

Bonam Venkata Chalamayya Institute of Technology & Science

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NAAC with 'A' Grade)

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Department of Electrical & Electronics Engineering

Records of CO-PO/PSO mapping of all courses as well as courses-PO/PSO mapping

Note: Enter correlation levels 1, 2 or 3 as defined below: 1: Slight (Low)

2: Moderate (Medium)

3: Substantial (High); If there is no correlation, put “-”

All courses CO-PO mapping:

Table: CO-PO/ PSOs Mapping of all Courses 2019-2023 Batch

PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1 1	PO12	PSO1	PSO2
ENGLISH- (C111)														
C111.1										2		2		
C111.2										2		2		
C111.3					2					2		2		
C111.4							2			2		2		
C111.5						2			2	2		2		
C111					2.00	2.00	2.00		2.00	2.00		2.00		
MATHEMATICS-I (C112)														
C112.1	3	2												
C112.2	2	2												
C112.3	2	2												
C112.4	1	3												
C112.5	2		2											
C112	2	2.25	2											
APPLIED CHEMISTRY (C113)														
C113.1	2	1												
C113.2	2	2												
C113.3	2	1												
C113.4	2	2												
C113.5	2	2												
C113	2	1.6												
PROGRAMMING FOR PROBLEM SOLVING USING C (C114)														
C114.1	3	2												
C114.2		3	2											
C114.3		3	3											
C114.4		3	3									1		
C114.5		3	3											
C114	3	2.8	2.75									1		
ENGINEERING DRAWING (C115)														
C115.1	2	2	1	-	1	-	-	1	1	2	-	1	2	2
C115.2	2	2	2	-	1	-	-	2	1	2	-	1	2	3
C115.3	2	2	2	-	1	-	-	2	1	2	-	1	2	2
C115.4	2	2	2	-	1	-	-	2	1	2	-	1	2	2
C115.5	2	2	2	-	1	-	-	2	1	2	-	1	3	3
C115	2	2	1.83		1			1.83	1	2.17		1	2.33	2.5

ENGLISH LAB (C116)													
C116.1										1	2		3
C116.2										1	2		3
C116.3										1	2		3
C116.4										1	2		3
C116.5										1	2		3
C116										1	2		3
APPLIED CHEMISTRY LABORATORY(C117)													
C117.1	3	2											
C117.2	3												
C117.3	2												
C117.4	3	3			3								
C117.5	2	3			3								
C117	2.6	2.67			3								
PROGRAMMING FOR PROBLEM SOLVING USING C LAB (C118)													
C118.1	3	2											
C118.2		3	2										
C118.3		3	3										
C118.4		3	3									1	
C118.5		3	3										
C118	3	2.8	2.75									1	
ENVIRONMENTAL SCIENCE (C119)													
C119.1	2						3						
C119.2	1	2				2	2						
C119.3		2					2						
C119.4		2	2				2						
C119.5		2					2	3					1
C119	1.5	2	2			2	2.17	3					1
MATHEMATICS-II (C121)													
C121.1	2	2	1										
C121.2	2		2										
C121.3	3	2											
C121.4	1	3											
C121.5	1	2											
C121	1.80	2.25	1.50										
MATHEMATICS-III(C122)													
C122.1	3	2											
C122.2	2	2											
C122.3	3	2											
C122.4	2	1											
C122.5	2	3	2										
C122	2.40	2.00	2.00										
APPLIED PHYSICS (C123)													
C123.1	2	2											1
C123.2	3	2											1
C123.3	3	2											1
C213.4	3	2											1
C213.5	3	2											1
C213	2.80	2											1
FUNDAMENTALS OF COMPUTERS (C124)													
C124.1	3	2	2										2
C124.2	2	2	1										2
C124.3	3	1	1										2
C124.4	2	1	1		1								2
C124.5	2	1	1										2
C124	2.40	1.40	1.20		1.00								2.00
													2.00

ELECTRICAL CIRCUIT ANALYSIS-I (C125)

C125.1	3	1	2											2	
C125.2	3	1	2											2	
C125.3	3	1	2											2	
C125.4	2	1	2											2	
C125.5	3	2	2											2	
C125	2.8	1.2	2											2	

ELECTRICAL ENGINEERING WORKSHOP (C126)

C126.1	2	2	2												
C126.2	2	3	2												
C126.3	3	2	1												
C126	2.33	2.33	1.67												

APPLIED PHYSICS LABORATORY(C127)

C127.1	3	2			2									1	
C127.2	3	2			2									1	
C127.3	3	2			2									1	
C127.4	3	2			2									1	
C127.5	3	2			2									1	
C127	3	2			2									1	

COMMUNICATION SKILLS LABORATORY(C128)

C127.1								2	3			2			
C127.2								2	3			2			
C127.3								2	3			2			
C127.4								2	2			2			
C127.5								2	2			2			
C128								2	2.6			2			

ENGINEERING EXPLORATION PROJECT (C129)

C129.1	3	2		1				2						3	
C129.2		3	2	3					2					3	
C129.3	2		2	2	2				2	2				3	2
C129.4								2	3	2				3	
C129.5					2				2	2				3	
C129.6					2				2	2				3	
C129	2.16	2.5	2	2	2			2	2	2				3	2

ELECTRICAL CIRCUIT ANALYSIS-II (C211)

C211.1	3	2	2											2	2
C211.2	2	2	1											2	2
C211.3	3	1	1											2	2
C211.4	2	1	1		1									2	
C211.5	2	1	1											2	2
C211	2.40	1.40	1.20		1.00									2.00	2.00

ELECTRICAL MACHINES-1(C212)

C212.1	2	2													
C212.2	2	3													
C212.3	3	3													
C212.4	2	2													
C212.5	2	2													
C212	2.20	2.40													

ELECTRONICS DEVICES & CIRCUITS (C213)

C213.1	2		3		1										
C213.2	3		2												
C213.3	2		3												
C213.4	2		3												
C213.5	3		2		1										
C213	2.40		2.60		1.00										

ELECTROMAGNETIC FIELDS(C214)

C214.1	2	3												
C214.2	2	3												
C214.3	2	2												
C214.4	2	3												
C214.5	2	3												
C214	2	2.8												

THERMAL & HYDRO PRIME MOVERS(C215)

