



# THE OXFORD COLLEGE OF ENGINEERING

(Recognized by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, & Approved by A.I.C.T.E. Accredited by NBA, NAAC with 'A' Grade. Recognized by UGC under section 2(f))

Bommanahalli, Hosur Road, Bengaluru –560068.

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## Academic Year 2023-2024

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## CO-PO MAPPING

Academic year 2023-24

Course Name: BBT301- Cell Biology & Genetics

CO/PSO	PSO1	PSO2
C201.1	3	3
C201.2	3	2
C201.3	3	2
C201.4	3	3

Course Name: BBT302 – Unit Operaton + Lab

CO/PSO	PSO1	PSO2
C202.1	1	1
C202.2	2	2
C202.3	3	2
C202.4	2	-
C202.5	2	2

**Course Name: Biochemistry-BBT303**

CO/PSO	PSO1	PSO2
C203.1	2	2
C203.2	2	2
C203.3	2	2
C203.4	2	2

**Course Name: Microbiology –BBT304**

CO/PSO	PSO1	PSO2
C204.1	3	2
C204.2	2	2
C204.3	3	3
C204.4	3	3
C204.5	2	2

**Course Name: BBTL305 Microbiology Lab**

CO/PSO	PSO1	PSO2
C205.1	3	-
C205.2	3	-
C205.3	3	2

**Course Name: BBTL30 Python Programming**

CO/PSO	PSO1	PSO2
C206.1	1	2
C206.2	1	1
C206.3	2	2
C206.4	2	1
C206.5	2	2

**Course Name: BSCK307 Social Connect and Responsibility**

CO/PSO	PSO1	PSO2
C207.1	3	2
C207.2	2	2
C207.3	3	3
C207.4	3	2

**Course Name: BBT358A Biolab Management & Risk Assessment**

CO/PSO	PSO1	PSO2
C208.1	3	2
C208.1	2	2
C208.1	2	2
C208.1	2	2

**Course Name: BBT401 Molecular Biology & Genetic Engineering**

CO/PSO	PSO1	PSO2
C209.1	3	2
C209.2	3	2
C209.3	3	2
C209.4	2	2

**Course Name: BBT402 Biostatistics Tools & Lab**

CO/PSO	PSO1	PSO2
C210.1	-	-
C210.2	-	-
C210.3	-	-

**Course Name: BBT403 Immunotechnology + Lab**

CO/PSO	PSO1	PSO2
C211.1	2	2
C211.2	2	2
C211.3	2	2

**Course Name: BBTL404 Molecular Biology & Genetic Engineering Lab**

CO/PSO	PSO1	PSO2
C212.1	3	2
C212.2	3	3
C212.3	3	2

**Course Name: BBT405 Bioprocess Principles & Stoichiometry**

CO/PSO	PSO1	PSO2
C213.1	1	-
C213.2	2	1
C213.3	1	1
C213.4	2	2



**Course Name: BBT456 Biopesticides & Biofertilizers**

CO/PSO	PSO1	PSO2
C214.1	1	2
C214.2	2	3
C214.3	3	2

**Course Name: BBOK407 Biology for Engineers**

CO/PSO	PSO1	PSO2
C215.1	1	2
C215.2	2	3
C215.3	3	2
C215.4	2	2

**Course Name: BUHK408 Universal Human Values**

CO/PSO	PSO1	PSO2
C216.1	3	2
C216.2	3	2
C216.3	3	2
C216.4	2	2

**Course Name: 21BT51 Biokinetics & Bioreaction Engg**

CO/PSO	PSO1	PSO2
C301.1	2	2
C301.2	3	3
C301.3	2	3
C301.4	2	2
C301.5	2	3

**Course Name: 21BT52 Immunotechnology + Lab**

CO/PSO	PSO1	PSO2
C302.1	2	-
C302.2	2	2
C302.3	2	2

**Course Name: 21BT53 Structural Biology & Analytical Techniques**

CO/PSO	PSO1	PSO2
C304.1	3	1
C304.2	3	1
C304.3	3	3

**Course Name: 21BTL55 Bioinformatics Lab**

CO/PSO	PSO1	PSO2
C305.1	3	2
C305.2	3	1
C305.3	3	3

**Course Name: 21RMI56 Research Methodology & IPR**

CO/PSO	PSO1	PSO2
C306.1	3	3
C306.2	3	3
C306.3	3	2
C306.4	3	2

**Course Name: 21CIV57 Environmental Studies**

CO/PSO	PSO1	PSO2
C307.1	3	3
C307.2	3	3
C307.3	3	3
C307.4	3	3

**Course Name: 21BT584 Good Manufacturing & Laboratory Practices**

CO/PSO	PSO1	PSO2
C308.1	3	2
C308.2	3	3
C308.3	3	2

**Course Name: 21BT61 Biobusiness Management & Entrepreneurship**

CO/PSO	PSO1	PSO2
C309.1	2	2
C309.2	3	3
C309.3	2	3
C309.4	2	2
C309.5	2	3

**Course Name: 21BT62 Bioprocess Principles Control & Automation Lab**

CO/PSO	PSO1	PSO2
C310.1	2	-
C310.2	2	1
C310.3	2	2

**Course Name: 21BT63 Enzyme Technology**

CO/PSO	PSO1	PSO2
C311.1	3	1
C311.2	3	1
C311.3	3	3
C311.4	3	1
C311.5	3	3

**Course Name: 21BT644 Stem Cell Technology**

CO/PSO	PSO1	PSO2
C312.1	2	1
C312.2	2	1
C312.3	3	2

**Course Name: 21CIV64 Conservation of Natural Resources**

CO/PSO	PSO1	PSO2
C313.1	2	-
C313.2	1	2
C313.3	-	2

**Course Name: 21BTL66 Enzyme Technology Lab**

CO/PSO	PSO1	PSO2
C314.1	2	1
C314.2	2	2

**Course Name: 21BTMP67 Mini Project**

CO/PSO	PSO1	PSO2
C315.1	3	3
C315.2	2	-
C315.3	3	2
C315.4	3	3

**Course Name: 18BT71 Bioprocess Engineering**

CO/PSO	PSO1	PSO2
C401.1	3	1
C401.2	3	3
C401.3	3	3
C401.4	3	3
C401.5	3	3

**Course Name: 18BT72 Clinical Pharmaceutical Biotechnology**

CO/PSO	PSO1	PSO2
C402.1	1	1
C402.2	2	2
C402.3	2	1
C402.4	1	2
C402.5	1	2

**Course Name: 18BT731 Process Equipment and Plant Design**

CO/PSO	PSO1	PSO2
C403.1	2	3
C403.2	2	-
C403.3	-	2
C403.4	2	2
C403.5	1	2

**Course Name: 18BT741 Bioethics, Biosafety & IPR**

CO/PSO	PSO1	PSO2
C404.1	2	2
C404.2	1	2
C404.3	2	3
C404.4	3	3
C404.5	1	3

**Course Name: 18ME751 Energy & Environment**

CO/PSO	PSO1	PSO2
C405.1	2	2
C405.2	2	3
C405.3	1	-
C405.4	-	2
C405.5	2	3

**Course Name: 18BTL76 Bioprocess Engineering Laboratory**

CO/PSO	PSO1	PSO2
CSL76.1	3	3
CSL76.2	3	3
CSL76.3	3	3

**Course Name: 18BTP77 Project Work Phase-1**

CO/PSO	PSO1	PSO2
C407.1	3	3
C407.2	3	3
C407.3	3	3
C407.4	2	2
C407.5	3	3

**Course Name: 18BT81 Regulatory Affairs In Biotech Industry**

CO/PSO	PSO1	PSO2
C408.1	2	2
C408.2	1	3
C408.3	3	2
C408.4	3	3
C408.5	2	3

**Course Name: 18BT823 Industrial Microbiology**

CO/PSO	PSO1	PSO2
C409.1	3	2
C409.2	2	1
C409.3	2	3
C409.4	1	2
C409.5	3	2

**Course Name: 18BTP83 Project Phase-2**

CO/PSO	PSO1	PSO2
C411.1	3	3
C411.2	2	-
C411.3	3	2
C411.4	3	3
C411.5	3	3



**Course Name: 18BTS84 Technical Seminar**

CO/PSO	PSO1	PSO2
C412.1	3	3
C412.2	3	2
C412.3	1	-
C412.4	2	-
C412.5	-	-

**Course Name: 18BT185 Internship**

CO/PSO	PSO1	PSO2
C410.1	3	2
C410.2	3	3
C410.3	3	3
C410.4	3	3
C410.5	3	3

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## Academic Year 2023-2024

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9.	BCS401 - Analysis & Design of Algorithms
10.	BCS402 - Microcontrollers

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<b>28.</b>	<b>21CS61 - Software Engineering &amp; Project Management</b>
<b>29.</b>	<b>21CS62 - Fullstack Development</b>
<b>30.</b>	<b>21CS63 - Computer Graphics and Fundamentals of Image Processing</b>
<b>31.</b>	<b>21CS644 - Data science and Visualization</b>
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## CO-PSO MAPPING

