



SURESH ANGADI EDUCATION FOUNDATION'S
ANGADI INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Savagaon Road, Belagavi – 590 009.

Approved by AICTE, New Delhi & Affiliated to Visvesvaraya Technological University, Belagavi

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**3.1.2.CO-PO matrices of courses selected in 3.1.1(six matrices mentioned;
one per semester from 3rd to 8th semester) (05)**

Course Name: - Transform Calculus, Fourier series And Numerical Techniques

Subject Code: - 21MAT31, C201, Year of Study 2022-23

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21MAT31.1	C201.1	3	3	2									
21MAT31.2	C201.2	3	3	2									
21MAT31.3	C201.3	3	3	2									
21MAT31.4	C201.4	3	3	2									
21MAT31.5	C201.5	3	3	2									
21MAT31	C201	3	3	2									

Course Name: Analog Electronic Circuits and Op - Amps

Subject Code: - 21EE32, C202 Year of Study 2022-23

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE32.1	C202.1	3	2	1	-	-							
21EE32.2	C202.2	3	2	3	-	2							
21EE32.3	C202.3	3	2	2	-	2							
21EE32.4	C202.4	3	2	3	-	2							
21EE32.5	C202.5	3	2	3	-	2							
21EE32.6	C202.6	3	2	2	-	3							
21EE32	C202	3	2	2.33	-	2.2							

Course Name: Electric Circuit Analysis

Subject Code: - 21EE33, C203 Year of Study 2022-23

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE33.1	C203.1	3	2	2	-	-							



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21EE33.2	C203.2	3	3	2	-	-							
21EE33.3	C203.3	3	2	2	-	-							
21EE33.4	C203.4	3	2	2	2	2							
21EE33.5	C203.5	3	2	2	2	2							
21EE33	C203	3	2.2	2	2	2							

Course Name: Transformers and Generators

Subject Code: - 21EE34, C204 Year of Study 2022-23

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE34.1	C204.1	3	2	1	-	-							
21EE34.2	C204.2	3	3	2	-	2							
21EE34.3	C204.3	3	2	1	-	-							
21EE34.4	C204.4	3	3	2	-	2							
21EE34.5	C204.5	3	3	2	-	2							
21EE34	C204	3	2.6	1.6	-	2							

Course Name: Electrical Machines Laboratory -1

Subject Code: - 21EEL35, C205 Year of Study 2022-23

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EEL35.1	C205.1	3	2	2	-	2							
21EEL35.2	C205.2	3	2	3	-	2							
21EEL35.3	C205.3	3	2	3	-	2							
21EEL35.4	C205.4	3	3	2	-	2							
21EEL35.5	C205.5	3	3	2	-	2							
21EEL35	C205	3	2.4	2.4		2							



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Course Name: Social Connect and Responsibility

Subject Code: - 21SCR36, C206 Year of Study 2022-23

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21SCR36.1	C206.1						3	3	3	3	3		3
21SCR36.2	C206.2						3	3	3	3	3		3
21SCR36.3	C206.3						3	3	3	3	3		3
21SCR36	C206						3	3	3	3	3		3

Course Name: - Samskrutika Kannada

Subject Code: - 21KSK37, C207 Year of Study 2022-23

CO PO Mapping													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21KSK37.1	C207.1									2	3		3
21KSK37.2	C207.2									2	3		3
21KSK37.3	C207.3									2	3		3
21KSK37.4	C207.4									2	3		3
21KSK37	C207									2	3		3

Course Name: - Balake Kannada (Kannada for administration)

Subject Code: -21KBK37, C208 Year of Study 2022-23

CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21KBK37.1	C208.1									2	3		3
21KBK37.2	C208.2									2	3		3
21KBK37.3	C208.3									2	3		3
21KBK37.4	C208.4									2	3		3
21KBK37	C208.5									2	3		3



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21KBK37	C208										2	3		3
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Course Name: Circuit Laboratory using Pspic

Subject Code: - 21EEL382, C209 Year of Study 2022-23

CO PO Mapping													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE381.1	C209.1	3	3	3		3							
21EE381	C209	3	3	3		3							

Course Name: Complex Analysis, Probability and Linear Programming.