C215.1	3	2	2										1	1
C215.2	2	2	1										1	1
C215.3	3	1	2										1	1
C215.4	2	1	1										1	1
C215.5	2	1	1										1	1
C215	2.40	1.40	1.40										1.00	1.00

MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS(C216)

C216.1	2											2		
C216.2		3										2		
C216.3	2		3											
C216.4												3		
C216.5												3		
C216	2.00	3.00	3.00									2.50		

THERMAL AND HYDRO LABORATORY(C217)

C217.1	3	2	2										2	2
C217.2	2	2	1										2	2
C217.3	3	1	2										2	2
C217.4	2	1	1										2	
C217.5	2	1	1										2	2
C217	2.4	1.4	1.4										2	2

ELECTRICAL CIRCUITS LABORATORY (C218)

C218.1	3	2						3	3					
C218.2	3	3						3	3					
C218.3	3	2						3	3					
C218.4	2	3						3	3					
C218.5	3	3						3	3					
C218	2.8	2.6						3	3					

ESSENCE OF INDIAN TRADITIONAL KNOWLEDGE USING C (C219)

C219.1	2						3							
C219.2	1	2				2	2							
C219.3		2					2							
C219.4		2	2				2							
C219.5		2					2	3						1
C219	1.5	2	2			2	2.17	3						1

ELECTRICAL MEASUREMENTS & INSTRUMENTATION (C221)

C221.1	2	3	2			3								
C221.2	3	1	2			2								
C221.3	2	1	2			3								
C221.4	3	1				2								
C221.5	2					2								
C221	2.40	1.50	2.00			2.40								

ELECTRICAL MACHINES-II (C222)

C222.1	3	3	2											
C222.2	3	3	2											
C222.3	3	2	2											
C222.4	2	3	2											
C222.5	3	3	2											
C222	2.83	2.83	2											

DIGITAL ELECTRONICS (C223)														
C223.1	3	2	2										2	2
C223.2	2	2	1										2	2
C223.3	3	1	1										2	2
C223.4	2	1	1		1								2	
C223.5	2	1	1										2	2
C223	2.40	1.40	1.20		1.00								2.00	2.00
CONTROL SYSTEMS (C224)														
C224.1	2	3												
C224.2	3	3												
C224.3	2	2											1	1
C224.4	2	2			1									
C224.5	3	3			2								1	1
C224	2.40	2.60			1.50								1.00	1.00
POWER SYSTEMS-1 (C225)														
C225.1	3	1	2										2	
C225.2	3	1	2										2	
C225.3	3	1	2										2	
C225.4	2	1	2										2	
C225.5	3	2	2										2	
C225	2.80	1.20	2.00										2.00	
SIGNALS & SYSTEMS (C226)														
C226.1	3	2		2										
C226.2	3	3	2											
C226.3	3	3												
C226.4	3	2		3										
C226.5	2	2	3											
C226	2.80	2.40	2.50	2.50										
ELECTRICAL MACHINES-1 LABORATORY(C227)														
C227.1	2	2							2					
C227.2	2	2							3					
C227.3	2								2					
C227.4	2	2							2					
C227.5	2								2					
C227.6	2	2							2					
C227	2	2							2					
ELECTRONICS DEVICES & CIRCUITS LABORATORY(C228)														
C228.1	1	3				-	-	-	-	-	-	-	2	-
C228.2			3		2	-	-	-	-	-	-	-	2	-
C228.3			3		2	-	-	-	-	-	-	-	2	-
C228.4			3		2	-	-	-	-	-	-	-	2	-
C228.5			2		3	-	-	-	-	-	-	-	2	-
C228	1	3	2.75		2.25								2	
PROFESSIONAL ETHICS AND HUMAN VALUES (C229)														
C229.1									3					
C229.2									3					
C229.3							3							
C229.4						3				3				
C229.5						2	3							
C229						2.5	3	3		3				
POWER SYSTEMS-II (C311)														
C311.1	1	1	2											
C311.2	2	1	1		2									2
C311.3	2	2	1		2									2
C311.4	2	2	1											
C311.5	1	1	1											

C311	1.60	1.40	1.20		2.00									2.00
POWER ELECTRONICS (C312)														
C312.1	2	2	2		2									
C312.2	2	1	2		3									
C312.3	2	1	2		2									
C312.4	2	2			2									
C312.5	3				2									
C312	2.20	1.50	2.00		2.20									
LINEAR IC APPLICATIONS (C313)														
C313.1	3	2	1	-	-	-	-	-	-	-	-	1	2	-
C313.2	2	1	-	-	-	-	-	-	-	-	-	2	-	-
C313.3	1	3	2	-	2	-	-	-	-	-	-	1	2	-
C313.4	2	3	1	-	2	-	-	-	-	-	-	2	2	-
C313.5	1	3	2	-	-	-	-	-	-	-	-	2	2	-
C313	1.80	2.40	1.50		2.00							1.60	2.00	
DIGITAL SIGNAL PROCESSING (C314)														
C314.1	3	2											2	
C314.2	2	2											2	
C314.3	2	2	2										2	
C314.4	2	2	1										2	
C314.5	2												2	
C314	2.2	2	1.5										2	
MICRO PROCESSOR & MICRO CONTROLLERS (C315)														
C315.1	2		1				2						2	
C315.2	1	2	2		2								2	
C315.3	1		3	2									2	
C315.4	3	1		2									2	
C315.5	2		2										2	
C315	1.83	1.5	2	2	2		2						2	
ELECTRICAL MACHINES-II LAB (C316)														
C316.1	3	2			2				2					
C316.2	2	2			2				2					
C316.3	3	2			2				2					
C316.4	2	2			2				2					
C316.5	2	2			2				2					
C316	2.4	2			2				2					
CONTROL SYSTEMS LAB(C317)														
C317.1	3	2	2										2	2
C317.2	2	2	1										2	2
C317.3	3	3	1										2	2
C317.4	2	2	1		1								2	
C317.5	2	2	1										2	2
C317	2.4	2.2	1.2		1								2	2
ELECTRICAL MEASUREMENTS& INSTRUMENTATION LABORATORY(C318)														
C318.1	2	2	-		2				2	1.33			2	
C318.2	2	2	2		2				2				2	
C318.3	2	3	2		1				2				2	
C318.4	3	2	-		2				2				2	
C318.5														
C318	2.25	2.25	2		1.75				2	1.33			2	
SOCIALLY RELEVANT PROJECT (C319)														
C319.1	3	2		1			1							
C319.2		3	2	3		2	1		3	2		2		
C319.3	2		2	2	2				3	2	2	2		2
C319.4							2	2	3	3	2	3		
C319.5					2				3	2	2	2		
C319.6					2				3	2	2	2		

