

COs, POs and PSOs mapping examples

22TP103 - PROGRAMMING IN C

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3													2	
CO 2	3													2	
CO 3	3	3												2	
CO 4			3											2	
CO 5			3	3										2	
Avg															

22EC102 NETWORK THEORY

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3	3	2	2				1	1		2	2	2	3
CO 2	3	3	3	2	2				1	1		2	2	2	3
CO 3	3	3	3	2	2				1	1		2	2	2	3
CO 4	3	3	3	2	2				1	1		2	2	2	3
Avg	3	3	3	2	2				1	1		2	2	2	3

22EC205 - SIGNALS AND SYSTEMS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3	1	1			1			1		1	3		2
CO 2	3	3	2	3	2		1			1		1	2		1
CO 3	3	3	3	3	2		1			1		2	1		2
CO 4	3	3	2	2	2		1			1		2	1		1
CO 5	3	3	3	3	2		1			1		1	2		1
Avg	3	3	2.2	2.4	1.6		1			1		1.4	1.8		1.4

22EC203 – DIGITAL ELECTRONICS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	2		3	2				3	3		3			3
CO 2	3	3			3				3	3					3
CO 3	3	3	3		3				3	3					3
CO 4	3	3			3				3	3		3			3
Avg	3	2.75	3	3	2.75				3	3		3			3

22MS201 - MANAGEMENT SCIENCE

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3		3		3									
CO 2	3	3			3										
CO 3	2	2	3		3										
CO 4	3	3		3	2	3									
CO 5	3	3	2	3	3	2									
Avg	2.8	2.8	2.5	3.00	2.75	2.67									

22EC206 - COMMUNICATION SYSTEMS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3							2				3		
CO 2	3	3	2	2	3				2	2	2		3		
CO 3	3	3	2	2	2				2	2	2		3		
CO 4	3	3	2	2	2				2	2	2		3		
Avg	3	3	2	2	2.3				2	2	2		3		

22EC208 - CONTROL SYSTEMS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	2							3		3		3	3	
CO 2	2	3							3		3		3	3	
CO 3	2	3							3		3		3	3	
CO 4	2	3							3		3		3	3	
Avg	3	3	3	3	3				3		3		3	3	

22EC207 - COMPUTER ARCHITECTURE AND ORGANIZATION

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00										3.00		3.00	
CO 2	3.00	3.00			3.00							3.00		3.00	
CO 3	3.00	3.00	3.00		3.00							3.00		3.00	
CO 4	3.00	3.00										3.00		3.00	
CO 5	3.00	3.00												3.00	
Avg	3.00	3.00	3.00		3.00							3.00		3.00	

22TP301 - SOFT SKILLS LABORATORY

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1												3			
CO 2									3						
CO 3										3					
CO 4								3							
CO 5								3							
Avg															

22EC305 – ELECTROMAGNETIC WAVES AND TRANSMISSION LINES

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3		3	2				2	2		3	3		
CO 2	3	3		3	2				2	2		3	3		
CO 3	3	3		2	2				2	3		3	3		
CO 4	3	3	2	3	2				2	3		3	3		
Avg	3	3	2	2.75	2				2	2.5		3	3		

22EC301 – MICROCONTROLLERS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3		3	3				3	3		2		2	
CO 2	3	3			3				3	3				2	
CO 3	3	3			3				3	3				2	
CO 4	3	3	3	3	3				3	3		2		2	
CO 5	3	3	3	3	3				3	3		2		3	
Avg															

22EC303 - VLSI DESIGN

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3		3	3				3	3		3			3
CO 2	3	3			3				3	3					3
CO 3	3	3	3		3				3	3					3
CO 4	3	3			3				3	3		3			3
Avg	3	3	3	3	3				3	3		3			3

22EC308 – DIGITAL SIGNAL PROCESSING

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00			3.00				3.00	3.00			3.00		
CO 3	3.00	3.00	3.00		3.00				3.00	3.00			3.00		
CO 4	3.00	3.00			3.00				3.00	3.00		3.00	3.00		
CO 5	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		

22EC309 – ANTENNA THEORY: ANALYSIS AND DESIGN

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 3	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 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		