Subject Code: - 21MATME41, C210 Year of Study 2022-23

CO PO Mapping													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21MATME41.1	C210.1	3	3	2									
21MATME41.2	C210.2	3	3	2									
21MATME41.3	C210.3	3	3	2									
21MATME41.4	C210.4	3	3	2									
21MATME41.5	C210.5	3	3	2									
21MATME41	C210	3	3	2									

Course Name: Digital System Design

Subject Code: - 21EE42, C211 Year of Study 2022-23

CO - PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE42.1	C211.1	3	3	2	-	-							
21EE42.2	C211.2	3	2	3	-	2							
21EE42.3	C211.3	3	2	3	-	2							
21EE42.4	C211.4	3	3	3	-	2							
21EE42.5	C211.5	3	2	2	-	2							



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21BE45.2	C214.2	3	3										
21BE45.3	C214.3	3	3										
21BE45.4	C214.4	3	3										
21BE45	C214	3	3	0.25									

Course Name: Electrical Machines Laboratory - 2

Subject Code: - 21EEL46, C215 Year of Study 2022-23

CO – PO MAPPING

CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EEL46.1	C215.1	3	3	1	3					3	3		
21EEL46.2	C215.2	3	3	1	3					3	3		
21EEL46.3	C215.3	3	3	1	3					3	3		
21EEL46.4	C215.4	3	3	1	3					3	3		
21EEL46.5	C215.5	3	3	1	3					3	3		
21EEL46	C215	3	3	1	3					3	3		

Course Name: Constitution of India and Professional Ethics

Subject Code: - 21CIP47, C216 Year of Study 2022-23

CO PO Mapping

CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21CIP37.1	C216.1						3		3	2	3		3
21CIP37.2	C216.2						3		3	2	3		3
21CIP37.3	C216.3						3		3	2	3		3
21CIP37.4	C216.4						3		3	2	3		3
21CIP37.5	C216.5						3		3	2	3		3
21CIP37	C217						3		3	2	3		3



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21EE51.2	C301.2	3	3	2									1
21EE51.3	C301.3	3	3										1
21EE51.4	C301.4	3	2				2	1					1
21EE51.5	C301.5	3	2	2									1
21EE51	C301	3	2.4	2			2	1					1

Course Name: Control Systems

Subject Code: - 21EE52, C302 Year of Study 2023-24

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE52.1	C302. 1	3	3	2	–	–				–	–		–
21EE52.2	C302.2	3	3	2	–	–				–	–		–
21EE52.3	C302.3	3	3	2	2	–				–	–		–
21EE52.4	C302.4	3	3	3	2	2				–	–		–
21EE52.5	C302.5	3	3	3	2	2				–	–		–
21EE52.6	C302.6	3	2	3	3	3				1	1		2
21EE52.7	C302.7	3	3	3	2	3				1	1		–
21EE52.8	C302.8	3	2	2	2	2				–	–		–
21EE52.9	C302.9	3	3	3	2	3				1	1		2
21EE52.10	C302.10	3	3	2	2	3				1	1		2
21EE52	C302	3	2.8	2.5	2.15	2.57				1	1		2

Course Name: Power System Analysis – 1

Subject Code: - 21EE53, C303 Year of Study 2023-24

CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE53.1	C303.1	3	3	2	–	3							
21EE53.2	C303.2	3	3	2	–	3							
21EE53.3	C303.3	3	3	2	–	3							
21EE53.4	C303.4	3	3	2	–	3							
21EE53.5	C303.5	3	3	2	2	3							



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21EE53	C303	3	3	2	2								
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Course Name: Power Electronics

Subject Code: - 21EE54, C304 Year of Study 2023-24

CO PO Mapping													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE54.1	C304.1	3	2	–	–								
21EE54.2	C304.2	3	3	2	–								
21EE54.3	C304.3	3	2	–	–								
21EE54.4	C304.4	3	2	–	–								
21EE54.5	C304.5	3	3	2	2								
21EE54	C304	3	2.4	2	2								

