2.28

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
2IT404.1	3.00	3.00	3.00	3.00	-	2.00	-	-	-	-	-	2.00	3.00	3.00	3.00	
2IT404.2	2.76	2.76	2.76	2.76	-	1.84	-	-	-	-	-	1.84	2.76	2.76	2.76	
2IT404.3	2.76	2.76	2.76	2.76	-	1.84	-	-	-	-	-	1.84	2.76	2.76	2.76	
2IT404.4	2.28	2.28	2.28	2.28	-	1.52	-	-	-	-	-	1.52	2.28	2.28	2.28	
Avg	2.70	2.70	2.70	2.70	-	1.80	-	-	-	-	-	1.80	2.70	2.70	2.70	


 Course Coordinator


 HoD, IT Dept.

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	IT
Year :	II
Sem:	III
Course Name:	Operating System
Course Code:	20IT304
A.Y:	2023-24
Batch:	2022-26
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20IT304	3	3	3	-	3	-	-	-	-	-	-	3	3	3	3	3.00
20IT304	3	3	3	-	3	-	-	-	-	-	-	3	3	3	3	3.00
20IT304	3	3	3	-	3	-	-	-	-	-	-	3	3	3	3	3.00
20IT304	3	3	3	-	3	-	-	-	-	-	-	3	3	3	3	3.00
Avg	3.00	3.00	3.00	-	3.00	-	-	-	-	-	-	3.00	3.00	3.00	3.00	3.00

CO-WISE ATTAINMENT					
Particulars		20IT304	20IT304	20IT304	20IT304
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	75.93	44.44	85.19	88.89
	Internal Attainment	3	1	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	72.79	50	38.97	33.09
	External Attainment	3	2	0	0
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	1.96	1.32	1.32

PO, PSO ATTAINMENT															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
20IT304	3.00	3.00	3.00	-	3.00	-	-	-	-	-	-	3.00	3.00	3.00	3.00
20IT304	1.96	1.96	1.96	-	1.96	-	-	-	-	-	-	1.96	1.96	1.96	1.96
20IT304	1.32	1.32	1.32	-	1.32	-	-	-	-	-	-	1.32	1.32	1.32	1.32
20IT304	1.32	1.32	1.32	-	1.32	-	-	-	-	-	-	1.32	1.32	1.32	1.32
Avg	1.90	1.90	1.90	-	1.90	-	-	-	-	-	-	1.90	1.90	1.90	1.90


Course Coordinator


HOD, IT Dept.

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	IT
Year :	II
Sem:	II
Course Name:	Web Technologies
Course Code:	20IT402
A.Y:	2021-22
Batch:	202-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20IT402.1	3	3	2	2	-	2	-	2	-	-	-	3	3	3	2	2.50
20IT402.2	3	3	3	2	3	2	-	2	-	-	-	3	3	3	2	2.64
20IT402.3	3	3	3	2	3	2	-	2	-	-	-	3	3	3	2	2.64
20IT402.4	3	3	3	2	3	2	-	2	-	-	-	3	3	3	2	2.64
Avg	3.00	3.00	2.75	2.00	3.00	2.00	-	2.00	-	-	-	3.00	3.00	3.00	2.00	2.60

CO-WISE ATTAINMENT					
Particulars		20IT402.1	20IT402.2	20IT402.3	20IT402.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	% students secured more than Threshold	68.52	66.67	91.67	80.56
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	96.3	96.3	96.3	96.3
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
20IT402.1	3.00	3.00	2.00	2.00	-	2.00	-	2.00	-	-	-	3.00	3.00	3.00	2.00	
20IT402.1	3.00	3.00	3.00	2.00	3.00	2.00	-	2.00	-	-	-	3.00	3.00	3.00	2.00	
20IT402.1	3.00	3.00	3.00	2.00	3.00	2.00	-	2.00	-	-	-	3.00	3.00	3.00	2.00	
20IT402.1	3.00	3.00	3.00	2.00	3.00	2.00	-	2.00	-	-	-	3.00	3.00	3.00	2.00	
Avg	3.00	3.00	2.75	2.00	3.00	2.00	-	2.00	-	-	-	3.00	3.00	3.00	2.00	

K. Suresh Kumar
Course Coordinator

(Signature)
HOD, IT Dept.

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)


Programme Specilization:	IT
Year :	I
Sem:	II
Course Name:	DISCRETE MATHEMATICS
Course Code:	20IT206
A.Y:	2020-21
Batch:	IT
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	
20IT206.1	3	3	3	-	-	-	-	-	-	-	-	2	3	3	2	2.71	
20IT206.2	3	3	3	-	-	-	-	-	-	-	-	2	3	3	2	2.71	
20IT206.3	3	3	3	-	-	-	-	-	-	-	-	2	3	3	2	2.71	
20IT206.4	3	3	3	-	-	-	-	-	-	-	-	2	3	3	2	2.71	
Avg	3.00	3.00	3.00	-	-	-	-	-	-	-	-	2.00	3.00	3.00	2.00	2.71	

CO-WISE ATTAINMENT					
Particulars		20IT206.1	20IT206.2	20IT206.3	20IT206.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	% students secured more than Threshold	88.29	87.39	46.85	41.44
	Internal Attainment	3	3	1	1
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	71.17	71.17	71.17	71.17
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	2.52	2.52

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
20IT206.1	3.00	3.00	3.00	-	-	-	-	-	-	-	-	2.00	3.00	3.00	2.00	
20IT206.1	3.00	3.00	3.00	-	-	-	-	-	-	-	-	2.00	3.00	3.00	2.00	
20IT206.1	2.52	2.52	2.52	-	-	-	-	-	-	-	-	1.68	2.52	2.52	2.00	
20IT206.1	2.52	2.52	2.52	-	-	-	-	-	-	-	-	1.68	2.52	2.52	2.00	
Avg	2.76	2.76	2.76	-	-	-	-	-	-	-	-	1.84	2.76	2.76	2.00	


Course Coordinator


HOD, IT Dept.