C319	2.16	2.5	2	2	2.2	2	1.33	2	3	2.2	2	2.22		2
ELECTRIC DRIVES (C321)														
C321.1	2	2	2		2									
C321.2	2	1	2		3									
C321.3	2	1	2		2									
C321.4	2	2			2									
C321.5	3				2									
C321	2.20	1.50	2.00		2.20									
POWER SYSTEM ANALYSIS (C322)														
C322.1	1	1	2											
C322.2	2	1	1		2									2
C322.3	2	2	1		2									2
C322.4	2	2	1											
C322.5	1	1	1											
C322	1.6	1.4	1.2		2									2
DATA STRUCTURES (C323)														
C323.1	2	2												
C323.2		1	3											
C323.3	1	2		3										
C323.4			1	1								1	2	
C323.5			2	2										1
C323	1.50	1.67	2.00	2.00								1.00	1.50	
DIGITAL CONTROL SYSTEMS (C324)														
C324.1	2	2			2									
C324.2	2	3			2									
C324.3	2	1		2	2							1	1	
C324.4	2	2		2										
C324.5	3	2		2								1	1	
C324	2.20	2.00		2.00	2.00							1.00	1.00	
INTERNET OF THINGS APPLICATIONS TO ELECTRICAL ENGINEERING (C325)														
C325.1	3	2	2											2
C325.2	2	2	3											2
C325.3	3	1	3											2
C325.4	2	1	2											2
C325.5	2	2	3			3								2
C325	2.40	1.60	2.60			3.00								2.00
DATA BASE MANAGEMENT SYSTEMS (C326)														
C326.1	2	3												
C326.2	1	3			2							2		
C326.3	3	2		3	2									2
C326.4			2	3										
C326.5			2	3										2
C326	2.00	2.67	2.00	3.00	2.00							2.00	2.00	
POWER ELECTRONICS LAB(C327)														
C327.1	3	2	2									2	2	
C327.2	2	2	1									2	2	
C327.3	3	1	1									2	2	
C327.4	2	1	1		1							2		
C327.5	2	1	1									2	2	
C327	2.4	1.4	1.2		1							2	2	
MICROPROCESSORS AND MICROCONTROLLERS LAB (C328)														
C328.1	2.8	2.33	-		1.8				2	1.33			2	
C328.2	2.66	1	2		1.66				2				2	
C328.3	2	3	1.33		1				2				2	
C328.4	3	2	-		2				2				2	
C328	2.62	2.08	1.67		1.62				2	1.33			2	

EMPLOYABILITY SKILLS(C329)														
C329.1											3			
C329.2								2	2					
C329.3									2		2			
C329.4									2		2			
C329.5									2		2			
C329								2	2	3	2			
SWITCH GEAR & PROTECTION (C411)														
C411.1	1	1	-	-	1	-	-	-	-	-	-	-	-	-
C411.2	1	1	-	-	2	-	-	-	-	-	-	-	-	2
C411.3	2	2	-	-	2	-	-	-	-	-	-	-	-	2
C411.4	2	2	-	-	1	-	-	-	-	-	-	-	-	-
C411.5	1	2			2									
C411	1.40	1.60			1.60									2.00
OOPS THROUGH JAVA (C412)														
C412.1	2	2	2											
C412.2	2	3	2											
C412.3	2	2	2											
C412.4	2	2	2											
C412.5	2	3	2											
C412	2.00	2.40	2.00											
RENEWABLE ENERGY SOURCES (C413)														
C413.1	2	2		2		2								
C413.2	2	1		3		3								
C413.3	2	1	2										1	1
C413.4	3	1	2											
C413.5	3	2											1	1
C413	2.40	1.40	2.00	2.50		2.50							1.00	1.00
UTILISATION OF ELECTRICAL ENERGY (C4141)														
C4141.1	2	2	2		2									
C4141.2	2	1	2		3									
C4141.3	2	1	2		2									
C4141.4	2	2			2									
C4141.5	3				2									
C4141	2.2	1.5	2		2.2									
HIGH VOLTAGE ENGINEERING (C415)														
C415.1	2				2									
C415.2	2				2									
C415.3	2		2											
C415.4	2				2									
C415.5	2				2									
C415	2.00		2.00		2.00									
LINEAR & DIGITAL IC APPLICATIONS LABORATORY (C416)														
C416.1	1	2	2										2	2
C416.2	1	3	2										2	2
C416.3	2	3	1										2	2
C416.4	2		3		1								2	
C416.5	2		3		1								2	2
C416	1.6	2.67	2.2		1								2	2
POWER SYSTEM AND SIMULATION LAB (C417)														
C417.1	3	3							3				2	2
C417.2	3	3							3				2	2
C417.3	3	3							3				2	2
C417.4	3	3							3				2	
C417.5	3	3							3				2	2
C417	3	3							3				2	2