Course Name: Power Electronics Laboratory

Subject Code: - 21EEL55, C305 Year of Study 2023-24

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EEL55.1	C305.1	3	3	–	2	2				1	1		
21EEL55.2	C305.2	3	3	2	2	2				1	1		
21EEL55.3	C305.3	3	3	3	2	2				1	1		
21EEL55.4	C305.4	3	3	3	2	2				1	1		
21EEL55.5	C305.5	3	3	3	2	2				1	1		
21EEL55	C305	3	3	2.75	2	2				1	1		

Course Name: Research Methodology & Intellectual Property Rights

Subject Code: - 21RMI56, C306 Year of Study 2023-24

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21RMI56.1	C306.1						3		3	2	3		3
21RMI56.2	C306.2						3		3	2	3		3



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21RMI56.3	C306.3						3		3	2	3		3
21RMI56.4	C306.4						3		3	2	3		3
21RMI56.5	C306.5						3		3	2	3		3
21RMI56	C306						3		3	2	3		3

Course Name: Environmental Studies

Subject Code: - 21CIV57, C307 Year of Study 2023-24

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21CIV57.1	C307.1						3	3					3
21CIV57.2	C307.2						3	3					3
21CIV57.3	C307.3						3	3					3
21CIV57.4	C307.4						3	3					3
21CIV57	C307						3	3					3

Course Name: Renewable Energy Projects

Subject Code: - 21EEP584, C308 Year of Study 2023-24

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EEP584.1	C308.1	3	3	3		3							
21EE582	C308	3	3	3		3							

Course Name: Management and Entrepreneurship

Subject Code: - 21EE61, C309 Year of Study 2023-24

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE61.1	C309.1						–	–	–	–	2	–	2
21EE61.2	C309.2						–	–	–	3	3	–	2
21EE61.3	C309.3						3	–	3	2	2	–	–
21EE61.4	C309.4						2	2	–	–	–	2	2
21EE61.5	C309.5						–	–	–	–	–	3	2



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Course Name: Electrical Engineering Materials

Subject Code: - 21EE644, C312 Year of Study 2023-24

CO – PO MAPPING

CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE644.1	C312.1	3	2										
21EE644.2	C312.2	3	2										
21EE644.3	C312.3	3	2										2
21EE644.4	C312.4	3	–										2
21EE644	C312	3	2										2

Course Name: Renewable Energy Power Plant

Subject Code: - 21EE652, C313 Year of Study 2023-24

CO – PO MAPPING

CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE652.1	C313.1	3	3				2	2					
21EE652.2	C313.2	3	3				2	2					
21EE652.3	C313.3	3	3				2	2					
21EE652.4	C313.4	3	3				2	2					
21EE652.5	C313.5	3	3				2	2					
21EE652.6	C313.6	3	3				2	2					
21EE652	C313	3	3				2	2					

Course Name: Digital Signal Processing Laboratory

Subject Code: - 21EEL66, C314 Year of Study 2023-24

CO – PO MAPPING

CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EEL66.1	C314.1	2	2	2	2	3				1	1		
21EEL66.2	C314.2	3	3	2	2	3				1	1		
21EEL66.3	C314.3	3	3	3	2	3				1	1		
21EEL66.4	C314.4	3	3	3	2	3				1	1		



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21EEL66.5	C314.5	3	3	3	2	3				1	1		
21EEL66.6	C314.6	3	3	3	2	3				1	1		
21EEL66	C314	2.83	2.83	2.67	2	3				1	1		

Course Name: Mini Project

Subject Code: - 21EEMP67, C315 Year of Study 2023-24

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EEMP67.1	C315.1	3	2	3	1	1	-	1	-	-	1	-	2
21EEMP67.2	C315.2	2	3	3	2	2	-	1	-	-	1	-	2
21EEMP67.3	C315.3	2	2	3	2	2	-	1	1	3	2	1	2
21EEMP67.4	C315.4	2	2	3	3	2	-	1	1	2	2	-	2
21EEMP67.5	C315.5	1	1	2	1	2	-	1	2	3	3	2	2
21EEMP67	C315	2.5											