Academic year 2023-24

Course Name: BCS301- Mathematics for Computer Science

CO/PO	PSO1	PSO2
C301.1	3	3
C301.2	3	-
C301.3	3	2
C301.4	-	2
C301.5	-	-
C301.6	3	2

Course Name: BCS302 - Digital Design & Computer Organization

CO/PO	PSO1	PSO2
C302.1	-	-
C302.2	-	-
C302.3	1	-
C302.4	1	-
C302.5	1	-

**Course Name: Operating Systems-BCS303**

CO/PO	PSO1	PSO2
C303.1	-	1
C303.2	2	2
C303.3	2	-
C303.4	2	2
C303.5	2	1
C303.6	2	1

**Course Name:Data Structures and Applications –BCS304**

CO/PO	PSO1	PSO2
C304.1	-	1
C304.2	2	1
C304.3	2	1
C304.4	2	-
C304.5	-	-

**Course Name: BCSL305 Data Structures Lab**

CO/PO	PSO1	PSO2
C305.1	1	-
C305.2	2	1
C305.3	1	-
C305.4	2	1

**Course Name: BSCK307 Social Connect and Responsibility**

CO/PO	PSO1	PSO2
C307.1	1	-
C307.2	1	-
C307.3	1	-
C307.4	1	-

**Course Name: BCS358A Data analytics with Excel**

CO/PO	PSO1	PSO2
C358A.1	1	2
C358A.2	-	-
C358A.3	-	-
C358A.4	1	1

**Course Name: BCS306B Object Oriented Programming with C++**

CO/PO	PSO1	PSO2
C306B.1	2	1
C306B.2	-	-
C306B.3	-	-
C306B.4	-	-
C306B.5	2	2
C306B.6	1	1



**Course Name: BCS401 Analysis & Design of Algorithms**

CO/PO	PSO1	PSO2
CS401.1	3	3
CS401.2	3	3
CS401.3	3	3
CS401.4	-	-
CS401.5	-	-
CS401.6	3	3

**Course Name: BCS402 Microcontrollers**

CO/PO	PSO1	PSO2
CS402.1	2	2
CS402.2	2	1
CS402.3	-	-
CS402.4	-	-
CS402.5	2	1

**Course Name: BCS403 Database Management Systems**

CO/PO	PSO1	PSO2
CS403.1	2	1
CS403.2	3	2
CS403.3	2	1
CS403.4	-	-
CS403.5	-	-
CS403.6	2	2

**Course Name: BCSL404 Analysis & Design of Algorithms Lab**

CO/PO	PSO1	PSO2
CSL404.1	3	3
CSL404.2	-	-
CSL404.3	-	-
CSL404.4	3	3
CSL404.5	3	3

**Course Name: BCS405A Discrete Mathematical Structures**

CO/PO	PSO1	PSO2
CS405A.1	-	-
CS405A.2	-	-
CS405A.3	3	-
CS405A.4	3	3
CS405A.5	3	2

**Course Name: BCSL456D Technical Writing using LATEX**

CO/PO	PSO1	PSO2
CSL456D.1	1	-
CSL456D.2	1	-
CSL456D.3	-	-
CSL456D.4	-	-
CSL456D.5	1	-

**Course Name: BSC BBOC407 Biology For Computer Engineers**

CO/PO	PSO1	PSO2
C407.1	2	1
C407.2	1	1
C407.3	-	-
C407.4	-	-

**Course Name: BUHK408 Universal human values course**

CO/PO	PSO1	PSO2
C408.1	-	-
C408.2	1	-
C408.3	-	-
C408.4	-	1
C408.5	-	-

**Course Name: BSC21CS51 Automata Theory and compiler Design**

CO/PO	PSO1	PSO2
CS51.1	3	2
CS51.2	-	-
CS51.3	-	-
CS51.4	3	2
CS51.5	3	2

**Course Name: 21CS52 Computer Networks**

CO/PO	PSO1	PSO2
CS52.1	1	1
CS52.2	1	1
CS52.3	-	-
CS52.4	1	1
CS52.5	1	1

**Course Name: 21CS53 Database Management Systems**

CO/PO	PSO1	PSO2
CS53.1	3	2
CS53.2	-	-
CS53.3	2	1
CS53.4	-	-
CS53.5	1	1

**Course Name: 21CS54 Artificial Intelligence and Machine Learning**

CO/PO	PSO1	PSO2
CS54.1	1	2
CS54.2	2	2
CS54.3	-	-
CS54.4	2	-
CS54.5	3	2

**Course Name: PCC21CSL55 Database Management Systems Laboratory with Mini Project**

CO/PO	PSO1	PSO2
CSL55.1	1	1
CSL55.2	2	-
CSL55.3	2	-

**Course Name: AEC21RMI56 Research Methodology &Intellectual Property Rights**

CO/PO	PSO1	PSO2
RMI56.1	3	3
RMI56.2	3	3
RMI56.3	3	2
RMI56.4	3	2
RMI56.5	3	2

**Course Name: HSMC21CIV57 Environmental Studies**

CO/PO	PSO1	PSO2
CIV57.1	2	-
CIV57.2	2	-
CIV57.3	2	-
CIV57.4	2	2
CIV57.5	2	-

**Course Name: 21CSL581 Angular JS and Node JS**

CO/PO	PSO1	PSO2
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C581.1	2	-
C581.2	2	2
C581.3	2	2
C581.4	2	-
C581.5	2	2

**Course Name: 21CS61 Software Engineering & Project Management**

CO/PO	PSO1	PSO2
CS61.1	3	3
CS61.2	2	2
CS61.3	2	-
CS61.4	2	2
CS61.5	2	1

**Course Name: 21CS62 Fullstack Development**

CO/PO	PSO1	PSO2
CS62.1	2	2
CS62.2	2	2
CS62.3	2	2
CS62.4	2	2
CS62.5	2	2

**Course Name: 21CS63 Computer Graphics and Fundamentals of Image Processing**

CO/PO	PSO1	PSO2
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CS63.1	3	3
CS63.2	2	2
CS63.3	2	-
CS63.4	2	2
CS63.5	1	1

**Course Name: 21CS644 Data science and Visualization**

CO/PO	PSO1	PSO2
CS644.1	3	-
CS644.2	-	2
CS644.3	3	-
CS644.4	-	-
CS644.5	-	-

**Course Name: OEC2RI652 Software Oriented Architecture (SOA)**

CO/PO	PSO1	PSO2
2RI652.1	1	-
2RI652.2	1	-
2RI652.3	1	-
2RI652.4	1	-

**Course Name: 21CSL66 Computer Graphics and Image Processing Laboratory**

CO/PO	PSO1	PSO2

CSL66.1	3	3
CSL66.2	3	3
CSL66.3	1	-
CSL66.4	3	3

**Course Name: MP21CSMP67 Mini Project**

CO/PO	PSO1	PSO2
CSMP67.1	1	-
CSMP67.2	3	3
CSMP67.3	3	3
CSMP67.4	3	1

**Course Name: 18CS71 Artificial Intelligence & Machine Learning**

CO/PO	PSO1	PSO2
CS71.1	2	2
CS71.2	3	3
CS71.3	2	2
CS71.4	2	2
CS71.5	2	2



**Course Name: 18CS72 Big Data Analytics2**

CO/PO	PSO1	PSO2
CS72.1	3	1
CS72.2	1	1
CS72.3	-	-
CS72.4	-	-
CS72.5	1	3

**Course Name: 18CS734 User Interface Design**

CO/PO	PSO1	PSO2
CS734.1	3	1
CS734.2	3	3
CS734.3	3	3
CS734.4	3	-
CS734.5	3	3

**Course Name: 18CS744 Cryptography**

CO/PO	PSO1	PSO2
CS744.1	-	-
CS744.2	-	-
CS744.3	3	3
CS744.4	-	-
CS744.5	-	-

**Course Name: 18EE753 Disaster Management**

CO/PO	PSO1	PSO2
EE753.1	2	3
EE753.2	-	-
EE753.3	-	-
EE753.4	2	3
EE753.5	-	3

**Course Name: 18CSL76 Artificial Intelligence And Machine Learning Laboratory**

CO/PO	PSO1	PSO2
CSL76.1	3	3
CSL76.2	-	-
CSL76.3	-	-
CSL76.4	3	3

**Course Name: 18CSP77 Project Work Phase-1**

CO/PO	PSO1	PSO2
CSP77.1	3	3
CSP77.2	-	-
CSP77.3	-	-
CSP77.4	3	1

**Course Name: 18CS81 Internet Of Thing**

CO/PO	PSO1	PSO2
CS81.1	2	-
CS81.2	-	-
CS81.3	2	2
CS81.4	-	-
CS81.5	2	1

**Course Name: 18CS822 Storage Area Network**

CO/PO	PSO1	PSO2
CS822.1	1	-
CS822.2	1	-
CS822.3	1	-
CS822.4	1	-

**Course Name: 18CSP83 Project Phase-2**

CO/PO	PSO1	PSO2
CSP83.1	3	3
CSP83.2	-	-
CSP83.3	3	3
CSP83.4	3	1

**Course Name: 18CSS84 Technical Seminar**

CO/PO	PSO1	PSO2
CSS84.1	2	3
CSS84.2	2	3
CSS84.3	-	2
CSS84.4	-	-
CSS84.5	2	-

**Course Name: 18CS185 Internship**

CO/PO	PSO1	PSO2
CSI85.1	2	2
CSI85.2	-	-
CSI85.3	-	-
CSI85.4	1	-

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**CO-PO MAPPING**  
**Academic Year 2023-24**  
**Index**