INDUSTRIAL TRAINING / SKILL DEVELOPMENT PROGRAM(C418)													
C418.1	3	3		2	3	2			2	2	2		2
C418.2	2	2		2	2	2			2	2	2		2
C418.3	2	2				2	2	2	2	2	2		2
C418.4	2					2			2	2			
C418.5	3	3		2	3	2			2	2	2		2
C418	2.4	2.5		2	2.7	2	2	2	2	2	2		2
PROJECT-1 (C419)													
C419.1	3	2		1			1	2	3				
C419.2		3	2	3		2	1		3	2		2	
C419.3	2		2	2	2				3	2	2	2	2
C419.4							2	2	3	3	2	3	
C419.5					2				3	2	2	2	
C419.6					2				3	2	2	2	
C419	2.16	2.5	2	2	2.2				2	2	2		2
POWER SYSTEM OPERATION & CONTROL (C421)													
C421.1	2	2	2		2								
C421.2	2	1	2		3								
C421.3	2	1	2		2								
C421.4	2				2								
C421.5	3	2			2								
C421	2.2	1.5	2		2.2								
EMBEDDED SYSTEMS (C422)													
C422.1	3	2	1										2
C422.2	1												2
C422.3	2		2										2
C422.4	2		3										2
C422.5	2	3											2
C422	2.00	2.50	2.00										2.00
HVAC & DC TRANSMISSION (C423)													
C423.1	2	2	2		2								
C423.2	2	1	2		3								
C423.3	2	1	2		2								
C423.4	2	2			2								
C423.5	3				2								
C423	2.20	1.50	2.00		2.20								
PROJECT-II (C424)													
C424.1	3	2		1			1	2	3				
C424.2		3	2	3		2	1		3	2		2	
C424.3	2		2	2	2				3	2	2	2	2
C424.4							2	2	3	3	2	3	
C424.5					2				3	2	2	2	
C424	2.16	2.5	2	2	2.2				2	2	2		2

Table: courses - PO/ PSO Mapping 2019-2023 Batch

PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
I B. Tech I Semester														
C111					2.00	2.00	2.00		2.00	2.00		2.00		
C112	2	2.25	2											
C113	2	1.6												
C114	3	2.8	2.75									1		
C115	2	2	1.83		1			1.83	1	2.17		1	2.33	2.5
C116									1	2		3		
C117	2.6	2.67			3									
C118	3	2.8	2.75									1		
C119	1.5	2	2			2	2.17	3						1
I B. Tech II Semester														
C121	1.80	2.25	1.50											
C122	2.40	2.00	2.00											
C123	2.80	2											1	
C124	2.40	1.40	1.20		1.00								2.00	2.00
C125	2.8	1.2	2										2	
C126	2.33	2.33	1.67											
C127	3	2			2								1	
C128									2	2.6		2		
C129	2.16	2.5	2	2	2			2	2	2			3	2
II B. Tech I Semester														
C211	2.40	1.40	1.20		1.00								2.00	2.00
C212	2.20	2.40												
C213	2.40		2.60		1.00									
C214	2	2.8												
C215	2.40	1.40	1.40										1.00	1.00
C216	2.00	3.00	3.00							2.50				
C217	2.4	1.4	1.4										2	2
C218	2.8	2.6							3	3				
C219	1.5	2	2			2	2.17	3						1
II B. Tech II Semester														
C221	2.40	1.50	2.00		2.40									
C222	2.83	2.83	2											
C223	2.40	1.40	1.20		1.00								2.00	2.00
C224	2.40	2.60			1.50								1.00	1.00
C225	2.80	1.20	2.00										2.00	
C226	2.80	2.40	2.50	2.50										
C227	2	2							2					
C228	1	3	2.75		2.25								2	
C229						2.5	3	3		3				
III B. Tech I Semester														
C311	1.60	1.40	1.20		2.00									2.00
C312	2.20	1.50	2.00		2.20									
C313	1.80	2.40	1.50		2.00							1.60	2.00	
C314	2.2	2	1.5										2	
C315	1.83	1.5	2	2	2		2						2	
C316	2.4	2			2				2					
C317	2.4	2.2	1.2		1								2	2
C318	2.25	2.25	2		1.75				2	1.33			2	
C319	2.16	2.5	2	2	2.2	2	1.33	2	3	2.2	2	2.22		2

III B. Tech II Semester

C321	2.20	1.50	2.00		2.20									
C322	1.6	1.4	1.2		2									2
C323	1.50	1.67	2.00	2.00									1.00	1.50
C324	2.20	2.00		2.00	2.00								1.00	1.00
C325	2.40	1.60	2.60			3.00								2.00
C326	2.00	2.67	2.00	3.00	2.00								2.00	2.00
C327	2.4	1.4	1.2		1								2	2
C328	2.62	2.08	1.67		1.62				2	1.33			2	
C329								2	2	3	2			

IV B. Tech I Semester

C411	1.40	1.60			1.60									2.00
C412	2.00	2.40	2.00											
C413	2.40	1.40	2.00	2.50		2.50							1.00	1.00
C4141	2.2	1.5	2		2.2									
C415	2.00		2.00		2.00									
C416	1.6	2.67	2.2		1								2	2
C417	3	3							3				2	2
C418	2.4	2.5		2	2.7	2	2	2	2	2	2			2
C419	2.16	2.5	2	2	2.2				2	2	2			2

IV B. Tech II Semester

C421	2.2	1.5	2		2.2									
C422	2.00	2.50	2.00										2.00	
C423	2.20	1.50	2.00		2.20									
C424	2.16	2.5	2	2	2.2				2	2	2			2

Table: CO-PO/ PSO Mapping of all Courses 2018-2022 Batch

PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
ENGLISH-I(C111)														
C111.1	2									2				
C111.2										2		2		
C111.3	2				3									
C111.4	2						3							
C111.5							2			2				
C111.6									3			2		
C111	2				3		2.5		3	2		2		
MATHEMATICS I(C112)														
C112.1	3	2	1	1	-	-	-	-	-	-	-	-	-	-
C112.2	3	2	1	2	-	-	-	-	-	-	-	-	-	-
C112.3	2	2	2	1	-	-	-	-	-	-	-	-	-	-
C112.4	1	3	2	1	-	-	-	-	-	-	-	-	-	-
C112.5	2	3	1	2	-	-	-	-	-	-	-	-	-	-
C112.6	2	2	2	2	-	-	-	-	-	-	-	-	-	-
C112	2.17	2.33	1.50	1.50	-	-	-	-	-	-	-	-	-	-
APPLIED CHEMISTRY(C113)														
C113.1	3	2	2	2										
C113.2	2	2	2			2	2							
C113.3	2	2	2	3	2									
C113.4	3	2	2											
C113.5	2	2												
C113.6	2	2			2									
C113	2.33	2	2	2.5	2	2	2							
ENGINEERING MECHANICS(C114)														
C114.1	3	2											2	
C114.2	3	2											2	
C114.3	3	3												2
C114.4	2	3												2
C114.5	2	2											2	