Course Name: -Innovation/Entrepreneurship/Societal Internship

Subject Code: - 21INT68, C316 Year of Study 2023-24

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21INT68.1	C316.1	1	-	1	-	-	2	2	-	-	1	-	1
21INT68.2	C316.2	-	1	2	-	1	-	2	-	-	1	1	2
21INT68.3	C316.3	1	1	2	1	1	2	3	1	1	1	-	2
21INT68.4	C316.4	-	-	2	1	2	-	2	-	2	2	1	2
21INT68.5	C316.5	-	-	-	-	1	-	1	2	3	3	2	1
21INT68	C316	1											

Course Name: High Voltage and Power System Protection

Subject Code: - 21EE71, C401 Year of Study 2024-25

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12



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21EE71.1	C401.1	3	2	–	–	2				–	–		2
21EE71.2	C401.2	3	3	–	2	3				–	–		–
21EE71.3	C401.3	3	2	2	–	2				–	–		–
21EE71.4	C401.4	3	2	–	–	2				–	–		–
21EE71.5	C401.5	3	2	2	–	2				–	–		–
21EE71.6	C401.6	3	2	–	–	–				–	–		2
21EE71.7	C401.7	3	3	–	3	3				–	–		–
21EE71.8	C401.8	3	3	3	2	3				2	2		–
21EE71.9	C401.9	3	2	3	2	3				2	2		–
21EE71	C401	3	2.33	2.5	2.25	2.5				2	2		2

Course Name: Power System Operation and Control

Subject Code: - 21EE72, C402 Year of Study 2024-25

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE72.1	C402.1	3	2	–	–	2							2
21EE72.2	C402.2	3	3	2	2	2							–
21EE72.3	C402.3	3	3	2	2	2							–
21EE72.4	C402.4	3	2	2	2	2							–
21EE72.5	C402.5	3	3	2	2	2							2
21EE72	C402	3	2.6	2	2	2							2

Course Name: Power System Planning

Subject Code: - 21EE731, C403 Year of Study 2024-25

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE731.1	C403.1	3	2	–	2	2	–	–					2
21EE731.2	C403.2	3	3	–	–	–	2	2					2
21EE731.3	C403.3	3	3	2	2	2	–	–					–
21EE731.4	C403.4	3	2	–	2	2	–	–					–



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21EE731.5	C403.5	3	3	–	2	2	–	–					2
21EE731.6	C403.6	3	2	–	–	–	2	2					2
21EE731	C403	3	2.5	2	2	2	2	2					2

Course Name: Industrial Drives and Applications

Subject Code: 21EE744, C404 Year of Study 2024-25

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE744.1	C404.1	3	3	1									
21EE744.2	C404.2	3	3	1									
21EE744.3	C404.3	3	3	3	3		3	3					
21EE744.4	C404.4	3	3	1			3	3					
21EE744	C404	3	3	1.5	0.75		1.5	1.5					

Course Name: Non Traditional Maching

Subject Code: - 21ME751, C405 Year of Study 2024-25

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21ME751.1	C405.1												
21ME751.2	C405.2												
21ME751.3	C405.3												
21ME751.4	C405.4												
21ME751.5	C405.5												
21ME751	C405												

Course Name: Project work

Subject Code: - 21EEP76, C406 Year of Study 2024-25

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EEP76.1	C406.1	3	3	3	3	2	2	3	3	3	3	3	3



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21EEP76.2	C406.2	3	3	3	3	2	2	3	3	3	3	3	3
21EEP76.3	C406.3	3	3	3	3	2	2	3	3	3	3	3	3
21EEP76.4	C406.4	3	3	3	3	2	2	3	3	3	3	3	3
21EEP76.5	C406.5	3	3	3	3	2	2	3	3	3	3	3	3
21EEP76	C406	3	3	3	3	2	2	3	3	3	3	3	3

Course Name: Technical Seminar

Subject Code: - 21EE81, C407 Year of Study 2024-

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21EE81.1	C407.1	3	3	3					1	3	3		
21EE81.2	C407.2	3	3	3					1	3	3		
21EE81.3	C407.3	3	3	3					1	3	3		
21EE81.4	C407.4	3	3	3					1	3	3		
21EE81.5	C407.5	3	3	3					1	3	3		
21EE81	C407	3	3	3					1	3	3		