22EC401 - DATA COMMUNICATIONS AND COMPUTER NETWORKS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00	3.00	
CO 2	3.00	3.00			3.00				3.00	3.00			3.00	3.00	
CO 3	3.00	3.00	3.00		3.00				3.00	3.00			3.00	3.00	
CO 4	3.00	3.00			3.00				3.00	3.00		3.00	3.00	3.00	
CO 5	3.00	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	3.00	

22EC402- MICROWAVE ENGINEERING

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	2.00				2.00	3.00		2.00	3.00		
CO 2	3.00	3.00		3.00	2.00				3.00	2.00		2.00	3.00		
CO 3	3.00	3.00		3.00	2.00				2.00	3.00		2.00	3.00		
CO 4	3.00	3.00		3.00	2.00				3.00	3.00		2.00	3.00		
Avg	3.00	3.00		3.00	2.00				2.50	2.75		2.00	3.00		

22EC835 – FPGA BASED SYSTEM DESIGN

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00										3.00			3.00
CO 2	3.00	3.00		3.00	3.00							3.00			3.00
CO 3	3.00	3.00	3.00		3.00							3.00			3.00
CO 4	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

22EC841 – VERIFICATION USING SYSTEM VERILOG Hours per week:

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00			3.00
CO 2	3.00	3.00		3.00	3.00				3.00	3.00		3.00			3.00
CO 3	3.00	3.00	3.00		3.00				3.00	3.00					3.00
CO 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

22EC840 – TESTING OF VLSI CIRCUITS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3		2	3				2	2		2	3		3
CO 2	3	3		2	3				2	2		2	3		3
CO 3	3	3		3	3				2	2		2	3		3
CO 4	3	3		3	3				2	2		2	3		3
Avg	3	3		2.5	3				2	2		2	3		3

22EC839– SYSTEM ON CHIP DESIGN

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00			3.00
CO 2	3.00	3.00			3.00				3.00	3.00					3.00
CO 3	3.00	3.00	3.00		3.00				3.00	3.00					3.00
CO 4	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

22EC838 – PYTHON FOR SOFTWARE/HARDWARE CO-DESIGN

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00										3.00		3.00	
CO 2	3.00	3.00		3.00	3.00							3.00		3.00	
CO 3	3.00	3.00	3.00		3.00							3.00		3.00	
CO 4	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	

22EC836 – HARDWARE VERIFICATION TECHNIQUES

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00		3.00	
CO 2	3.00	3.00			3.00				3.00	3.00				3.00	
CO 3	3.00	3.00	3.00		3.00				3.00	3.00				3.00	
CO 4	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	

22EC837 – PERL AND TCL PROGRAMMING

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00										3.00			
CO 2	3.00	3.00			3.00							3.00			
CO 3	3.00	3.00	3.00		3.00							3.00			
CO 4	3.00	3.00										3.00			
Avg	3.00	3.00	3.00		3.00							3.00			

22EC834- C-BASED VLSI DESIGN

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00										3.00		3.00	
CO 2	3.00	3.00			3.00							3.00		3.00	
CO 3	3.00	3.00	3.00		3.00							3.00		3.00	
CO 4	3.00	3.00										3.00		3.00	
Avg	3.00	3.00	3.00		3.00							3.00		3.00	

22EC820-MULTI-CORE ARCHITECTURES AND PROGRAMMING

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00					3.00	3.00	3.00	3.00		3.00	
CO 2	3.00	3.00	3.00	3.00					3.00	3.00	3.00	3.00		3.00	
CO 3	3.00	3.00	3.00	3.00					3.00	3.00	3.00	3.00		3.00	
CO 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	

22EC815-ANDROID OS AND APPLICATION DEVELOPMENT

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00					3.00	3.00	3.00	3.00		3.00	
CO 2	3.00	3.00	3.00	3.00					3.00	3.00	3.00	3.00		3.00	
CO 3	3.00	3.00	3.00	3.00					3.00	3.00	3.00	3.00		3.00	
CO 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	