<b>Sl. No.</b>	<b>List of Courses</b>
1.	Engineering Mechanics- BCIV203
2.	Strength of Materials- BCV301
3.	Engineering Survey- BCV302
4.	Engineering Geology- BCV303
5.	Water Supply and Waste water Engineering - BCV304
6.	Computer Aided Building Planning & Drawing- BCV305
7.	Analysis Of structure- BCV401
8.	Fluid Mechanics & Hydraulics- BCV402
9.	Transportation Engg- BCV403
10.	Building Materials Testing Lab- BCVL404
11.	Hydrology and Water Resources Engineering-21CV51
12.	Transportation Engg- 21CV52
13.	Design of RC Structural Elements- 21CV53
14.	Geotechnical Engineering- 21CV54
15.	Geotechnical Engineering Lab-21CVL55
16.	Construction Management & Entrepreneurship-21CV61
17.	Concrete Technology -21CV62
18.	Design of RC Structural Elements-21CV63
19.	Alternative Building Material – 21CV642
20.	Conventional Energy Sources- 21CV654
21.	Computer Aided Detailing of Structures-21CVL66
22.	Quantity Surveying and Contracts Management-18CV71
23.	Design of RCC and Steel Structures-18CV72
24.	Ground Water & Hydraulics-18CV73
25.	Urban Transportation and Planning-18CV745
26.	Computer Aided Detailing of Structures-18CVL76
27.	Geotechnical Engineering Laboratory-18CVL77
28.	Project Work- 18CVP78
29.	Design Of Pre- Structure -18CV81
30.	Rehabilitation & Retrofitting-18CV824
31.	Project Work-18CVP83
32.	Seminar 18CVS84
33.	Internship -18CVI85



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**CO-PSO MAPPING**  
**ACADEMIC YEAR 2023-2021**

**Course Name: ( BCIV203/ Engineering Mechanics)**

CO	PSO1	PSO2	PSO3
C232.1	1	2	1
C232.2	3	-	3
C232.3	1	2	1
C232.4	1	1	3
C232.5	3	3	3
C232.6	2	1	3

**CourseName: BCV301 - Strength of Materials)**

CO	PSO1	PSO2	PSO3
C231.1	1	1	1
C231.2	2	1	2
C231.3	1	1	1
C231.4	2	2	1
C231.5	1	1	3

**Course Name: BCV302 - Engineering Survey)**

CO	PSO1	PSO2	PSO3
C232.1	2	1	1
C232.2	3	1	1
C232.3	2	2	2
C232.4	3	2	1
C232.5	2	2	1

**Course Name: (BCV303 –Engineering Geology)**

CO	PSO1	PSO2	PSO3
C233.1	1	1	2
C233.2	2	3	1
C233.3	1	2	3
C233.4	2	1	3
C233.5	2	1	1



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**Course Name: BCV304- Water Supply and Waste water Engineering**

CO	PSO1	PSO2	PSO3
C234.1	1	2	2
C234.2	2	2	1
C234.3	2	1	3
C234.4	1	1	2
C234.5	2	1	3

**Course Name: (BCV305- Computer Aided Building Planning & Drawing)**

CO	PSO1	PSO2	PSO3
235.1	3	1	2
235.2	3	1	2
235.3	3	2	2

**Course Name: BCV401– Analysis Of structure**

CO	PSO1	PSO2	PSO3
C241.1	2	3	3
C241.2	1	1	1
C241.3	2	2	3
C241.4	1	2	3
C241.5	2	3	1



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**CourseName: BCV402 Fluid Mechanics & Hydraulics**

CO	PSO1	PSO2	PSO3
C242.1	3	3	2
C242.2	2	2	1
C242.3	3	2	3
C242.4	3	2	2
C242.5	3	2	3

**CourseName: BCV403– Transportation Engg**

CO	PSO1	PSO2	PSO3
C243.1	3	1	1
C243.2	3	1	1
C243.3	3	2	3
C243.4	2	1	3
C243.5	3	1	3

**CourseName: BCVL404 – Building Materials Testing Lab**

CO	PSO1	PSO2	PSO3
C244.1	3	3	1
C244.2	1	3	1
C244.3	2	3	3

**CourseName: 21CV51- Hydrology and Water Resources Engineering**

CO	PSO1	PSO2	PSO3
C251.1	1	2	2
C251.2	2	2	2
C251.3	2	1	3
C251.4	2	1	3

**Course Name: 21CV52– Transportation Engg**

CO	PSO1	PSO2	PSO3
C252.1	3	1	2
C252.2	2	1	3
C252.3	3	2	3
C252.4	2	1	3





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**Course Name: 21CV53 - Design of RC Structural Elements**

CO	PSO1	PSO2	PSO3
C253.1	1	2	2
C253.2	2	2	2
C253.3	2	1	3
C253.4	3	3	3

**Course Name: 21CV54 - Geotechnical Engineering )**

CO	PSO1	PSO2	PSO3
C354.1	2	3	2
C354.2	2	3	1
C354.3	2	3	3
C354.4	2	3	3
C354.5	3	2	3

**Course Name: 21CV55 - Geotechnical Engineering Lab**

CO	PSO1	PSO2	PSO3
C355.1	1	1	2
C355.2	1	1	1
C355.3	2	-	3
C355.4	-	2	3
C355.5	3	2	-

**Course Name: 21CV61- Construction Management & Entrepreneurship**

CO	PSO1	PSO2	PSO3
C361.1	3	3	1
C361.2	2	2	3
C361.3	2	2	3
C361.4	3	2	3
C361.5	2	2	3



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**CourseName: 21CV62 – Concrete Technology**

CO	PSO1	PSO2	PSO3
C362.1	3	3	1
C362.2	2	2	2
C362.3	2	2	2
C362.4	3	2	2
C362.5	2	2	1

**Course Name: 21CV63 – Design of RC Structural Elements**

CO	PSO1	PSO2	PSO3
C363.1	1	2	3
C363.2	2	3	2
C363.3	3	2	3
C363.4	3	1	3
C363.5	2	3	3

**Course Name: 21V642– Alternative Building Materials**

CO	PSO1	PSO2	PSO3
C364.1	3	2	3
C364.2	3	1	1
C364.3	3	2	3
C364.4	3	2	2

**Course Name: 21CV654 Conventional Energy Sources**

CO	PSO1	PSO2	PSO3
C365.1	3	2	2
C365.2	3	1	2
C365.3	3	3	3
C365.4	3	2	2
C365.5	3	1	2
C365.6	3	2	1



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**CourseName: 21CVL66 - Computer Aided Detailing of Structures )**

CO	PSO1	PSO2	PSO3
C366.1	3	3	1
C366.2	3	2	2
C366.3	3	1	3

**CourseName:C471(17CV71 -MunicipalandIndustrialWasteWaterEngineering)**

CO	PSO1	PSO2	PSO3
C471.1	2	2	1
C471.2	3	3	3
C471.3	3	3	3
C471.4	2	2	2
C471.5	3	3	3

**CourseName:C472(17CV72-Design ofRCC andSteelStructures)**

CO	PSO1	PSO2	PSO3
C472.1	3	2	2
C472.2	2	1	2
C472.3	3	3	1
C472.4	3	3	0
C472.5	3	2	2



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**CourseName: C473 (17CV73–Hydrology andIrrigation Engineering)**

CO	PSO1	PSO2	PSO3
C473.1	3	3	2
C473.2	3	3	3
C473.3	2	2	2
C473.4	3	2	1
C473.5	2	3	3

**CourseName: C474(17CV742 –Ground Water&Hydraulics)**

CO	PSO1	PSO2	PSO3
C474.1	2	2	1
C474.2	2	1	2
C474.3	2	2	2
C474.4	3	2	3
C474.5	3	2	2

**CourseName: C47517CV751-Urban Transportation andPlanning**

CO	PSO1	PSO2	PSO3
C475.1	2	3	3
C475.2	2	2	2
C475.3	3	3	2
C475.4	3	2	1

**CourseName: C47617CVL76-EnvironmentalEngineering Laboratory**

CO	PSO1	PSO2	PSO3
C476.1	3	1	2
C476.2	3	3	2
C476.3	3	3	3
C4476.4	2	2	2

**CourseName: C47717CVL77-ComputerAidedDetailingof Structures)**

CO	PSO1	PSO2	PSO3
C477.1	1	2	2
C477.2	2	3	1
C477.3	2	2	3



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**CourseName:C47817CVP78-ProjectWorkPhase-I+ProjectworkSeminar)**

CO	PSO1	PSO2	PSO3
C478.1	3	2	3
C478.2	3	3	2
C478.3	3	1	2
C478.4	2	3	3
C478.5	1	3	1
C478.6	3	3	2

**CourseName:C481(17CV81-QuantitySurveyingandContracts Management)**

CO	PSO1	PSO2	PSO3
C481.1	3	2	2
C481.2	2	3	2
C481.3	3	2	1
C481.4	2	3	3
C481.5	3	3	3

**CourseName:C482(17CV82-Design ofPre-StressedConcreteElements)**

CO	PSO1	PSO2	PSO3
C482.1	2	3	1
C482.2	2	3	1
C482.3	1	3	3
C482.4	1	2	2
C482.5	2	3	3

**CourseName:C483(17CV831-Pavement Design)**

CO	PSO1	PSO2	PSO3
C483.1	1	1	3
C483.2	3	2	2
C483.3	2	3	1
C483.4	3	2	2
C483.5	2	3	3



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**CourseName:C484(17CV84-Internship)**