Course Name: Industrial Internship

Subject Code: - 21INT82, C408 Year of Study 2024-25

CO – PO MAPPING													
CO Code	NBA Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
21INT82.1	C408.1		2	2	3	1	3		1	2	3	2	
21INT82.2	C408.2		2	2	3	1	3		1	2	3	2	
21INT82.3	C408.3		2	2	3	1	3		1	2	3	2	
21INT82.4	C408.4		2	2	3	1	3		1	2	3	2	
21INT82.5	C408.5		2	2	3	1	3		1	2	3	2	
21INT82	C408		2	2	3	1	3		1	2	3	2	



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3.1.2. CO-PSO matrices of courses selected in 3.1.1 (six matrices mentioned; one per semester from 3rd to 8th semester) (05)

Course Name: - Transform Calculus, Fourier series And Numerical Techniques

Subject Code: - 21MAT31, C201, Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21MAT31.1	C201.1	3	2	–
21MAT31.2	C201.2	3	3	–
21MAT31.3	C201.3	3	3	–
21MAT31.4	C201.4	3	3	–
21MAT31.5	C201.5	2	3	–
21MAT31	C201	3	2	–

Course Name: Analog Electronic Circuits and Op - Amps

Subject Code: - 21EE32, C202 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE32.1	C202.1	3	2	0
21EE32.2	C202.2	3	3	0
21EE32.3	C202.3	3	3	0
21EE32.4	C202.4	3	3	0
21EE32.5	C202.5	3	3	0
21EE32.6	C202.6	3	3	0
21EE32	C202	3	2.83	0



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Course Name: Electric Circuit Analysis

Subject Code: - 21EE33, C203 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE33.1	C203.1	3	2	0
21EE33.2	C203.2	3	2	0
21EE33.3	C203.3	3	2	0
21EE33.4	C203.4	3	2	0
21EE33.5	C203.5	3	2	0
21EE33	C203	3	2	

Course Name: Transformers and Generators

Subject Code: - 21EE34, C204 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE34.1	C204.1	3	2	0
21EE34.2	C204.2	3	2	0
21EE34.3	C204.3	3	2	0
21EE34.4	C204.4	3	2	0
21EE34.5	C204.5	3	2	0
21EE34	C204	3	2	

Course Name: Electrical Machines Laboratory -1

Subject Code: - 21EEL35, C205 Year of Study 2022-23

CO – PSO MAPPING



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CO Code	NBA Code	PSO1	PSO2	PSO3
21EEL35.1	C205.1	3	2	0
21EEL35.2	C205.2	3	2	2
21EEL35.3	C205.3	3	2	0
21EEL35.4	C205.4	3	2	0
21EEL35.5	C205.5	3	2	2
21EEL35	C205	3	2	0.8

Course Name: Social Connect and Responsibility

Subject Code: - 21SCR36, C206 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21SCR36.1	C206.1			3
21SCR36.2	C206.2			3
21SCR36.3	C206.3			3
21SCR36	C206			3

Course Name: - Samskrutika Kannada

Subject Code: - 21KSK37, C207 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21KSK37.1	C207.1	-	-	-
21KSK37.2	C207.2	-	-	-
21KSK37.3	C207.3	-	-	-
21KSK37.4	C207.4	-	-	-
21KSK37	C207	-	-	-



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Course Name: - Balake Kannada (Kannada for Usage)

Subject Code: -21KBK37, C208 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21KBK37.1	C208.1	-	-	-
21KBK37.2	C208.2	-	-	-
21KBK37.3	C208.3	-	-	-
21KBK37.4	C208.4	-	-	-
21KSBK37.5	C208.5	-	-	-
21KBK37	C208	-	-	-

Course Name: Circuit Laboratory using Pspic

Subject Code: - 21EEL382, C209 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE381.1	C209.1	2	2	3
21EE381	C209	2	2	3

Course Name: Complex Analysis, Probability and Linear Programming.

