



**CHILDREN'S EDUCATION SOCIETY (Regd.)
THE OXFORD COLLEGE OF ENGINEERING**

(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by A.I.C.T.E. New Delhi.

Recognised by UGC Under Section 2(f)

Bommanahalli, Hosur Road, Bangalore - 560 068.

Ph: 080-61754601/602, Fax: 080 - 25730551

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CO-PO MAPPING

Academic year 2022-23

DEPARTMENT OF AIML

Course Name: C101 (BMATS101- Mathematics-I For Cse Stream)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101.1	3	2	2	1	-	-	-	-	-	-	-	-
C101.2	3	2	1	1	-	-	-	-	-	-	-	-
C101.3	3	3	2	1	1	-	-	-	-	-	-	-
C101.4	2	2	2	2	-	-	-	-	-	-	-	-
C101.5	2	2	1	2	-	-	-	-	-	-	-	-

Course Name: C102 (BPHYS102- Physics for CSE stream)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C102.1	3	3	3	-	-	-	-	-	-	-	-	3
C102.2	3	3	2	-	-	-	-	-	-	-	-	2
C102.3	3	3	3	-	-	-	-	-	-	-	-	3
C102.4	3	2	2	-	-	-	-	-	-	-	-	2
C102.5	3	3	3	-	-	-	-	-	-	-	-	3

Course Name: C103 (BPOPS103- Principles of Programming Using C)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103.1	2	1	-	-	-	-	-	-	-	-	-	1
C103.2	2	2	2	2	-	-	-	-	-	-	-	2
C103.3	2	2	2	2	-	-	-	-	-	-	-	3
C103.4	3	2	-	-	-	-	-	-	-	-	-	-
C103.5	3	2	-	-	-	-	-	-	-	-	-	-

Course Name: C104 (BESCK104C - Introduction to Electronics Communication)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104.1	1.6	3	2	1								
C104.2	1.6	3	2	2								
C104.3	1.6	3	3	3	2	1						
C104.4	1.6	3	3	3	2	3				1		
C104.5	1.6	3	2	3	2	3				1		

Course Name: C105 (BETCK105H - Introduction to Internet of Things (IOT))

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C105.1	3	2	2	-	-	-	-	-	-	-	-	-
C105.2	2	3	2	-	-	-	-	-	-	-	-	-
C105.3	2	2	2	-	-	-	-	-	-	-	-	-
C105.4	2	2	2	2	-	-	-	-	-	-	-	-
C105.5	2	2	2	2	-	-	-	-	-	-	-	-

Course Name: C106 (BENGK106- Communicative English)



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C218.2	3	2	2	-	-	-	-	-	-	-	-	2
C218.3	3	2	2	-	-	-	-	-	-	-	-	2
C218.4	3	2	2	-	-	-	-	-	-	-	-	2
C218.5	3	2	2	-	-	-	-	-	-	-	-	2

Course Name: C219(Universal Human Values-21UH49)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C219.1	-	-	-	-	-	-	3	2	3	-	-	1
C219.2	-	-	-	-	-	3	3	1	1	-	-	1
C219.3	-	-	-	-	-	3	3	2	1	-	-	1
C219.4	-	-	-	-	-	2	2	3	2	-	-	1
C219.5	-	-	-	-	-	-	-	3	-	-	-	1



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Course Name: C105 (BPLCK105B- Introduction to Python Programming)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C105.1	3	2	2	-	-	-	-	-	-	-	-	-
C105.2	2	3	2	-	-	-	-	-	-	-	-	-
C105.3	3	2	2	-	-	-	-	-	-	-	-	-
C105.4	3	2	2	-	-	-	-	-	-	-	-	-

Course Name: C106 (BENCK106-Communicative English)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C106.1	-	-	-	-	-	-	-	-	2	2	-	2
C106.2	-	-	-	-	-	-	-	-	2	2	-	2
C106.3	-	-	-	-	-	-	-	-	2	2	-	2
C106.4	-	-	-	-	-	-	-	-	2	2	-	2
C106.5	-	-	-	-	-	-	-	-	2	2	-	2

Course Name: C107 (SAMSKRUTHIKA KANNADABKSKK107)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C107.1	-	-	-	-	-	-	-	-	2	2	-	-
C107.2	-	-	-	-	-	-	-	-	2	2	-	-
C107.3	-	-	-	-	-	-	-	-	2	2	-	-
C107.4	-	-	-	-	-	-	-	-	2	2	-	-
C107.5	-	-	-	-	-	-	-	-	2	2	-	-

Course Name: C107 (BALAKE KANNADA-BKBKK107)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C107.1	-	-	-	-	-	-	-	-	2	2	-	2
C107.2	-	-	-	-	-	-	-	-	2	2	-	2
C107.3	-	-	-	-	-	-	-	-	2	2	-	2
C107.4	-	-	-	-	-	-	-	-	2	2	-	2
C107.5	-	-	-	-	-	-	-	-	2	2	-	2

Course Name: C108 (Scientific Foundations of Health-BSFHK158)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C108.1				-	-	-	-	-	3	2	-	2
C108.2				-	-	-	-	-	3	2	-	2



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C108.3				-	-	-	-	-	3	2	-	2
C108.4				-	-	-	-	-	3	2	-	2
C108.5				-	-	-	-	-	3	2	-	2

Course Name :C109 (Mathematics-II For CSE Stream)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C109.1	3	2	2	1	1	-	-	-	-	-	-	2
C109.2	3	2	2	1	1	-	-	-	-	-	-	2
C109.3	3	2	3	2	2	-	-	-	-	-	-	2
C109.4	3	2	2	1	2	-	-	-	-	-	-	2
C109.5	3	2	2	1	2	-	-	-	-	-	-	2

Course Name: C110 (Physics For CSE Stream)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C110.1	3	3	2	-	-	-	-	-	-	-	-	2
C110.2	3	3	3	-	-	-	-	-	-	-	-	2
C110.3	3	3	3	-	-	-	-	-	-	-	-	3
C110.4	3	3	3	-	-	-	-	-	-	-	-	3
C110.5	3	3	3	-	-	-	-	-	-	-	-	3

Course Name: C111 (BBEE203-Basic Electronics)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111.1	3	2	2	-	-	-	-	-	-	-	-	-
C111.2	2	3	2	-	-	-	-	-	-	-	-	-
C111.3	3	2	2	-	-	-	-	-	-	-	-	-
C111.4	3	2	2	-	-	-	-	-	-	-	-	-
C111.5	3	2	2	-	-	-	-	-	-	-	-	-

Course Name: C112 (BESCK204E-Introduction to C Programming)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C112.1	3	2	2	-	-	-	-	-	-	-	-	-
C112.2	2	3	2	-	-	-	-	-	-	-	-	-
C112.3	3	2	2	-	-	-	-	-	-	-	-	-
C112.4	3	2	2	-	-	-	-	-	-	-	-	-
C112.5	3	2	2	-	-	-	-	-	-	-	-	-

Course Name: C113 (BETCK205H-Introduction to Internet of Things (IOT))

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
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C113.1	3	2	2	-	-	-	-	-	-	-	-	-
C113.2	2	3	2	-	-	-	-	-	-	-	-	-
C113.3	2	2	2	-	-	-	-	-	-	-	-	-
C113.4	2	2	2	2	-	-	-	-	-	-	-	-
C113.5	2	2	2	2	-	-	-	-	-	-	-	-

Course Name: C114 (BPWSK206-Professional Writing Skills in English)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C114.1	-	-	-	-	-	-	-	-	2	3	-	1
C114.2	-	-	-	-	-	-	-	-	2	3	-	1
C114.3	-	-	-	-	-	-	-	-	2	3	-	1
C114.4	-	-	-	-	-	-	-	-	3	3	-	2
C114.5	-	-	-	-	-	-	-	-	2	3	-	1

Course Name: C115 (BICOK207-Indian Constitution)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C115.1	-	-	-	-	-	-	-	-	2	2	-	2
C115.2	-	-	-	-	-	-	-	-	2	2	-	2
C115.3	-	-	-	-	-	-	-	-	2	2	-	2
C115.4	-	-	-	-	-	-	-	-	2	2	-	2
C115.5	-	-	-	-	-	-	-	-	2	2	-	2

Course Name: C116 (BIDTK258-INNOVATION and DESIGN THINKING)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C116.1	-	-	-	-	-	-	-	-	2	2	-	-
C116.2	-	-	-	-	-	-	-	-	2	2	-	-
C116.3	-	-	-	-	-	-	-	-	2	2	-	-
C116.4	-	-	-	-	-	-	-	-	2	2	-	-
C116.5	-	-	-	-	-	-	-	-	2	2	-	-

Course Name: C201 (Transform Calculus, Fourier series and numerical techniques-21MAT31)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201.1	3	2	1	1	-	-	-	-	-	-	-	-
C201.2	3	2	1	1	-	-	-	-	-	-	-	2
C201.3	3	3	2	1	1	-	-	-	-	-	-	2
C201.4	3	2	2	1	-	-	-	-	-	-	-	-
C201.5	3	2	1	1	-	-	-	-	-	-	-	-

Course Name: C202 (Unit Operations + Lab - 21BT32)



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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202.1	1	1	-	1	-	-	-	-	-	-	-	-
C202.2	2	1	-	-	-	-	-	-	-	-	-	-
C202.3	3	3	-	2	-	-	-	-	1	-	-	1
C202.4	1	-	1	-	-	-	-	1	1	-	-	1
C202.5	2	1	-	-	-	-	-	-	-	-	-	1

Course Name: C203 (Biochemistry + Lab-21BT33)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203.1	2	-	-	-	-	-	-	-	-	-	-	-
C203.2	-	-	-	2	-	-	-	-	-	-	-	-
C203.3	-	-	-	2	-	-	-	-	-	-	-	-
C203.4	-	-	-	2	-	-	-	-	-	-	-	-

Course Name: C204 (Microbiology – 21BT34)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	-	1	-	-	-	-	-	-	-	-	-	-
C204.2	-	2	-	-	2	-	-	-	-	-	-	-
C204.3	-	-	-	-	-	2	2	-	-	-	-	-

Course Name: C205 (Microbiology Lab – 21BTL35)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205.1	-	-	2	-	2	2	-	-	-	-	-	-
C205.2	-	-	2	-	2	2	-	-	-	-	-	-
C205.3	-	-	-	-	-	2	3	-	-	-	-	-

Course Name: C206 (Social Connect and Responsibility - 21UH36/21SCR36)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C206.1	-	-	-	-	-	-	1	-	-	-	-	-
C206.2	-	-	-	-	-	-	1	-	-	-	-	-
C206.3	-	-	-	-	-	-	-	-	2	-	-	-

Course Name: C207 (Samskruthika Kannada-21KSK37)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C207.1	-	-	-	-	-	-	-	-	-	1	-	-
C207.2	-	-	-	-	-	-	-	-	-	1	-	-

Course Name: C207 (Balake Kannada-21KBK37)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C207.1	-	-	-	-	-	-	-	-	-	1	-	-
C207.2	-	-	-	-	-	-	-	-	-	1	-	-

Course Name: C208 (Linux Programming for Biologists – 21BT384)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C208.1	3	-	2	-	2	-	-	-	-	-	-	3
C208.2	2	-	-	2	2	-	-	-	-	-	-	3
C208.3	3	-	-	-	2	-	-	-	-	-	-	3

Course Name: C209 (Complex analysis, probability & statistical method-21MAT41)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C209.1	3	3	1	2	2	-	-	-	-	-	-	2
C209.2	3	3	2	1	1	-	-	-	-	-	-	2



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Course Name: C217 (Universal Human Values -21UH49)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C217.1	-	-	-	-	-	-	-	3	-	-	-	3
C217.2	-	-	-	-	-	-	-	2	-	-	-	2
C217.3	-	-	-	-	-	2	1	-	-	-	-	-
C217.4	-	-	-	-	-	2	2	-	-	-	-	1

Course Name: C301 (BIO-BUSINESS AND ENTREPRENEURSHIP-18BT51)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	-	-	-	-	-	1	-	1	3	-	3	-
C301.2	-	3	3	3	-	3	-	3	-	-	3	-
C301.3	-	-	-	-	-	3	-	3	-	-	3	-
C301.4	-	-	-	-	-	2	-	2	2	2	3	-
C301.5	-	-	3	-	-	3	-	2	2	2	3	-

Course Name: C302 (BIOKINETICS & BIOREACTION ENGG - 18BT52)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	3	2	2	3	-	-	-	-	1	-	-	2
C302.2	2	3	2	3	-	-	-	-	-	2	-	1
C302.3	3	3	3	3	-	2	1	1	1	-	1	2
C302.4	3	3	2	3	-	1	2	-	-	1	1	2
C302.5	2	1	2	1	-	-	-	-	-	-	-	2

Course Name: C303 (ENZYME TECHNOLOGY & BIOTRANSFORMATION-18BT53)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	1	1	2	2	-	-	2	-	1	2	-	-
C303.2	1	1	2	2	-	-	2	-	1	2	-	-
C303.3	1	1	2	2	-	3	2	-	1	2	-	3
C303.4	3	3	3	2	2	2	3	-	2	2	-	-
C303.5	3	3	3	2	2	2	3	-	2	2	-	-

Course Name: C304 (GENOMICS & PROTEOMICS-18BT54)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	2	3	3	1	2	2	-	2	-	2	-	2
C304.2	2	2	2	-	2	-	-	-	-	-	-	2
C304.3	3	3	2	2	1	-	-	-	-	2	-	2
C304.4	3	3	3	2	2	2	-	2	-	-	-	2
C304.5	2	1	1	2	2	-	-	-	-	-	-	1

Course Name: C305 (BIOANALYTICAL TECHNIQUES-18BT55)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	-	1	-	1	-	-	-	2	-	-	2	1
C305.2	2	1	3	-	2	3	3	3	2	1	1	-
C305.3	-	-	-	2	-	1	1	2	-	-	-	-
C305.4	1	2	-	3	2	-	-	2	-	2	-	3
C305.5	-	3	2	-	-	2	-	-	-	-	1	-

Course Name: C306 (GENETIC ENGG &APPLICATION-18BT56)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
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C306.1	3	3	3	3	3	3	3	3	3	2	-	-	3
C306.2	3	3	3	3	3	3	3	3	3	2	-	-	3
C306.3	3	3	3	3	3	-	-	-	-	-	-	-	3
C306.4	3	3	3	3	3	3	3	3	3	2	2	1	3
C306.5	3	3	3	3	3	3	3	3	3	3	1	2	3

Course Name: C307 (BIOKINETICS & ENZYME TECH LAB-18BTL57)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307.1	3	3	3	3	3	-	-	-	-	-	-	3
C307.2	3	3	3	3	3	2	2	-	-	-	-	3
C307.3	3	3	3	3	3	3	3	2	2	-	-	2
C307.4	3	3	3	3	3	-	-	-	2	-	-	2
C307.5	2	2	2	2	2	-	-	-	2	2	-	2

Course Name: C308 (GENETIC ENGG & CELL CULTURE LAB-18BTL58)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C308.1	-	-	-	-	-	-	-	-	2	-	-	2
C308.2	2	3	3	3	3	3	3	-	2	-	-	2
C308.3	3	3	3	3	3	3	3	-	2	-	-	2
C308.4	3	3	3	3	3	3	3	-	2	-	-	2
C308.5	3	3	3	3	3	3	3	-	2	-	-	2

Course Name: C309 (BIOPROCESS CONTROL AND AUTOMATION-18BT61)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C309.1	3	-	2	-	2	-	-	-	-	-	-	-
C309.2	3	3	2	-	-	-	-	-	-	-	-	-
C309.3	3	3	2	-	-	-	-	-	-	-	-	-
C309.4	3	3	-	2	-	-	-	-	-	-	-	-
C309.5	3	3	2	-	-	-	-	-	-	-	-	-

Course Name: C310 (BIOPROCESS EQUIPMENT DESIGN & CAED-18BT62)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C310.1	3	-	-	-	2	-	-	-	-	-	-	-
C310.2	3	-	-	-	2	-	-	-	-	-	-	-
C310.3	3	3	2	-	-	-	-	-	-	-	-	-
C310.4	3	-	-	-	2	-	-	-	-	-	-	-
C310.5	3	3	3	-	2	-	-	-	-	-	-	-

Course Name: C311 (BIOINFORMATICS-18BT63)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	3	3	-	-	2	-	-	-	-	-	-	-
C311.2	-	3	2	-	2	-	-	-	-	-	-	-
C311.3	2	-	-	-	3	-	-	-	-	-	-	-
C311.4	-	-	3	-	3	-	-	-	-	-	-	-
C311.5	2	-	-	-	2	3	-	-	-	-	-	-

Course Name: C312 (FOOD PROCESS ENGINEERING-18BT641)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	-	2	2	-	-	2	-	1	-	1	-	2
C312.2	-	-	-	-	2	2	-	-	-	-	-	2



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C312.3	-	-	-	-	3	2	-	-	-	-	-	1
C312.4	-	-	-	-	2	-	-	-	-	-	-	-