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	MECHANICAL
Year :	II
Sem:	III
Course Name:	PROFESSIONAL ETHICS AND HUMAN VALUES
Course Code:	20ME306/MC02
A.Y:	2023-24
Batch:	2022-2026
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	Target Value
20ME306/MC02.1	-	-	-	-	-	2	2	3	3	3	-	3	2	-	2	2.50	1.8
20ME306/MC02.2	-	-	-	3	-	-	2	3	3	-	-	3	-	-	-	2.80	1.8
20ME306/MC02.3	-	-	-	3	-	-	2	3	-	3	-	3	-	-	2	2.67	1.8
20ME306/MC02.4	-	-	-	-	-	-	2	3	3	3	-	3	-	-	-	2.80	1.8
Avg	-	-	-	3.00	-	2.00	2.00	3.00	3.00	3.00	-	3.00	2.00	-	2.00	2.69	1.8

CO-WISE ATTAINMENT					
Particulars		20ME306 /MC02.1	20ME306 /MC02.2	20ME306 /MC02.3	20ME306 /MC02.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	92.11	64.47	86.84	72.37
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	50	50	50	50
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	External Attainment	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

CO	Value	value	Remarks
CO1	1.8	3.00	ATTAINED
CO2	1.8	3.00	ATTAINED
CO3	1.8	3.00	ATTAINED
CO4	1.8	3.00	ATTAINED

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20ME306/MC02.1	-	-	-	-	-	2.00	2.00	3.00	3.00	3.00	-	3.00	2.00	-	2.00	2.50
20ME306/MC02.2	-	-	-	3.00	-	-	2.00	3.00	3.00	-	-	3.00	-	-	-	2.80
20ME306/MC02.3	-	-	-	3.00	-	-	2.00	3.00	-	3.00	-	3.00	-	-	2.00	2.67
20ME306/MC02.4	-	-	-	-	-	-	2.00	3.00	3.00	3.00	-	3.00	-	-	-	2.80
Avg	-	-	-	3.00	-	2.00	2.00	3.00	3.00	3.00	-	3.00	2.00	-	2.00	2.69

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	ME
Year :	III
Sem:	V
Course Name:	DESIGN OF MACHINE ELEMENTS
Course Code:	20ME502
A.Y:	2023-24
Batch:	2021-25
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	Target Value
20ME502.1	3	3	2	1	-	3	3	-	-	-	-	3	3		3	2.67	1.5
20ME502.2	3	3	3	1	-	3	3	-	-	-	-	3	3	3		2.78	1.5
20ME502.3	3	3	2	3	-	3	3	-	-	-	-	3	3			2.88	1.5
20ME502.4	3	3	2	3	-	3	3	-	-	-	-	3	3	2		2.78	1.5
Avg	3.00	3.00	2.25	2.00	-	3.00	3.00	-	-	-	-	3.00	3.00	2.50	3.00	2.77	1.5

CO-WISE ATTAINMENT					
Particulars		20ME502.1	20ME502.2	20ME502.3	20ME502.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	74.26	67.33	93.07	48.51
	Internal Attainment	3	3	3	1
	Next A.Y. Threshold	50	50	50	50
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	84	52	85	68
	External Attainment	3	2	3	3
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	2.44	3.00	2.52

CO	Value	value	Remarks
CO1	1.5	3.00	ATTAINED
CO2	1.5	2.44	ATTAINED
CO3	1.5	3.00	ATTAINED
CO4	1.5	2.52	ATTAINED

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20ME502.1	3.00	3.00	2.00	1.00	-	3.00	3.00	-	-	-	-	3.00	3.00	-	3.00	2.67
20ME502.2	2.44	2.44	2.44	0.81	-	2.44	2.44	-	-	-	-	2.44	2.44	2.44	-	2.26
20ME502.3	3.00	3.00	2.00	3.00	-	3.00	3.00	-	-	-	-	3.00	3.00	-	-	2.88
20ME502.4	2.52	2.52	1.68	2.52	-	2.52	2.52	-	-	-	-	2.52	2.52	1.68	-	2.33
Avg	2.74	2.74	2.03	1.83	-	2.74	2.74	-	-	-	-	2.74	2.74	2.06	3.00	2.54

Course Coordinator

HoD

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	ME
Year :	III
Sem:	V
Course Name:	MANUFACTURING TECHNOLOGY
Course Code:	20ME503
A.Y:	2023-24
Batch:	2021-25
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	Target Value
20ME503.1	2	1	1			2				1		3	1		2	1.63	1.5
20ME503.2	2	1	1			2				1		1	1		2	1.38	1.5
20ME503.3	2	1	1			2				1		1	1		2	1.38	1.5
20ME503.4	2	1	1			2				1		1	1		2	1.38	1.5
Avg	2.00	1.00	1.00	-	-	2.00	-	-	-	1.00	-	1.50	1.00	-	2.00	1.44	1.5

CO-WISE ATTAINMENT					
Particulars		20ME503.1	20ME503.2	20ME503.3	20ME503.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	64.36	47.52	84.16	49.5
	Internal Attainment	3	1	3	1
	Next A.Y. Threshold	50	50	50	50
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	48.51	26.26	64.65	29.29
	External Attainment	1	0	3	0
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		1.88	0.84	3.00	0.84

CO	Value	value	Remarks
CO1	1.5	1.88	ATTAINED
CO2	1.5	0.84	NOT ATTAINED
CO3	1.5	3.00	ATTAINED
CO4	1.5	0.84	NOT ATTAINED

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20ME503.1	1.25	0.63	0.63	-	-	1.25	-	-	-	0.63	-	1.88	0.63	-	1.25	1.02
20ME503.2	0.56	0.28	0.28	-	-	0.56	-	-	-	0.28	-	0.28	0.28	-	0.56	0.39
20ME503.3	2.00	1.00	1.00	-	-	2.00	-	-	-	1.00	-	1.00	1.00	-	2.00	1.38
20ME503.4	0.56	0.28	0.28	-	-	0.56	-	-	-	0.28	-	0.28	0.28	-	0.56	0.39
Avg	1.09	0.55	0.55	-	-	1.09	-	-	-	0.55	-	0.86	0.55	-	1.09	0.80