C114.6	3	3												2
C114	2.67	2.5											2	2
COMPUTER PROGRAMMING(C115)														
C115.1	-	3	2	-	-	-	-	-	-	-	-	-	-	-
C115.2	-	3	-	2	-	-	-	-	-	-	-	-	-	-
C115.3	-	3	3	-	-	-	-	-	-	-	-	-	-	-
C115.4	-	-	-	2	2	-	-	-	-	-	-	-	-	-
C115.5	3	-	2	-	-	-	-	-	-	-	-	-	-	-
C115.6	-	2	-	-	2	-	-	-	-	-	-	-	-	-
C115	3	2.75	2.33	2.00	2.00	-	-	-	-	-	-	-	-	-
ENVIRONMENTAL STUDIES(C116)														
C116.1	2													
C116.2	2	2				2	1							
C116.3	2	2											2	
C116.4							1						2	
C116.5	2												2	
C116.6	2												2	
C116	2	2				2	1						2	
APPLIED / ENGINEERING CHEMISTRY LABORATORY(C117)														
C117.1	3					3							2	
C117.2	3		3										2	
C117.3	3	3	3										2	
C117.4	3						2						2	
C117.5		3	3		3	2								
C117.6	3	2	2		3								2	
C117	3	2.67	2.75		3	2.5	2						2	
ENGLISH- COMMUNICATION SKILLS LABORATORY – I(C118)														
C118.1					2				2	2		1		
C118.2					2				2	2		1		
C118.3					2				2	2		1		
C118.4					2					3		1		
C118.5					2					3		1		
C118.6					2					3		1		

C118					2				2	2.5		1		
COMPUTER PROGRAMMING LABORATORY(C119)														
C119.1	3								2		2			
C119.2	2								2		2			
C119.3		3		3					2		2			
C119.4		3		3					2		2			
C119.5		2		2					2		2			
C119.6		3							2		2			
C119	2.5	2.67		2.67					2		2			
PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
ENGLISH – II(C121)														
C121.1	2									2		2		
C121.2	2									2		1		
C121.3						1			2	1				
C121.4						1				2				
C121.5						2	2			2				
C121.6	3				2	2				2				
C121	2.33				2	1.5	2		2	1.83		1.5		
MATHEMATICS- II(C122)														
C122.1	2	3	1											
C122.2	2	3	1											
C122.3	2	2	2											
C122.4	2	2	2											
C122.5	2	3	1											
C122.6	3	1	2											
C122	2.17	2.34	1.5											
MATHEMATICS III(C123)														
C123.1	3	3	2											-
C123.2	3	3	1											-
C123.3	2	3	3											-
C123.4	2	3	1											-
C123.5	2	3	2											-

C123.6	3	3	2											
C123	2.5	3	1.84											
APPLIED PHYSICS(C124)														
C124.1	3	2	-	-	-	-	-	-	-	-	-	-	-	-
C124.2	3	3	-	-	-	-	-	-	-	2	-	-	-	-
C124.3	3	2	-	-	-	-	-	-	-	2	-	-	-	-
C124.4	3	2	-	-	-	-	-	-	-	-	-	-	-	-
C124.5	3	3	-	-	-	-	-	-	-	-	-	-	-	-
C124.6	3	2	2	-	-	-	-	-	-	-	-	-	-	-
C124	3.00	2.33	2.00	-	-	-	-	-	-	2	-	-	-	-
ELECTRICAL CIRCUIT ANALYSIS-1(C125)														
C125.1	2	2												
C125.2	2	2			2									
C125.3	3	2												
C125.4	2	2	2											
C125.5	2	2	2											
C125.6	3	2	3		3									
C125	2.33	2	2.33		2.5									
ENGINEERING DRAWING(C126)														
C126.1	1			2						3			1	
C126.2				2						3			1	
C126.3				2						3			1	
C126.4				2						3			1	
C126.5				2						3			1	
C126.6	1			2						3			1	
C126	1			2						3			1	
ENGLISH - COMMUNICATION SKILLS LABORATORY – II(C127)														
C127.1					2				2	2				
C127.2					2				2	2				
C127.3					2					2		1		
C127.4					2					3				
C127.5					2					3		1		
C127.6					2					3				
C127					2				2	2.5		1		
APPLIED / ENGINEERING PHYSICS LABORATORY(C128)														
C128.1	3	2			2								2	
C128.2	3	2			2								2	
C128.3	3	2			2								2	

C128.4	3	2			2								2	
C128.5	3	2			2								2	
C128.6	3	2			2								2	
C128	3	2			2								2	
APPLIED / ENGINEERING PHYSICS – VIRTUAL LABS(C129)														
C129.1	3	2		1			1	2	3					
C129.2		3	2	3		2	1		3	2		2		
C129.3	2		2	2	2				3	2	2	2		2
C129.4							2	2	3	3	2	3		
C129.5					2				3	2	2	2		
C129.6					2				3	2	2	2		
C129	2.16	2.5	2	2	2.2				2	2	2			2
ENGG.WORKSHOP & IT WORKSHOP(C1210)														
C1210.1			3						2		2			
C1210.2	2								2		2			
C1210.3		3							2		2			
C1210.4		3		2					2		2			
C1210.5					3				2		2			
C1210.6	2		2						2		2			
C1210	2	3	3	2	3				2		2			
ELECTRICAL CIRCUIT ANALYSIS-II(C211)														
C211.1	2	2	-		2									
C211.2	2	1	-		3									
C211.3	2	1	-											
C211.4	3	1	-	2										
C211.5	3	2	-											
C211.6	2	3	-											
C211	2.34	1.67	-	2.0	2.5									
ELECTRICAL MACHINES-1(C212)														
C212.1	2	2	3											
C212.2	3	2	2											
C212.3	1	3	2											
C212.4	3	2												
C212.5	2	3												
C212.6	3	1	2											
C212	2.33	2.17	2.25											
BASIC ELECTRONICS & DEVICES(C213)														
C213.1	2	3			1									