Course Name: C313 (JAVA PROGRAMMING-18BT654)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313.1	1	1	1	-	-	-	-	-	-	-	-	2
C313.2	2	-	1	1	-	1	-	-	-	-	-	2
C313.3	3	2	-	1	-	-	-	-	-	-	-	-
C313.4	1	1	1	-	-	-	-	-	-	1	-	-
C313.5	2	1	1	-	-	-	-	-	-	-	-	-

Course Name: C314 (BPCA LAB-18BTL66)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	2	2	-	-	-	-	-	-	-	-	-	-
C314.2	3	-	2	-	-	-	-	-	-	-	-	-
C314.3	3	-	-	-	2	-	-	-	-	-	-	-
C314.4	3	2	-	2	-	-	-	-	-	-	-	-

Course Name: C315 (BIOINFORMATICS LAB-18BTL67)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	3	-	-	-	-	-	-	-	-	-	-	-
C315.2	-	1	-	-	3	-	-	-	-	-	-	-
C315.3	-	2	-	2	-	-	-	-	-	-	-	-
C315.4	-	-	3	-	2	-	-	-	-	-	-	-

Course Name: C316 (MINI PROJECT – 18BT68)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316.1	-	3	-	-	-	-	-	-	-	-	-	-
C316.2	-	2	-	2	-	-	2	-	-	-	-	-
C316.3	-	-	3	-	-	3	-	-	-	-	-	-
C316.4	-	-	3	-	3	-	-	-	-	-	-	-
C316.5	-	-	-	-	-	3	3	2	-	-	-	-

Course Name: C401 (BIOPROCESS ENGINEERING-18BT71)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	3	3	3	-	-	-	-	-	-	-	-	-
C401.2	-	-	-	-	-	-	2	-	-	-	-	-
C401.3	-	2	-	2	-	-	-	-	-	-	-	-
C401.4	2	-	-	-	-	2	1	-	-	-	-	-
C401.5	-	2	-	2	-	-	-	-	1	-	-	-

Course Name: C402 CLINICAL & PHARMACEUTICAL BIOTECHNOLOGY-18BT72)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	2	-	-	-	2	-	-	-	-	-	-	-
C402.2	2	-	-	-	2	-	-	-	-	-	-	-
C402.3	1	-	-	2	-	-	-	-	-	-	-	-
C402.4	1	-	-	-	-	2	-	-	-	-	-	-
C402.5	2	-	-	-	-	3	-	-	-	-	-	-

Course Name: C403 (PROCESS EQUIPMENT & PLANT DESIGN -18BT731)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
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C409.1	2	-	-	-	-	-	2	-	-	-	-	-
C409.2	2	-	-	-	3	-	-	-	-	-	-	-
C409.3	-	-	-	-	-	2	3	-	-	-	-	-
C409.4	1	-	-	-	-	2	-	-	-	1	-	-
C409.5	-	-	-	-	-	2	3	-	-	-	-	-

Course Name: C410 (PROJECT WORK PHASE - 2-18BTP83)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C410.1	-	3	-	-	-	-	-	-	-	-	-	-
C410.2	-	2	-	2	-	-	2	-	-	-	-	-
C410.3	-	-	3	-	-	3	-	-	-	-	-	-
C410.4	-	-	3	-	3	-	-	-	-	-	-	-
C410.5	-	-	-	-	-	3	3	2	-	-	-	-

Course Name: C411 (TECHNICAL SEMINAR -18BTS84)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	-	2	2	-	2	-	1	-	2	-	-	-
C411.2	-	2	-	1	-	-	1	-	-	-	-	-
C411.3	-	-	-	-	-	-	-	-	-	2	-	-
C411.4	-	-	-	-	-	-	-	-	-	2	-	-
C411.5	-	2	-	-	-	-	-	-	-	-	-	-

Course Name: C412 (INTERNSHIP -18BTI85)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	-	3	-	-	-	-	-	-	-	-	-	-
C412.2	-	2	-	2	-	-	2	-	-	-	-	-
C412.3	-	-	3	-	-	3	-	-	-	-	-	-
C412.4	-	-	3	-	3	-	-	-	-	-	-	-
C412.5	-	-	-	-	-	3	3	2	-	-	-	-



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C105.2	2	3	2	-	-	-	-	-	-	-	-	-
C105.3	3	2	2	-	-	-	-	-	-	-	-	-
C105.4	3	2	2	-	-	-	-	-	-	-	-	-

Course Name:C106(BENGGK106-Communicative English)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C106.1	-	-	-	-	-	-	-	-	2	2	-	2
C106.2	-	-	-	-	-	-	-	-	2	2	-	2
C106.3	-	-	-	-	-	-	-	-	2	2	-	2
C106.4	-	-	-	-	-	-	-	-	2	2	-	2
C106.5	-	-	-	-	-	-	-	-	2	2	-	2

Course Name:C107(SAMSKRUTHIKA KANNADABKSKK107)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C107.1	-	-	-	-	-	-	-	-	2	2	-	-
C107.2	-	-	-	-	-	-	-	-	2	2	-	-
C107.3	-	-	-	-	-	-	-	-	2	2	-	-
C107.4	-	-	-	-	-	-	-	-	2	2	-	-
C107.5	-	-	-	-	-	-	-	-	2	2	-	-

Course Name:C107(BALAKE KANNADA-BKBKK107)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C107.1	-	-	-	-	-	-	-	-	2	2	-	2
C107.2	-	-	-	-	-	-	-	-	2	2	-	2
C107.3	-	-	-	-	-	-	-	-	2	2	-	2
C107.4	-	-	-	-	-	-	-	-	2	2	-	2
C107.5	-	-	-	-	-	-	-	-	2	2	-	2

Course Name:C108(Scientific Foundations of Health-BSFHK158)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C108.1				-	-	-	-	-	3	2	-	2
C108.2				-	-	-	-	-	3	2	-	2
C108.3				-	-	-	-	-	3	2	-	2



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C114.5	3	2	2	-	-	-	-	-	-	-	-	-
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Course Name: C115(BETCK205H-Introduction to Internet of Things (IOT))

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C115.1	3	2	2	-	-	-	-	-	-	-	-	-
C115.2	2	3	2	-	-	-	-	-	-	-	-	-
C115.3	2	2	2	-	-	-	-	-	-	-	-	-
C115.4	2	2	2	2	-	-	-	-	-	-	-	-
C115.5	2	2	2	2	-	-	-	-	-	-	-	-

Course Name: C116(BPWSK206-Professional Writing Skills in English)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C116.1	-	-	-	-	-	-	-	-	2	2	-	-
C116.2	-	-	-	-	-	-	-	-	2	2	-	-
C116.3	-	-	-	-	-	-	-	-	2	2	-	-
C116.4	-	-	-	-	-	-	-	-	2	2	-	-
C116.5	-	-	-	-	-	-	-	-	2	2	-	-

Course Name: C117(BICOK207-Indian Constitution)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C117.1	-	-	-	-	-	-	-	-	2	2	-	2
C117.2	-	-	-	-	-	-	-	-	2	2	-	2
C117.3	-	-	-	-	-	-	-	-	2	2	-	2
C117.4	-	-	-	-	-	-	-	-	2	2	-	2
C117.5	-	-	-	-	-	-	-	-	2	2	-	2

Course Name: C118(BIDTK258-INNOVATION and DESIGN THINKING)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101.1	-	-	-	-	-	-	-	-	2	2	-	-
C101.2	-	-	-	-	-	-	-	-	2	2	-	-
C101.3	-	-	-	-	-	-	-	-	2	2	-	-
C101.4	-	-	-	-	-	-	-	-	2	2	-	-
C101.5	-	-	-	-	-	-	-	-	2	2	-	-

Course Name: C201(21MAT31- Transform Calculus, Fourier Series and Numerical



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C354.5	3	2	3	-	1		1	-	-	-	-	-
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Course Name: C355 (18CV55 – Municipal Wastewater Engineering

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C355.1	2	1	-	-	2	-	-	-	1	2	-	-
C355.2	-	2	-	-	2	-	-	-	-	-	-	-
C355.3	2	-	-	-	-	-	-	-	-	-	-	-
C355.4	-	1	-	-	1	-	-	-	1	1	-	-
C355.5	2		-	-	-	-	-	-	-	-	-	-

Course Name: C356 (18CV56 – Highway Engineering

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C356.1	2	3	-	2	-	-	-	2	1	3	-	-
C356.2	3	2	-	1	-	-	-	2	2	3	-	-
C356.3	2	3		2	-	-	-	2	2	3	-	-
C356.4	3	2	-	2	-	-	-	2	3	2	-	-
C356.5	2	3	-	2	-	-	-	2	3	2	-	-

Course Name: C357 (18CVL57 – – Surveying Practice

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C357.1	2	3	-	-	-	-	-	-	-	-	2	2
C357.2	2	3		-	-	-	-	3	-	-	2	2
C357.3	2	-	-	-	-	-	-	3	-	-	2	2
C357.4	2	-	-	-	-	-	-	-	-	-	1	2

Course Name: C358 (18CVL58 – Concrete and Highway Materials Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C358.1	2	3	-	-	-	-	-	-	-	-	-	2
C358.2	2	-		-	-	-	2	-	-	-	-	2
C358.3	2	3	2	-	-	-	-	-	-	-	-	2
C358.4	2	-	-	-	-	-	2	-	-	-	-	2
C358.5	2	-	-	-	2	-	-	-	-	-	-	2
C358.6	2	-	-	-	-	-	2	-	-	-	-	2

Course Name: C361 (18CV61 – Design of Steel Structural Elements

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C361.1	3	3	2	-	-	-	-	-	-	-	-	-
C361.2	3	3	2	-	-	-	-	-	-	-	-	-
C361.3	3	3	2	-	-	-	-	-	-	-	-	-
C361.4	3	3	2	-	-	-	-	-	-	-	-	-
C361.5	3	3	2	-	-	-	-	-	-	-	-	-

Course Name: C362 (18CV62 Applied Geotechnical Engineering)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C362.1	3	3	3	-	3	-	-	-	-	3	-	3
C362.2	3	3	2	-		-	-	-	-	-	-	
C362.3	3	2	2	-		-	-	-	-	-	-	
C362.4	3	3	3	-		-	-	-	-	2	-	3
C362.5	3	3	3	2	3	-	-	-	-	-	-	

Course Name: C363 (18CV63 Hydrology and Irrigation Engineering

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C363.1	2	1	-	1	-	-	1	-	-	-	-	-
C363.2	3	3	-	2	-	-	1	-	-	-	-	-
C363.3	3	2	-	2	-	-	1	-	-	-	-	-



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C473.2	3	3	3	-	-	-	-	-	-	-	-	-
C473.3	3	3	3	-	-	-	-	-	-	-	-	-
C473.4	3	3	3	3	-	-	2	-	-	-	-	3
C473.5	3	3	3	2	-	-	3	-	3	-	-	3

Course Name: C475 (18CV745) - Urban Transportation and Planning

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C474.1	3	3	3	-	-	-	-	-	1	1	1	-
C474.2	3	3	3	-	-	-	-	-	1	1	1	-
C474.3	3	3	3	-	-	-	-	-	1	1	1	-
C474.4	2	2	2	-	-	-	-	-	1	1	1	-
C474.5	2	1	1						1	1	1	

Course Name: C476 (18CVL76 Computer Aided Detailing of Structures)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C476.1	3	2	-	-	3	-	-	-	-	-	-	-
C476.2	3	2	-	-	3	-	-	-	-	-	-	-
C476.3	3	2	-	-	3	-	-	-	-	-	-	-

Course Name: C477 (18CVL77 Geotechnical Engineering Laboratory)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C477.1	3	-	-	-	-	-	-	-	-	-	-	-
C477.2	2	3	-	-	-	-	-	2	3	3	-	-
C477.3	1	-	3	3	-	-	-	2	3	2	-	-
C477.4	1	3	3	-	-	-	-	2	3	3	-	-
C477.5	1	3	-	-	-	-	-	2	3	2	-	-

Course Name: C478 (18CVP78 - Project Work

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C478.1	3	3	3	-	3	3	-	3	3	2	-	-
C478.2	3	3	3	1	3	3	1	3	3	2	-	-
C478.3	3	3	2	1	2	2	-	3	2	2	-	-
C478.4	2	2	2	1	3	3	1	2	2	2	-	-
C478.5	2	2	2	2	2	-	-	-	2	2	-	-

Course Name: C481 (18CV81 -

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C481.1	3	3	3	-	-	-	-	-	-	-	-	-
C481.2	3	3	3	-	-	-	-	-	-	-	-	-
C481.3	3	3	3	-	-	-	-	-	-	-	-	-
C481.4	3	3	3	-	-	-	-	-	-	-	-	-
C481.5	3	3	3	-	-	-	-	-	-	-	-	-

Course Name: C482 (18CV82 - Design of Pre-Stressed Concrete Elements

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C482.1	3	3	3	-	-	-	-	-	-	-	-	3
C482.2	3	3	3	-	-	-	-	-	-	-	-	-
C482.3	3	3	3	-	-	-	-	-	-	-	-	-
C482.4	3	3	3	3	-	-	2	-	-	-	-	3
C482.5	3	3	3	2	-	-	3	-	3	-	-	3

Course Name: C483 (18CV83 Project Work)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
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C483.1	3	3	3	-	3	3	-	3	3	2	-	-
C483.2	3	3	3	1	3	3	1	3	3	2	-	-
C483.3	3	3	2	1	2	2	-	3	2	2	-	-
C483.4	2	2	2	1	3	3	1	2	2	2	-	-
C483.5	2	2	2	2	2	-	-	-	2	2	-	-
C483.6	3	3	3	-	3	3	-	3	3	2	-	-

Course Name: C484 (18CVS84 Seminar)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C484.1	3	3	-	3	3	-	1	-	-	2	2	2
C484.2	3	3	1	3	3	1	2	-	2	2	2	3
C484.3	3	2	1	2	2	-	2	1	-	1	1	2
C484.4	2	2	1	3	3	1	3	-	2	2	2	3
C484.5	3	3	-	2	3	-	3	1	-	2	2	3
C484.6	3	3	-	2	3	-	1	1	-	1	1	2

Course Name: C485 (18CVI85-Internship)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C485.1	3	3	-	3	3	-	1	-	-	2	2	2
C485.2	3	3	1	3	3	1	2	-	2	2	2	3
C485.3	3	2	1	2	2	-	2	1	-	1	1	2
C485.4	2	2	1	3	3	1	3	-	2	2	2	3
C485.5	3	3	-	2	3	-	3	1	-	2	2	3
C485.6	3	3	-	2	3	-	1	1	-	1	1	2



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Course Name: C101 (BMATS101- Mathematics-I For Cse Stream)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101.1	3	2	2	1	-	-	-	-	-	-	-	-
C101.2	3	2	1	1	-	-	-	-	-	-	-	-
C101.3	3	3	2	1	1	-	-	-	-	-	-	-
C101.4	2	2	2	2	-	-	-	-	-	-	-	-
C101.5	2	2	1	2	-	-	-	-	-	-	-	-

Course Name: C102 (BPHYS102- Physics for CSE stream)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C102.1	3	3	3	-	-	-	-	-	-	-	-	3
C102.2	3	3	2	-	-	-	-	-	-	-	-	2
C102.3	3	3	3	-	-	-	-	-	-	-	-	3
C102.4	3	2	2	-	-	-	-	-	-	-	-	2
C102.5	3	3	3	-	-	-	-	-	-	-	-	3

Course Name: C103 (BPOPS103- Principles of Programming Using C)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103.1	2	1	-	-	-	-	-	-	-	-	-	1
C103.2	2	2	2	2	-	-	-	-	-	-	-	2
C103.3	2	2	2	2	-	-	-	-	-	-	-	3
C103.4	3	2	-	-	-	-	-	-	-	-	-	-
C103.5	3	2	-	-	-	-	-	-	-	-	-	-

Course Name: C104 (BESCK104C - Introduction to Electronics Communication)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104.1	1.6	3	2	1								
C104.2	1.6	3	2	2								
C104.3	1.6	3	3	3	2	1						
C104.4	1.6	3	3	3	2	3				1		
C104.5	1.6	3	2	3	2	3				1		

Course Name: C105 (BETCK105H - Introduction to Internet of Things (IOT))

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C105.1	3	2	2	-	-	-	-	-	-	-	-	-
C105.2	2	3	2	-	-	-	-	-	-	-	-	-
C105.3	2	2	2	-	-	-	-	-	-	-	-	-
C105.4	2	2	2	2	-	-	-	-	-	-	-	-
C105.5	2	2	2	2	-	-	-	-	-	-	-	-

Course Name: C106 (BENGK106- Communicative English)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C106.1	-	-	-	-	-	-	-	-	2	2	-	2
C106.2	-	-	-	-	-	-	-	-	2	2	-	2



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C206.2	1	-	2	-	-	-	-	-	-	-	-	1
C206.3	1	1	-	1	-	-	-	-	-	-	-	-
C206.4	1	1	1	-	-	-	-	-	-	1	-	-
C206.5	2	1	2	-	-	-	-	-	-	-	-	-

Course Name: C207 (Social Connect and Responsibility- 21SCR36)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C207.1	1	-	1	-	-	2	-	-	-	1	-	2
C207.2	1	-	1	-	-	3	-	-	-	2	-	2
C207.3	1	-	1	-	-	2	-	-	-	2	-	2