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	ME
Year :	III
Sem:	V
Course Name:	ICEGT
Course Code:	20ME504
A.Y:	2023-24
Batch:	2021-25
Course Type:	B.TECH

CO-PO, PSO MAPPING																	Target Value
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	
20ME504.1		1	2			3	3					3	3	2	2	2.38	1.5
20ME504.2	3	3	3			3	3					3	3	3	2	2.89	1.5
20ME504.3	3	3				3	3					3	3	3	2	2.88	1.5
20ME504.4	3	3	3			3	3					3	3	3	2	2.89	1.5
Avg	3.00	2.50	2.67	-	-	3.00	3.00	-	-	-	-	3.00	3.00	2.75	2.00	2.76	1.5

CO-WISE ATTAINMENT					
Particulars		20ME504.1	20ME504.2	20ME504.3	20ME504.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	91	68	85	74
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	50	50	50	50
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	87	38	92	94
	External Attainment	3	0	3	3
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	1.32	3.00	3.00

CO	Value	value	Remarks
CO1	1.5	3.00	ATTAINED
CO2	1.5	1.32	NOT ATTAINED
CO3	1.5	3.00	ATTAINED
CO4	1.5	3.00	ATTAINED

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20ME504.1	-	1.00	2.00	-	-	3.00	3.00	-	-	-	-	3.00	3.00	2.00	2.00	2.38
20ME504.2	1.32	1.32	1.32	-	-	1.32	1.32	-	-	-	-	1.32	1.32	1.32	0.88	1.27
20ME504.3	3.00	3.00	-	-	-	3.00	3.00	-	-	-	-	3.00	3.00	3.00	2.00	2.88
20ME504.4	3.00	3.00	3.00	-	-	3.00	3.00	-	-	-	-	3.00	3.00	3.00	2.00	2.89
Avg	2.44	2.08	2.11	-	-	2.58	2.58	-	-	-	-	2.58	2.58	2.33	1.72	2.36

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	ME
Year :	III
Sem:	V
Course Name:	DESIGN THINKING & PRODUCT INNOVATION
Course Code:	20ME505/MC05
A.Y:	2023-24
Batch:	2021-25
Course Type:	B.TECH

CO-PO, PSO MAPPING																		Target Value
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg		
20ME505/MC05.1	2	3	3	1	3		2	2	3	3		3	1	3	1	2.31	1.5	
20ME505/MC05.2	2	3	2	1	1	3		2		3		3	1	3	1	2.08	1.5	
20ME505/MC05.3	2	3	3	1	1		2	2	3	3		3	1	3	1	2.15	1.5	
20ME505/MC05.4	2	3	2	1	3	3	2	2		3		3	1	3	1	2.23	1.5	
Avg	2.00	3.00	2.50	1.00	2.00	3.00	2.00	2.00	3.00	3.00	-	3.00	1.00	3.00	1.00	2.19	1.5	

CO-WISE ATTAINMENT					
Particulars		20ME505/MC05.1	20ME505/MC05.2	20ME505/MC05.3	20ME505/MC05.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	90.1	94.06	76.24	62.38
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	50	50	50	50
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	0	0	-	-
	External Attainment	0	0	-	-
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

CO	Value	value	Remarks
CO1	1.5	3.00	ATTAINED
CO2	1.5	3.00	ATTAINED
CO3	1.5	3.00	ATTAINED
CO4	1.5	3.00	ATTAINED

PO, PSO ATTAINMENT																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	
20ME505/MC05.1	2.00	3.00	3.00	1.00	3.00	-	2.00	2.00	3.00	3.00	-	3.00	1.00	3.00	1.00	2.31	
20ME505/MC05.2	2.00	3.00	2.00	1.00	1.00	3.00	-	2.00	-	3.00	-	3.00	1.00	3.00	1.00	2.08	
20ME505/MC05.3	2.00	3.00	3.00	1.00	1.00	-	2.00	2.00	3.00	3.00	-	3.00	1.00	3.00	1.00	2.15	
20ME505/MC05.4	2.00	3.00	2.00	1.00	3.00	3.00	2.00	2.00	-	3.00	-	3.00	1.00	3.00	1.00	2.23	
Avg	2.00	3.00	2.50	1.00	2.00	3.00	2.00	2.00	3.00	3.00	-	3.00	1.00	3.00	1.00	2.19	

Course Coordinator

HoD

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	Mechanical Engineering
Year :	IV
Sem:	VII
Course Name:	Automobile Engineering
Course Code:	20ME702B/PE4
A.Y:	2023-24
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																	Target Value
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	Target Value
20ME702B/PE4	3	2	3			2	3	3		1		3	3	2	1	2.36	1.5
20ME702B/PE4	3	2	3			2	3	3		1		3	3	2	2	2.45	1.5
20ME702B/PE4	3	2	3			2	3	3		1		3	3	2	2	2.45	1.5
20ME702B/PE4	3	2	3			2	3	3		1		3	3	2	2	2.45	1.5
Avg	3.00	2.00	3.00	-	-	2.00	3.00	3.00	-	1.00	-	3.00	3.00	2.00	1.75	2.43	1.5

CO-WISE ATTAINMENT					
Particulars		20ME702 B/PE4.1	20ME702 B/PE4.2	20ME702 B/PE4.3	20ME702 B/PE4.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than	76.09	57.61	83.7	52.17
	Internal Attainment	3	2	3	2
	Next A.Y. Threshold	50	50	50	50
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than	94.32	86.36	32.95	20.45
	External Attainment	3	3	0	0
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	2.76	1.32	1.08

CO	Target Value	Attained value	Remarks
CO1	1.5	3.00	ATTAINED
CO2	1.5	2.76	ATTAINED
CO3	1.5	1.32	NOT ATTAINED
CO4	1.5	1.08	NOT ATTAINED