CO	PSO1	PSO2	PSO3
C484.1	3	1	2
C484.2	3	1	2
C484.3	2	3	1
C484.4	1	2	1
C484.5	2	2	3
C484.6	1	3	2

**CourseName:C485(17CVP85-Project Work)**

CO	PSO1	PSO2	PSO3
C485.1	3	3	3
C485.2	2	3	2
C485.3	2	3	3
C485.4	1	3	1
C485.5	1	3	1
C485.6	3	3	2

**CourseName:C486(17CVS86-Seminar)**

CO	PSO1	PSO2	PSO3
C486.1	3	1	2
C486.2	2	3	2
C486.3	2	2	3
C486.4	1	2	3
C486.5	2	1	3
C486.6	1	3	2



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**CO-PSO MAPPING**  
**Academic Year 2023-2024**  
**Index**

<b>Sl. No.</b>	<b>List of Courses</b>
1.	Network Theory-18EC32
2.	Electronic Devices-18EC33
3.	Digital System Design -18EC34
4.	Computer organization-18EC35
5.	Power Electronics and Instrumentation-18EC36
6.	Analog Electronics Lab-18ECL37
7.	Digital Electronics Lab-18ECL38
8.	Analog Circuits-18EC42
9.	Control Systems-18EC43
10.	Signals and systems-18EC45
11.	Microcontrollers-18EC46
12.	Microcontroller lab-18ECL47
13.	Analog circuits Lab-18ECL48
14.	Management & Entrepreneurship-18ES51
15.	Digital Signal Processing -18EC52
16.	Principles of communication -18EC53
17.	Information Theory & Coding -18EC54
18.	Electromagnetic waves-18EC55
19.	Verilog HDL-18EC56
20.	DSP Lab-18ECL57
21.	HDL Lab-18ECL58
22.	Digital Communication-18EC61
23.	Embedded Systems-18EC62
24.	Microwave and Antennas-18EC63
25.	Python Applications and Programming-18EC646
26.	Operating systems-18CS654
27.	Embedded Lab-18ECL66
28.	CCN Lab-18ECL67
29.	18ECMP68 – Mini Project
30.	Computer Networks (C401)-18EC71
31.	VLSI Design (C402)-18EC72
32.	Satellite Communication (C403)-18EC73
33.	Machine Learning with Python (C404)-18EC745
34.	BMSP(C405)-18MT751
35.	(Advanced Communication Lab)-18ECL76
36.	VLSI Lab-18ECL77
37.	Project Work-18ECP78



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38.	<b>Wireless and cellular Communication (C411)-18EC81</b>
39.	<b>Network Security (C412)-18EC821</b>
40.	<b>Radar Engineering (C413)-18EC823</b>
41.	<b>Internship-18ECI84</b>
42.	<b>Project Work-18ECP85</b>
43.	<b>Seminar -18ECS86</b>





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**CO-PSO MAPPING**  
**ACADEMIC YEAR 2023-2024**

**Course Name: C202 (Network Theory-18EC32)**

	PSO1	PSO2	PSO3
C202.1	3	2	1
C202.2	2	2	1
C202.3	3	2	1
C202.4	2	2	1
C202.5	3	2	1
C202.6	2	1	1

**Course Name: C203 (Electronic Devices-18EC33)**

	PSO1	PSO2	PSO3
C203.1	2	3	-
C203.2	3	2	-
C203.3	3	3	-
C203.4	2	2	-
C203.5	3	3	-
C203.6	3	2	-

**Course Name: C204 (Digital System Design-18EC34)**

	PSO1	PSO2	PSO3
C204.1	2	3	-
C204.2	1	2	-
C204.3	1	3	-
C204.4	1	2	-
C204.5	2	2	-
C204.6	1	2	-

**Course Name: C205 (Computer organization Architecture -18EC35)**

	PSO1	PSO2	PSO3
C205.1	3	2	1
C205.2	2	3	-
C205.3	3	2	-
C205.4	3	2	-
C205.5	2	2	-
C205.6	3	2	-



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**Course Name: C206 (Power Electronics & Instrumentation-18EC36)**

	PSO1	PSO2	PSO3
C206.1	2	3	-
C206.2	1	2	-
C206.3	1	3	-
C206.4	2	2	-
C206.5	1	2	-
C206.6	1	2	-

**Course Name: C207 (Electronic Devices lab-18ECL37)**

	PSO1	PSO2	PSO3
C207.1	3	3	1
C207.2	3	2	1
C207.3	3	3	1
C207.4	3	2	1
C207.5	3	2	1
C207.6	3	2	1

**Course Name: C208 Digital Electronics lab-18ECL38)**

	PSO1	PSO2	PSO3
C208.1	3	3	1
C208.2	3	2	1
C208.3	2	3	1
C208.4	3	3	-
C208.5	2	2	1
C208.6	3	2	1

**Course Name: C212 (Analog Circuits -18EC42)**

	PSO1	PSO2	PSO3
C212.1	3	2	-
C212.2	2	2	-
C212.3	2	3	-
C212.4	2	3	-
C212.5	2	3	-
C212.6	2	3	-



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**Course Name: C213 (Control Systems -18EC43)**

	PSO1	PSO2	PSO3
C213.1	3	2	1
C213.2	2	2	-
C213.3	2	3	-
C213.4	2	2	-
C213.5	2	2	1
C213.6	3	1	-

**Course Name: C215 (Signals and Systems-18EC45)**

	PSO1	PSO2	PSO3
C215.1	3	3	2
C215.2	2	2	1
C215.3	3	2	2
C215.4	2	2	1
C215.5	2	2	1
C215.6	2	2	2

**Course Name: C216 (Microcontrollers-18EC46)**

	PSO1	PSO2	PSO3
C216.1	2	3	
C216.2	3	3	-
C216.3	3	3	-
C216.4	2	2	-
C216.5	1	3	-
C216.6	1	2	1

**Course Name: C217 (Microprocessor Lab-18ECL47)**

	PSO1	PSO2	PSO3
C217.1	3	3	1
C217.2	3	3	1
C217.3	3	3	1
C217.4	2	2	1
C217.5	3	3	1
C217.6	3	2	1



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**Course Name: C218(AC Lab-18ECL48)**

	PSO1	PSO2	PSO3
C218.1	2	3	1
C218.2	3	3	1
C218.3	3	3	1
C218.4	2	3	1
C218.5	1	3	1
C218.6	3	3	1

**Course Name: C301 (Technical innovation and Management and Entrepreneurship-18EC51)**

	PSO1	PSO2	PSO3
C301.1	1	1	2
C301.2	1	1	1
C301.3	1	1	2
C301.4	1	2	1
C301.5	1	1	1
C301.6	1	2	2

**Course Name: C302(DSP-18EC52)**

	PSO1	PSO2	PSO3
C302.1	2	3	-
C302.2	2	1	-
C302.3	2	2	1
C302.4	2	3	-
C302.5	1	1	1

**Course Name: C303 (POC-18EC53)**

	PSO1	PSO2	PSO3
C303.1	3	2	1
C303.2	3	2	-
C303.3	3	2	-
C303.4	2	2	1
C303.5	3	2	-

**Course Name: C304 (ITC-18EC54)**

	PSO1	PSO2	PSO3
C304.1	3	3	
C304.2	3	2	1



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C304.3	3	3	1
C304.4	2	1	

**Course Name: C305 (EMW -18EC55)**

	PSO1	PSO2	PSO3
C305.1	3	2	-
C305.2	2	2	-
C305.3	1	3	-
C305.4	-	-	1
C305.5	3	-	-
C305.6	2	2	-

**Course Name: C306 (Verilog HDL-18EC56)**

	PSO1	PSO2	PSO3
C306.1	3	3	1
C306.2	2	2	
C306.3	2	2	1
C306.4	2	2	
C306.5	3	3	1
C306.6	3	3	1

**Course Name: C307 (DSPlab-18ECL57)**

	PSO1	PSO2	PSO3
C307.1	3	3	1
C307.2	3	2	1
C307.3	3	3	1
C307.4	3	2	1
C307.5	3	2	1
C307.6	3	3	1

**Course Name: C308 (HDL lab-18ECL58)**

	PSO1	PSO2	PSO3
C308.1	3	3	1
C308.2	3	2	1
C308.3	2	3	1
C308.4	3	3	-
C308.5	2	2	1
C308.6	3	2	1



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**Course Name: C311 (Digital Communication-18EC61)**

	PSO1	PSO2	PSO3
C311.1	3	2	1
C311.2	3	2	
C311.3	2	1	
C311.4	2	1	
C311.5	1	2	
C311.6	2	2	

**Course Name: C312 (ES-18EC62)**

	PSO1	PSO2	PSO3
C312.1	3	2	1
C312.2	3	2	-
C312.3	3	3	1
C312.4	3	1	-
C312.5	2	1	1
C312.6	2	2	-

**Course Name: C313 (Microwave & Antennas-18EC63)**

	PSO1	PSO2	PSO3
C313.1	3	2	1
C313.2	3	2	-
C313.3	2	2	1
C313.4	3	1	-
C313.5	2	1	1
C313.6	3	2	-

**Course Name: C314 (Python Applications - 18EC646)**

	PSO1	PSO2	PSO3
C314.1	3	3	1
C314.2	3	2	1
C314.3	3	2	1
C314.4	2	2	-
C314.5	3	1	1

**Course Name: C315 (Introduction to OS-18EC654)**

	PSO1	PSO2	PSO3
C315.1	3	2	1
C315.2	3	2	1



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<b>C315.3</b>	<b>3</b>	<b>2</b>	<b>-</b>
<b>C315.4</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>C315.5</b>	<b>3</b>	<b>2</b>	<b>-</b>
<b>C315.6</b>	<b>3</b>	<b>2</b>	<b>1</b>