Course Name: C208 (Constitution of India and Professional Ethics-21CIP37)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C208.1	-	-	-	-	-	1	-	2	-	-	-	1
C208.2	-	-	-	-	-	2	-	2	-	-	-	1
C208.3	-	-	-	-	-	2	-	1	-	-	-	1
C208.4	-	-	-	-	-	2	-	2	-	-	-	3
C208.5	-	-	-	-	-	2	-	2	-	-	-	1

Course Name: C301 (Management And Entrepreneurship For It Industry-18CS51)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	1	1	2	2	2	2	2	2	1	2	-	-
C301.2	2	2	2	2	1	1	2	1	1	2	1	-
C301.3	2	1	1	1	2	2	2	2	1	1	1	-
C301.4	2	2	1	1	1	1	1	2	1	-	-	-
C301.5	2	2	2	1	2	2	1	1	1	1	2	1

Course Name: C302 (Computer Network and Security-18CS52)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	1	1	2	1	1	1	-	1	1	1	1	2
C302.2	1	2	1	1	1	-	1	1	1	1	1	2
C302.3	2	1	1	2	-	1	1	1	1	1	2	-
C302.4	1	1	-	1	1	-	1	1	1	1	2	-
C302.5	2	1	1	2	1	-	1	1	1	-	2	-

Course Name: C303 (Database Management System-18CS53)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	3	2	2	2	1	1	-	1	2	2	2	2
C303.2	2	3	3	2	2	1	-	1	2	3	2	2
C303.3	2	2	2	1	1	-	1	1	1	1	1	2
C303.4	2	1	2	2	2	1	1	1	1	1	1	2
C303.5	2	2	2	-	1	-	-	-	1	1	1	2

Course Name: C304 (Automata theory and Computability-18CS54)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
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C304.1	2	2	2	2	1	1	1	1	1	1	-	1
C304.2	1	1	1	1	1	1	-	1	1	1	1	1
C304.3	2	1	1	1	-	-	-	1	-	1	-	1
C304.4	2	2	2	2	1	1	1	1	-	1	-	1
C304.5	2	2	2	2	2	1	1	1	-	-	-	1

Course Name: C305 (Application Development using Python-18CS55)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	-	-	-	-	1	1	1	2	-	-	-	-
C305.2	-	-	-	-	1	1	1	-	-	-	-	-
C305.3	-	-	-	-	1	1	1	-	-	-	-	-
C305.4	1	-	-	-	1	1	1	2	-	-	-	-
C305.5	-	-	-	-	1	1	1	-	-	-	-	-

Course Name: C306 (UNIX Programming-18CS56)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306.1	1	1	1	1	1	-	1	1	1	1	-	-
C306.2	1	2	2	1	1	-	1	1	1	1	-	-
C306.3	2	2	2	-	-	-	1	1	1	1	-	-
C306.4	1	2	1	1	-	1	2	2	1	-	-	-
C306.5	1	2	-	1	-	1	1	1	2	-	-	-

Course Name: C307 (Computer Networks laboratory-18CSL57)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307.1	1	2	-	-	1	-	-	-	-	-	-	1
C307.2	1	2	-	-	1	-	-	-	-	-	-	1
C307.3	1	1	-	-	1	-	-	-	-	-	-	1
C307.4	1	1	-	-	1	-	-	-	-	-	-	1

Course Name: C308 (DBMS laboratory and mini project-18CSL58)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C308.1	3	2	1	-	3	-	-	-	-	-	-	2
C308.2	3	2	2	-	3	-	-	-	-	-	-	2
C308.3	3	2	2	-	3	-	-	-	-	-	-	2
C308.4	3	2	2	-	3	-	-	-	-	-	-	2

Course Name: C309 (Environmental Studies-18CIV59)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C309.1	2	1	1	-	-	-	1	-	-	-	-	-
C309.2	2	1	1	-	-	-	1	-	-	-	-	-
C309.3	2	1	1	-	-	-	1	-	-	-	-	-
C309.4	2	1	1	-	-	-	1	-	-	-	-	-

Course Name: C401 (Artificial Intelligence & Machine Learning-18CS71)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	3	3	3	3	2	2	1	1	1	1	2	2



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C401.2	3	3	3	3	2	2	1	1	1	1	2	2
C401.3	3	3	3	3	2	2	1	1	1	1	2	2
C401.4	3	3	3	3	2	2	1	1	1	1	2	2
C401.5	3	3	3	3	2	2	1	1	1	1	2	2

Course Name: C402 (Big Data Analytics-18CS72)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	3	2	2	2	3	-	-	-	2	2	-	3
C402.2	2	2	3	2	2	-	-	-	-	2	-	2
C402.3	2	2	-	2	1	2	2	-	2	2	-	2
C402.4	3	2	3	2	3	-	-	-	-	2	2	2
C402.5	3	2	3	2	3	-	-	-	-	2	-	2

Course Name: C403 (User Interface Design-18CS734)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	3	1	-	-	-	-	-	-	-	-	-	-
C403.2	3	3	-	1	-	-	-	-	-	-	-	2
C403.3	3	3	3	1	3	-	-	-	1	1	-	1
C403.4	3	-	-	-	3	-	-	-	-	-	-	-
C403.5	3	3	3	3	3	-	-	-	1	1	-	2

Course Name: C404 (Cryptography- 18CS744)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C404.1	3	2	1	-	-	-	-	-	-	-	-	2
C404.2	2	2	-	1	-	-	-	-	-	-	-	1
C404.3	2	2	1	1	-	-	-	-	-	-	-	1
C404.4	2	2	1	-	-	-	-	-	-	-	-	1
C404.5	2	-	1	-	-	-	-	-	-	-	-	1
C404.6	2	-	1	-	-	-	-	-	-	-	-	1

Course Name: C405 (Disasters Management-18EE753)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405.1	2	3	-	-	-	-	-	-	-	-	-	-
C405.2	2	3	-	2	2	-	-	-	-	-	-	-
C405.3	2	2	3	2	-	-	-	-	-	-	-	-
C405.4	2	3	3	3	-	-	-	-	-	-	-	-
C405.5	-	3	3	3	-	-	-	-	-	-	-	2

Course Name: C406 (Artificial Intelligence and Machine Learning Laboratory-18CSL76)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C406.1	2	1	3	3	2	-	-	-	-	-	-	1
C406.2	2	1	3	3	2	-	-	-	-	-	-	1
C406.3	2	1	3	3	2	-	-	-	-	-	-	1
C406.4	2	1	3	3	2	-	-	-	-	-	-	1

Course Name: C407 (Project Work Phase-I-18CSP77)



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C407.1	3	3	1	1	-	-	-	-	-	-	-	-
C407.2	3	3	3	2	3	1	2	-	3	3	2	3
C407.3	3	3	3	1	-	1	1	3	2	3	1	3
C407.4	3	1	3	2	1	-	-	-	-	-	1	2

Course Name: C211 (Mathematical Foundations for computing-21CS41)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211.1	3	2	2	1	-	-	-	-	-	-	-	2
C211.2	3	2	1	1	-	-	-	-	-	-	-	2
C211.3	3	3	2	1	1	-	-	-	-	-	-	2
C211.4	2	2	1	1	-	-	-	-	-	-	-	2
C211.5	2	2	1	2	-	-	-	-	-	-	-	2

Course Name: C212 (Design and Analysis of Algorithms-21CS42)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212.1	3	3	3	3	-	-	-	-	2	1	1	2
C212.2	3	3	3	3	-	-	-	-	2	1	1	2
C212.3	3	3	3	3	-	-	-	-	2	1	1	2
C212.4	3	3	3	3	-	-	-	-	2	1	1	2
C212.5	3	3	3	3	-	-	-	-	2	1	1	2

Course Name: C213 (Microcontroller and Embedded Systems-21CS43)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	2	1	1	-	-	-	-	-	-	-	-	1
C213.2	2	1	1	-	-	-	-	-	-	-	-	2
C213.3	2	1	1	-	-	-	-	-	-	-	-	2
C213.4	1	1	1	-	-	-	-	-	-	-	-	1
C213.5	2	1	1	-	-	-	-	-	-	-	-	2

Course Name: C214(Operating Systems-21CS44)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	3	-	1	-	-	-	-	-	-	-	-	2
C214.2	2	3	1	-	-	1	-	-	-	-	-	3
C214.3	3	3	2	-	-	1	-	-	-	-	-	2
C214.4	3	2	-	-	-	1	-	-	-	-	-	2
C214.5	1	-	-	-	-	-	-	-	-	-	-	1

Course Name: C215 (Biology for Engineers-21BE45)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	2	1	-	-	-	-	-	-	-	-	-	-
C215.2	1	1	-	-	-	-	-	-	2	-	-	-
C215.3	-	-	-	-	2	-	-	-	-	-	-	-
C215.4	-	-	-	-	-	-	-	-	-	-	-	2

Course Name: C216 (Python Programming Laboratory-21CSL46)



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C411.5	-	-	3	-	-	-	-	-	-	-	-	-
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Course Name: C412(Storage Area Networks-18CS822)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	1	-	-	-	1	-	-	-	-	-	-	1
C412.2	1	-	-	-	-	-	-	-	-	-	-	1
C412.3	1	-	2	-	-	-	-	-	-	-	-	1
C412.4	1	-	-	-	-	-	1	-	-	-	-	1

Course Name: C413 (Internship)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.1	3	2	3	3					3	2	2	2
C413.2	2	3	2	3					3	2	3	2
C413.3	1	3	2	2					3	2	2	2
C413.4	3	2	3	2					3	3	2	2
C413.5	1	1	2	1					3	2	2	2
C413.6	3	1	2	1					3	2	2	2

Course Name: C414 (Project Work Phase II-18CSP83)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C414.1	3	3	1	1	-	-	-	-	-	-	-	-
C414.2	3	3	3	2	3	1	2	-	3	3	2	3
C414.3	3	3	3	1	-	1	1	3	2	3	1	3
C414.4	3	1	3	2	1	-	-	-	-	-	1	2

Course Name: C415 (Seminar-18CSI85)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C415.1	1	3	-	-	-	-	-	-	-	1	-	2
C415.2	1	3	-	1	2	-	-	-	-	-	-	2
C415.3	1	-	-	-	-	-	-	-	-	2	-	2
C415.3	1	-	-	-	-	-	-	-	-	2	-	2



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Course Name:C105(BPLCK105A- Introduction to Web Programming)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C105.1	3	2	2	-	-	-	-	-	-	-	-	-
C105.2	2	2	2	-	-	-	-	-	-	-	-	-
C105.3	3	2	2	-	-	-	-	-	-	-	-	-
C105.4	3	2	2	-	-	-	-	-	-	-	-	-

Course Name:C105(BPLCK105B- Introduction to Python Programming)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C105.1	3	2	2	-	-	-	-	-	-	-	-	-
C105.2	2	3	2	-	-	-	-	-	-	-	-	-
C105.3	3	2	2	-	-	-	-	-	-	-	-	-
C105.4	3	2	2	-	-	-	-	-	-	-	-	-

Course Name:C106(BENGGK106- Communicative English)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C106.1	-	-	-	-	-	-	-	-	2	2	-	2
C106.2	-	-	-	-	-	-	-	-	2	2	-	2
C106.3	-	-	-	-	-	-	-	-	2	2	-	2
C106.4	-	-	-	-	-	-	-	-	2	2	-	2
C106.5	-	-	-	-	-	-	-	-	2	2	-	2

Course Name:C107(SAMSKRUTHIKA KANNADABKSKK107)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C107.1	-	-	-	-	-	-	-	-	2	2	-	-
C107.2	-	-	-	-	-	-	-	-	2	2	-	-
C107.3	-	-	-	-	-	-	-	-	2	2	-	-
C107.4	-	-	-	-	-	-	-	-	2	2	-	-
C107.5	-	-	-	-	-	-	-	-	2	2	-	-

Course Name:C107(BALAKE KANNADA-BKBKK107)



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Course Name:C113(BBEE203- Basic Electronics)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C113.1	3	2	2	-	-	-	-	-	-	-	-	-
C113.2	2	3	2	-	-	-	-	-	-	-	-	-
C113.3	3	2	2	-	-	-	-	-	-	-	-	-
C113.4	3	2	2	-	-	-	-	-	-	-	-	-
C113.5	3	2	2	-	-	-	-	-	-	-	-	-

Course Name:C114(BESCK204E- Introduction to C Programming)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C114.1	3	2	2	-	-	-	-	-	-	-	-	-
C114.2	2	3	2	-	-	-	-	-	-	-	-	-
C114.3	3	2	2	-	-	-	-	-	-	-	-	-
C114.4	3	2	2	-	-	-	-	-	-	-	-	-
C114.5	3	2	2	-	-	-	-	-	-	-	-	-

Course Name:C115(BETCK205H- Introduction to Internet of Things (IOT)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C115.1	3	2	2	-	-	-	-	-	-	-	-	-
C115.2	2	3	2	-	-	-	-	-	-	-	-	-
C115.3	2	2	2	-	-	-	-	-	-	-	-	-
C115.4	2	2	2	2	-	-	-	-	-	-	-	-
C115.5	2	2	2	2	-	-	-	-	-	-	-	-

Course Name:C116(BPWSK206- Professional Writing Skills in English)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C116.1	-	-	-	-	-	-	-	-	2	2	-	-
C116.2	-	-	-	-	-	-	-	-	2	2	-	-
C116.3	-	-	-	-	-	-	-	-	2	2	-	-
C116.4	-	-	-	-	-	-	-	-	2	2	-	-



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C202.3	3	2	3	3	2	-	-	-	-	-	-	-
C202.4	3	3	2	2	2	-	-	-	-	-	-	-

Course Name:C203(BSP-21EC33)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C203.1	2	2	1	2	1							2
C203.2	2	1	1	2	1							2
C203.3	2	1	1	2	1							2
C203.4	2	1	1		1							2

Course Name:C204(AEC -21EC34)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C204.1	3	2	3	2	2							1
C204.2	3	3	2	2	2							1
C204.3	3	2	2	2	2							1
C204.4	2	2	3	2	2							1
C204.5	3	3	3	2	2							1

Course Name:C205(ADE LAB -21ECL35)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C205.1	3	1	2	2	3							
C205.2	2	3	2	2	2							
C205.3	2	3	2	2	2							
C205.4	2	3	2	2	2							
C205.5	2	3	2	2	2							

Course Name:C206(SOCIAL CONNECT & RESPONSIBILITIES-21EC36)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C206.1	3	1	2	2	3							
C206.2	2	3	2	2	2							
C206.3	2	3	2	2	2							



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Course Name:C207(SAMSKRUTHIKA KANNADA-21KSK47)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C207.1	3	3	3									
C207.2	3	3	3									
C207.3	3	3	3									
C207.4	3	3	3									

Course Name:C207(BALEKE KANNADA -21KKB37)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C207.1	3	1	2	2	3							
C207.2	2	3	2	2	2							
C207.3	2	3	2	2	2							
C207.4	2	3	2	2	2							
C207.5	2	3	2	2	2							

Course Name:C208(LD (Logic Design) Lab using Pspice-21EC381)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C208.1	3	1	2	2	3							
C208.2	2	3	2	2	2							
C208.3	2	3	2	2	2							
C208.4	2	3	2	2	2							

Course Name:C211(Maths for Communication Engineers-21EC41)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C211.1	3	3	1	2	2							
C211.2	3	3	2	1	1							
C211.3	2	2	2	2	1							
C211.4	3	2	2	1	1							
C211.5	3	2	2	2								

Course Name:C212(DIGITAL SIGNAL PROCESSING-21EC42)



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C215.3					2					2		
C215.4												2

Course Name:C216(Communication Laboratory I-21ECL46)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C216.1	2	2	1	2	3							
C216.2	2	2	1	1	2							
C216.3	2	2	1	2	3							
C216.4	2	2	1	1	2							

Course Name:C217(Constitution of India and Professional Ethics-21CIP47)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C217.1	2	2	1	2	3							
C217.2	2	2	1	1	2							
C217.3	2	2	1	2	3							
C217.4	2	2	1	1	2							

Course Name:C218(EMBEDDED C BASICS LAB-21EC481)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C218.1	2	2	1	2	3							
C218.2	2	2	1	1	2							
C218.3	2	2	1	2	3							
C218.4	2	2	1	1	2							
C218.5	2	2	1	1	2							

Course Name:C219(UNIVERSAL HUMAN VALUES-21UH49)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C219.1	2	2	1	2	3							
C219.2	2	2	1	1	2							
C219.3	2	2	1	2	3							
C219.4	2	2	1	1	2							



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C219.5	2	2	1	1	2							
C219.6	2	2	2	2								

Course Name: C301(Technical innovation and Mangement and Enterpreneurship)-18EC51)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	1	1	1		-	-	-	3	3	2	3	3
C301.2	1		1		-	-	-	2	2		2	2
C301.3	1	1			-	-	-	2		1	2	
C301.4	1	1	1		-	-	-	2	3	1	2	3
C301.5	1	1			-	-	-	1	2	2	1	2
C301.6	1	1	1		-	-	-	1	2	1	1	2