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20ME702B/PE4	3.00	2.00	3.00	-	-	2.00	3.00	3.00	-	1.00	-	3.00	3.00	2.00	1.00	2.36
20ME702B/PE4	2.76	1.84	2.76	-	-	1.84	2.76	2.76	-	0.92	-	2.76	2.76	1.84	1.84	2.26
20ME702B/PE4	1.32	0.88	1.32	-	-	0.88	1.32	1.32	-	0.44	-	1.32	1.32	0.88	0.88	1.08
20ME702B/PE4	1.08	0.72	1.08	-	-	0.72	1.08	1.08	-	0.36	-	1.08	1.08	0.72	0.72	0.88
Avg	2.04	1.36	2.04	-	-	1.36	2.04	2.04	-	0.68	-	2.04	2.04	1.36	1.11	1.65

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	Mechanical
Year :	IV
Sem:	VII
Course Name:	RENEWABLE ENERGY SOURCES
Course Code:	20ME705-OE
A.Y:	2023-24
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																	Target Value
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	Target Value
20ME705-OE.1	3	1		3	3		2			3	3	3	2	2	1	2.36	1.5
20ME705-OE.2	3	1		3	3		2			3	3	3	3	3	1	2.55	1.5
20ME705-OE.3	3	1		3	3		2			3	3	3	3	3	2	2.64	1.5
20ME705-OE.4	3	1		3	3		2			3	3	3	3	3	2	2.64	1.5
Avg	3.00	1.00	-	3.00	3.00	-	2.00	-	-	3.00	3.00	3.00	2.75	2.75	1.50	2.55	1.5

CO-WISE ATTAINMENT					
Particulars		20ME705-OE.1	20ME705-OE.2	20ME705-OE.3	20ME705-OE.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	98.32	97.48	94.12	84.03
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	50	50	50	50
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	99.16	99.16	99.16	97.48
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

CO	Value	value	Remarks
CO1	1.5	3.00	ATTAINED
CO2	1.5	3.00	ATTAINED
CO3	1.5	3.00	ATTAINED
CO4	1.5	3.00	ATTAINED

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20ME705-OE.1	3.00	1.00	-	3.00	3.00	-	2.00	-	-	3.00	3.00	3.00	2.00	2.00	1.00	2.36
20ME705-OE.2	3.00	1.00	-	3.00	3.00	-	2.00	-	-	3.00	3.00	3.00	3.00	3.00	1.00	2.55
20ME705-OE.3	3.00	1.00	-	3.00	3.00	-	2.00	-	-	3.00	3.00	3.00	3.00	3.00	2.00	2.64
20ME705-OE.4	3.00	1.00	-	3.00	3.00	-	2.00	-	-	3.00	3.00	3.00	3.00	3.00	2.00	2.64
Avg	3.00	1.00	-	3.00	3.00	-	2.00	-	-	3.00	3.00	3.00	2.75	2.75	1.50	2.55

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	MECHANICAL
Year :	IV
Sem:	VII
Course Name:	ENTREPRENEURSHIP DEVELOPMENT
Course Code:	20ME706B-HSE II
A.Y:	2023-24
Batch:	2020-24
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	Target Value
20ME706B-HSE II.1						3	3	3								3.00	1.5
20ME706B-HSE II.2						3	3	3			3	1				2.60	1.5
20ME706B-HSE II.3						3	3	3			3	1				2.60	1.5
20ME706B-HSE II.4						3	3	3			3	1				2.60	1.5
Avg	-	-	-	-	-	3.00	3.00	3.00	-	-	3.00	1.00	-	-	-	2.70	1.5

CO-WISE ATTAINMENT					
Particulars		20ME706B-HSE II.1	20ME706B-HSE II.2	20ME706B-HSE II.3	20ME706B-HSE II.4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	84.78	60.87	84.78	30.43
	Internal Attainment	3	3	3	0
	Next A.Y. Threshold	50	50	50	50
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	80.85	67.39	76.09	65.22
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	2.28

CO	Value	value	Remarks
CO1	1.5	3.00	ATTAINED
CO2	1.5	3.00	ATTAINED
CO3	1.5	3.00	ATTAINED
CO4	1.5	2.28	ATTAINED

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20ME706B-HSE I	-	-	-	-	-	3.00	3.00	3.00	-	-	-	-	-	-	-	3.00
20ME706B-HSE I	-	-	-	-	-	3.00	3.00	3.00	-	-	3.00	1.00	-	-	-	2.60
20ME706B-HSE I	-	-	-	-	-	3.00	3.00	3.00	-	-	3.00	1.00	-	-	-	2.60
20ME706B-HSE I	-	-	-	-	-	2.28	2.28	2.28	-	-	2.28	0.76	-	-	-	1.98
Avg	-	-	-	-	-	2.82	2.82	2.82	-	-	2.76	0.92	-	-	-	2.55

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	MECHANICAL
Year :	II
Sem:	V
Course Name:	DESIGN AND METROLOGY LAB
Course Code:	20MEL03
A.Y:	2023-24
Batch:	2021-25
Course Type:	B.TECH

CO-PO, PSO MAPPING																	Target Value
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	
20MEL03.1	3	3	2	1	1		2	2	3	3		3	3	3	1	2.31	2
20MEL03.2	3	3	2	1	1		2	2		3		3	3	3	1	2.25	2
20MEL03.3	3	3	2	1	1		2	2	3	3		3	3	3	1	2.31	2
20MEL03.4	3	3	2	1	1	3	2	2		3		3	3	3	1	2.31	2
Avg	3.00	3.00	2.00	1.00	1.00	3.00	2.00	2.00	3.00	3.00	-	3.00	3.00	3.00	1.00	2.29	2

CO-WISE ATTAINMENT					
Particulars		ZOMEL03.1	ZOMEL03.2	ZOMEL03.3	ZOMEL03.4
INTERNAL (CIE)	Threshold Internal	60	60	60	60
	% students secured more than Threshold	100	100	100	100
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	60	60	60	60
	%students secured more than Threshold	100	100	100	100
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