Subject Code: - 21MAT41, C210 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21MAT41.1	C210.1	2		
21MAT41.2	C210.2	2		
21MAT41.3	C210.3	2		
21MAT41.4	C210.4	2		
21MAT41.5	C210.5	2		



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21MAT41	C210	2		
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Course Name: Digital System Design

Subject Code: - 21EE42, C211 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE42.1	C211.1	3	2	0
21EE42.2	C211.2	3	2	0
21EE42.3	C211.3	3	2	0
21EE42.4	C211.4	3	2	0
21EE42.5	C211.5	2	3	0
21EE42.6	C211.6	3	2	0
21EE42.7	C211.7	3	2	2
21EE42	C211	2.86	2.14	0.29

Course Name: Microcontroller

Subject Code: - 21EE43, C212 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE43.1	C212.1	3	2	0
21EE43.2	C212.2	3	2	0
21EE43.3	C212.3	3	3	2
21EE43.4	C212.4	3	3	2
21EE43.5	C212.5	3	3	2
21EE43	C212	3	2.6	1.2

Course Name: Electric Motors

Subject Code: - 21EE44, C213 Year of Study 2022-23

CO – PSO MAPPING



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CO Code	NBA Code	PSO1	PSO2	PSO3
21EE44.1	C213.1	3	2	1
21EE44.2	C213.2	3	2	1
21EE44.3	C213.3	3	2	2
21EE44.4	C213.4	3	2	2
21EE44.5	C213.5	3	2	1
21EE44	C213	3	2	1.04

Course Name: Biology for Engineers

Subject Code: - 21BE45, C214 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21BE45.1	C214.1	1	1	1
21BE45.2	C214.2	1	1	1
21BE45.3	C214.3	1	1	1
21BE45.4	C214.4	1	1	1
21BE45	C214	1	1	1

Course Name: Electrical Machines Laboratory - 2

Subject Code: - 21EEL46, C215 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EEL46.1	C215.1	3	2	1
21EEL46.2	C215.2	3	2	1
21EEL46.3	C215.3	3	2	2
21EEL46.4	C215.4	3	2	2
21EEL46.5	C215.5	3	2	1
21EEL46	C215	3	2	1.40



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Course Name: Constitution of India and Professional Ethics

Subject Code: - 21CIP47, C216 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21CIP37.1	C216.1			3
21CIP37.2	C216.2			3
21CIP37.3	C216.3			3
21CIP37.4	C216.4			3
21CIP37.5	C216.5			3
21CIP37	C216			3

Course Name Simulation of Op-Amp Circuits

Subject Code: - 21EEL484, C217 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE481.1	C217.1	1		
21EE481	C217	1		

Course Name: Universal Human Values/ UNDERSTANDING HARMONY and ETHICAL HUMAN CONDUCT

Subject Code: - 21UHV49, C218 Year of Study 2022-23

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21UHV49.1	C218.1			3
21UHV49	C218			3

Course Name: Inter/Intra Institutional Internship

Subject Code: - 21INT49, C219 Year of Study 2022-23



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CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21INT49.1	C219.1	3	3	2
21INT49.2	C219.2	1	2	3
21INT49.3	C219.3	3	3	2
21INT49.4	C219.4	1	2	3
21INT49.5	C219.5	2	1	3
21INT49	C219	2	2.20	2.60

Course Name: Transmission and Distribution

Subject Code: - 21EE51, C301 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE51.1	C301.1	3	2	1
21EE51.2	C301.2	3	2	1
21EE51.3	C301.3	3	2	1
21EE51.4	C301.4	3	2	1
21EE51.5	C301.5	3	2	2
21EE51	C301	3	2	1.20

Course Name: Control Systems

Subject Code: - 21EE52, C302 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE52.1	C302.1	3	2	1



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21EE52.2	C302.2	3	2	1
21EE52.3	C302.3	3	2	1
21EE52.4	C302.4	3	2	1
21EE52.5	C302.5	3	2	1
21EE52.5	C302.6	3	3	2
21EE52.5	C302.7	3	3	2
21EE52.5	C302.8	3	2	1
21EE52.5	C302.9	3	2	2
21EE52.5	C302.10	3	3	2
21EE52	C302	3	2.2	1.4