Course Name: C302(DSP-18EC52)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	3	2	1	1	-	-	-	-	-	-	-	1
C302.2	3	2	1	2	-	-	-	-	-	-	-	-
C302.3	2	2	2	1	-	-	-	-	-	-	-	-
C302.4	1	2	2	1	-	-	-	-	-	-	-	-
C302.5	2	1	2	2	-	-	-	-	-	-	-	-

Course Name: C303(POC -18EC53)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	3	3	2	1	-	-	-	-	-	-	-	-
C303.2	2	3	2	2	-	-	-	-	-	-	-	-
C303.3	3	2	2	1	-	-	-	-	-	-	-	-
C303.4	3	2	2	1	-	-	-	-	-	-	-	-
C303.5	1	2	2	1	-	-	-	-	-	-	-	-

Course Name: C304 (Computer Organisation-18EC54)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	3	2	3	1	-	-	-	-	-	-	-	-
C304.2	3	1	2	1	-	-	-	-	-	-	-	-
C304.3	2	3	-	2	-	-	-	-	-	-	-	-
C304.4	2	1	1	1	-	-	-	-	-	-	-	-

Course Name: C305(EMW-18EC55)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	3	2	3									1
C305.2	2	3	3									
C305.3	3	2										1
C305.4	3	2	3									
C305.5	2	2										
C305.6	3	2	2									1

Course Name: C306(Verilog HDL-18EC56)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
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C313.4	2	1	1	1	-	-	-	-	-	-	-	-
C313.5	2	3	2	2	-	-	-	-	-	-	-	-
C313.6	1	-	-	-	-	-	-	-	-	-	-	1

Course Name: C314(Python Application & Learning - 18EC646

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	3	2	2	2	-	-	-	-	-	-	-	1
C314.2	2	2	2	2	-	-	-	-	-	-	-	1
C314.3	3	2	1	1	-	-	-	-	-	-	-	-
C314.4	3	2	2	3	-	-	-	-	-	-	-	-
C314.5	3	2	2	2	-	-	-	-	-	-	-	-
C314.6	3	2	2	1	-	-	-	-	-	-	-	1

Course Name: C315)(Introduction to OS-18CS654)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	3	2	3	2	-	-	-	-	-	-	-	1
C315.2	2	3	2	1	-	-	-	-	-	-	-	-
C315.3	3	1	3	3	-	-	-	-	-	-	-	-
C315.4	3	1	1	1	-	-	-	-	-	-	-	1
C315.5	3	3	2	2	-	-	-	-	-	-	-	-
C315.6	2	2	2	2	-	-	-	-	-	-	-	1

Course Name: C316 (Embedded Systems Lab-18ECL66)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316.1	3	3	3	2	-	-	-	-	-	-	-	-
C316.2	2	3	1	1	-	-	-	-	-	-	-	-
C316.3	3	2	3	2	-	-	-	-	-	-	-	-
C316.4	1	1	2	2	-	-	-	-	-	-	-	-
C316.5	1	2	3	2	-	-	-	-	-	-	-	-
C316.6	1	2	3	3	-	-	-	-	-	-	-	-

Course Name: C317(CCN Lab - 18ECL67)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C317.1	3	3	3	2	-	-	-	-	-	-	-	-
C317.2	3	2	2	1	-	-	-	-	-	-	-	-
C317.3	2	2	3	2	-	-	-	-	-	-	-	-
C317.4	2	3	3	2	-	-	-	-	-	-	-	1
C317.5	2	3	3	1	-	-	-	-	-	-	-	1
C317.6	2	2	2	1	-	-	-	-	-	-	-	1

Course Name: C318 (Mini Project-18ECMP68)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C318.1	2	2	3	2	-	-	-	-	-	-	-	1
C318.2	2	2	3	2	-	-	-	-	-	-	-	-
C318.3	3	2	3	3	-	-	-	-	-	-	-	1
C318.4	3	3	2	3	-	-	-	-	-	-	-	-
C318.5	3	2	3	3	-	-	-	-	-	-	-	-
C318.6	3	3	3	2	-	-	-	-	-	-	-	-

Course Name: C401(Computer Networks-18EC71)



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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	3	2	3	2								2
C401.2	3	3	2	2								
C401.3	2	1	3	3								2
C401.4	2	1	2	2								
C401.5	2	3	2	3								2

Course Name: C402(VLSI-18EC72)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	3	2	3									1
C402.2	3	3	2									
C402.3	3	2	2									
C402.4	3	3	2									

Course Name: C403 (SatCom-18EC732)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	3	2	2	1		-	-	-	-	-	-	
C403.2	3	3	2	2		-	-	-	-	-	-	1
C403.3	2	2	3	1		-	-	-	-	-	-	1
C403.4	3	2	2	3		-	-	-	-	-	-	
C403.5	3	2	2	3	2							

Course Name: C404Python-18EC745)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C404.1	3	2	3	3	3							1
C404.2	3	3	2	3	3							
C404.3	3	2	2	2	2							
C404.4	3	3	2	2	3							

Course Name: C405 (Biomedical -18MT751)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405.1	3	2	1	1	2							2
C405.2	3	2	1	1	2							2
C405.3	3	2	2	1	1							2
C405.4	3	2	2	2	3							2

Course Name: C406 (CN LAB-18ECL76)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C406.1	3	3	2	3	3	-	-	-	-	-	-	1
C406.2	3	2	2	2	3	-	-	-	-	-	-	1
C406.3	2	3	3	2	3	-	-	-	-	-	-	1
C406.4	3	3	2	3	3	-	-	-	-	-	-	1
C406.5	3	2	2	2	3	-	-	-	-	-	-	1

Course Name: C407 (VLSI Lab-18ECL77)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C407.1	3	2	2	1	3	-	-	-	-	-	-	1
C407.2	3	2	2	2	3	-	-	-	-	-	-	-



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C302.3	2	2	2	1	3	-	-	-	-	-	-	-
C407.4	1	2	2	1	3	-	-	-	-	-	-	-
C407.5	2	1	2	2	3	-	-	-	-	-	-	-
C407.6	3	2	2	2	2	-	-	-	-	-	-	-

Course Name:C408(Project work-18ECP78)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C408.1	3	3	3	3	3	-	-	-	3	2	2	2
C408.2	3	3	3	3	3	-	-	-	3	2	2	2
C408.3	3	3	3	3	3	-	-	-	3	2	2	2
C408.4	3	3	3	3	2	-	-	-	3	2	2	2
C408.5	3	3	3	2	3	-	-	-	3	2	2	2
C408.6	3	3	3	3	3	--	--	--	3	2	2	2

Course Name:C411(LTE & wireless communication 18EC81)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	3	2	1	2	-	-	-	-	-	-	-	1
C411.2	3	2	2	-	-	-	-	-	-	-	-	-
C411.3	3	2	-	-	2	-	-	-	-	-	1	-
C411.4	2	2	2	-	-	-	-	-	-	-	-	-
C411.5	3	2	2	2	-	-	-	-	-	-	-	1

Course Name: C412(Fibre optical networks- 18EC82)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	3	2	2	2	2					1		2
C412.2	3	3	2	2	2					2	2	2
C412.3	3	2	3	2	3					2	2	2
C412.4	2	2	3	2	2					2	2	2
C412.5	2	2	3	2	2					2	2	2

Course Name:C413(Radar Engineering-18EC833)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.5	3	2			2	1	1			1		2
C413.5	2	3	2	2	2	2	2			2	2	2
C413.5	2	2	3	2	2	2	2			2	2	2
C413.5	2	2	3	2	2	2	2			2	2	2
C413.5	2	2	3	2	2	2	1			2	2	2
C413.5	3	2			2	1	1			1		2

Course Name:C414(Internship-18ECI84)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C414.1	3	2	3	3					3	2	2	2
C414.2	2	3	2	3					3	2	3	2
C414.3	1	3	2	2					3	2	2	2
C414.4	3	2	3	2					3	3	2	2
C414.5	1	1	2	1					3	2	2	2
C414.6	3	1	2	1					3	2	2	2



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Course Name:C415(Project-18ECP85)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C415.1	2	2	3	3	3				3	2	2	2
C415.2	2	2	2	3	3				3	2	2	2
C415.3	1	2	2	2	3				3	2	2	2
C415.4	2	2	2	2	2				3	2	2	2
C415.5	1	1	2	1	3				3	2	2	2
C415.6	1	1	2	1	2				3	2	2	2

Course Name:C416(Seminar-18ECS86)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C416.1	2	3	2	2	-	-	-	-	1	2	2	2
C416.2	2	2	2	1	-	-	-	-	1	2	2	2
C416.3	2	2	3	2	-	-	-	-	1	2	2	2
C416.4	3	1	2	2	-	-	-	-	1	2	2	2
C416.5	2	3	3	1	-	-	-	-	1	2	2	2
C416.6	2	2	2	2	-	-	-	-	1	2	2	2



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C104.5	3	2	2	-	-	-	-	-	-	-	-	-
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Course Name:C105(BPLCK105A- Introduction to Web Programming)

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C105.1	3	2	2	-	-	-	-	-	-	-	-	-
C105.2	2	2	2	-	-	-	-	-	-	-	-	-
C105.3	3	2	2	-	-	-	-	-	-	-	-	-
C105.4	3	2	2	-	-	-	-	-	-	-	-	-

Course Name:C105(BPLCK105B- Introduction to Python Programming)

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C105.1	3	2	2	-	-	-	-	-	-	-	-	-
C105.2	2	3	2	-	-	-	-	-	-	-	-	-
C105.3	3	2	2	-	-	-	-	-	-	-	-	-
C105.4	3	2	2	-	-	-	-	-	-	-	-	-

Course Name:C106(BENGGK106-Communicative English)

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C106.1	-	-	-	-	-	-	-	-	2	2	-	2
C106.2	-	-	-	-	-	-	-	-	2	2	-	2
C106.3	-	-	-	-	-	-	-	-	2	2	-	2
C106.4	-	-	-	-	-	-	-	-	2	2	-	2
C106.5	-	-	-	-	-	-	-	-	2	2	-	2

Course Name:C107(SAMSKRUTHIKA KANNADABKSKK107)

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C107.1	-	-	-	-	-	-	-	-	2	2	-	-
C107.2	-	-	-	-	-	-	-	-	2	2	-	-
C107.3	-	-	-	-	-	-	-	-	2	2	-	-
C107.4	-	-	-	-	-	-	-	-	2	2	-	-
C107.5	-	-	-	-	-	-	-	-	2	2	-	-



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C112.5	3	2	2	-	-	-	-	-	-	-	-	-
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Course Name:C113(BBEE203-Basic Electronics)

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C113.1	3	2	2	-	-	-	-	-	-	-	-	-
C113.2	2	3	2	-	-	-	-	-	-	-	-	-
C113.3	3	2	2	-	-	-	-	-	-	-	-	-
C113.4	3	2	2	-	-	-	-	-	-	-	-	-
C113.5	3	2	2	-	-	-	-	-	-	-	-	-

Course Name:C114(BESCK204E-Introduction to C Programming)

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C114.1	3	2	2	-	-	-	-	-	-	-	-	-
C114.2	2	3	2	-	-	-	-	-	-	-	-	-
C114.3	3	2	2	-	-	-	-	-	-	-	-	-
C114.4	3	2	2	-	-	-	-	-	-	-	-	-
C114.5	3	2	2	-	-	-	-	-	-	-	-	-

Course Name:C115(BETCK205H-Introduction to Internet of Things (IOT)

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C115.1	3	2	2	-	-	-	-	-	-	-	-	-
C115.2	2	3	2	-	-	-	-	-	-	-	-	-
C115.3	2	2	2	-	-	-	-	-	-	-	-	-
C115.4	2	2	2	2	-	-	-	-	-	-	-	-
C115.5	2	2	2	2	-	-	-	-	-	-	-	-

Course Name:C116(BPWSK206-Professional Writing Skills in English)

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C116.1	-	-	-	-	-	-	-	-	2	2	-	-
C116.2	-	-	-	-	-	-	-	-	2	2	-	-



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C116.3	-	-	-	-	-	-	-	-	-	2	2	-	-
C116.4	-	-	-	-	-	-	-	-	-	2	2	-	-
C116.5	-	-	-	-	-	-	-	-	-	2	2	-	-

Course Name: C117(BICOK207-Indian Constitution)

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C117.1	-	-	-	-	-	-	-	-	2	2	-	2
C117.2	-	-	-	-	-	-	-	-	2	2	-	2
C117.3	-	-	-	-	-	-	-	-	2	2	-	2
C117.4	-	-	-	-	-	-	-	-	2	2	-	2
C117.5	-	-	-	-	-	-	-	-	2	2	-	2

Course Name: C118(BIDTK258-INNOVATION and DESIGN THINKING)

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
C101.1	-	-	-	-	-	-	-	-	2	2	-	-
C101.2	-	-	-	-	-	-	-	-	2	2	-	-
C101.3	-	-	-	-	-	-	-	-	2	2	-	-
C101.4	-	-	-	-	-	-	-	-	2	2	-	-
C101.5	-	-	-	-	-	-	-	-	2	2	-	-

Course Name: C201 (21MAT31 – Transform Calculus, Fourier series and Numerical Techniques)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201.1	3	2	2	1	-	-	-	-	-	-	-	2
C201.2	3	2	1	1	-	-	-	-	-	-	-	2
C201.3	3	2	2	1	1	-	-	-	-	-	-	2
C201.4	2	2	1	1	-	-	-	-	-	-	-	2
C201.5	2	2	1	2	-	-	-	-	-	-	-	2

Course Name: C202 (21EE32 – Analog Electronic Circuits and Opamps)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202.1	1	1	1	1	1	-	-	-	-	-	-	-
C202.2	3	3	3	1	1	-	-	-	-	-	-	1
C202.3	1	3	3	3	2	-	1	1	-	1	-	1
C202.4	3	3	2	1	1	-	-	-	2	1	-	1
C202.5	3	3	2	1	1	-	-	-	1	2	-	-
C202.6	3	3	2	1	1	-	-	-	1	1	-	1

Course Name: Course Name: C203 (21EE33 – Electric Circuit Analysis)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203.1	3	3	2	3	2	-	1	-	1	1	2	1



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C213.2	2	2	2	2	2	-	-	-	-	-	-	-
C213.3	2	2	2	2	2	-	-	-	-	-	-	1
C213.4	2	2	2	2	2	-	-	-	-	-	-	-
C213.5	2	2	2	2	2	-	-	-	-	-	-	1

Course Name: C214 (21EE44 – Electric Motors)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	3	2	2	-	-	-	-	-	1	1	1	1
C214.2	3	2	2	-	-	-	-	-	1	1	1	1
C214.3	3	2	2	-	-	-	-	-	1	1	1	1
C214.4	3	2	2	-	-	-	-	-	1	1	1	1
C214.5	3	2	2	-	-	-	-	-	1	1	1	1

Course Name: C215 (21BE45 – Biology for Engineers)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	2	1	-	-	-	-	-	-	-	-	-	-
C215.2	1	1	-	-	-	-	-	-	1	-	2	-
C215.3	-	-	-	-	2	-	-	-	-	-	-	-
C215.4	-	-	-	-	-	-	-	-	-	-	-	2

Course Name: C216 (21EEL46 – Electrical Machines Lab – II)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	3	3	-	-	-	-	-	-	3	3	1	1
C216.2	3	3	-	-	-	-	-	-	3	3	1	1
C216.3	3	3	-	-	-	-	-	-	3	3	1	1
C216.4	3	3	-	-	-	-	-	-	3	3	1	1
C216.5	3	3	-	-	-	-	-	-	3	3	1	1

Course Name: C218 (21EEL484 – Simulation of Opamp Circuits)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C218.1	3	-	-	-	-	-	-	-	3	3	3	-

Course Name: C219 (2UHV49 – Universal Human Values)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C219.1	-	-	-	-	-	-	3	-	-	-	-	1
C219.2	-	-	-	-	-	1	-	-	-	-	-	-
C219.3	-	-	-	-	2	1	-	-	-	-	-	-
C219.4	-	-	-	-	2	2	-	-	-	-	-	1
C219.5	-	-	-	-	2	2	3	-	-	-	-	-

Course Name: C301 (18EE51 – MANAGEMENT & ENTREPRENEURSHIP)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	2	2	-	-	2	-	-	3	2	3	-	-
C301.2	2	2	-	-	3	-	-	3	2	3	-	-
C301.3	2	2	-	3	-	-	3	2	3	-	-	-
C301.4	-	2	-	-	3	-	-	3	3	3	-	-
C301.5	-	-	-	3	3	2	-	-	-	-	-	-
C301.6	-	-	2	2	3	-	-	3	2	3	-	-

Course Name: C302 (18EE52 – Microcontroller)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	2	2	-	-	2	-	-	3	2	3	-	-
C302.2	2	2	2	-	3	-	-	3	2	3	-	-
C302.3	2	2	-	3	-	-	3	2	3	-	-	-



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C302.4	-	2	-	-	3	-	-	3	3	3	-	-
C302.5	-	-	-	3	3	2	-	-	-	-	-	-
C302.6	-	-	2	2	3	-	-	3	2	3	-	-