**Course Name: C316(Embedded System Lab Lab-18ECL66)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C316.1</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C316.2</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C316.3</b>	<b>2</b>	<b>2</b>	<b>1</b>
<b>C316.4</b>	<b>2</b>	<b>3</b>	<b>1</b>
<b>C316.5</b>	<b>2</b>	<b>3</b>	<b>1</b>
<b>C316.6</b>	<b>3</b>	<b>2</b>	<b>1</b>

**Course Name: C317 (Communication Lab-18ECL67)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C317.1</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C317.2</b>	<b>3</b>	<b>3</b>	<b>-</b>
<b>C317.3</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C317.4</b>	<b>3</b>	<b>2</b>	<b>-</b>
<b>C317.5</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C317.6</b>	<b>3</b>	<b>2</b>	<b>-</b>

**Course Name: C318 (Miniproject-18ECMP68)**

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C318.1</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>C318.2</b>	<b>1</b>	<b>3</b>	<b>2</b>
<b>C318.3</b>	<b>2</b>	<b>3</b>	<b>2</b>
<b>C318.4</b>	<b>2</b>	<b>3</b>	<b>3</b>
<b>C318.5</b>	<b>1</b>	<b>3</b>	<b>1</b>
<b>C318.6</b>	<b>3</b>	<b>3</b>	<b>2</b>

**Course Name: C401 (CN-18EC71)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C401.1</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C401.2</b>	<b>2</b>	<b>2</b>	



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<b>C401.3</b>	<b>2</b>	<b>2</b>	<b>1</b>
<b>C401.4</b>	<b>2</b>	<b>2</b>	
<b>C401.5</b>	<b>3</b>	<b>3</b>	<b>1</b>

**Course Name: C402(VLSI -18EC72)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C402.1</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C402.2</b>	<b>2</b>	<b>2</b>	
<b>C402.3</b>	<b>2</b>	<b>2</b>	<b>1</b>
<b>C402.4</b>	<b>2</b>	<b>2</b>	
<b>C402.5</b>	<b>3</b>	<b>3</b>	<b>1</b>

**Course Name: C403 (Satellite Communication -18EC732)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C403.1</b>	<b>2</b>	<b>3</b>	<b>-</b>
<b>C403.2</b>	<b>1</b>	<b>2</b>	<b>-</b>
<b>C403.3</b>	<b>1</b>	<b>3</b>	<b>-</b>
<b>C403.4</b>	<b>2</b>	<b>2</b>	<b>-</b>
<b>C403.5</b>	<b>2</b>	<b>2</b>	
<b>C403.1</b>	<b>2</b>	<b>3</b>	<b>-</b>

**Course Name: C404(Python-18EC745)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C404.1</b>	<b>3</b>	<b>2</b>	
<b>C404.2</b>	<b>3</b>	<b>2</b>	
<b>C404.3</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>C404.4</b>	<b>3</b>	<b>2</b>	<b>1</b>

**Course Name: C405 (Biomedical -18MT751)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C405.1</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C405.2</b>	<b>2</b>	<b>2</b>	
<b>C405.3</b>	<b>2</b>	<b>2</b>	<b>1</b>
<b>C405.4</b>	<b>2</b>	<b>2</b>	
<b>C405.1</b>	<b>3</b>	<b>3</b>	<b>1</b>

**Course Name: C406 (CN lab-18ECL76)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C406.1</b>	<b>2</b>	<b>3</b>	
<b>C406.2</b>	<b>1</b>	<b>3</b>	<b>-</b>
<b>C406.3</b>	<b>3</b>	<b>2</b>	<b>-</b>
<b>C406.4</b>	<b>2</b>	<b>2</b>	<b>-</b>
<b>C406.5</b>	<b>1</b>	<b>3</b>	<b>-</b>

**Course Name: C407 VLSI LAB-18ECL77)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
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<b>C407.1</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>C407.2</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C407.3</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>C407.4</b>	<b>2</b>	<b>1</b>	<b>1</b>
<b>C407.5</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C407.6</b>	<b>3</b>	<b>3</b>	<b>1</b>

**Course Name: C408 (Project-18ECP78)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C415.1</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C415.2</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>C415.3</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>C415.4</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C415.5</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>C415.6</b>	<b>3</b>	<b>3</b>	<b>1</b>

**Course Name: C411 (Wireless Cellular and LTE 4G Broadband-18EC81)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C411.1</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>C411.2</b>	<b>2</b>	<b>2</b>	<b>1</b>
<b>C411.3</b>	<b>2</b>	<b>1</b>	<b>1</b>
<b>C411.4</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>C411.5</b>	<b>2</b>	<b>3</b>	<b>1</b>

**Course Name: C412 (Fiber Optics and networks-18EC82)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C412.1</b>	<b>3</b>	<b>1</b>	
<b>C412.2</b>	<b>3</b>	<b>2</b>	
<b>C412.3</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C412.4</b>	<b>3</b>	<b>3</b>	
<b>C412.5</b>	<b>2</b>	<b>3</b>	<b>1</b>

**Course Name: C413 (RADAR Engineering-18EC833)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C413.1</b>	<b>3</b>	<b>3</b>	
<b>C413.2</b>	<b>2</b>	<b>2</b>	
<b>C413.3</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C413.4</b>	<b>3</b>	<b>3</b>	<b>1</b>
<b>C413.5</b>	<b>2</b>	<b>3</b>	<b>1</b>

**Course Name: C414 (Internship 18ECI84)**

	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>



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C414.1	3	2	3
C414.2	2	3	2
C414.3	3	3	1
C414.4	3	2	3
C414.5	2	3	3
C414.6	3	1	2

**Course Name: C415 (Project-18ECP85)**

	PSO1	PSO2	PSO3
C415.1	3	3	1
C415.2	3	2	1
C415.3	3	2	1
C415.4	3	3	1
C415.5	3	2	1
C415.6	3	3	1

**Course Name: C416 (Seminar-18ECS86)**

	PSO1	PSO2	PSO3
C416.1	3	3	1
C416.2	3	2	1
C416.3	2	3	1
C416.4	3	3	1
C416.5	3	2	1
C416.6	3	3	1



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**CO-PSO MAPPING**

**Batch 2020 - 2024**

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6.	18EEL37–Electrical Machines Lab
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9.	18EE43 – Transmission and Distribution
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**CO-PSO MAPPING**

**Batch 2020 - 2024**

**Course Name: C202 (18EE32 - ELECTRIC CIRCUIT ANALYSIS)**

CO	PSO1	PSO2	PSO3
C202.1	3	3	1
C202.2	1	1	1
C202.3	3	3	2
C202.4	1	1	2
C202.5	3	3	-
C202.6	2	1	-

**Course Name: C203 (18EE33–Transformers and Generators)**

CO	PSO1	PSO2	PSO3
C203.1	3	1	2
C203.2	2	1	3
C203.3	3	2	3
C203.4	2	1	3
C203.5	3	1	3
C203.6	3	1	3

**Course Name: C204 (18EE34 - Analog Electronic Circuits)**

CO	PSO1	PSO2	PSO3
C204.1	3	1	2
C204.2	3	1	2
C204.3	3	2	2
C204.4	3	2	1
C204.5	3	2	1
C204.6	3	2	2

**Course Name: C205 (18EE35– Digital System Design)**

CO	PSO1	PSO2	PSO3
C205.1	3	2	2
C205.2	2	2	3
C205.3	3	2	3
C205.4	3	2	3
C205.5	3	2	3
C205.6	2	3	3



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**Course Name: C206 (18EE36 - Electrical & Electronics Measurements)**

CO	PSO1	PSO2	PSO3
C206.1	3	3	3
C206.2	2	3	1
C206.3	1	2	3
C206.4	1	3	2
C206.5	3	1	3
C206.6	3	2	3

**Course Name: C207 (18EEL37–Electrical Machines Lab)**

CO	PSO1	PSO2	PSO3
C207.1	3	1	2
C207.2	3	1	2
C207.3	3	2	2
C207.4	3	2	1
C207.5	3	2	1
C207.6	3	2	2

**Course Name: C208 (18EEL38–Electronics Lab)**

CO	PSO1	PSO2	PSO3
C208.1	3	1	2
C208.2	2	1	3
C208.3	3	2	3
C208.4	2	1	3
C208.5	3	1	3
C208.6	3	1	3



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**Course Name: C212 (18EE42 – Power Generation and Economics)**

CO	PSO1	PSO2	PSO3
C212.1	3	2	3
C212.2	1	2	2
C212.3	3	1	3
C212.4	1	1	3
C212.5	2	3	1
C212.6	3	1	3

**Course Name: C213 (18EE43 – Transmission and Distribution)**

CO	PSO1	PSO2	PSO3
C213.1	3	3	2
C213.2	2	2	1
C213.3	3	2	3
C213.4	3	2	2
C213.5	3	2	3
C213.6	3	2	2

**Course Name: C214 (18EE44 – Electric Motors)**

CO	PSO1	PSO2	PSO3
C214.1	3	1	1
C214.2	3	1	1
C214.3	3	2	3
C214.4	2	1	3
C214.5	3	1	3
C214.6	3	1	3

**Course Name: C215 (18EE45 – Electromagnetic Field theory)**

CO	PSO1	PSO2	PSO3
C215.1	3	3	1
C215.2	1	3	1
C215.3	2	3	3
C215.4	1	1	3
C215.5	2	3	3
C215.6	2	2	2



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**Course Name: C216 (18EE46 – Operational Amplifiers and Linear ICs)**