Course Name: Power System Analysis - 1

Subject Code: - 21EE53, C303 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE53.1	C303.1	3	2	1
21EE53.2	C303.2	3	2	1
21EE53.3	C303.3	3	2	1
21EE53.4	C303.4	3	2	1
21EE53.5	C303.5	3	2	1
21EE53	C303	3	2	1

Course Name: Power Electronics

Subject Code: - 21EE54, C304 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE54.1	C304.1	3	2	1
21EE54.2	C304.2	3	2	1



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21EE54.3	C304.3	3	2	1
21EE54.4	C304.4	3	2	1
21EE54.5	C304.5	3	2	1
21EE54	C304	3	2	1

Course Name: Power Electronics Laboratory

Subject Code: - 21EEL55, C305 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EEL55.1	C305.1	3	2	1
21EEL55.2	C305.2	3	2	1
21EEL55.3	C305.3	3	2	1
21EEL55.4	C305.4	3	2	1
21EEL55.5	C305.5	3	2	1
21EEL55	C305	3	2	1

Course Name: Research Methodology & Intellectual Property Rights

Subject Code: - 21RMI56, C306 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21RMI56.1	C306.1	1	2	3
21RMI56.2	C306.2	1	2	3
21RMI56.3	C306.3	1	2	3
21RMI56.4	C306.4	1	2	3
21RMI56.5	C306.5	1	2	3
21RMI56	C306	1	2	3



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Course Name: Environmental Studies

Subject Code: - 21CIV57, C307 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21CIV57.1	C307.1	1	2	3
21CIV57.2	C307.2	1	2	3
21CIV57.3	C307.3	1	2	3
21CIV57.4	C307.4	1	2	3
21CIV57	C307	1	2	3

Course Name: Renewable Energy Projects

Subject Code: - 21EEP584, C308 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE582.1	C308.1	2	3	2
21EE582	C308	2	3	2

Course Name: Management and Entrepreneurship

Subject Code: - 21EE61, C309 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE61.1	C309.1	1	2	3
21EE61.2	C309.2	1	2	3
21EE61.3	C309.3	1	2	3
21EE61.4	C309.4	1	2	3
21EE61.5	C309.5	1	2	3
21EE61	C309	1	2	3



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Course Name: Power System Analysis - 2

Subject Code: - 21EE62, C310 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE62.1	C310.1	3	2	1
21EE62.2	C310.2	3	2	1
21EE62.3	C310.3	3	2	1
21EE62.4	C310.4	3	2	1
21EE62.5	C310.5	3	2	1
21EE62.6	C310.6	3	3	1
21EE62.7	C310.7	3	3	1
21EE62.8	C310.8	3	3	1
21EE62.9	C310.9	3	3	1
21EE62.10	C310.10	3	2	1
21EE62.11	C310.11	3	2	1
21EE62.12	C310.12	3	2	1
21EE62	C310	3	2.58	1

Course Name: Signals and Digital Signal Processing

Subject Code: - 21EE63, C311 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE63.1	C311.1	3	2	
21EE63.2	C311.2	3	2	
21EE63.3	C311.3	3	2	
21EE63.4	C311.4	3	2	
21EE63.5	C311.5	3	2	
21EE63	C311	3	2	



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Course Name: Electrical Engineering Materials

Subject Code: - 21EE644, C312 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE644.1	C312.1	3	2	1
21EE644.2	C312.2	3	2	1
21EE644.3	C312.3	3	2	1
21EE644.4	C312.4	2	2	1
21EE644	C312	2.75	2	1

Course Name: Renewable Energy Power Plant

Subject Code: - 21EE652, C313 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE652.1	C313.1	2	2	3
21EE652.2	C313.2	2	3	2
21EE652.3	C313.3	3	3	1
21EE652.4	C313.4	3	2	2
21EE652.5	C313.5	2	3	2
21EE652.6	C313.6	2	2	3
21EE652	C313	2.33	2.67	2

Course Name: Digital Signal Processing Laboratory

Subject Code: - 21EEL66, C314 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3



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21EEL66.1	C314.1	3	2	1
21EEL66.2	C314.2	3	2	1
21EEL66.3	C314.3	3	2	1
21EEL66.4	C314.4	3	2	1
21EEL66.5	C314.5	3	3	1
21EEL66.6	C314.6	3	2	1
21EEL66	C314	3	2.33	1