Course Name: C303 (18EE53 – POWER ELECTRONICS)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	3	-	-	-	-	1	1	3	-	3	2	3
C303.2	-	3	-	-	-	2	-	3	-	-	-	-
C303.3	3	-	2	-	-	-	-	3	-	-	-	-
C303.4	-	2	1	1	-	-	-	3	-	-	-	-
C303.5	-	-	2	1	-	2	-	3	-	-	2	-
C303.6	2	-	-	2	-	1	-	3	-	-	-	3

Course Name: C304 (18EE54 – Signals and Systems)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	3	3	-	-	-	-	-	-	-	2	-	-
C304.2	2	3	-	2	-	2	-	-	-	3	-	2
C304.3	2	-	-	3	-	-	3	-	-	-	-	-
C304.4	1	-	3	-	-	1	2	-	-	-	1	-
C304.5	1	-	3	-	-	1	3	-	-	-	-	-
C304.6	1	-	3	-	3	-	-	-	-	-	-	-

Course Name: C305 (18EE55 – ELECTRICAL MACHINE DESIGN)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	3	3	-	-	-	-	-	-	-	2	-	-
C305.2	2	3	-	2	-	2	-	-	-	3	-	2
C305.3	2	-	-	3	-	-	3	-	-	-	-	-
C305.4	1	-	3	-	-	1	2	-	-	-	1	-
C305.5	1	-	3	-	-	1	3	-	-	-	-	-
C305.6	1	-	3	-	3	-	-	-	-	-	-	-

Course Name: C306 (18EE56 – High Voltage Engineering)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306.1	2	3	-	2	-	-	-	2	1	3	-	-
C306.2	3	2	-	1	-	-	-	2	2	3	-	-
C306.3	2	3	-	2	-	-	-	2	2	3	-	-
C306.4	3	2	-	2	-	-	-	2	3	2	-	-
C306.5	2	3	-	2	-	-	-	2	3	2	-	-
C306.6	2	3	-	3	-	-	-	-	-	-	-	-

Course Name: C307 (18EEL57 – Microcontroller Laboratory)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307.1	2	2	-	-	2	-	-	3	2	3	-	-
C307.2	2	2	2	-	3	-	-	3	2	3	-	-
C307.3	2	2	-	3	-	-	3	2	3	-	-	-
C307.4	-	2	-	-	3	-	-	3	3	3	-	-
C307.5	-	-	-	3	3	2	-	-	-	-	-	-
C307.6	-	-	2	2	3	-	-	3	2	3	-	-

Course Name: C308 (18EEL58 – Power Electronics Laboratory)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C308.1	3	-	-	-	-	1	1	3	-	3	2	3
C308.2	-	3	-	-	-	2	-	3	-	-	-	-



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C308.3	3	-	2	-	-	-	-	3	-	-	-	-
C308.4	-	2	1	1	-	-	-	3	-	-	-	-
C308.5	-	-	2	1	-	2	-	3	-	-	2	-
C308.6	2	-	-	2	-	1	-	3	-	-	-	3

Course Name: C311 (18EE61 – CONTROL SYSTEMS)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	3	3	-	-	3	-	-	2	2	3	-	-
C311.2	2	3	-	-	3	-	-	2	2	3	-	-
C311.3	3	3	3	-	2	-	-	2	2	2	-	-
C311.4	3	3	2	-	3	-	-	2	2	3	-	-
C311.5	2	2	-	-	3	-	-	2	2	2	-	-
C311.6	2	3	-	-	3	-	-	2	2	3	-	-

Course Name: C312 (18EE62 – Power System Analysis – I)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	3	3	2	2	1	1	1	-	1	1	-	1
C312.2	3	3	3	3	2	1	-	-	1	1	-	1
C312.3	3	3	3	3	2	1	1	1	1	1	1	1
C312.4	3	3	3	3	2	1	1	1	1	1	1	1
C312.5	3	3	2	2	1	1	1	-	1	1	-	1
C312.6	3	3	2	2	1	1	1	-	1	1	-	1

Course Name: C313 (18EE63 Digital Signal Processing)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313.1	3	3	-	3	2	-	-	0	2	2	-	-
C313.2	3	3	-	3	2	-	-	0	2	2	-	-
C313.3	0	0	-	2	2	-	-	0	2	2	-	-
C313.4	0	0	-	2	2	-	-	0	2	2	-	-
C313.5	0	0	-	2	2	-	-	0	2	2	-	-
C313.6	0	0	-	2	2	-	-	0	2	2	-	-

Course Name: C314 (18EE64 Embedded systems)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	2	2	1	2	-	1	-	-	-	1	-	1
C314.2	2	2	2	1	-	1	-	-	-	1	-	1
C314.3	2	-	3	2	-	1	-	-	-	1	-	1
C314.4	2	-	3	1	-	1	-	-	-	1	1	1
C314.5	2	2	3	2	2	1	-	-	-	1	-	1
C314.6	2	2	3	2	1	1	-	-	-	1	-	1

Course Name: C315 (18ME657 Non-Conventional Energy Sources)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	3	2	2	-	-	1	2	-	-	-	-	-
C315.2	1	2	3	2	1	-	-	-	-	-	-	-
C315.3	-	-	3	2	1	3	3	-	-	-	-	-
C315.4	2	-	2	-	2	1	3	-	-	-	-	-
C315.5	-	-	2	3	-	2	2	-	-	-	-	-
C315.6	2	12	-	1	2	13	-	-	-	-	-	-

Course Name: C316 (18EEL66 – Control Systems Laboratory)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316.1	3	3	-	-	3	-	-	2	2	3	-	-



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C316.2	2	3	-	-	3	-	-	2	2	3	-	-
C316.3	3	3	3	-	2	-	-	2	2	2	-	-
C316.4	3	3	2	-	3	-	-	2	2	3	-	-
C316.5	2	2	-	-	3	-	-	2	2	2	-	-
C316.6	2	3	-	-	3	-	-	2	2	3	-	-

Course Name: C317 (18EEL67 – Digital Signal Processing Laboratory)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C317.1	3	3	-	3	2	-	-	-	2	2	-	-
C317.2	3	3	-	3	2	-	-	-	2	2	-	-
C317.3	-	-	-	2	2	-	-	-	2	2	-	-
C317.4	-	-	-	2	2	-	-	-	2	2	-	-
C317.5	-	-	-	2	2	-	-	-	2	2	-	-
C317.6	-	-	-	2	2	-	-	-	2	2	-	-

Course Name: C318 (18EEMP68 – Mini Project)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C318.1	3	3	1	3	2	-	-	-	2	2	-	-
C318.2	3	3	1	3	2	-	-	-	2	2	-	-
C318.3	3	2	2	2	2	-	-	-	2	2	-	-
C318.4	2	3	2	2	2	-	-	-	2	2	-	-
C318.5	2	2	2	2	2	-	-	-	2	2	-	-
C318.6	2	2	1	2	2	-	-	-	2	2	-	-

Course Name: C401 (18EE71 - Power System Analysis-2)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	3	3	-	3	3	-	1	-	-	2	2	2
C401.2	3	3	1	3	3	1	2	-	2	2	2	3
C401.3	3	2	1	2	2	-	2	1	-	1	1	2
C401.4	2	2	1	3	3	1	3	-	2	2	2	3
C401.5	3	3	-	2	3	-	3	1	-	2	2	3
C401.6	3	3	-	2	3	-	1	1	-	1	1	2

Course Name: C402 (18EE72 - Power System Protection)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	3	-	-	-	-	-	-	-	-	-	-	-
C402.2	2	3	-	-	-	-	-	2	3	3	-	-
C402.3	1	-	3	3	-	-	-	2	3	2	-	-
C402.4	1	3	3	-	-	-	-	2	3	3	-	-
C402.5	1	3	-	-	-	-	-	2	3	2	-	-
C402.6	1	3	-	-	-	-	-	2	3	2	-	-

Course Name: C403 (18EE734– Advanced Control Systems)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	3	3	-	3	3	-	1	-	-	2	2	2
C403.2	3	3	1	3	3	1	2	-	2	2	2	3
C403.3	3	2	1	2	2	-	2	1	-	1	1	2
C403.4	2	2	1	3	3	1	3	-	2	2	2	3
C403.5	3	3	-	2	3	-	3	1	-	2	2	3
C403.6	3	3	-	2	3	-	1	1	-	1	1	2

Course Name: C403 (18EE742 – Utilization of Electrical Power)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
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C404.1	3	3	2	3	-	2	2	1	1	1	1	1
C404.2	3	2	3	3	-	2	2	1	1	1	1	1
C404.3	3	3	2	3	-	1	2	1	1	1	1	1
C404.4	2	2	2	2	-	2	2	1	1	1	1	1
C404.5	3	3	3	3	-	2	2	1	1	1	1	1
C404.6	3	3	2	3	-	1	2	1	1	1	1	1

Course Name: C405 (18AU754- Introduction to Electric Vehicles)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405.1	3	-	2	-	-	3	-	-	-	-	-	-
C405.2	3	-	2	-	-	2	-	-	-	-	-	-
C405.3	3	2	2	-	1	-	-	-	-	-	-	-
C405.4	2	1	2	-	-	-	-	-	-	-	-	-
C405.5	3	3	3	1	-	-	-	-	-	1	1	1
C405.6	3	3	3	1	-	-	-	-	-	1	1	1

Course Name: C406 (18EEL76-Power System Simulation Lab)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C406.1	2	2	2	-	2	-	-	3	3	3	-	-
C406.2	2	2	2	-	-	-	-	2	2	3	-	-
C406.3	2	2	2	-	2	-	-	2	2	3	-	-
C406.4	2	2	2	-	2	-	-	-	1	3	-	-
C406.5	2	2	2	-	-	-	-	3	3	3	-	-
C406.6	2	2	2	-	-	-	-	-	2	3	-	-

Course Name: C407 (18EEL77-High Voltage & Relay Lab)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C407.1	2	3	-	2	-	-	-	2	1	3	-	-
C407.2	3	2	-	1	-	-	-	2	2	3	-	-
C407.3	2	3	-	2	-	-	-	2	2	3	-	-
C407.4	3	2	-	2	-	-	-	2	3	2	-	-
C407.5	2	3	-	2	-	-	-	2	3	2	-	-
C407.6	2	3	-	3	-	-	-	-	-	-	-	-

Course Name: C408 (18EEP78-Project Work)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C408.1	3	3	1	3	2	-	-	-	2	2	-	-
C408.2	3	3	1	3	2	-	-	-	2	2	-	-
C408.3	3	2	2	2	2	-	-	-	2	2	-	-
C408.4	2	3	2	2	2	-	-	-	2	2	-	-
C408.5	2	2	2	2	2	-	-	-	2	2	-	-
C408.6	2	2	1	2	2	-	-	-	2	2	-	-

Course Name: C411 (18EE81 - Power System Operation and control)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	3	3	-	-	3	-	-	-	-	2	-	2
C411.2	3	3	1	-	3	-	-	-	-	2	-	3
C411.3	3	2	1	-	2	-	-	-	-	1	-	2
C411.4	2	2	1	-	3	-	-	-	-	2	-	3
C411.5	3	3	-	-	3	-	-	-	-	2	-	3
C411.6	3	3	-	-	3	-	-	-	-	1	-	2

Course Name: C412 (18EE821 - FACTS and HVDC Transmission)



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CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	3	-	-	-	-	-	-	-	-	-	-	-
C412.2	2	3	-	-	-	-	-	2	3	3	-	-
C412.3	1	-	3	3	-	-	-	2	3	2	-	-
C412.4	1	3	3	-	-	-	-	2	3	3	-	-
C412.5	1	3	-	-	-	-	-	2	3	2	-	-
C412.6	1	3	-	-	-	-	-	2	3	2	-	-

Course Name: C413 (18EEP83-Project Work Phase 2)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.1	3	3	1	3	2	-	-	-	2	2	-	-
C413.2	3	3	1	3	2	-	-	-	2	2	-	-
C413.3	3	2	2	2	2	-	-	-	2	2	-	-
C413.4	2	3	2	2	2	-	-	-	2	2	-	-
C413.5	2	2	2	2	2	-	-	-	2	2	-	-
C413.6	2	2	1	2	2	-	-	-	2	2	-	-

Course Name: C414 (18EES84 - Seminar)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C414.1	3	3	1	3	2	-	-	-	2	2	-	-
C414.2	3	3	1	3	2	-	-	-	2	2	-	-
C414.3	3	2	2	2	2	-	-	-	2	2	-	-
C414.4	2	3	2	2	2	-	-	-	2	2	-	-
C414.5	2	2	2	2	2	-	-	-	2	2	-	-
C414.6	2	2	1	2	2	-	-	-	2	2	-	-

Course Name: C415 (18EEI85 - Internship)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C415.1	3	3	-	3	3	-	1	-	-	2	2	2
C415.2	3	3	1	3	3	1	2	-	2	2	2	3
C415.3	3	2	1	2	2	-	2	1	-	1	1	2
C415.4	2	2	1	3	3	1	3	-	2	2	2	3
C415.5	3	3	-	2	3	-	3	1	-	2	2	3
C415.6	3	3	-	2	3	-	1	1	-	1	1	2



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Course Name: C101 (BMATS101- Mathematics-I For Cse Stream)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101.1	3	2	2	1	-	-	-	-	-	-	-	-
C101.2	3	2	1	1	-	-	-	-	-	-	-	-
C101.3	3	3	2	1	1	-	-	-	-	-	-	-
C101.4	2	2	2	2	-	-	-	-	-	-	-	-
C101.5	2	2	1	2	-	-	-	-	-	-	-	-

Course Name: C102 (BPHYS102- Physics for CSE stream)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C102.1	3	3	3	-	-	-	-	-	-	-	-	3
C102.2	3	3	2	-	-	-	-	-	-	-	-	2
C102.3	3	3	3	-	-	-	-	-	-	-	-	3
C102.4	3	2	2	-	-	-	-	-	-	-	-	2
C102.5	3	3	3	-	-	-	-	-	-	-	-	3

Course Name: C103 (BPOPS103- Principles of Programming Using C)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103.1	2	1	-	-	-	-	-	-	-	-	-	1
C103.2	2	2	2	2	-	-	-	-	-	-	-	2
C103.3	2	2	2	2	-	-	-	-	-	-	-	3
C103.4	3	2	-	-	-	-	-	-	-	-	-	-
C103.5	3	2	-	-	-	-	-	-	-	-	-	-

Course Name: C104 (BESCK104C - Introduction to Electronics Communication)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104.1	1.6	3	2	1								
C104.2	1.6	3	2	2								
C104.3	1.6	3	3	3	2	1						
C104.4	1.6	3	3	3	2	3				1		
C104.5	1.6	3	2	3	2	3				1		

Course Name: C105 (BETCK105H - Introduction to Internet of Things (IOT))

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C105.1	3	2	2	-	-	-	-	-	-	-	-	-
C105.2	2	3	2	-	-	-	-	-	-	-	-	-
C105.3	2	2	2	-	-	-	-	-	-	-	-	-
C105.4	2	2	2	2	-	-	-	-	-	-	-	-
C105.5	2	2	2	2	-	-	-	-	-	-	-	-

Course Name: C106 (BENGK106- Communicative English)

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C106.1	-	-	-	-	-	-	-	-	2	2	-	2
C106.2	-	-	-	-	-	-	-	-	2	2	-	2



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C212.5	2	2	3	-	-	-	-	-	-	-	-	-	1
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C++ Programming 21CS382

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO 11	PO 12
C204.1	2	2	-	-	-	-	-	-	-	-	-	2
C204.2	3	2	-	-	-	-	-	-	-	-	-	3
C204.3	2	3	2	-	-	-	-	-	-	-	-	3
C204.4	3	3	3	2	-	-	-	-	-	-	-	2
C204.5	3	2	-	-	-	-	-	-	-	-	-	3

Object Oriented Programming with JAVA Laboratory 21CS35

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
C205.1	1	1	1	-	-	-	-	-	-	-	-	2
C205.2	2	-	1	1	-	1	-	-	-	-	-	2
C205.3	3	2	-	1	-	-	-	-	-	-	-	-
C205.4	1	1	1	-	-	-	-	-	-	1	-	-
C205.5	2	1	1	-	-	-	-	-	-	-	-	-

C214 Operating Systems/21CS44

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C213.1	2	2	3	-	-	-	-	-	-	-	-	-
C213.2	2	2	3	-	-	-	-	-	-	-	-	-
C213.3	1	2	3		2	-	-	-	-	-	-	-
C213.4	3	-	3	3	3	-	-	-	-	-	-	-
C213.5	3	-	3	3	3	-	-	-	-	-	-	-
C213.6	3	-	3	3	3	-	-	-	-	-	-	-

C213 Microcontrollers and Embedded Systems/21CS43

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C214.1	-	-	-	-	-	-	-	-	-	-	-	-
C214.2		2	-	-	-	-	-	-	-	-	-	-
C214.3	-	-	-	-	2	-	-	-	-	-	-	-
C214.4	-	-	2	-	-	-	-	-	-	-	-	-
C214.5	-	-	2	-	-	-	-	-	-	-	-	-