C213.2	3	1												
C213.3	2	3												
C213.4	3	3												
C213.5	3	2												
C213.6	3	2												
C213	2.67	2.33			1									
ELECTRO MAGNETIC FIELDS(C214)														
C214.1	2	3												
C214.2	2	3												
C214.3	2	2												
C214.4	2	3												
C214.5	2	3												
C214.6	2	2												
C214	2.33	1.66												
THERMAL & HYDRO PRIME MOVERS(C215)														
C215.1	2	2			2									
C215.2	2	1			3									
C215.3	2	1												
C215.4	3	1		2										
C215.5	3	2												
C215.6	2	3												
C215	2.33	1.66		2	2.5									
MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS(C216)														
C216.1	2	-	-	-	-	-	-	-	-	-	2	-	-	-
C216.2	-	3	-	-	-	-	-	-	-	-	2	-	-	-
C216.3	-	-	1	-	-	-	-	-	-	-		-	-	-
C216.4	2	-	-	-	-	-	-	2	-	-		-	-	-
C216.5	-	2	-	-	-	-	-	2	-	-		-	-	-
C216.6	-	1	-	-	-	-	-	-	-	-	2	-	-	-
C216	2	2	1	-	-	-	-	2	-	-	2	-	-	-
THERMAL AND HYDRO LABORATORY(C217)														
C217.1	2	2												
C217.2	2	2												
C217.3	2													
C217.4	2	2												
C217.5	2		2											
C217.6	2	2												
C217	2	2	2											

ELECTRICAL CIRCUITS LABORATORY(C218)

C218.1	2	2	2						2					
C218.2	2	3	2						2					
C218.3	3	2	1						2					
C218	2.33	2.33	1.67											

ELECTRICAL MEASUREMENTS(C221)

C221.1	3	2	1	2										
C221.2	3	2	2											
C221.3	2	3	2											
C221.4	2	3	2	3										
C221.5	3	3	2											
C221.6				1										
C221	2.6	2.6	1.8	2										

ELECTRICAL MACHINES-II(C222)

C222.1	2	2			2									
C222.2	2	3			2									
C222.3	3	3			1									
C222.4	3	3			1									
C222.5	2	2			1									
C222.6	2				1									
C222	2.33	2.1			1.33									

SWITCHING THEORY & LOGIC DESIGN(C223)

C223.1	3	2	-	-	-	-	-	-	-	-	-	-	-	-
C223.2	3	3		-	-	-	-	-	-	-	-	-	-	
C223.3	3	-	3	-	-	-	-	-	-	-	-	-	-	-
C223.4	3	-	-	-	-	-	-	-	-	-	-	-	-	-
C223.5	3	3	3	-	-	-	-	-	-	-	-	-	-	-
C223.6	-	3	2	-	-	-	-	-	-	-	-	-	-	
C223	3	2.75	2.67	-	-	-	-	-	-	-	-	-	-	-

CONTROL SYSTEMS(C224)

C224.1	2	3												
C224.2	3	3												
C224.3	2	2												1
C224.4	2	2			1									1
C224.5	3	3			2									1
C224.6	3	2			2									1
C224	2.5	2.5			1.67									1

POWER SYSTEMS-1(C225)

C225.1	3													
C225.2	3													
C225.3	2	3												
C225.4	2													
C225.5	2	3												
C225.6	3	2												
C225	2.5	2.67												
MANAGEMENT SCIENCE(C226)														
C226.1	-	2	-	-	-	-	-	-	3	-	-	-	2	-
C226.2	-	2	-	-	-	-	-	-	3	-	-	-	-	2
C226.3	-	-	-	-	-	-	-	1	3	-	-	-	2	-
C226.4	-	2	-	-	-	-	-	-	-	-	3	-	2	2
C226.5	-	-	-	-	-	-	2	-	3	-	-	-	2	-
C226.6	-	-	-	-	-	-	2	-	3	-	-	-	2	-
C226		2					2	1	3		3		2	2
ELECTRICAL MACHINES -I LABORATORY(C227)														
C227.1	2	2							2					
C227.2	3	2							2					
C227.3	2								2					
C227.4	3	2							2					
C227.5	2								2					
C227.6	2	2							2					
C227	2.4	2							2					
ELECTRONIC DEVICES & CIRCUITS LABORATORY(C228)														
C228.1	3	2		-	-	-	-	-	-	-	-	-	2	-
C228.2	3	3		-	-	-	-	-	-	-	-	-	2	-
C228.3	-	3		-	-	-	-	-	-	-	-	-	2	-
C228.4	3	3		-	-	-	-	-	-	-	-	-	2	-
C228.5	3	3		-	-	-	-	-	-	-	-	-	2	-
C228	3	2.8											2	
POWER SYSTEMS-II(C311)														
C311.1	2	2			1									
C311.2	3	2												
C311.3	2	1			2									
C311.4	3	2												
C311.5	2	2												
C311.6	2	2			2									
C311	2.3	1.8			1.7									

RENEWABLE ENERGY SOURCES(C312)														
C312.1	2	2			2									
C312.2	2	1			3									
C312.3	2	1												
C312.4	3	1		2										
C312.5	3	2												
C312.6	2	3												
C312	2.33	1.66		2	2.5									
SIGNALS & SYSTEMS(C313)														
C313.1	2	2		2										
C313.2	2	2	2											
C313.3	2	3												
C313.4	2	2		3										
C313.5	2	2	3											
C313.6	2													
C313	2.00	2.2	2.5	2.5										
PULSE & DIGITAL COMMUNICATION(C314)														
C314.1	2	3	2		2									1
C314.2	2	3	3		2									1
C314.3	2	3	2											1
C314.4	2	2	3		3						-			1
C314.5	2	2	3		2									1
C314.6	2	2	2		2									1
C314	2	2.5	2.5		2.2									1
POWER ELECTRONICS(C315)														
C315.1	2	2	2	-	2	-	-	-	-	-	-	3	-	1
C315.2	2	2	2	-	2	-	-	-	-	-	-	-	1	2
C315.3	2	2	2	-	2	-	-	-	-	-	-	-	1	2
C315.4	2	2	2	-	2	-	-	-	-	-	-	-	1	2
C315.5	2	2	2	-	2	-	-	-	-	-	-	-	1	2
C315.6	2	2	2	-	2	-	-	-	-	-	-	-	1	2
C315	2	2	2		2							3	1	1.83
ELECTRICAL MACHINES-II LABORATORY(C316)														
C316.1	2	2							2					
C316.2	2	2							2					
C316.3	2								2					
C316.4	2	2							2					
C316.5	2								2					