Course Name: Mini Project

Subject Code: - 21EEMP67, C315 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EEMP67.1	C315.1	3	2	1
21EEMP67.2	C315.2	3	3	1
21EEMP67.3	C315.3	2	2	3
21EEMP67.4	C315.4	3	2	2
21EEMP67.5	C315.5	1	1	3
21EEMP67	C315	2.4	2	2

Course Name: -Innovation/Entrepreneurship/Societal Internship

Subject Code: - 21INT68, C316 Year of Study 2023-24

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21INT68.1	C316.1	1	2	2
21INT68.2	C316.2	1	3	2
21INT68.3	C316.3	1	3	2
21INT68.4	C316.4	2	3	2



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21INT68.5	C316.5	1	1	3
21INT68	C316	1.2	2.4	2.2

Course Name: High Voltage and Power System Protection

Subject Code: - 21EE71, C401 Year of Study 2024-25

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE71.1	C401.1	3	2	1
21EE71.2	C401.2	3	2	1
21EE71.3	C401.3	3	2	1
21EE71.4	C401.4	3	2	1
21EE71.5	C401.5	3	2	1
21EE71.6	C401.6	3	2	1
21EE71.7	C401.7	3	2	1
21EE71.9	C401.8	3	2	2
21EE71	C401	3	2	1.22

Course Name: Power System Operation and Control

Subject Code: - 21EE72, C402 Year of Study 2024-25

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE72.1	C402.1	3	2	1
21EE72.2	C402.2	3	2	1
21EE72.3	C402.3	3	2	1
21EE72.4	C402.4	3	2	1
21EE72.5	C402.5	3	2	2
21EE72	C402	3	2	1.20



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Course Name: Power System Planning

Subject Code: - 21EE731, C403 Year of Study 2024-25

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE731.1	C403.1	3	3	1
21EE731.2	C403.2	2	3	2
21EE731.3	C403.3	3	2	1
21EE731.4	C403.4	3	2	1
21EE731.5	C403.5	3	2	2
21EE731.6	C403.6	3	3	1
21EE731	C403	2.67	2.50	1.67

Course Name: Industrial Drives and Applications

Subject Code: - 21EE744, C404 Year of Study 2024-25

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE744.1	C404.1	3	2	1
21EE744.2	C404.2	3	2	1
21EE744.3	C404.3	3	2	2
21EE744.4	C404.4	3	2	1
21EE744.5	C404.5	3	2	1
21EE744	C404	3	2	1.2



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Course Name: NON-TRADITIONAL MACHINING

Subject Code: - 21ME751, C405 Year of Study 2024-25

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21ME751.1	C405.1	2	3	1
21ME751.2	C405.2	3	3	1
21ME751.3	C405.3	3	3	1
21ME751.4	C405.4	3	3	1
21ME751.5	C405.5	3	3	1
21ME751	C405	2.80	3	1

Course Name: Project work

Subject Code: - 21EEP76, C406 Year of Study 2024-25

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EEP76.1	C406.1	3	2	1
21EEP76.2	C406.2	2	3	1
21EEP76.3	C406.3	1	2	3
21EEP76.4	C406.4	1	1	3
21EEP76.5	C406.5	1	1	3
21EEP76	C406	1.6	1.8	2.2

Course Name: Technical Seminar

Subject Code: - 21EE81, C407 Year of Study 2024-25

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21EE81.1	C407.1	2	2	1



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21EE81.2	C407.2	1	1	3
21EE81.3	C407.3	2	1	2
21EE81.4	C407.4	1	1	3
21EE81.5	C407.5	1	1	3
21EE81	C407	1.4	1.2	2.4

Course Name: Industrial Internship

Subject Code: - 21INT822, C408 Year of Study 2024-25

CO – PSO MAPPING				
CO Code	NBA Code	PSO1	PSO2	PSO3
21INT822.1	C408.1	3	2	1
21INT822.2	C408.2	3	2	1
21INT822.3	C408.3	2	2	2
21INT822.4	C408.4	1	1	3
21INT822.5	C408.5	1	1	3
21INT822	C408	2	1.6	2