C215 Python Programming Laboratory 21CSL46

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C215.1	3	3	3	-	-	-	-	-	-	-	-	-
C215.2	3	3	3	-	-	-	-	-	-	-	-	-
C215.3	3	3	2	-	-	-	-	-	-	-	-	-
C215.4	3	3	3	-	-	-	-	-	-	-	-	-
C215.5	3	3	-	-	-	-	-	-	-	-	-	1

C216 Unix Shell Programming 21CS482



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C311.4	3	3	1	-	-	-	-	-	-	-	-	-
C311.5	3	3	1	-	-	-	-	-	-	-	-	-

C312 SOFTWARE TESTING/18IS62

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C312.1	3	3	1	1	-	-	-	-	-	-	-	3
C312.2	3	3	3	1	-	-	-	-	-	-	-	3
C312.3	3	3	3	1	-	-	-	-	-	-	-	-
C312.4	3	3	3	2	-	-	-	-	-	-	-	3
C312.5	3	3	3	2	-	-	-	-	-	-	-	-
C312.6	3	3		3	2	-	-	-	-	-	-	

C313 WEB TECHNOLOGY AND ITS APPLICATIONS/18CS63

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C313.1	1	-	2	-	-	-	-	-	-	-	-	2
C313.2	1	-	2	-	-	-	-	-	-	-	-	2
C313.3	1	-	-	-	-	-	-	-	-	-	-	2
C313.4	1	-	-	-	-	-	-	-	-	-	-	2
C313.5	1	-	-	-	-	-	-	-	-	-	-	2

C315 Cloud Computing/18CS642

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	2	-	1	-	3	1	1	-	-	-	-	-
C315.2	2	-	1	-	3	1	1	-	-	-	-	-
C315.3	2	3	3	-	3	1	1	-	-	-	-	-
C315.4	2	1	1	-	3	1	1	-	-	-	-	-
C315.5	2	1	2	-	3	2	1	-	-	-	-	-

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING/18CS71

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO 12
CO1	3	3	3	3	2	-	-	-	-	-	-	3
CO2	-	2	-		2	-	-	-	-	-	-	3
CO3	-	2		2	2	-	-	-	-	-	-	3
CO4	2	2	2	2	2	-	-	-	-	-	-	2
CO5	3	-	3	-	2	-	-	-	-	-	-	3
CO6	3	-	3	-	2	-	-	-	-	-	-	3

Big Data and Analytics/18CS72

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO1 1	PO 12
CO1	3	2	1	3	2	-	-	2	2	2	-	3
CO2	2	2	-	2	2	-	-	-	2	2	-	2
CO3	2	2	-	2	1	2	2	-	2	2	-	2
CO4	3	2	3	2	1	2	-	-	2	-	-	2
CO5	2	2	2	2	1	-	-	-	2	2	-	2



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C416.1	1	3	-	-	-	-	-	-	-	1	-	2
C416.2	1	3		1	2	-	-	-	-	-	-	2
C416.3	1	-	-	-	-	-	-	-	-	2	-	2
C416.4	1	-	-	-	-	-	-	-	-	2	-	2

18IS84/ Internship

CO No.	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO9	PO 10	PO 11	PO 12
C414.1	2	2	1	-	-	-	-	-	-	-	-	2
C414.2	2	2	2	-	-	-	-	-	-	-	-	2
C414.3	2	2	2	-	-	-	-	-	-	-	-	2
C414.4	2	2	2	-	-	-	-	-	-	-	-	2

Project Phase 1 and 2 18ISP77/83

CO No.	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO8	PO9	PO 10	PO1 1	PO 12
C415.1	3	3	1	1	-	-	-	-	-	-	-	-
C415.2	3	3	3	2	3	1	2	-	3	3	2	3
C415.3	3	3	3	1	-	1	1	3	2	3	1	3
C415.4	3	1	3	2	1	-	-	-	-	-	1	2



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DEPARTMENT OF MECHANICAL ENGINEERING

Course Name: Elements of Mechanical Engineering (BEMEM103/203)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C105.1	3	2	-	-	-	1	1	-	-	1	-	1
C105.2	3	2				1	1			1		1
C105.3	3	2				1	1			1		1
C105.4	3	3				1	1					1

Course Name: Computer Aided Engineering Drawing (BCEDK203/203)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104.1	3	2	-	-	3	1	-	1	1	3	-	2
C104.2	3	2	-	-	3	1	-	1	1	3	-	2
C104.3	3	2	-	-	3	1	-	1	1	3	-	2
C104.4	3	2	-	-	3	1	1	-	1	3	-	1
C104.5	3	2	-	-	3	-	-	-	1	3	-	2

Course Name: Introduction to mechanical engineering (BESCK104D/204D)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104.1	3	-	-	-	-	1	2	-	-	1	-	1
C104.2	3	-	-	-	-	1	1	-	-	1	-	1
C104.3	3	-	-	-	-	1	1	-	-	1	-	1
C104.4	3	-	-	-	-	1	1	-	-	1	-	1
C104.5	3	-	-	-	-	1	1	-	-	1	-	1

Course Name: Transform Calculus, Fourier Series And Numerical Techniques (BSC 21MAT31)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201.1	3	3	3	2	2	-	-	-	-	-	-	3
C201.2	3	3	2	2	1	-	-	-	-	-	-	2
C201.3	3	3	2	2	1	-	-	-	-	-	-	2
C201.4	3	3	2	1	1	-	-	-	-	-	-	2
C201.5	3	3	3	2	2	-	-	-	-	-	-	3
C201.6	3	3	2	2	1	-	-	-	-	-	-	2

Course Name: Metal casting, Forming and Joining Processes (IPCC 21ME32)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202.1	3	2	-	-	-	-	-	-	-	-	-	-
C202.2	2	2	1	-	-	-	-	-	-	-	-	-
C202.3	2	1	-	-	-	-	-	-	-	-	-	-
C202.4	3	2	-	-	-	-	-	-	-	-	-	-
C202.5	3	-	-	-	-	-	-	-	-	-	-	-
C202.6	2	3	1	-	-	-	-	-	-	-	-	-

Course Name: Material Science and Engineering (IPCC 21ME33)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203.1	1	1	1	-	-	1	-	-	-	-	-	1
C203.2	2	1	1	-	-	1	1	-	-	-	-	1
C203.3	1	2	1	1	-	1	-	-	-	-	-	1
C203.4	2	-	2	1	1	1	1	-	-	-	-	1



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C204.3	2	1	-	-	-	-	-	-	-	-	-	-
C204.4	3	2	-	-	-	-	-	-	-	-	-	-
C204.5	3	-	-	-	-	-	-	-	-	-	-	-
C204.6	2	3	1	-	-	-	-	-	-	-	-	-

Course Name: Biology For Engineers (AEC 21BE45)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	2	2	1	1	-	-	-	-	-	-	-	2
C216.2	1	1	2	-	-	-	1	-	-	-	-	-
C216.3	1	2	1	2	-	-	-	-	-	-	-	-
C216.4	2	1	1	-	1	-	-	-	-	-	-	-
C216.5	-	1	1	1	1	-	-	-	-	-	-	-
C216.6	1	1	1	-	-	-	-	-	-	-	-	-

Course Name: Mechanical Measurements and Metrology Lab (PCC 21MEL46)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C217.1	1	2	2	2	-	-	-	-	-	-	-	2
C217.2	2	2	1	2	-	-	-	-	-	-	-	2
C217.3	2	2	2	2	-	-	-	-	-	-	-	2
C217.4	2	3	2	1	-	-	-	-	-	-	-	2
C217.5	1	2	1	2	-	-	-	-	-	-	-	2
C217.6	2	1	2	3	-	-	-	-	-	-	-	2

Course Name: Management and Economics (18ME51)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	1	1	-	1	1	-	-	-	-	-	-	-
C301.2	1	2	1	-	-	-	-	-	-	-	-	-
C301.3	1	2	1	1	-	-	-	-	-	-	-	-
C301.4	1	2	-	-	1	-	-	-	-	-	-	-
C301.5	-	-	-	2	-	-	-	-	-	-	-	-
C301.6	1	3	1	-	1	-	-	-	-	-	-	-

Course Name: Design of Machine Elements - I (18ME52)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	1	1	-	1	1	-	-	-	-	-	-	1
C302.2	1	2	1	-	-	-	-	-	-	-	-	-
C302.3	1	2	1	1	-	-	-	-	-	-	-	1
C302.4	1	2	-	-	1	-	-	-	-	-	-	-
C302.5	-	-	-	2	-	-	-	-	-	-	-	1
C302.6	1	3	1	-	1	-	-	-	-	-	-	-

Course Name: Dynamics of Machinery (18ME53)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	1	1	-	1	1	1	1	-	-	-	-	1
C303.2	1	2	1	-	-	-	-	-	-	-	-	-
C303.3	1	2	1	1	-	1	-	-	-	-	-	1
C303.4	1	2	-	-	1	2	1	-	-	-	-	-
C303.5	-	-	-	2	-	-	-	-	-	-	-	1
C303.6	1	3	1	-	1	2	-	-	-	-	-	1

Course Name: Turbo Machines (18ME54)



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CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	3	3	2	-	-	1	-	1	-	1	1	-
C304.2	3	3	2	-	-	1	-	1	-	1	1	-
C304.3	3	3	2	-	-	1	-	1	-	1	1	-
C304.4	3	3	2	-	-	1	-	1	-	1	1	-
C304.5	3	3	2	-	-	1	-	1	-	1	1	-
C304.6	3	3	2	-	-	-	-	-	-	1	-	-

Course Name: Fluid Power Engineering (18ME55)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	1	-	-	1	1	1	-	-	-	-	-	-
C402.2	1	1	1	-	1	1	-	-	-	-	-	-
C402.3	-	1	2	-	-	1	-	-	-	-	-	-
C402.4	-	-	-	-	1	1	-	-	-	-	-	-
C402.5	-	1	2	-	1	1	-	-	-	-	-	-
C402.6	2	-	1	1	-	-	-	-	-	-	-	-

Course Name: Operational Management (18ME56)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	2	1	2	1	1	-	-	-	-	-	-	-
C411.2	2	2	3	1	2	-	-	-	-	-	-	-
C411.3	2	1	2	-	1	-	-	-	-	-	-	-
C411.4	3	1	-	1	3	-	-	-	-	-	-	-
C411.5	3	2	3	-	3	-	-	-	-	-	-	-
C411.6	2	1	2	1	2	-	-	-	-	-	-	-

Course Name: Fluid Mechanics & Machinery Lab (18MEL57)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307.1	2	1	1	3	3	-	-	-	-	-	-	1
C307.2	2	2	1	2	2	-	-	-	-	-	-	1
C307.3	2	1	1	1	1	-	-	-	-	-	-	1
C307.4	2	2	1	1	1	-	-	-	-	-	-	1
C307.5	2	1	1	3	2	-	-	-	-	-	-	1
C307.6	2	2	1	2	3	-	-	-	-	-	-	1

Course Name: Energy Lab (18MEL58)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C308.1	1	1	1	2	2	1	1	-	-	-	-	1
C308.2	2	2	1	2	2	-	-	-	-	-	-	-
C308.3	2	1	1	1	1	1	1	-	-	-	-	1
C308.4	1	2	1	1	1	1	1	-	-	-	-	1
C308.5	2	1	1	2	2	-	1	-	-	-	-	-
C308.6	2	2	1	2	2	1	-	-	-	-	-	-

Course Name: Finite Element Method (18ME61)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	2	1	2	3	1	-	-	-	-	-	-	1
C311.2	2	2	3	1	2	-	-	-	-	-	-	1
C311.3	2	1	2	2	1	-	-	-	-	-	-	2
C311.4	3	1	3	2	3	-	-	-	-	-	-	3
C311.5	3	2	3	2	3	-	-	-	-	-	-	3



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C311.6	2	1	2	3	2	-	-	-	-	-	-	2
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Course Name: Design of Machine Elements -II (18ME64)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	2	2	2	2	2	1	-	-	-	-	-	1
C314.2	1	2	2	2	1	-	-	-	-	-	-	1
C314.3	2	2	2	1	2	1	-	-	-	-	-	1
C314.4	1	2	2	1	1	2	-	-	-	-	-	1
C314.5	2	1	2	1	1	1	-	-	-	-	-	1
C314.6	2	1	2	2	1	1	-	-	-	-	-	1

Course Name: Heat Transfer (18ME63)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313.1	2	1	2	1	1	-	-	-	-	-	-	1
C313.2	2	2	3	1	2	-	-	-	-	-	-	1
C313.3	2	1	2	2	1	-	-	-	-	-	-	2
C313.4	3	1	3	2	3	-	-	-	-	-	-	3
C313.5	3	2	3	1	3	-	-	-	-	-	-	3
C313.6	2	1	2	3	2	-	-	-	-	-	-	2

Course Name: Composite Material Technology (18ME645)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	2	1	1	1	1	1	-	-	-	-	-	-
C315.2	2	2	1	1	2	-	-	-	-	-	-	-
C315.3	2	1	1	2	1	1	-	-	-	-	-	-
C315.4	3	1	1	2	3	-	-	-	-	-	-	-
C315.5	3	2	1	1	3	-	-	-	-	-	-	-
C315.6	2	1	1	3	2	1	-	-	-	-	-	-

Course Name: Renewable Energy Resources (18ME653)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	1	2	-	-	-	-	-	-	-	-	1	-
C401.2	2	-	-	1	2	-	2	-	-	-	-	-
C401.3	2	-	2	-	-	-	-	-	-	-	1	-
C401.4	2	-	-	1	3	-	2	-	-	-	-	-
C401.5	2	1	-	-	1	-	3	-	-	-	1	-
C401.6	1	-	-	2	-	-	2	-	-	-	-	-

Course Name: Heat Transfer Lab (18MEL67)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C317.1	1	1	3	3	-	-	-	-	-	-	-	-
C317.2	1	2	3	3	-	-	-	-	-	-	-	-
C317.3	1	3	3	3	-	-	-	-	-	-	-	-
C317.4	1	3	1	3	-	-	-	-	-	-	-	-
C317.5	1	2	1	1	-	-	-	-	-	-	-	-
C317.6	1	1	1	1	-	-	-	-	-	-	-	-

Course Name: CAMA (18MEL68)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C318.1	2	2	1	1	1	-	-	-	-	-	-	-
C318.2	1	2	1	-	2	-	-	-	-	-	-	-
C318.3	1	1	1	1	2	-	-	-	-	-	-	-



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C318.4	1	1	2	1	2	-	-	-	-	-	-	-
C318.5	1	2	2	2	2	-	-	-	-	-	-	-
C318.6	1	2	2	1	2	-	-	-	-	-	-	-

Course Name: Control Engineering (18ME71)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	1	-	1	1	1	1	-	-	-	-	-	-
C403.2	1	1	1	-	1	1	-	-	-	-	-	-
C403.3	1	1	2	-	-	1	-	-	-	-	-	-
C403.4	1	-	-	-	1	1	-	-	-	-	-	-
C403.5	1	1	2	-	1	1	-	-	-	-	-	-
C403.6	2	-	1	1	-	-	-	-	-	-	-	-

Course Name: CADM (18ME72)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405.1	1	2	-	-	-	-	-	-	-	-	-	-
C405.2	2	-	-	1	2	-	2	-	-	-	-	-
C405.3	2	-	2	-	-	-	-	-	-	-	-	-
C405.4	2	-	-	1	3	-	2	-	-	-	-	-
C405.5	2	1	-	-	1	-	3	-	-	-	-	-
C405.6	1	-	-	2	-	-	2	-	-	-	-	-

Course Name: Total Quality Management (18ME734)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316.1	1	1	1	1	-	1	-	-	-	-	-	-
C316.2	-	2	1	1	-	-	-	-	-	-	-	-
C316.3	1	1	1	2	-	1	-	-	-	-	-	-
C316.4	1	1	1	2	-	-	-	-	-	-	-	-
C316.5	1	2	1	1	-	-	-	-	-	-	-	-
C316.6	-	1	1	3	-	1	-	-	-	-	-	-

Course Name: Mechatronics (18ME744)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C406.1	-	-	1	-	-	1	-	-	-	-	-	-
C406.2	-	-	-	1	-	1	2	-	-	-	-	-
C406.3	1	-	2	-	-	-	-	-	-	-	-	-
C406.4	-	-	-	1	-	1	2	-	-	-	-	-
C406.5	1	-	1	-	-	1	3	-	-	-	-	-
C406.6	-	-	-	1	-	1	2	-	-	-	-	-

Course Name: Design Lab (17MEL76)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C408.1	1	-	2	3	-	-	-	-	-	-	-	-
C408.2	3	1	2	2	-	-	-	-	-	-	-	-
C408.3	3	1	3	1	-	-	-	-	-	-	-	-
C408.4	-	1	2	3	-	-	-	-	-	-	-	-
C408.5	-	-	3	2	-	-	-	-	-	-	-	-
C408.6	3	1	2	1	-	-	-	-	-	-	-	-