22EC802-DIGITAL IMAGE PROCESSING

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00			3.00				3.00	3.00			3.00		
CO 3	3.00	3.00			3.00				3.00	3.00			3.00		
CO 4	3.00	3.00	3.00	3.00	3.00				3.00	3.0		3.00	3.00		
Avg	3.00	3.00	3.00	3.00	3.00				3.00	3.0		3.00	3.00		

22EC806 -PROGRAMMING WITH PYTHON

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00		3.00	
CO 2	3.00	3.00	3.00	3.00	3.00				3.00	3.00		3.00		3.00	
CO 3	3.00	3.00	3.00	3.00	3.00				3.00	3.00		3.00		3.00	
CO 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	

22EC807 – STATISTICAL ANALYSIS & DATA ANALYTICS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00	3.00	3.00	3.00				3.00	3.00		3.00	3.00		
CO 3	3.00	3.00	3.00	3.00	3.00				3.00	3.00		3.00	3.00		
CO 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		

22EC805 - MACHINE LEARNING AND DATA SCIENCE

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00		3.00	
CO 2	3.00	3.00			3.00				3.00	3.00		3.00		3.00	
CO 3	3.00	3.00	3.00	3.00	3.00				3.00	3.00		3.00		3.00	
CO 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	

22EC801-DEEP LEARNING AND ANN

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00		3.00	
CO 2	3.00	3.00			3.00				3.00	3.00		3.00		3.00	
CO 3	3.00	3.00	3.00	3.00	3.00				3.00	3.00		3.00		3.00	
CO 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	

22EC804-INTRODUCTION TO ARTIFICIAL INTELLIGENCE

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00			3.00				3.00	3.00		3.00	3.00		
CO 3	3.00	3.00			3.00				3.00	3.00			3.00		
CO 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		

22EC808-TIME SERIES DATA ANALYSIS USING PYTHON

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00		3.00	
CO 2	3.00	3.00			3.00				3.00	3.00		3.00		3.00	
CO 3	3.00	3.00			3.00				3.00	3.00				3.00	
CO 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	

22EC803-HUMAN MACHINE INTERACTION

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00		3.00	
CO 2	3.00	3.00			3.00				3.00	3.00		3.00		3.00	
CO 3	3.00	3.00			3.00				3.00	3.00		3.00		3.00	
CO 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	

22EC813 - OPTICAL FIBER COMMUNICATIONS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00										3.00	3.00		
CO 2	3.00	3.00			3.00							3.00	3.00		
CO 3	3.00	3.00	3.00		3.00							3.00	3.00		
CO 4	3.00	3.00										3.00	3.00		
CO 5	3.00	3.00											3.00		
Avg	3.00	3.00	3.00		3.00							3.00	3.00		

22EC810-CELLULAR AND MOBILE COMMUNICATIONS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00			3.00				3.00	3.00			3.00		
CO 3	3.00	3.00	3.00		3.00				3.00	3.00			3.00		
CO 4	3.00	3.00			3.00				3.00	3.00		3.00	3.00		
CO 5	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		

22EC814-SATELLITE COMMUNICATIONS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00			3.00				3.00	3.00			3.00		
CO 3	3.00	3.00	3.00		3.00				3.00	3.00			3.00		
CO 4	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		

22EC809 – ADVANCED DIGITAL SIGNAL PROCESSING

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00			3.00				3.00	3.00			3.00		
CO 3	3.00	3.00			3.00				3.00	3.00			3.00		
CO 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		

22EC812 – MULTIRATE DIGITAL SIGNAL PROCESSING

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00			3.00				3.00	3.00			3.00		
CO 3	3.00	3.00			3.00				3.00	3.00			3.00		
CO 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		

22EC811-FUNDAMENTALS OF RADAR SIGNAL PROCESSING

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00			3.00				3.00	3.00			3.00		
CO 3	3.00	3.00	3.00		3.00				3.00	3.00			3.00		
CO 4	3.00	3.00			3.00				3.00	3.00		3.00	3.00		
CO 5	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		

22EC824– ADVANCED ANTENNA ARRAYS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 3	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 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		

22EC831 – RF PASSIVE CIRCUITS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00	3.00		3.00				3.00	3.00			3.00		
CO 3	3.00	3.00	3.00		3.00				3.00	3.00			3.00		
CO 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		