CO	Value	value	Remarks
CO1	2	3.00	ATTAINED
CO2	2	3.00	ATTAINED
CO3	2	3.00	ATTAINED
CO4	2	3.00	ATTAINED

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20MEL03.1	3.00	3.00	2.00	1.00	1.00	-	2.00	2.00	3.00	3.00	-	3.00	3.00	3.00	1.00	2.31
20MEL03.2	3.00	3.00	2.00	1.00	1.00	-	2.00	2.00	-	3.00	-	3.00	3.00	3.00	1.00	2.25
20MEL03.3	3.00	3.00	2.00	1.00	1.00	-	2.00	2.00	3.00	3.00	-	3.00	3.00	3.00	1.00	2.31
20MEL03.4	3.00	3.00	2.00	1.00	1.00	3.00	2.00	2.00	-	3.00	-	3.00	3.00	3.00	1.00	2.31
Avg	3.00	3.00	2.00	1.00	1.00	3.00	2.00	2.00	3.00	3.00	-	3.00	3.00	3.00	1.00	2.30

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	ME
Year :	III
Sem:	V
Course Name:	Internet of Things
Course Code:	20MEL504/SO3
A.Y:	2023-24
Batch:	2021-25
Course Type:	B.TECH

CO-PO, PSO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg	Target Value
20MEL504/SO3	2	3	3									3	3	3	3	2.86	2.1
20MEL504/SO3	2	3	3	3	3				3	3		3	3	3	3	2.91	2.1
20MEL504/SO3	2	3	3	3	3				3	3		3	3	3	3	2.91	2.1
20MEL504/SO3	2	3	3	3	3				3	3		3	3	3	3	2.91	2.1
Avg	2.00	3.00	3.00	3.00	3.00	-	-	-	3.00	3.00	-	3.00	3.00	3.00	3.00	2.90	2.1

CO-WISE ATTAINMENT					
Particulars		20MEL50 4/SO3.1	20MEL50 4/SO3.2	20MEL50 4/SO3.3	20MEL50 4/SO3.4
INTERNAL (CIE)	Threshold Internal	60	60	60	60
	% students secured more than Threshold	99	99	99	99
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	60	60	60	60
	%students secured more than Threshold	96.97	96.97	96.97	96.97
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

CO	Value	value	Remarks
CO1	2.1	3.00	ATTAINED
CO2	2.1	3.00	ATTAINED
CO3	2.1	3.00	ATTAINED
CO4	2.1	3.00	ATTAINED

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20MEL504/SO3	2.00	3.00	3.00	-	-	-	-	-	-	-	-	3.00	3.00	3.00	3.00	2.86
20MEL504/SO3	2.00	3.00	3.00	3.00	3.00	-	-	-	3.00	3.00	-	3.00	3.00	3.00	3.00	2.91
20MEL504/SO3	2.00	3.00	3.00	3.00	3.00	-	-	-	3.00	3.00	-	3.00	3.00	3.00	3.00	2.91
20MEL504/SO3	2.00	3.00	3.00	3.00	3.00	-	-	-	3.00	3.00	-	3.00	3.00	3.00	3.00	2.91
Avg	2.00	3.00	3.00	3.00	3.00	-	-	-	3.00	3.00	-	3.00	3.00	3.00	3.00	2.90

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	IT
Year :	I
Sem:	I
Course Name:	ENGG CHEMISTRY
Course Code:	20CY001
A.Y:	2022-23
Batch:	2022-26
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CY001.1	2	3	2	3		2	3					3				2.57
20CY001.2	2	3	2	3		2	3					3				2.57
20CY001.3	2	3	2	3		2	3					3				2.57
20CY001.4	2	3	3	3		2	3					3				2.71
Avg	2.00	3.00	2.25	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.61

CO-WISE ATTAINMENT					
Particulars		20CY001.	20CY001.	20CY001.	20CY001.
INTERNAL (CIE)	Threshold Internal	60	60	60	60
	%students secured more than Threshold	41.67	23.33	87.5	72.5
	Internal Attainment	1	0	3	3
	Next A.Y. Threshold	65	65	65	65
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	50	50.83	75	79.17
	External Attainment	2	2	3	3
	Next A.Y. Target Threshold	55	55	55	55
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		1.96	1.72	3.00	3.00

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CY001.1	1.31	1.96	1.31	1.96	-	1.31	1.96	-	-	-	-	1.96	-	-	-	1.68
20CY001.2	1.15	1.72	1.15	1.72	-	1.15	1.72	-	-	-	-	1.72	-	-	-	1.48
20CY001.3	2.00	3.00	2.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.57
20CY001.4	2.00	3.00	3.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.71
Avg	1.62	2.42	1.87	2.42	-	1.62	2.42	-	-	-	-	2.42	-	-	-	2.11

(Signature)

Course Coordinator

(Signature)
 Head of the Department
 Dept of Chemistry
 Bapatla Engineering College
 Bapatla

HoD

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	IT
Year :	I
Sem:	I
Course Name:	CHEMISTRY LAB
Course Code:	20ITL102/CYL01
A.Y:	2023-24
Batch:	2023-27
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	2															2.00
CO2	2	2	2	2		2						2				2.00
CO3	2	2	2	2		2						2				2.00
CO4	2	2	2	2								2				2.00
Avg	2.00	2.00	2.00	2.00	-	2.00	-	-	-	-	-	2.00	-	-	-	2.00

CO-WISE ATTAINMENT					
Particulars		CO1	CO2	CO3	CO4
INTERNAL (CIE)	Threshold Internal	60	60	60	60
	% students secured more than Threshold	100	100	100	100
	Internal Attainment	3	3	3	3
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	100	100	100	100
	External Attainment	3	3	3	3
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	2.00												-	-	-	2.00
CO2	2.00	2.00	2.00	2.00		2.00						2.00	-	-	-	2.00
CO3	2.00	2.00	2.00	2.00		2.00						2.00	-	-	-	2.00
CO4	2.00	2.00	2.00	2.00								2.00	-	-	-	2.00
Avg	2.00	2.00	2.00	2.00	-	2.00	-	-	-	-	-	2.00	-	-	-	2.00