CO	PSO1	PSO2	PSO3
C216.1	2	1	2
C216.2	2	2	2
C216.3	3	2	3
C216.4	3	3	3
C216.5	2	1	1
C216.6	2	2	2

**Course Name: C217 (18EEL47 – Electrical Machines Lab – 2)**

CO	PSO1	PSO2	PSO3
C217.1	3	1	2
C217.2	2	1	3
C217.3	3	2	3
C217.4	2	1	3
C217.5	3	1	3
C217.6	3	1	3

**Course Name: C218 (18EEL48 – Opamp& LIC Laboratory)**

CO	PSO1	PSO2	PSO3
C218.1	2	1	2
C218.2	2	2	2
C218.3	3	2	3
C218.4	3	3	3
C218.5	2	1	1
C218.6	2	2	2





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

CO	PSO1	PSO2	PSO3
C301.1	1	1	2
C301.2	1	1	1
C301.3	2	2	3
C301.4	2	2	3
C301.5	3	2	3
C301.6	2	2	2

**Course Name: C302 (18EE52 – Microcontroller)**

CO	PSO1	PSO2	PSO3
C302.1	1	1	2
C302.2	1	1	1
C302.3	2	2	3
C302.4	2	2	3
C302.5	3	2	3
C302.6	2	2	2

**Course Name: C303 (18EE53 – POWER ELECTRONICS)**

CO	PSO1	PSO2	PSO3
C303.1	3	-	1
C303.2	2	2	2
C303.3	2	3	3
C303.4	1	3	2
C303.5	2	-	2
C303.6	1	3	3

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

CO	PSO1	PSO2	PSO3
C304.1	3	3	3
C304.2	3	2	2
C304.3	3	2	1
C304.4	3	3	3
C304.5	3	2	2
C304.6	2	3	3



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

CO	PSO1	PSO2	PSO3
C305.1	0	0	2
C305.2	2	0	3
C305.3	2	3	3
C305.4	0	0	3
C305.5	3	2	3
C305.6	3	2	3

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

CO	PSO1	PSO2	PSO3
C306.1	2	0	1
C306.2	2	0	1
C306.3	3	0	0
C306.4	1	0	3
C306.5	1	0	3
C306.6	1	0	3

**Course Name: C307 (18EEL57 – Microcontroller Laboratory)**

CO	PSO1	PSO2	PSO3
C307.1	1	1	2
C307.2	1	1	1
C307.3	2	2	3
C307.4	2	2	3
C307.5	3	2	3
C307.6	2	2	2

**Course Name: C308 (18EEL58 – Microcontroller Laboratory)**

CO	PSO1	PSO2	PSO3
C308.1	3	0	1
C308.2	2	2	2
C308.3	2	3	3
C308.4	1	3	2
C308.5	2	0	2
C305.6	1	3	3



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**Course Name: C311 (18EE61 – CONTROL SYSTEMS)**

CO	PSO1	PSO2	PSO3
C311.1	3	3	1
C311.2	3	3	2
C311.3	3	2	3
C311.4	2	3	3
C311.5	3	3	1
C311.6	2	3	3

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

CO	PSO1	PSO2	PSO3
C312.1	3	3	1
C312.2	2	2	2
C312.3	3	2	2
C312.4	3	2	2
C312.5	2	3	1
C312.6	2	3	1

**Course Name: C313 (18EE63 Digital Signal Processing)**

CO	PSO1	PSO2	PSO3
C313.1	2	3	3
C313.2	3	2	2
C313.3	3	2	3
C313.4	3	1	3
C313.5	2	3	3
C313.6	2	2	1

**Course Name: C314 (18EE647 SENSORS AND TRANSDUCERS)**

CO	PSO1	PSO2	PSO3
C314.1	1	2	3
C314.2	2	3	1
C314.3	3	3	3
C314.4	2	2	2
C314.5	3	3	2
C314.6	3	3	3



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

CO	PSO1	PSO2	PSO3
C315.1	3	1	2
C315.2	3	1	2
C315.3	3	3	1
C315.4	2	3	1
C315.5	2	3	1
C315.6	3	2	1

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

CO	PSO1	PSO2	PSO3
C317.1	3	3	1
C317.2	3	3	2
C317.3	3	2	3
C317.4	2	3	3
C317.5	3	3	1
C317.6	2	3	3

**Course Name: C316 (18EEL67 – Digital Signal Processing Laboratory)**

CO	PSO1	PSO2	PSO3
C318.1	3	3	0
C318.2	3	3	0
C318.3	0	3	2
C318.4	0	3	2
C318.5	0	3	2
C318.6	0	2	2

**Course Name: C317 (18EEMP68 – Mini Project)**

CO	PSO1	PSO2	PSO3
C316.1	3	3	3
C316.2	1	3	2
C316.3	2	3	2
C316.4	2	3	3
C316.5	1	3	1
C316.6	3	3	2



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

CO	PSO1	PSO2	PSO3
C401.1	3	3	1
C401.2	3	3	2
C401.3	3	2	2
C401.4	3	3	3
C401.5	3	3	3
C401.6	2	2	2

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

CO	PSO1	PSO2	PSO3
C402.1	3	2	2
C402.2	2	1	2
C402.3	2	2	1
C402.4	2	1	0
C402.5	2	2	2
C402.6	1	1	0

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

CO	PSO1	PSO2	PSO3
C403.1	3	3	1
C403.2	3	3	1
C403.3	3	2	1
C403.4	3	3	2
C403.5	3	3	1
C403.6	2	2	2

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

CO	PSO1	PSO2	PSO3
C404.1	3	2	1
C404.2	3	2	1
C404.3	3	2	1
C404.4	3	2	1
C404.5	3	2	1
C404.6	3	2	2

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



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CO	PSO1	PSO2	PSO3
C405.1	2	2	2
C405.2	2	2	2
C405.3	1	1	1
C405.4	1	1	1
C405.5	1	1	1
C405.6	1	1	1

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

CO	PSO1	PSO2	PSO3
C408.1	3	3	2
C408.2	2	2	2
C408.3	3	3	3
C408.4	2	2	2
C408.5	3	3	2
C408.6	2	3	2

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

CO	PSO1	PSO2	PSO3
C407.1	1	2	2
C407.2	2	1	3
C407.3	3	3	2
C407.4	3	2	1
C407.5	2	3	3
C407.6	3	3	3

**Course Name: C408 (18EEP78-Project Work)**

CO	PSO1	PSO2	PSO3
C405.1	3	3	3
C405.2	1	3	2
C405.3	2	3	2
C405.4	2	3	3
C405.5	1	3	1
C405.6	3	3	2

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



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CO	PSO1	PSO2	PSO3
C411.1	0	0	3
C411.2	2	3	3
C411.3	2	3	3
C411.4	0	0	3
C411.5	3	0	3
C411.6	3	2	1

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

CO	PSO1	PSO2	PSO3
C412.1	2	3	1
C412.2	2	3	1
C412.3	2	1	2
C412.4	2	3	3
C412.5	2	2	3
C412.6	2	2	1

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

CO	PSO1	PSO2	PSO3
C413.1	3	3	3
C413.2	1	3	2
C413.3	2	3	2
C413.4	2	3	3
C413.5	1	3	1
C413.6	3	3	2

**Course Name: C414 (18EES84 - Seminar)**

CO	PSO1	PSO2	PSO3
C414.1	3	1	2
C414.2	3	1	2
C414.3	2	3	2
C414.4	1	2	3
C414.5	2	1	1
C414.6	1	3	2



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**Course Name: C415 (18EE85 - Internship)**

CO	PSO1	PSO2	PSO3
C415.1	3	1	2
C415.2	3	1	2
C415.3	2	3	2
C415.4	1	2	3
C415.5	2	1	1
C415.6	1	3	2





Academic Year 2023-2024 Index  
**CO-PSO MAPPING**

Sl. No.	List of Courses
1.	Digital Design & Computer Organization- BCS302
2.	Operating Systems BCS303
3.	Data Structures and Applications BCS304
4.	Data Structures Lab BCS305
5.	Object Oriented Programming with C++ BCS306
6.	Data Analytics Lab with Excel BCS358A
7.	Analysis & Design of Algorithms - BCS401
8.	Advanced Java BIS402
9.	Database Management Systems BCS403
10.	Analysis & Design of Algorithms Lab BCSL404
11.	Discrete Mathematical Structures BCS405A
12.	Technical writing using LATEX BCSL456D
13.	Automata Theory and Compiler Design -21CS51
14.	Computer Networks 21CS52
15.	Database Management System 21CS53
16.	Artificial Intelligence and Machine Learning 21CS54
17.	Database Management System Laboratory 21CSL55
18.	Research Methodology & Intellectual Property Rights 21RM56
19.	Environmental Studies 21CIV57
20.	C# and .Net Framework 21CS582
21.	Software Engineering and Project Management 21CS61
22.	Fullstack Development 21CS62
23.	Software Testing 21IS63
24.	Data science and Visualization 21CS644
25.	Conservation of Natural Resource 21CV654
26.	Software Testing Laboratory 21ISL66
27.	Internship 21INT68
28.	Artificial Intelligence and Machine Learning 21CS71
29.	Big Data Analytics 21CS72
30.	User Interface Design 21CS734
31.	Cryptography 21CS742
32.	Neural Network 21CS754
33.	Artificial Intelligence & Machine Learning Laboratory 21CSL76
34.	Internet Of Things Technology /21CS81
35.	Storage Area Networks 21CS822
36.	PROJECT WORK PHASE 1 & 2 18ISP77 / 18ISP83
37.	Internship 18IS84
38.	Seminar / 18ISS85