Course Name: CIM Lab (17MEL77)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
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C409.1	2	2	2	-	2	-	-	-	-	-	-	-
C409.2	2	1	1	1	2	-	-	-	-	-	-	-
C409.3	2	1	1	1	2	-	-	-	-	-	-	-
C409.4	2	1	1	1	2	-	-	-	-	-	-	-
C409.5	2	1	1	1	2	-	-	-	-	-	-	-
C409.6	2	1	1	1	2	-	-	-	-	-	-	-

Course Name: Project Phase – I (17MEP78)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C410.1	2	1	2	1	-	-	-	1	1	1	1	-
C410.2	2	1	2	1	-	-	-	2	3	-	1	-
C410.3	2	1	2	1	-	-	-	1	2	-	1	-
C410.4	2	1	2	1	-	-	-	2	1	-	1	-
C410.5	2	1	2	1	-	-	-	1	1	-	1	-
C410.6	2	1	2	1	-	-	-	1	1	1	1	-

Course Name: Energy Engineering (18ME81)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	1	2	-	-	-	-	-	-	-	-	1	-
C401.2	2	-	-	1	2	-	2	-	-	-	-	-
C401.3	2	-	2	-	-	-	-	-	-	-	1	-
C401.4	2	-	-	1	3	-	2	-	-	-	-	-
C401.5	2	1	-	-	1	-	3	-	-	-	1	-
C401.6	1	-	-	2	-	-	2	-	-	-	-	-

Course Name: Non Destructive Technology (18ME832)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	-	1	-	1	1	-	-	-	-	-	-	-
C411.2	-	-	1	1	2	-	-	-	-	-	-	-
C411.3	1	1	-	-	1	-	-	-	-	-	-	-
C411.4	-	1	-	1	-	-	-	-	-	-	-	-
C411.5	-	2	3	-	3	-	-	-	-	-	-	-
C411.6	1	-	2	1	-	-	-	-	-	-	-	-

Course Name: Project Phase – II (18ME83)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.1	2	1	2	1	-	-	-	1	1	-	1	-
C413.2	2	1	2	1	-	-	-	2	3	-	1	-
C413.3	2	1	2	1	-	-	-	1	2	1	1	-
C413.4	2	1	2	1	-	-	-	2	1	-	1	-
C413.5	2	1	2	1	-	-	-	1	1	-	1	-
C413.6	2	1	2	1	-	-	-	1	1	1	1	-

Course Name: SEMINAR (18MES84)

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C414.1	1	2	1	1	1	2	2	-	-	-	-	1
C414.2	1	2	1	1	1	2	-	-	-	-	-	1
C414.3	1	2	2	1	2	-	-	-	-	-	-	1
C414.4	1	2	2	2	2	-	-	-	-	-	-	1
C414.5	1	1	2	2	2	-	-	-	-	1	1	1
C414.6	2	2	2	2	2	2	2	-	-	-	1	1



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C103.3	2	2	2	-	-	-	-	-	-	-	-	-	-
C103.4	3	2	1	-	-	-	-	-	-	-	-	-	-
C103.5	3	2	1	-	-	-	-	-	-	-	-	-	-

Course Name:C104(BESCK104B- Introduction to Electrical Engineering)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104.1	3	2	2	-	-	-	-	-	-	-	-	-
C104.2	2	3	2	-	-	-	-	-	-	-	-	-
C104.3	3	2	2	-	-	-	-	-	-	-	-	-
C104.4	3	2	2	-	-	-	-	-	-	-	-	-
C104.5	3	2	2	-	-	-	-	-	-	-	-	-

Course Name:C105(BPLCK105A- Introduction to Web Programming)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C105.1	3	2	2	-	-	-	-	-	-	-	-	-
C105.2	2	2	2	-	-	-	-	-	-	-	-	-
C105.3	3	2	2	-	-	-	-	-	-	-	-	-
C105.4	3	2	2	-	-	-	-	-	-	-	-	-

Course Name:C105(BPLCK105B- Introduction to Python Programming)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C105.1	3	2	2	-	-	-	-	-	-	-	-	-
C105.2	2	3	2	-	-	-	-	-	-	-	-	-
C105.3	3	2	2	-	-	-	-	-	-	-	-	-
C105.4	3	2	2	-	-	-	-	-	-	-	-	-

Course Name:C106(BENCK106- Communicative English)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C106.1	-	-	-	-	-	-	-	-	2	2	-	2
C106.2	-	-	-	-	-	-	-	-	2	2	-	2
C106.3	-	-	-	-	-	-	-	-	2	2	-	2



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Course Name: C202 (21MT32 – Analog and Digital Electronic Circuits)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202.1	2	1	1	1	1	-	-	-	-	-	-	1
C202.2	3	3	3	1	1	-	-	-	-	-	-	1
C202.3	2	3	3	3	2	-	-	-	-	-	-	1
C202.4	3	3	2	1	1	-	-	-	-	-	-	1
C202.5	3	3	2	1	1	-	-	-	-	-	-	1

Course Name: Course Name: C203 (21MT33 – Material Science and Manufacturing Technology)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203.1	3	2	1	1	-	-	-	-	-	-	-	1
C203.2	3	1	1	1	-	-	-	-	-	-	-	1
C203.3	3	1	2	1	-	-	-	-	-	-	-	1
C203.4	3	2	1	1	-	-	-	-	-	-	-	1
C203.5	3	1	1	1	-	-	-	-	-	-	-	1

Course Name: Course Name: C204 (21MT34 – Mechanics of Solids and Fluids)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	3	2	2	-	-	-	-	-	1	1	1	1
C204.2	3	3	2	-	-	-	-	-	1	1	1	1
C204.3	3	2	2	-	-	-	-	-	1	1	1	1
C204.4	3	3	2	-	-	-	-	-	1	1	1	1
C204.5	3	3	2	-	-	-	-	-	1	1	1	1

Course Name: Course Name: C205 (21MTL35 – Machine Drawing and GD and T)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205.1	3	3	-	-	-	-	-	-	3	3	1	1
C205.2	3	3	-	-	-	-	-	-	3	3	1	1
C205.3	3	3	-	-	-	-	-	-	3	3	1	1
C205.4	3	3	-	-	-	-	-	-	3	3	1	1
C205.5	3	3	-	-	-	-	-	-	3	3	1	1

Course Name: Course Name: C206 (21UH36 – Social Connect and Responsibility)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C206.1	-	-	-	-	-	3	3	-	-	-	1	1
C206.2	-	-	-	-	-	3	3	-	-	-	1	1
C206.3	-	-	-	-	-	-	-	-	-	-	3	-
C206.4	-	-	-	-	-	-	-	-	-	3	-	-
C206.5	-	-	-	-	-	-	-	-	3	-	-	-
C206.6	-	-	-	-	-	-	-	-	-	-	-	-

Course Name: Course Name: C208 (21MT382 – Trends in Digital Manufacturing)

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

Course Name: C212 (21MT42 – Electrical Drives and Control)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
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C212.1	2	2	1	1	-	-	-	-	1	1	1	1
C212.2	2	2	1	2	-	-	-	-	1	1	1	1
C212.3	2	2	1	2	-	-	-	-	1	1	1	1
C212.4	2	2	1	2	-	-	-	-	1	1	1	1
C212.5	2	-	1	1	-	-	-	-	1	1	1	1

Course Name: C213 (21MT43 – Hydraulics and Pneumatics)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	2	2	2	1	-	-	-	-	-	-	-	1
C213.2	3	2	1	1	-	-	-	-	-	-	-	1
C213.3	3	2	2	1	-	-	-	-	-	-	-	1
C213.4	2	2	1	1	-	-	-	-	-	-	-	1
C213.5	2	2	2	1	-	-	-	-	-	-	-	1

Course Name: C214 (21MT44 – Microcontrollers and its applications)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	3	1	1	1	-	-	-	-	-	-	-	1
C214.2	2	2	2	1	-	-	-	-	-	-	-	2
C214.3	2	2	2	1	-	-	-	-	-	-	-	2
C214.4	2	2	2	-	-	-	-	-	-	-	-	2
C214.5	2	2	2	-	-	-	-	-	-	-	-	2

Course Name: C215 (21BE45 – Biology for Engineers)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	2	1	-	-	-	-	-	-	-	-	-	-
C215.2	1	1	-	-	-	-	-	-	1	-	2	-
C215.3	-	-	-	-	2	-	-	-	-	-	-	-
C215.4	-	-	-	-	-	-	-	-	-	-	-	2

Course Name: C216 (21MTL46 – Mechatronics Lab)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	3	3	-	-	-	-	-	-	3	3	1	1
C216.2	3	3	-	-	-	-	-	-	3	3	1	1
C216.3	3	3	-	-	-	-	-	-	3	3	1	1
C216.4	3	3	-	-	-	-	-	-	3	3	1	1
C216.5	3	3	-	-	-	-	-	-	3	3	1	1

Course Name: Course Name: C207 (21CIP47 – Constitution of India and Professional Ethics)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C207.1	-	-	-	-	-	3	-	3	-	2	-	-
C207.2	-	-	-	-	-	3	-	3	-	2	-	-

Course Name: C218 (21MT481 – Programming in Python)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C218.1	2	1	1	-	-	-	-	-	-	-	-	1
C218.2	2	2	1	-	-	-	-	-	-	-	-	1
C218.3	2	2	1	-	-	-	-	-	-	-	-	1
C218.4	2	1	1	-	-	-	-	-	-	-	-	1
C218.5	2	1	1	-	-	-	-	-	-	-	-	1

Course Name: C219 (2UHV49 – Universal Human Values)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C219.1	-	-	-	-	-	-	3	-	-	-	-	1
C219.2	-	-	-	-	-	1	-	-	-	-	-	-



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C219.3	-	-	-	-	2	1	-	-	-	-	-	-
C219.4	-	-	-	-	2	2	-	-	-	-	-	1
C219.5	-	-	-	-	2	2	3	-	-	-	-	-

Course Name: C301 (18MT51 – MANAGEMENT & ENTREPRENEURSHIP)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	2	2	-	-	2	-	-	3	2	3	-	-
C301.2	2	2	-	-	3	-	-	3	2	3	-	-
C301.3	2	2	-	3	-	-	3	2	3	-	-	-
C301.4	-	2	-	-	3	-	-	3	3	3	-	-
C301.5	-	-	-	3	3	2	-	-	-	-	-	-

Course Name: C302 (18MT52 – Design and Analysis of Machine Elements)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	3	1	1	-	-	-	-	-	-	-	-	1
C302.2	3	2	2	1	-	-	-	-	-	-	-	1
C302.3	2	2	1	1	-	-	-	-	-	-	-	1
C302.4	2	2	1	1	-	-	-	-	-	-	-	1
C302.5	2	1	1	-	-	-	-	-	-	-	-	1

Course Name: C303 (18MT53 – Virtual Instrumentation)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	3	1	1	-	-	-	-	-	-	-	-	1
C303.2	3	2	1	-	-	-	-	-	-	-	-	1
C303.3	2	2	2	-	-	-	-	-	-	-	-	1
C303.4	2	2	1	1	-	-	-	-	-	-	-	1
C303.5	2	1	1	1	-	-	-	-	-	-	-	1

Course Name: C304 (18MT54 – Hydraulics and Pneumatics)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	3	2	1	1	-	-	-	-	-	-	-	1
C304.2	2	2	2	1	-	-	-	-	-	-	-	1
C304.3	2	2	2	1	-	-	-	-	-	-	-	1
C304.4	2	2	2	1	-	-	-	-	-	-	-	1
C304.5	2	2	2	1	-	-	-	-	-	-	-	1

Course Name: C305 (18MT55 – Micro and Smart Systems Technology)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	3	2	1	-	-	-	-	-	-	-	-	-
C305.2	2	1	1	-	-	1	-	-	-	-	-	1
C305.3	2	1	1	-	-	1	-	-	-	-	-	1
C305.4	2	2	1	-	-	1	-	-	-	-	-	1
C305.5	2	1	1	-	-	-	-	-	-	-	-	-

Course Name: C306 (18MT56 – Wireless Network and Communication)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306.1	3	2	1	-	-	1	-	-	-	-	-	1
C306.2	3	2	1	-	-	1	-	-	-	-	-	1
C306.3	2	1	1	-	-	1	-	-	-	-	-	1
C306.4	3	2	1	-	-	1	-	-	-	-	-	1
C306.5	2	1	1	-	-	1	-	-	-	-	-	1

Course Name: C307 (18MTL57 – Virtual Instrumentation Laboratory)



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CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307.1	2	2	-	-	-	1	-	-	-	-	-	-
C307.2	2	2	1	-	-	-	-	-	-	-	-	-
C307.3	2	2	1	-	-	-	-	-	-	-	-	-
C307.4	2	2	1	-	-	-	-	-	-	-	-	-
C307.5	2	2	-	-	-	1	-	-	-	-	-	-

Course Name: C308 (18MTL58 – MSST Laboratory)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C308.1	3	1	-	-	-	1	-	-	-	-	-	-
C308.2	2	2	1	-	-	-	-	-	-	-	-	-
C308.3	2	1	1	-	-	-	-	-	-	-	-	-
C308.4	2	1	1	-	-	-	-	-	-	-	-	-
C308.5	2	1	-	-	-	1	-	-	-	-	-	-

Course Name: C311 (18MT61 – PLC and SCADA)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	3	2	1	-	-	-	-	-	-	-	-	1
C311.2	2	2	2	-	-	1	-	-	-	-	-	1
C311.3	3	2	2	-	-	-	-	-	-	-	-	1
C311.4	3	2	2	-	-	1	-	-	-	-	-	1
C311.5	2	2	1	-	-	-	-	-	-	-	-	1

Course Name: C312 (18MT62 – Power Electronics)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	3	2	1	-	-	1	-	-	-	-	-	1
C312.2	2	2	2	1	-	1	-	-	-	-	-	1
C312.3	3	2	2	1	-	1	-	-	-	-	-	1
C312.4	2	2	2	1	-	1	-	-	-	-	-	1
C312.5	2	2	1	1	-	1	-	-	-	-	-	1

Course Name: C313 (18MT63 Computer Aided Machine Drawing)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313.1	3	1	-	-	-	-	-	-	-	-	-	-
C313.2	2	2	1	-	-	-	-	-	-	-	-	1
C313.3	2	2	1	-	-	-	-	-	-	-	-	-
C313.4	2	2	-	-	-	-	-	-	-	-	-	1
C313.5	2	2	-	-	-	-	-	-	-	-	-	-

Course Name: C314 (18MT642 Rapid Prototyping)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	2	2	-	-	-	-	-	-	-	-	-	1
C314.2	2	2	-	-	-	1	-	-	-	-	-	1
C314.3	2	1	-	-	-	1	-	-	-	-	-	1
C314.4	2	1	-	-	-	-	-	-	-	-	-	1
C314.5	2	2	-	-	-	-	-	-	-	-	-	1

Course Name: C315 (18EE653 Renewable Energy Sources)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	3	2	-	-	-	1	-	-	-	-	-	1
C315.2	2	2	-	-	-	-	-	-	-	-	-	-
C315.3	1	1	-	-	-	1	-	-	-	-	-	-
C315.4	2	1	-	-	-	1	-	-	-	-	-	1



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C315.5	2	1	-	-	-	-	-	-	-	-	-	1
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Course Name: C316 (18MTL66 – PLC and SCADA Laboratory)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316.1	3	2	-	-	-	-	-	-	-	-	-	1
C316.2	2	2	1	-	-	-	-	-	-	-	-	1
C316.3	3	2	1	-	-	-	-	-	-	-	-	1
C316.4	2	3	1	-	-	1	-	-	-	-	-	-
C316.5	2	2	-	-	-	1	-	-	-	-	-	-

Course Name: C317 (18MTL67 – Power Electronics Laboratory)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C317.1	3	2	1	-	-	-	-	-	-	-	-	1
C317.2	3	2	1	-	-	1	-	-	-	-	-	1
C317.3	2	1	1	-	-	1	-	-	-	-	-	1
C317.4	2	2	1	-	-	-	-	-	-	-	-	1
C317.5	2	2	1	-	-	-	-	-	-	-	-	1

Course Name: C318 (18MTMP68 – Mini Project)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C318.1	3	3	1	3	2	-	-	-	2	2	-	-
C318.2	3	3	1	3	2	-	-	-	2	2	-	-
C318.3	3	2	2	2	2	-	-	-	2	2	-	-
C318.4	2	3	2	2	2	-	-	-	2	2	-	-
C318.5	2	2	2	2	2	-	-	-	2	2	-	-

Course Name: C401 (18MT71 – Industrial Robotics)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	3	3	-	3	3	-	1	-	-	2	2	2
C401.2	3	3	1	3	3	1	2	-	2	2	2	3
C401.3	3	2	1	2	2	-	2	1	-	1	1	2
C401.4	2	2	1	3	3	1	3	-	2	2	2	3
C401.5	3	3	-	2	3	-	3	1	-	2	2	3

Course Name: C402 (18MT72 – Thermal Engineering)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	3	-	-	-	-	-	-	-	-	-	-	-
C402.2	2	3	-	-	-	-	-	2	3	3	-	-
C402.3	1	-	3	3	-	-	-	2	3	2	-	-
C402.4	1	3	3	-	-	-	-	2	3	3	-	-
C402.5	1	3	-	-	-	-	-	2	3	2	-	-
C402.6	1	3	-	-	-	-	-	2	3	2	-	-