C316.6	2								2					
C316	2	2							2					
ELECTRICAL MEASUREMENTS LABORATORY(C317)														
C317.1	2	2	2											1
C317.2	2	3	2											1
C317.3	3	2	1											1
C317	2.33	2.33	1.67											1
ELECTRICAL MEASUREMENTS LABORATORY(C318)														
C318.1	2	2							2					
C318.2	2	2							2					
C318.3	2	3							2					
C318.4	2	2							2					
C318.5	2	2							2					
C318.6	2	3							2					
C318	2	2.2							2					
IPR & PATENTS(C319)														
C319.1	-	-	3	-	-	2	-	-	-	-	-	-	-	-
C319.2	-	-	3	-	-	2	-	-	-	-	-	-	-	-
C319.3	-	-	3	-	-	2	-	-	-	-	-	-	-	-
C319.4	-	-	3	-	-	2	-	-	-	-	-	-	-	-
C319.5	-	-	3	-	-	2	-	-	-	-	-	-	-	-
C319.6	-	-	3	-	-	2	-	-	-	-	-	-	-	-
C319	-	-	3	-	-	2	-	-	-	-	-	-	-	-
POWER ELECTRONIC CONTROLLERS & DRIVES(C321)														
C321.1	3													
C321.2	2	2	2										1	
C321.3	3	2	2										1	
C321.4	2	2	2										1	
C321.5	2	2	2										1	
C321.6	2	2	2										1	
C321	2.33	2	2										1	
POWER SYSTEM ANALYSIS(C322)														
C322.1	1	1												
C322.2	2	1			2									2
C322.3	1	2			2									2
C322.4	2	1												
C322.5	2	2												
C322.6	1	1												

C322	1.5	1.3			2									2
MICRO PROCESSOR & MICRO CONTROLLERS(C323)														
C323.1	3	-	2	-	-	-	2	-	-	-	-	-	2	-
C323.2	1	3	-	-	2	-	-	-	-	-	-	-	2	-
C323.3	1	-	3	2	-	-	-	-	-	-	-	-	2	-
C323.4	3	2	-	2	-	-	-	-	-	-	-	-	2	-
C323.5	2	-	2	1	-	-	-	-	-	-	-	-	2	-
C323.6	2	-	3	-	2	-	-	-	-	-	-	-	2	-
C323	2	2.5	2.5	1.67	2		2						2	
DATA STRUCTURES(C324)														
C324.1	1	2												
C324.2	2	3												
C324.3		2	3											
C324.4	3	2		2										2
C324.5			3	2										2
C324.6			2	3										2
C324	2	2.25	2.6	2.3										2
OOPS THROUGH JAVA(C325)														
C325.1	2	2	3		2				2		2	2		
C325.2	3	2	2						2					
C325.3	2	2	3		3	1			2			2		
C325.4	2	2	3	2	3				2	2		2		
C325.5	2	2	3	1	3				2			2		
C325.6	3	2	3	2	2				2	2	2	3		
C325	2.67	2.4	2.5	2.5	2.5									
POWER ELECTRONICS LABORATORY(C326)														
C326.1	2	2	2						2				2	2
C326.2	2	3	2						2				2	2
C326.3	3	2	1						2				2	2
C326.4	2	2	2						1				2	
C326.5	2	1	1										2	2
C326	2.2	2	1.6						1.75				2	2
MICROPROCESSORS & MICROCONTROLLERS LABORATORY(C327)														
C327.1	3	-	-	-	1	-	-	-	2	2	-	-	2	-
C327.2	3	2	-	-	2	-	-	-	2	1	-	-	2	-
C327.3	2	2.5	-	-	3	-	-	-	2	-	-	-	2	-
C327.4	2.67	1	2	-	1.6	-	-	-	2	-	-	-	2	-
C327.5	2	3	1.3	-	1	-	-	-	2	-	-	-	2	-

C327	2.53	2.13	1.65		1.72				2	1.5			2	
DATA STRUCTURES LABORATORY(C328)														
C328.1	1	2												
C328.2	2	3												
C328.3		2	3											
C328.4	3	2		2										2
C328.5			3	2										2
C328.6			2	3										2
C328	2	2.25	2.6	2.3										2
PROFESSIONAL ETHICS & HUMAN VALUES(C329)														
C329.1	-	-	-	-	-	-	-	3	-	2	-	-	-	-
C329.2	-	-	-	-	-	-	-	3	-	2	-	-	-	-
C329.3	-	-	-	-	-	-	-	3	-	2	-	-	-	-
C329.4	-	-	-	-	-	-	-	3	-	2	-	-	-	-
C329.5	-	-	-	-	-	-	-	3	-	2	-	-	-	-
C329.6	-	-	-	-	-	-	-	3	-	2	-	-	-	-
C329	-	-	-	-	-	-	-	3	-	2	-	-	-	-
UTILISATION OF ELECTRICAL ENERGY(C411)														
C411.1	2	2			2									
C411.2	2	1			3									
C411.3	2	1												
C411.4	2	1		2										
C411.5	2	2												
C411.6	2	3												
C411	2	1.66		2	2.5									
LINEAR IC APPLICATIONS(C412)														
C412.1	2	2	2	2										
C412.2	3	3	2	3										
C412.3	2	2	3	2										
C412.4	3	3	2	3										
C412.5	3	3	3	2										
C412.6	3	2	3	3										
C412	2.67	2.5	2.5	2.5										
POWER SYSTEM OPERATION & CONTROL(C413)														
C413.1	2	2												
C413.2	2	2												
C413.3	2	2			2									
C413.4	2	2			2									2