**CO-PSO MAPPING**  
**ACADEMIC YEAR 2023-2024**

**Course Name: C202 (Data Structures and Applications/21CS32)**

COURSE CODE	PSO1	PSO2	PSO3
C202.1	2	2	3
C202.2	2	2	3
C202.3	3	2	-
C202.4	2	3	3
C202.5	3	3	3
C202.6	3	3	3

**Course Name: C203(Analog and Digital Electronics/21CS33)**

COURSE CODE	PSO1	PSO2	PSO3
C203.1	3	-	-
C203.2	3	-	-
C203.3	3	-	-
C203.4	3	-	-
C203.5	3	-	-

**Course Name: C204 (Computer Organization and Architecture 21CS34)**

COURSE CODE	PSO1	PSO2	PSO3
C204.1	3	-	-
C204.2	2	-	-
C204.3	2	-	-
C204.4	2	-	-
C204.5	2	-	-

**Course Name: C205(Object Oriented Programming with JAVA Laboratory 21CS35)**

COURSE CODE	PSO1	PSO2	PSO3
C205.1	2	-	-
C205.2		-	1
C205.3	1	-	1
C205.4	2	2	
C205.5			3

**Course Name: C206(C++ Programming 21CS382)**

COURSE CODE	PSO1	PSO2	PSO3
C206.1	3	-	-
C206.2	3	-	-
C206.3	2	-	-
C206.4	2	-	-
C206.5	3	-	-



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**Course Name: C212 Design and Analysis of Algorithms/21CS42**

COURSE CODE	PSO1	PSO2	PSO3
C212.1	3	-	-
C212.2	3	-	-
C212.3	3	-	-
C212.4	3	-	-
C212.5	3	-	-
C212.6	3	-	-

**Course Name : C214 Operating Systems/21CS44**

COURSE CODE	PSO1	PSO2	PSO3
C213.1	3	-	3
C213.2	3	-	3
C213.3	2	3	
C213.4	2	2	3
C213.5	3	2	3

**Course Name: C213 Microcontrollers and Embedded Systems/21CS43**

COURSE CODE	PSO1	PSO2	PSO3
C214.1	2	-	-
C214.2	2	-	-
C214.3	2	-	-
C214.4	2	-	-
C214.5	3	-	-



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**Course Name: C215 Python Programming Laboratory 21CSL46**

COURSE CODE	PSO1	PSO2	PSO3
C215.1	3	-	-
C215.2	3	-	-
C215.3	3	-	-
C215.4	3	-	-
C215.5	3	-	-

**Course Name: C216 Unix Shell Programming 21CS482**

COURSE CODE	PSO1	PSO2	PSO3
C216.1	3	1	1
C216.2	2	2	2
C216.3	-	-	-
C216.4	-	-	-
C216.5	3	1	1
C216.6		-	-

**Course Name: 217 Universal Human Values 21UHV49**

COURSE CODE	PSO1	PSO2	PSO3
C217.1	3	-	-
C217.2	3	-	2
C217.3	2	-	
C216.4	3	-	2
C216.5	3	-	3

**Course Name: 301/ Management & Entrepreneurship-18CS51**

COURSE CODE	PSO1	PSO2	PSO3
C301.1	3	-	3
C301.2	3	-	3
C301.3	2	3	-
C301.4	2	2	3
C301.5	3	2	3



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**Course Name: 302/ Computer Networks 18CS52**

COURSE CODE	PSO1	PSO2	PSO3
C302.1	2	1	2
C302.2	2	1	2
C302.3	2	2	2
C302.4	3	2	3
C302.5	2	1	1

**Course Name: 303/ Database Management System 18CS53**

COURSE CODE	PSO1	PSO2	PSO3
C303.1	2	-	2
C303.2	-	3	2
C303.3	2	3	
C303.4	2	3	2
C303.5	2	3	2

**Course Name: 304/ Automata Theory And Computability 18CS54**

COURSE CODE	PSO1	PSO2	PSO3
C304.1	2	-	2
C304.2	-	3	2
C304.3	2	3	
C304.4	2	3	2
C304.5	-	3	2

**Course Name: 305/ Application Development Using Python 18CS55**

COURSE CODE	PSO1	PSO2	PSO3
C305.1	2	-	2
C305.2	3	-	3
C305.3	3	-	3
C305.4	3	-	3
C305.5	3	-	3

**Course Name: C306 Unix Programming 18CS56**

COURSE CODE	PSO1	PSO2	PSO3
C306.1	2	-	-
C306.2	2	-	-
C306.3	2	-	-
C306.4	2	-	-
C306.5	2	-	-



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**Course Name: C307 Computer networks Laboratory 18CSI57**

COURSE CODE	PSO1	PSO2	PSO3
C307.1	2	-	-
C307.2	2	-	-
C306.3	2	-	3
C307.4	2	-	3
C307.5	2	-	3

**Course Name: C308 DBMS Laboratory with Mini Project 18CSL58**

COURSE CODE	PSO1	PSO2	PSO3
C308.1	-	3	-
C308.2	-	3	-
C308.3	-	3	3
C308.4	-	3	3
C308.5	-	3	3

**Course Name: 311/ File Structures 18IS61**

COURSE CODE	PSO1	PSO2	PSO3
C311.1	3	-	3
C311.2	3	-	3
C311.3	2	3	-
C311.4	2	2	3
C311.5	3	2	3

**Course Name:312/ Software Testing 18IS62**

COURSE CODE	PSO1	PSO2	PSO3
C312.1	3	2	1
C312.2	3	2	1
C312.3	2	3	
C312.4	2	2	3
C312.5	3	2	3
C312.6	2	2	3

**Course Name:313/ Web Technology And Its Applications 18CS63**

COURSE CODE	PSO1	PSO2	PSO3
C313.1	2	-	-
C313.2	2	-	-
C313.3	2	-	-
C313.4	2	-	-
C313.5	2	-	-



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**Course Name: C315 Cloud Computing/18CS642**

COURSE CODE	PSO1	PSO2	PSO3
C315.1	3	-	3
C315.2	3	-	3
C315.3	2	3	-
C315.4	2	2	3
C315.5	3	2	3

**Course Name: C316 Software Testing Laboratory 18ISL66**

COURSE CODE	PSO1	PSO2	PSO3
C316.1	3	-	3
C316.2	3	-	3
C316.3	2	3	-
C316.4	2	2	3
C316.5	3	2	3

**Course Name: C317 File Structures Laboratory With Mini Project 18ISL67**

COURSE CODE	PSO1	PSO2	PSO3
C317.1	3	-	3
C317.2	3	-	3
C317.3	2	3	-
C317.4	2	2	3
C317.5	3	2	3

**Course Name: C401/ ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING /18CS71**

COURSE CODE	PSO1	PSO2	PSO3
C401.1	2		2
C401.2		3	2
C401.3	2	3	
C401.4	2	3	2
C401.5		3	2
C401.6		2	2

**Course Name: C402 /Big Data Analytics /18CS72**

COURSE CODE	PSO1	PSO2	PSO3
C402.1	3	2	3
C402.2	2	2	1
C402.3	1	2	1
C402.4	1	2	1
C402.5	1		



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**Course Name: 403/ Software Architecture and Design Patterns / 18CS731**

COURSE CODE	PSO1	PSO2	PSO3
C403.1	3	-	-
C403.2	2	-	-
C403.3	2	-	-
C403.4	2	-	-
C403.5	3	-	-

**Course Name: 404/ Cryptography / 18CS744**

COURSE CODE	PSO1	PSO2	PSO3
C404.1	3	-	-
C404.2	2	-	-
C404.3	2	-	-
C404.4	2	-	-
C404.5	2	-	-

**Course Name: C407 Neural Network / 18EC752**

COURSE CODE	PSO1	PSO2	PSO3
C405.1	3	-	3
C405.2	3	-	3
C405.3	2	3	-
C405.4	2	2	3
C405.5	3	2	3





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**Course Name: 411/ Internet Of Things Technology /18CS81**

COURSE CODE	PSO1	PSO2	PSO3
C411.1	3	-	3
C411.2	3	-	3
C411.3	2	3	
C411.4	2	2	3
C411.5	3	2	3

**Course Name: 412/ Storage Area Networks / 17CS754**

COURSE CODE	PSO1	PSO2	PSO3
C412.1	3	-	3
C412.2	3	-	3
C412.3	2	3	-
C412.4	2	2	3
C412.5	3	2	3

**Course Name: 413/ Internship/18IS84**

COURSE CODE	PSO1	PSO2	PSO3
C414.1	1	-	-
C414.2	2	-	-
C414.3	2	-	-
C414.4	2	-	-

**Course Name: 414/ PROJECT WORK PHASE 2/18ISP77/83**

COURSE CODE	PSO1	PSO2	PSO3
C415.1	3	-	-
C415.2	3	-	-
C415.3	3	-	-
C415.4	3	-	-



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**Course Name: 415/ SEMINAR/18ISS86**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>C416.1</b>	-	-	-
<b>C416.2</b>	2	1	2
<b>C416.3</b>	-	-	-
<b>C416.4</b>	-	-	-