(Signature)

Course Coordinator

(Signature)
 Head of the Department
 Dept of Chemistry
 Bapatla Engineering College
 Bapatla

HoD

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R18)

Programme Specilization:	ECE
Year :	I
Sem:	I
Course Name:	CHEMISTRY LAB
Course Code:	20CYL 01/20ECL101
A.Y:	2023-24
Batch:	2023-2027
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	2															2.00
CO2	2	2	2	2		2						2				2.00
CO3	2	2	2	2		2						2				2.00
CO4	2	2	2	2								2				2.00
Avg	2.00	2.00	2.00	2.00	-	2.00	-	-	-	-	-	2.00	-	-	-	2.00

CO-WISE ATTAINMENT					
Particulars		CO1	CO2	CO3	CO4
INTERNAL (CIE)	Threshold Internal	60	60	60	60
	% students secured more than Threshold	98.9	98.9	98.9	98.9
	Internal Attainment	3	3	3	3
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	100	100	100	100
	External Attainment	3	3	3	3
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	2.00												-	-	-	2.00
CO2	2.00	2.00	2.00	2.00		2.00						2.00	-	-	-	2.00
CO3	2.00	2.00	2.00	2.00		2.00						2.00	-	-	-	2.00
CO4	2.00	2.00	2.00	2.00								2.00	-	-	-	2.00
Avg	2.00	2.00	2.00	2.00	-	2.00	-	-	-	-	-	2.00	-	-	-	2.00

Cheneeda Reddy

Course Coordinator

Cheneeda Reddy
 Head of the Department
 Dept of Chemistry
 Bapatla Engineering College
 Bapatla

HoD

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	ECE
Year :	I
Sem:	I
Course Name:	ENGG CHEMISTRY
Course Code:	20EC103/20CY01
A.Y:	2023-24
Batch:	2023-27
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	2	3	2	3		2	3					3				2.57
CO2	2	3	2	3		2	3					3				2.57
CO3	2	3	2	3		2	3					3				2.57
CO4	2	3	3	3		2	3					3				2.71
Avg	2.00	3.00	2.25	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.61

CO-WISE ATTAINMENT					
Particulars		CO1	CO2	CO3	CO4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	55.25	33.15	93.92	77.9
	Internal Attainment	2	0	3	3
EXTERNAL (SEE)	Threshold External	40	40	40	
	%students secured more than Threshold	58.56	55.8	85.64	
	External Attainment	2	2	3	
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		2.20	1.72	3.00	1.32

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	1.47	2.20	1.47	2.20	-	1.47	2.20	-	-	-	-	2.20	-	-	-	1.89
CO2	1.15	1.72	1.15	1.72	-	1.15	1.72	-	-	-	-	1.72	-	-	-	1.48
CO3	2.00	3.00	2.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.57
CO4	0.88	1.32	1.32	1.32	-	0.88	1.32	-	-	-	-	1.32	-	-	-	1.19
Avg	1.38	2.06	1.49	2.06	-	1.38	2.06	-	-	-	-	2.06	-	-	-	1.78

[Signature]

Course Coordinator

[Signature]
Head of the Department
Dept of Chemistry
Bapatla Engineering College
Bapatla

HoD


BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R18)

Programme Specilization:	CSE
Year :	I
Sem:	I
Course Name:	CHEMISTRY LAB
Course Code:	20CSL102 /CYL01
A.Y:	2023-24
Batch:	2023-27
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL102 /CYLO	2														-	2.00
20CSL102 /CYLO	2	2	2	2		2						2			-	2.00
20CSL102 /CYLO	2	2	2	2		2						2			-	2.00
20CSL102 /CYLO	2	2	2	2								2			-	2.00
Avg	2.00	2.00	2.00	2.00	-	2.00	-	-	-	-	-	2.00	-	-	-	2.00

CO-WISE ATTAINMENT					
Particulars		20CSL102 /CYL01 1	20CSL10 2	20CSL10 2	20CSL10 2
INTERNAL (CIE)	Threshold Internal	70	70	70	70
	% students secured more than Threshold	98.97	98.97	98.97	98.97
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	60	60	60	60
	%students secured more than Threshold	98.97	98.97	98.97	98.97
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CSL102 /CYLO	2.00												-	-	-	2.00
20CSL102 /CYLO	2.00	2.00	2.00	2.00		2.00						2.00	-	-	-	2.00
20CSL102 /CYLO	2.00	2.00	2.00	2.00		2.00						2.00	-	-	-	2.00
20CSL102 /CYLO	2.00	2.00	2.00	2.00								2.00	-	-	-	2.00
Avg	2.00	2.00	2.00	2.00	-	2.00	-	-	-	-	-	2.00	-	-	-	2.00


 Head of the Department
 Dept of Chemistry
 Bapatla Engineering College
 Bapatla

Dr Ch Subramanyam
HOD



Dr K Prasada Rao
NBA Coordinator

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	CSE
Year :	I
Sem:	I
Course Name:	ENGG CHEMISTRY
Course Code:	20CS102/20CY01
A.Y:	2023-24
Batch:	2023-27
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CS102/20CY0	2	3	2	3		2	3					3				2.57
20CS102/20CY0	2	3	2	3		2	3					3				2.57
20CS102/20CY0	2	3	2	3		2	3					3				2.57
20CS102/20CY0	2	3	3	3		2	3					3				2.71
Avg	2.00	3.00	2.25	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.61

CO-WISE ATTAINMENT					
Particulars		CO1	CO2	CO3	CO4
INTERNAL (CIE)	Threshold Internal	60	60	60	60
	%students secured more than Threshold	69.28	47.59	96.39	83.13
	Internal Attainment	3	1	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	90.36	80.72	93.98	92.77
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	2.52	3.00	3.00

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	2.00	3.00	2.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.57
CO2	1.68	2.52	1.68	2.52	-	1.68	2.52	-	-	-	-	2.52	-	-	-	2.16
CO3	2.00	3.00	2.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.57
CO4	2.00	3.00	3.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.71
Avg	1.92	2.88	2.17	2.88	-	1.92	2.88	-	-	-	-	2.88	-	-	-	2.50