22EC830 – RF DEVICES AND ACTIVE CIRCUITS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		3.00
CO 2	3.00	3.00	3.00		3.00				3.00	3.00			3.00		3.00
CO 3	3.00	3.00	3.00		3.00				3.00	3.00			3.00		3.00
CO 4	3.00	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		3.00

22EC828 – MIMO ANTENNAS FOR WIRELESS COMMUNICATION-THEORY AND DESIGN

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 3	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 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		

22EC827 – MICROWAVE MEASUREMENTS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00			3.00				3.00	3.00			3.00		
CO 3	3.00	3.00	3.00		3.00				3.00	3.00			3.00		
CO 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		

22EC833 – SMART ANTENNA

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 3	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 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		

22EC829 – RADAR SYSTEM DESIGN

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 3	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 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		

22EC826 – COMPUTATIONAL ELECTROMAGNETICS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 3	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 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		

22EC825 –ADVANCED ANTENNAS FOR MODERN WIRELESS COMMUNICATION

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 3	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 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		

22EC832 – RFIC AND MICROWAVE MEMS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00	3.00				3.00	3.00		3.00	3.00		
CO 2	3.00	3.00			3.00				3.00	3.00			3.00		
CO 3	3.00	3.00	3.00		3.00				3.00	3.00			3.00		
CO 4	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		

22EC903 -INTRODUCTION TO INTERNET OF THINGS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3			3							3		3	
CO 2	3	3			3							3		3	
CO 3	3	3	3		3							3		3	
CO 4	3	3										3			3
CO 5	3	3												3	
Avg	3	3	3		3							3		3	3

22EC907-SENSORS AND ACTUATORS FOR IoT

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00										3.00	3.00		
CO 2	3.00	3.00			3.00							3.00	3.00		
CO 3	3.00	3.00	3.00		3.00							3.00	3.00		
CO 4	3.00	3.00										3.00	3.00		
CO 5	3.00	3.00													
Avg	3.00	3.00	3.00		3.00							3.00	3.00		

22EC901-ADHOC SENSOR NETWORKS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3.00	3.00		3.00					3.00	3.00	3.00	3.00	3.00		
CO 2	3.00	3.00	3.00	3.00					3.00	3.00	3.00	3.00	3.00		
CO 3	3.00	3.00	3.00	3.00					3.00	3.00	3.00	3.00	3.00		
CO 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		

22EC904-INTRODUCTION TO IoT ARCHITECTURE

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3										2		3	
CO 2	3	3			3							2		2	
CO 3	3	3	3		3							2		2	
CO 4	3	3										2		2	
CO 5	3	3												2	
Avg	3.00	3.00	3.00		3.00							2.00		2.20	

22EC975 ANALOG IC DESIGN

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3	2	1	2		1			1		1	3		2
CO 2	3	3	2	3	2		1			1		1	2		2
CO 3	3	3	3	3	2		1			1		2	1		2
CO 4	3	3	2	2	2		1			1		2	1		1
CO 5	3	3	2	3	2		1			1		1	2		1
Avg	3	3	2.2	2.4	2		1			1		1.4	1.8		1.6

22EC858 Microprocessors & Microcontrollers

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3			3							3	3		
CO 2	3	3			2							3	3	2	
CO 3	3	3	3			2			2			3	2	2	3
CO 4	3	3			2							3	2		
CO 5	3	3	3			2			2			3			3
Avg	3	3	3		2.33	2			2			3	2.5	2	3

22EC964 EMBEDDED SYSTEMS

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3	2	2					3	2	2	2		3	
CO 2	3	3	2	3					2	3	2	2		3	
CO 3	3	3	3	3					3	2	2	2		2	
CO 4	3	3	3	2					2	2	2	2		2	
Avg	3	3	2.5	2.5					2.5	2.25	2	2		2.5	

22EC976 ASIC DESIGN

Course Outcomes with Program Outcomes and Program Specific Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 1	3	3										3			3
CO 2	3	3		3	3							3			3
CO 3	3	3	3		3							3			3
CO 4	3	3	3									3			3
Avg	3	3	3	3	3							3			3