C413.5	2				2									2
C413.6	2				2									
C413	2	2			2									2
SWITCH GEAR & PROTECTION(C414)														
C414.1	2	2												
C414.2	2	2												
C414.3	2	2			2									
C414.4	2	2			2									2
C414.5	2				2									2
C414.6	2				2									
C414	2	2			2									2
INSTRUMENTATION(C415)														
C415.1	3	2	1	2										
C415.2	2	2	2											
C415.3	2	2	1											
C415.4	2	2	1	3										
C415.5	2	2	2											
C415.6				1										
C415	2.2	2	1.4	2										
ELECTRIC POWER QUALITY(C416A)														
C416(A).1	2	2			3									
C416(A).2	2	2			3									
C416(A).3	3	2		2										
C416(A).4	3	2		3										
C416(A).5	3	2		2										
C416(A).6	2	3												
C416(A)	2.5	2.17		2.34	3									
SPECIAL ELECTRIC MACHINES(C416B)														
C416(B).1	3	3	-	-	-	-	-	-	-	-	-	-	-	-
C416(B).2	3	2	-	-	-	-	-	-	-	-	-	-	-	-
C416(B).3	2	-	-	-	-	-	-	-	-	-	-	-	-	-
C416(B).4	2	2	-	-	2	-	-	-	-	-	-	-	-	-
C416(B).5	3	-	-	-	-	-	-	-	-	-	-	-	-	-
C416(B).6	3	-	-	-	-	-	-	-	-	-	-	-	-	-
C416(B).1	2.66	2.33			2									
ELECTRICAL SIMULATION LABORATORY(C417)														
C417.1	2	2	2						2					
C417.2	2	3	2						2					

C417.3	2	2	1						2					
C417	2	2.33	1.67						2					
POWER SYSTEMS & SIMULATION LABORATORY(C418)														
C418.1	3	2							2				3	3
C418.2	2	2							2					
C418.3	3				2				2					
C418.4	3	2							2					
C418.5	2								2					
C418.6	3								2					
C418	2.7	2.0			2				2				3	3
DIGITAL CONTROL SYSTEMS(C421)														
C421.1	2	2			2									
C421.2	2	3			2									
C421.3	2	1		2	2									
C421.4	2	2		2										
C421.5	3	2		2										
C421.6	2	2			2									
C421	2.16	2		1	1.3									
HVDC TRANSMISSION(C422)														
C422.1	2	2			2									
C422.2	2	3			2									
C422.3	2	3			1									
C422.4	2	3			1									
C422.5	2	2			1									
C422.6	2				1									
C422	2	2.1			1.34									
ELECTRICAL DISTRIBUTION SYSTEMS(C423)														
C423.1	2	2												
C423.2	2	2			2									
C423.3	2	2			3									
C423.4	2	2			2									
C423.5	2	3												
C423.6	2	2												
C423	2	2.2			2.3									
HIGH VOLTAGE ENGINEERING(C424)														
C424.1	2				2									
C424.2	2				2									
C424.3	2		2											

C424.4	2				2									
C424.5	2				2									
C424.6	2				2									
C424	2		2		2									
SEMINAR(C425)														
C425.1	2	2	2.5		2				3					
C425.2	3	3	2						2	2			2	2
C425.3	2	2	2		3				3	2			2	2
C425.4	3	2	3						2	3			2	3
C425.5	2	2			2				3	2			2	3
C425	2.4	2.2	2.37		2.33				2.6	2.25			2	2.5
PROJECT(C426)														
C426.1	3	2		1			1	2	3					
C424.2		3	2	3		2	1		3	2		2		
C424.3	2		2	2	2				3	2	2	2		2
C424.4							2	2	3	3	2	3		
C424.5					2				3	2	2	2		
C424.6					2				3	2	2	2		
	2.16	2.5	2	2	2.2				2	2	2			2

Table: Courses-PO/PSO Mapping, 2018-2022 Batch

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
I B.Tech I Semester														
C111	2				3		2.5		3	2		2		
C112	2.17	2.33	1.5	1.5										
C113	2.33	2	2	2.5	2	2	2							
C114	2.67	2.5											2	2
C115	3	2.75	2.33	2	2									
C116	2	2				2	1						2	
C117	3	2.67	2.75		3	2.5	2						2	
C118					2				2	2.5		1		
C119	2.5	2.67		2.67					2		2			
I B.Tech II Semester														
C121	2.33				2	1.5	2		2	1.83		1.5		
C122	2.17	2.33	1.5											
C123	2.5	3	1.83											
C124	3.00	2.33	2.00							2				2
C125	2.33	2	2.33		2.5									
C126	1			2						3			1	
C127					2				2	2.5		1		
C128	3	2			2								2	
C129	3	2	1		2									1
C1210	2	3	3	2	3				2		2			
II B.Tech I Semester														
C211	2.33	1.67		2	2.5								3	
C212	2	2.17	2.25										2	2
C213	2.67	2.33			1.00									
C214	2	3												
C215	2.33	1.66		2	2.5									
C216	2	2	1					2			2			
C217	2	2	2											
C218	2.33	2.33	1.67											
II B.Tech II Semester														
C221	2	2.6	1.8	2.67										
C222	2.66	2.8			1.33									
C223	3	2.75	2.67	3	3									
C224	2	3			3.00									2.5
C225	2.5	2.67												
C226		2					2	1	3		3		2	2
C227	2.4	2							2					
C228	3	2.8											2	

III B.Tech I Semester													
C311	2	2			2								
C312	2.33	1.66		2	2.5								
C313	2	2.2	2.5	2.5									
C314	2	2.5	2.5		2.2								1
C315	2	2	2		2						3	2	2
C316	2	2							2				
C317	2.33	2.33	1.67										1
C318	2	2.2							2				
C319			3			2							
III B.Tech II Semester													
C321	2	2	2.2		2	2						1	2
C322	1.5	1.5			2								2
C323	2	2.5	2.5	1.67	2		2					2	
C324	2	2.25	2.6	2.3									2
C3252	2.33	2.00	2.83	1.67	2.60	1.00			2.00	2.00	2.00	2.20	
C326	2.2	2	1.6						1.75			2	2
C327	2.53	2.13	1.65		1.72				2	1.5		2	
C328	2	2.25	2.6	2.3									2
C329								3	2				
IV B.Tech I Semester													
C411	2	1.66		2	2.5								
C412	2.67	2.5	2.5	2.5								1	2
C413	2	2			2								2
C414	2.67	2.4	2.5	2.5									
C4154	2	2.4	1.6	2	1								
C4162	2.5	2.17		3	3								
C417	2	2.33	1.67										
C418	2.7	2.0			2				2			3	3
IV B.Tech II Semester													
C421	2.16	2		1	1.3								
C422	2	2.1			1.33								
C423	2	2.3			2.7								
C4241	2		2		2.4								
C425	2.2	2.2	1.6		2.3				2.6	2.25		2	2.5
C426	2.16	2.5	2	2	2.2	2	1.33	2	2	2	2	2.2	2