 Head of the Department
 Dept of Chemistry
 Bapatla Engineering College
 Bapatla

Dr Ch Subramanyam
HOD



Dr K Prasada Rao
NBA Coordinator

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R18)

Programme Specilization:	ECE
Year :	I
Sem:	I
Course Name:	CHEMISTRY LAB
Course Code:	20CYL 01/20ECL101
A.Y:	2023-24
Batch:	2023-2027
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	2															2.00
CO2	2	2	2	2		2						2				2.00
CO3	2	2	2	2		2						2				2.00
CO4	2	2	2	2								2				2.00
Avg	2.00	2.00	2.00	2.00	-	2.00	-	-	-	-	-	2.00	-	-	-	2.00

CO-WISE ATTAINMENT					
Particulars		CO1	CO2	CO3	CO4
INTERNAL (CIE)	Threshold Internal	60	60	60	60
	% students secured more than Threshold	98.9	98.9	98.9	98.9
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	100	100	100	100
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	2.00												-	-	-	2.00
CO2	2.00	2.00	2.00	2.00		2.00						2.00	-	-	-	2.00
CO3	2.00	2.00	2.00	2.00		2.00						2.00	-	-	-	2.00
CO4	2.00	2.00	2.00	2.00								2.00	-	-	-	2.00
Avg	2.00	2.00	2.00	2.00	-	2.00	-	-	-	-	-	2.00	-	-	-	2.00

Chereda Rao

Course Coordinator

Dr. Jayaram
 Head of the Department
 Dept: BDC Chemistry
 Bapatla Engineering College -
 Bapatla

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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	CYBER SECURITY
Year :	I
Sem:	II
Course Name:	ENGG CHEMISTRY
Course Code:	20CB202/CY01
A.Y:	2023-24
Batch:	2023-27
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CB202/CY01	2	3	2	3		2	3					3				2.57
20CB202/CY01	2	3	2	3		2	3					3				2.57
20CB202/CY01	2	3	2	3		2	3					3				2.57
20CB202/CY01	2	3	3	3		2	3					3				2.71
Avg	2.00	3.00	2.25	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.61

CO-WISE ATTAINMENT					
Particulars		CO1	CO2	CO3	CO4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	50.85	33.9	93.22	54.24
	Internal Attainment	2	0	3	2
	Next A.Y. Threshold	55	55	55	55
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	54.24	55.93	98.31	77.97
	External Attainment	2	2	3	3
	Next A.Y. Target Threshold	45	45	45	45
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		2.20	1.72	3.00	2.76

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	1.47	2.20	1.47	2.20	-	1.47	2.20	-	-	-	-	2.20	-	-	-	1.89
CO2	1.15	1.72	1.15	1.72	-	1.15	1.72	-	-	-	-	1.72	-	-	-	1.48
CO3	2.00	3.00	2.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.57
CO4	1.84	2.76	2.76	2.76	-	1.84	2.76	-	-	-	-	2.76	-	-	-	2.50
Avg	1.62	2.42	1.85	2.42	-	1.62	2.42	-	-	-	-	2.42	-	-	-	2.11

(Signature)

Course Coordinator

(Signature)
Head of the Department
Dept of Chemistry
Bapatla Engineering College
Bapatla

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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	ACM
Year :	I
Sem:	II
Course Name:	ENGG CHEMISTRY
Course Code:	20CM202/CY01
A.Y:	2023-24
Batch:	2023-27
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	2	3	2	3		2	3					3				2.57
CO2	2	3	2	3		2	3					3				2.57
CO3	2	3	2	3		2	3					3				2.57
CO4	2	3	3	3		2	3					3				2.71
Avg	2.00	3.00	2.25	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.61

CO-WISE ATTAINMENT					
Particulars		CO1	CO2	CO3	CO4
INTERNAL (CIE)	Threshold Internal	60	60	60	60
	%students secured more than Threshold	58.89	46.67	83.33	76.67
	Internal Attainment	2	1	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	50	50	50	50
	%students secured more than Threshold	82.22	73.33	96.67	86.67
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	60	60	60	60
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		2.76	2.52	3.00	3.00

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	1.84	2.76	1.84	2.76	-	1.84	2.76	-	-	-	-	2.76	-	-	-	2.37
CO2	1.68	2.52	1.68	2.52	-	1.68	2.52	-	-	-	-	2.52	-	-	-	2.16
CO3	2.00	3.00	2.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.57
CO4	2.00	3.00	3.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.71
Avg	1.88	2.82	2.13	2.82	-	1.88	2.82	-	-	-	-	2.82	-	-	-	2.45

Meredith

Course Coordinator

J. Jay
 Head of the Department
 Dept of Chemistry
 Bapatla Engineering College
 Bapatla

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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	DS
Year :	I
Sem:	II
Course Name:	ENGG CHEMISTRY
Course Code:	20DS102/CY01
A.Y:	2023-24
Batch:	2023-27
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20DS102/CY01	2	3	2	3		2	3					3	2			2.50
20DS102/CY01	2	3	2	3		2	3					3		2		2.50
20DS102/CY01	2	3	2	3		2	3					3		3		2.63
20DS102/CY01	2	3	3	3		2	3					3		2		2.63
Avg	2.00	3.00	2.25	3.00	-	2.00	3.00	-	-	-	-	3.00	2.00	2.33	-	2.56

CO-WISE ATTAINMENT					
Particulars		CO1	CO2	CO3	CO4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	79.46	60.71	90.18	81.25
	Internal Attainment	3	3	3	3
	Next A.Y. Threshold	55	55	55	55
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	61.61	69.64	94.64	87.5
	External Attainment	3	3	3	3
	Next A.Y. Target Threshold	45	45	45	45
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		3.00	3.00	3.00	3.00