Course Name: C403 (18MT733– Real Time Systems)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	3	3	-	3	3	-	1	-	-	2	2	2
C403.2	3	3	1	3	3	1	2	-	2	2	2	3
C403.3	3	2	1	2	2	-	2	1	-	1	1	2
C403.4	2	2	1	3	3	1	3	-	2	2	2	3
C403.5	3	3	-	2	3	-	3	1	-	2	2	3

Course Name: C403 (18MT743 – Artificial Intelligence)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C404.1	3	3	2	3	-	2	2	1	1	1	1	1



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C404.2	3	2	3	3	-	2	2	1	1	1	1	1
C404.3	3	3	2	3	-	1	2	1	1	1	1	1
C404.4	2	2	2	2	-	2	2	1	1	1	1	1
C404.5	3	3	3	3	-	2	2	1	1	1	1	1

Course Name: C405 (18CS751- Programming in Python)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405.1	3	1	1	-	-	1	-	-	-	-	-	-
C405.2	2	2	2	1	-	-	-	-	-	-	-	1
C405.3	2	2	1	-	-	1	-	-	-	-	-	-
C405.4	2	1	2	1	-	-	-	-	-	-	-	1
C405.5	2	2	1	-	-	1	-	-	-	-	-	-

Course Name: C406 (18MTL76-Robotics Lab)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C406.1	2	2	1	-	-	-	-	-	-	-	-	-
C406.2	2	1	1	-	-	1	-	-	-	-	-	-
C406.3	2	2	2	-	-	-	-	-	-	-	-	1
C406.4	2	1	1	-	-	1	-	-	-	-	-	-
C406.5	2	2	1	-	-	-	-	-	-	-	-	1

Course Name: C407 (18EEL77-Thermal Lab)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C407.1	2	1	1	-	-	-	-	-	-	-	-	-
C407.2	3	2	-	-	-	-	-	-	-	-	-	-
C407.3	2	1	1	-	-	-	-	-	-	-	-	-
C407.4	3	2	-	-	-	-	-	-	-	-	-	-
C407.5	2	1	1	-	-	-	-	-	-	-	-	-

Course Name: C408 (18MTP78-Project Work)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C408.1	3	3	1	3	2	-	-	-	2	2	-	-
C408.2	3	3	1	3	2	-	-	-	2	2	-	-
C408.3	3	2	2	2	2	-	-	-	2	2	-	-
C408.4	2	3	2	2	2	-	-	-	2	2	-	-
C408.5	2	2	2	2	2	-	-	-	2	2	-	-

Course Name: C411 (18MT81 – Automotive electronics and Hybrid Vehicles)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	2	1	-	-	-	-	-	-	-	-	-	1
C411.2	3	2	1	-	-	1	-	-	-	-	-	-
C411.3	2	2	1	-	-	-	-	-	-	-	-	1
C411.4	2	2	1	-	-	1	-	-	-	-	-	-
C411.5	3	1	-	-	-	1	-	-	-	-	-	-

Course Name: C412 (18MT824 – Management Information systems)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	-	-	-	2	-	-	-	1	2	1	2	-
C412.2	-	-	-	1	-	-	-	1	2	1	1	-
C412.3	-	-	-	1	-	-	-	1	1	1	2	-
C412.4	-	-	-	1	-	-	-	1	2	1	2	-



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C412.5	-	-	-	2	-	-	-	1	2	1	2	2
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Course Name: C413 (18MTP83-Project Work Phase 2)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.1	3	3	1	3	2	-	-	-	2	2	-	-
C413.2	3	3	1	3	2	-	-	-	2	2	-	-
C413.3	3	2	2	2	2	-	-	-	2	2	-	-
C413.4	2	3	2	2	2	-	-	-	2	2	-	-
C413.5	2	2	2	2	2	-	-	-	2	2	-	-

Course Name: C414 (18MTS84 - Seminar)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C414.1	3	3	1	3	2	-	-	-	2	2	-	-
C414.2	3	3	1	3	2	-	-	-	2	2	-	-
C414.3	3	2	2	2	2	-	-	-	2	2	-	-
C414.4	2	3	2	2	2	-	-	-	2	2	-	-
C414.5	2	2	2	2	2	-	-	-	2	2	-	-

Course Name: C415 (18MTI85 - Internship)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C415.1	3	3	-	3	3	-	1	-	-	2	2	2
C415.2	3	3	1	3	3	1	2	-	2	2	2	3
C415.3	3	2	1	2	2	-	2	1	-	1	1	2
C415.4	2	2	1	3	3	1	3	-	2	2	2	3
C415.5	3	3	-	2	3	-	3	1	-	2	2	3



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CO4	-	1	-	-	2	-	-	-	-	-	-	-
CO5	1	-	2	-	-	-	-	-	-	-	-	-

Course Name: Database Management System(22MCA21) Year of Study: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	-	2	-	-	-	-	-	-	-	-	-
CO2	-	2	-	-	2	-	-	-	-	-	-	-
CO3	2	-	2	-	-	-	-	-	-	-	-	-
CO4	2	-	-	2	-	-	-	-	-	-	-	-
CO5	-	2	2	-	-	-	-	-	-	-	-	-

Course Name: Object Oriented Programming with Java(22MCA22) Year of Study: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	1	-	-	-	-	-	-	-	-	-
CO2	-	3	-	-	2	-	-	-	-	-	-	-
CO3	-	-	2	-	2	-	-	-	-	-	-	-
CO4	-	2	-	2	-	-	-	-	-	-	-	-
CO5	2	-	-	-	-	-	2	-	-	-	-	-
CO6	-	2	-	-	1	-	-	-	-	-	-	-
CO7	2	-	1	-	-	-	-	-	-	-	-	-

Course Name: Software Engineering (22MCA23) Year of Study: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	2	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	2	-	-	-	-
CO3	-	-	2	-	-	-	-	-	-	1	-	-
CO4	-	-	-	-	2	-	-	-	-	-	-	-
CO5	3	-	-	-	-	-	-	-	-	-	-	-

Course Name: Web Technologies(22MCA24) Year of Study: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	2	-	-	-	-	-	-	-	-
CO2	-	3	-	-	-	2	-	-	-	-	-	-
CO3	2	-	2	-	-	-	-	-	-	-	-	-
CO4	-	2	-	-	2	-	-	-	-	-	-	-
CO5	2	-	2	-	-	-	-	-	-	-	-	-
CO6	2	-	1	-	-	-	-	-	-	-	-	-
CO7	-	2	-	-	-	2	-	-	-	-	-	-

Course Name: Data Mining and Business Intelligence (22MCA251) Year of Study: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	3	-	-	2	-	-	-	-	-	-	-
CO2	-	-	2	2	-	-	-	-	-	-	-	-
CO3	2	-	2	-	-	-	-	-	-	-	-	-
CO4	2	2	-	-	-	-	-	-	-	-	-	-
CO5	-	1	-	-	1	-	-	-	-	-	-	-

Course Name: User Interface Design (22MCA254) Year of Study: 2022-23



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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	3	-	2	-	-	-	-	-	-	-	-
CO2	2	-	-	-	-	-	2	-	-	-	-	-
CO3	-	2	-	-	2	-	-	-	-	-	-	-
CO4	2	-	-	-	-	3	-	-	-	-	-	-
CO5	-	-	2	2	-	-	-	-	-	-	-	-

Course Name: Artificial Intelligence (22MCA262)

Year of Study: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	2	-	2	-	-	-	-	-	-	-	-
CO2	3	-	3	-	-	-	-	-	-	-	-	-
CO3	-	2	2	-	-	-	-	-	-	-	-	-
CO4	2	-	2	-	-	-	-	-	-	-	-	-
CO5	2	2	-	-	-	-	-	-	-	-	-	-

Course Name: Mobile Application Development (22MCA263)

Year of Study: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	-	2	-	-	-	-	-	-	-	-	-
CO2	-	2	-	-	2	-	-	-	-	-	-	-
CO3	-	-	-	2	-	2	-	-	-	-	-	-
CO4	2	-	2	-	-	-	-	-	-	-	-	-
CO5	-	2	-	-	-	-	1	-	-	-	-	-

Course Name: Data Analytics using Python (20MCA31)

Year of Study: 2021-22

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	2	-	-	-	-	-	-	-	-	-
CO2	1	3	-	1	-	-	-	-	-	-	-	-
CO3	1	2	2	-	-	2	-	-	-	-	-	-
CO4	3	2	-	2	1	-	-	-	-	-	-	-
CO5	1	2	1	-	-	-	-	-	-	-	-	-

Course Name: Internet of Things (20MCA32)

Year of Study: 2021-22

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	2	-	2	-	-	-	-	-	-	-
CO2	2	2	1	-	-	1	-	-	-	-	-	-
CO3	2	1	2	1	1	-	-	-	-	-	-	-
CO4	1	3	1	-	-	-	-	-	-	-	-	-
CO5	2	2	2	3	2	-	-	-	-	-	-	-

Course Name: Advances in Java (20MCA33)

Year of Study: 2021-22

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2	2	-	1	-	-	-	-	-	-
CO2	2	3	2	1	-	-	-	-	-	-	-	-
CO3	1	-	3	2	-	-	-	-	-	-	-	-
CO4	1	2	1	2	-	1	-	-	-	-	-	-
CO5	2	-	2	1	-	-	-	-	-	-	-	-

Course Name: Cloud Computing (20CA342)

Year of Study: 2021-22



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DEPARTMENT OF MBA

Course Name: C111 (Management & Organizational Behaviour - 22MBA11)

	PO1	PO2	PO3	PO4	PO5
C111.1	1				2
C111.2		2	2		
C111.3				3	
C111.4		2		2	

Course Name: C112 (Entrepreneurship Development- 22MBA12)

	PO1	PO2	PO3	PO4	PO5
C112.1	2				3
C112.2	1	2			2
C112.3	1		1	2	
C112.4	1				1
C112.5	1		3		1
C112.6	1		1		

Course Name: C113 (Accounting for Managers - 22MBA13)

	PO1	PO2	PO3	PO4	PO5
C113.1	1				2
C113.2			2		
C113.3				3	

Course Name: C114 (Statistics for Managers- 22MBA14)

	PO1	PO2	PO3	PO4	PO5
C114.1	1				2
C114.2		2	2		
C114.3				3	
C114.4		2		2	
C114.5	2	3			

Course Name: C115 (Marketing Management - 22MBA15)

	PO1	PO2	PO3	PO4	PO5
C115.1	1				2
C115.2	1		2		



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C115.3				3	
C115.4		2		2	
C115.5		2			2

Course Name: C116 (Business Communication - 22MBA16)

	PO1	PO2	PO3	PO4	PO5
C116.1	1				2
C116.2			2		
C116.3				3	
C116.4		2		2	

Course Name: C121 (Human Resource Management -22MBA21)

	PO1	PO2	PO3	PO4	PO5
C121.1	1				2
C121.2	1		2		
C121.3		2		3	
C121.4	1	2		2	
C121.5		2			2

Course Name: C122 (Financial Management -22MBA22)

	PO1	PO2	PO3	PO4	PO5
C122.1	1				2
C122.2			2		
C122.3				3	
C112.4		2		2	
C112.5	1				2

Course Name: C123 (Research Methodology & IPR -22MBA23)

	PO1	PO2	PO3	PO4	PO5
C123.1	1				2
C123.2			2		
C123.3				3	
C123.4		2		2	
C123.5	2		3		2



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Course Name: C124 (Operational Research -22MBA24)

	PO1	PO2	PO3	PO4	PO5
C124.1	1				2
C124.2		2	2		
C124.3				3	
C124.4		2		2	

Course Name: C125 (Strategic Management -22MBA25)

	PO1	PO2	PO3	PO4	PO5
C125.1	1				2
C125.2			2		
C125.3				3	
C125.4		2		2	

Course Name: C126 (Managerial Economics -22MBA26)

	PO1	PO2	PO3	PO4	PO5
C126.1	3		1		
C126.2	3	2		1	
C126.3	2				1
C126.4	2		3		1
C126.5	2			1	3
C126.6	3			1	

Course Name: C231 (EMERGING EXPONENTIAL TECHNOLOGIES -20MBA301)

	PO1	PO2	PO3	PO4	PO5
C231.1	3				
C231.2		2		1	
C231.3		1		1	
C231.4	2				

Course Name: C232 (Technology & Operational Strategy -20MBA302)

	PO1	PO2	PO3	PO4	PO5
C232.1	3	-	-	-	-
C232.2		-	-	2	-
C232.3		-	-	2	-
C232.4		-	2	2	1



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C232.5		-	2	-	1
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Course Name: C233 (SERVICES MARKETING -20MBAMM303)

	PO1	PO2	PO3	PO4	PO5
C233.1	3	-	-	-	-
C233.2		-	-	2	-
C233.3		-	2	-	1

Course Name: C234 (MARKETING RESEARCH & ANALYTICS -20MBAMM304)

	PO1	PO2	PO3	PO4	PO5
C234.1	3	-	2	-	-
C234.2		2	-	2	-
C234.3		-	1	-	1
C234.4		-	-	2	1

Course Name: C235 (INVESTMENT MANAGEMENT -20MBAFM303)

	PO1	PO2	PO3	PO4	PO5
C235.1	3	-	-	-	-
C235.2		-	-	2	1
C235.3		-	-	-	1
C235.4		-	-	1	-

Course Name: C236 (DIRECT TAXATION - 20MBAFM304)

	PO1	PO2	PO3	PO4	PO5
C236.1	3	-	-	-	-
C236.2		-	-	1	-
C236.3	2	-	-	-	-
C236.4	3	-	-	-	-

Course Name: C237 (RECRUITMENT AND SELECTION -20MBAHR303)

	PO1	PO2	PO3	PO4	PO5
C237.1	3	-	-	-	-



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C237.2		-	-	1	-
C237.3	2	-	-	-	-
C237.4		-	2	2	

Course Name: C238 (HUMAN RESOURCE ANALYTICS -20MBAHR304)

	PO1	PO2	PO3	PO4	PO5
C238.1	3	-	-	-	1
C238.2		-	-	1	-
C238.3		2	-	1	-
C238.4		-	-	1	-

Course Name: C239 (INTERNSHIP- 22MBAIN307)

	PO1	PO2	PO3	PO4	PO5
C239.1	3	-	-	-	-
C239.2	3	-	-	-	-
C239.3		2	-	-	-
C239.4		1	-	-	-
C129.5		1	-	1	-

Course Name: C241 (B2B Marketing-20MBAMM401)

	PO1	PO2	PO3	PO4	PO5
C241.1	3	-	-	-	-
C241.2		2	1	-	-
C241.3		3	2	-	1
C241.4		-	2	1	1

Course Name: C242 (Logistics & Supply Chain Management -20MBAMM402)

	PO1	PO2	PO3	PO4	PO5
C242.1	3	-	-	-	-
C242.2		-	2	2	-
C242.3		-	-	-	1



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C242.4		-	-	1	-
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Course Name: C243 (Digital & Social Media Marketing -20MBAMM403)

	PO1	PO2	PO3	PO4	PO5
C243.1	3	-	-	-	-
C243.2		2	-	-	-
C243.3		-	1	1	-
C243.4		-	1	-	1

Course Name: C244 (Risk Management & Insurance -20MBAFM401)

	PO1	PO2	PO3	PO4	PO5
C244.1	3	-	-	-	
C244.2		-	1	1	-
C244.3		2	-	-	-
C244.4	3	-	-	-	-

Course Name: C245 (Financial Derivatives -20MBAFM402)

	PO1	PO2	PO3	PO4	PO5
C245.1	3	-	-	-	-
C245.2		-	-	1	-
C245.3		-	-	1	-
C245.4	1	-	-	1	-

Course Name: C246 (Indirect Taxation -20MBAFM403)

	PO1	PO2	PO3	PO4	PO5
C246.1	3	-	-	-	-
C246.2	2	-	-	-	-
C246.3	2	-	-	-	-
C246.4	2	-	-	-	1



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Course Name: C247 (Organizational Leadership -20MBAHR401)

	PO1	PO2	PO3	PO4	PO5
C247.1	3	-	-	-	-
C247.2	2	-	2	1	1
C247.3	3	-	2	1	-
C247.4	2	-	2	-	1

Course Name: C248 (Personal Growth & Interpersonal Effectiveness-20MBAHR402)

	PO1	PO2	PO3	PO4	PO5
C248.1	3	-	3	-	-
C248.2	2	-	2	1	1
C248.3	3	2	2	-	-
C248.4	2	2	2	-	1

Course Name: C249 (International Human Resource Management -20MBAHR403)

	PO1	PO2	PO3	PO4	PO5
C249.1	3	-	2	-	1
C249.2	2	-	3	-	1
C249.3	3	2	2	-	-
C249.4	2	-	2	1	1

Course Name: C2410 (Project Work -20MBAPR407)

	PO1	PO2	PO3	PO4	PO5
C2410.1	3	-	-	-	1
C2410.2	2	2	-	-	-
C2410.3	2	-	-	-	-
C2410.4	2	1	-	-	-