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	2.00	3.00	2.00	3.00	-	2.00	3.00	-	-	-	-	3.00	2.00	-	-	2.50
CO2	2.00	3.00	2.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	2.00	-	2.50
CO3	2.00	3.00	2.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	3.00	-	2.63
CO4	2.00	3.00	3.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	2.00	-	2.63
Avg	2.00	3.00	2.25	3.00	-	2.00	3.00	-	-	-	-	3.00	2.00	2.33	-	2.57

Chereda Rao

Course Coordinator

Chereda Rao
 Head of the Department
 Dept of Chemistry
 Bapatla Engineering College
 Bapatla

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BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	EEE
Year :	I
Sem:	II
Course Name:	ENGG CHEMISTRY
Course Code:	20CY01
A.Y:	2023-24
Batch:	2023-27
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	2	3	2	3		2	3					3	3			2.63
CO2	2	3	2	3		2	3					3	3			2.63
CO3	2	3	2	3		2	3					3	3			2.63
CO4	2	3	3	3		2	3					3				2.71
Avg	2.00	3.00	2.25	3.00	-	2.00	3.00	-	-	-	-	3.00	3.00	-	-	2.65

CO-WISE ATTAINMENT					
Particulars		CO1	CO2	CO3	CO4
INTERNAL (CIE)	Threshold Internal	55	55	55	55
	%students secured more than Threshold	11.11	6.35	60.32	30.16
	Internal Attainment	0	0	3	0
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	45	45	45	45
	%students secured more than Threshold	20.63	39.68	65.08	20.63
	External Attainment	0	0	3	0
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		0.60	0.60	3.00	0.60

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	0.40	0.60	0.40	0.60	-	0.40	0.60	-	-	-	-	0.60	0.60	-	-	0.53
CO2	0.40	0.60	0.40	0.60	-	0.40	0.60	-	-	-	-	0.60	0.60	-	-	0.53
CO3	2.00	3.00	2.00	3.00	-	2.00	3.00	-	-	-	-	3.00	3.00	-	-	2.63
CO4	0.40	0.60	0.60	0.60	-	0.40	0.60	-	-	-	-	0.60	-	-	-	0.54
Avg	0.80	1.20	0.85	1.20	-	0.80	1.20	-	-	-	-	1.20	1.40	-	-	1.06


 Head of the Department
 Dept of Chemistry
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Dr K Prasada Rao
CO Attainment Coordinator

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	MEC
Year :	I
Sem:	II
Course Name:	ENGG CHEMISTRY
Course Code:	20ME202/20CY01
A.Y:	2023-24
Batch:	2023-27
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20ME202/20CY0	2	3	2	3		2	3					3				2.57
20ME202/20CY0	2	3	2	3		2	3					3				2.57
20ME202/20CY0	2	3	2	3		2	3					3				2.57
20ME202/20CY0	2	3	3	3		2	3					3				2.71
Avg	2.00	3.00	2.25	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.61

CO-WISE ATTAINMENT					
Particulars		CO1	CO2	CO3	CO4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	5.56	16.67	94.44	38.89
	Internal Attainment	0	0	3	0
	Next A.Y. Threshold	50	50	50	50
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	16.67	33.33	94.44	66.67
	External Attainment	0	0	3	3
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		0.60	0.60	3.00	2.28

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	0.40	0.60	0.40	0.60	-	0.40	0.60	-	-	-	-	0.60	-	-	-	0.51
CO2	0.40	0.60	0.40	0.60	-	0.40	0.60	-	-	-	-	0.60	-	-	-	0.51
CO3	2.00	3.00	2.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.57
CO4	1.52	2.28	2.28	2.28	-	1.52	2.28	-	-	-	-	2.28	-	-	-	2.06
Avg	1.08	1.62	1.27	1.62	-	1.08	1.62	-	-	-	-	1.62	-	-	-	1.41


 Head of the Department
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Dr Ch Subramanyam
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Dr K Prasada Rao
NBA Coordinator

BAPATLA ENGINEERING COLLEGE, BAPATLA
Coursewise PO, PSO Attainment Sheet (B.Tech-R20)

Programme Specilization:	CIVIL
Year :	I
Sem:	II
Course Name:	ENGG CHEMISTRY
Course Code:	20CE102/20CY01
A.Y:	2023-24
Batch:	2023-27
Course Type:	B.TECH

CO-PO, PSO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
20CE102/20CY0	2	3	2	3		2	3					3				2.57
20CE102/20CY0	2	3	2	3		2	3					3				2.57
20CE102/20CY0	2	3	2	3		2	3					3				2.57
20CE102/20CY0	2	3	3	3		2	3					3				2.71
Avg	2.00	3.00	2.25	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.61

CO-WISE ATTAINMENT					
Particulars		CO1	CO2	CO3	CO4
INTERNAL (CIE)	Threshold Internal	50	50	50	50
	%students secured more than Threshold	6.45	22.58	80.65	61.29
	Internal Attainment	0	0	3	3
	Next A.Y. Threshold	60	60	60	60
EXTERNAL (SEE)	Threshold External	40	40	40	40
	%students secured more than Threshold	25.81	32.26	83.87	70.97
	External Attainment	0	0	3	3
	Next A.Y. Target Threshold	50	50	50	50
Indirect Grade		3.00	3.00	3.00	3.00
Overall Attainment		0.60	0.60	3.00	3.00

PO, PSO ATTAINMENT																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	CO-Avg
CO1	0.40	0.60	0.40	0.60	-	0.40	0.60	-	-	-	-	0.60	-	-	-	0.51
CO2	0.40	0.60	0.40	0.60	-	0.40	0.60	-	-	-	-	0.60	-	-	-	0.51
CO3	2.00	3.00	2.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.57
CO4	2.00	3.00	3.00	3.00	-	2.00	3.00	-	-	-	-	3.00	-	-	-	2.71
Avg	1.20	1.80	1.45	1.80	-	1.20	1.80	-	-	-	-	1.80	-	-	-	1.58


 Head of the Department
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 Bapatla

Dr Ch Subramanyam
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Dr K Prasada Rao
NBA Coordinator