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**CO-PSO MAPPING**  
**Academic Year 2023-2024 (MECHANICAL)**

**Index**

<b>Sl. No.</b>	<b>List of Courses</b>
1.	Elements Of Mechanical Engineering (BEMEM103)
2.	Computer Aided Engineering Drawing (BCEDK105)
3.	Engineering Mathematics III (BMAT31)
4.	Materials Science (BME302)
5.	Basic Thermodynamics(BME304)
6.	Mechanics of Materials(BME301)
7.	Metal Casting and Welding – (BME303)
8.	Computer Aided Machine Drawing(BME305A)
9.	Applied Thermodynamics BME401
10.	Machining Science & Metrology BME402
11.	Fluid Mechanics BME403
12.	Mechanical Measurements and Metrology Lab BME404
13.	Biology For Engineers BBOK407
14.	Theory of Machines 21ME51
15.	Thermo-fluids Engineering 21ME52
16.	Finite Element Analysis 21ME53
17.	Modern Mobility and Automotive Mechanics 21ME54
18.	Design lab 21MEL55
19.	Environmental Studies 21CIV57
20.	Production and Operations Management 21ME61
21.	Heat Transfer 21ME62
22.	Machine design 21ME63
23.	Professional Elective Course-I 21ME64x
24.	CNC Programming and 3-D Printing Lab 21MEL66
25.	Mini Project 21MEMP67
26.	Automation and Robotics 21ME71
27.	Control Engg 21ME72
28.	Professional elective Course-II 21ME73X
29.	Professional elective Course-III 21ME74X
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<b>31.</b>	Professional Elective-II (automobile Engg) (18ME653)
<b>32.</b>	Heat Transfer Lab (18MEL67)
<b>33.</b>	Open Elective-II (Total Quality Management) (18ME664)
<b>34.</b>	Modeling and Analysis Lab (FEA) (18MEL68)
<b>35.</b>	Energy Engineering (18ME71)
<b>36.</b>	Fluid Power Systems (18ME72)
<b>37.</b>	Control Engineering (18ME73)
<b>38.</b>	Professional Elective - III (vibration) (18ME742)
<b>39.</b>	Professional Elective - III (SMART MATERIAL) (17ME745)
<b>40.</b>	Professional Elective-IV (Mechatronics) (18ME753)
<b>41.</b>	Design Lab (18MEL76)
<b>42.</b>	CIM Lab (18MEL77)
<b>43.</b>	Project Phase – I (18MEP78)
<b>44.</b>	Operations Research (18ME81)
<b>45.</b>	Additive Manufacturing (17ME82)
<b>46.</b>	Professional Elective - V Experimental Stress Analysis (17ME832)
<b>47.</b>	Project Phase – II (18ME85)
<b>48.</b>	SEMINAR (18MES86)



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**CO PSO MAPPING 2023-24 (MECHANICAL)**

**Course Name: Elements of Mechanical Engineering**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	-	-
CO 2	1	-	-
CO 3	1	-	-
CO 4	1	-	-
CO 5	1	-	-

**Course Name: Workshop Practice**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	1	-
CO 2	1	-	-
CO 3	2	-	-
CO 4	1	-	-
CO 5	2	-	-

**Course Name: Computer Aided Engineering Drawing**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	1	1
CO 2	1	2	3
CO 3	1	3	3
CO 4	1	1	1
CO 5	1	2	2

**Course Name: Engineering Mathematics III**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	-	-	-
CO 2	1	-	-
CO 3	-	1	-
CO 4	-	-	-
CO 5	-	1	-



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**Course Name: Materials Science**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	-	-	-
CO 2	2	-	-
CO 3	1	-	-
CO 4	2	-	-
CO 5	-	2	-

**Course Name: Basic Thermodynamics**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	-	2
CO 2	2	-	3
CO 3	1	-	2
CO 4	-	-	2
CO 5	-	-	1

**Course Name: Mechanics of Materials**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	-	-	-
CO 2	2	-	-
CO 3	1	-	-
CO 4	2	-	-
CO 5	-	2	-

**Course Name: Metal Casting and Welding – I**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	-	-	-
CO 2	2	-	-
CO 3	1	-	-
CO 4	2	-	-
CO 5	-	2	-



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**Course Name: Computer Aided Machine Drawing**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	-	-	-
CO 2	2	-	-
CO 3	1	-	-
CO 4	2	-	-
CO 5	-	2	-

**Course Name: Materials Testing Lab**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	2	-
CO 2	1	2	-
CO 3	1	1	-
CO 4	1	1	-
CO 5	1	1	-

**Course Name: Foundry and Forging Laboratory**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	1	3
CO 2	1	-	1
CO 3	2	2	3
CO 4	2	-	2
CO 5	3	3	2

**Course Name: Engineering Mathematics IV**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	-	-	-
CO 2	1	-	-
CO 3	-	1	-
CO 4	-	-	-
CO 5	-	1	-



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**Course Name: Kinematics of Machinery**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	2	1	-
CO 2	2	1	-
CO 3	2	1	-
CO 4	2	1	-
CO 5	2	1	-

**Course Name: Applied Thermodynamics**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	2	1
CO 2	1	1	2
CO 3	2	2	2
CO 4	1	2	1
CO 5	2	2	2

**Course Name: Fluid mechanics**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	-	-
CO 2	2	-	-
CO 3	2	-	-
CO 4	2	-	-
CO 5	2	-	-

**Course Name: Machine Tools and Operations**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	1	-
CO 2	1	1	-
CO 3	1	1	-
CO 4	1	1	-
CO 5	1	2	-





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**Course Name: Mechanical Measurements and Metrology**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	2	2	1
CO 2	1	2	1
CO 3	1	1	2
CO 4	2	1	2
CO 5	2	1	-

**Course Name: Mechanical Measurements and Metrology Lab**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	2	2	1
CO 2	1	2	2
CO 3	2	3	1
CO 4	3	2	1
CO 5	2	2	1

**Course Name: Machine Shop**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	2	1	-
CO 2	2	2	-
CO 3	2	1	-
CO 4	2	2	-
CO 5	2	2	-

**Course Name: Management and Engineering Economics**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	-	-	-
CO 2	2	-	1
CO 3	1	-	-
CO 4	2	-	1
CO 5	-	2	-

**Course Name: Dynamics of Machinery**



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COURSE CODE	PSO1	PSO2	PSO3
CO 1	-	-	-
CO 2	2	-	1
CO 3	1	-	-
CO 4	2	-	1
CO 5	-	2	-

**Course Name: Turbo Machines**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	-	-	-
CO 2	2	-	1
CO 3	1	-	-
CO 4	2	-	1
CO 5	-	2	-

**Course Name: Design of Machine Elements - I**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	1	3	-
CO 2	1	3	-
CO 3	1	3	-
CO 4	1	3	1
CO 5	1	3	-

**Course Name: Non Traditional Machining (Professional Elective-I)**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	1	3	-
CO 2	1	3	1
CO 3	1	3	-
CO 4	1	3	1
CO 5	1	3	-

**Course Name: Energy and Environment (18ME562) (Open Elective-I)**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	1	1	1



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CO 2	1	2	2
CO 3	1	3	1
CO 4	-	1	1
CO 5	-	2	1

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

COURSE CODE	PSO1	PSO2	PSO3
CO 1	1	2	1
CO 2	1	-	2
CO 3	1	1	-
CO 4	1	1	2
CO 5	1	-	1

**Course Name: Energy Lab (18MEL58)**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	1	1	1
CO 2	-	1	1
CO 3	1	2	2
CO 4	1	2	2
CO 5	1	1	1

**Course Name: Finite Element Analysis (18ME61)**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	2	1	1
CO 2	3	2	2
CO 3	1	3	1
CO 4	3	1	1
CO 5	2	2	1

**Course Name: Computer integrated manufacturing**



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COURSE CODE	PSO1	PSO2	PSO3
CO 1	-	-	-
CO 2	-	1	-
CO 3	2	-	-
CO 4	-	-	-
CO 5	2	-	-

**Course Name: Heat Transfer**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	2	1	1
CO 2	3	2	2
CO 3	1	3	1
CO 4	3	1	1
CO 5	2	2	1

**Course Name: Design of Machine Elements -II**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	2	3	2
CO 2	2	3	-
CO 3	1	3	-
CO 4	3	3	-
CO 5	1	-	2

**Course Name: Professional Elective-II (automobile Engg)**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	2	1	1
CO 2	3	2	2
CO 3	1	3	1
CO 4	3	1	1
CO 5	2	2	1

**Course Name: Open Elective-II (Total Quality Management)**



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<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	1	1
CO 2	1	2	2
CO 3	1	3	1
CO 4	-	1	1
CO 5	-	2	1

**Course Name: Heat Transfer Lab**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	2	-
CO 2	1	2	-
CO 3	1	2	-
CO 4	2	1	-
CO 5	2	1	-

**Course Name: Modeling and Analysis Lab (FEA)**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	2	1
CO 2	1	1	1
CO 3	1	1	1
CO 4	2	2	1
CO 5	1	1	2

**Course Name: Energy Engineering**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	2	-	3
CO 2	1	-	1
CO 3	1	-	2
CO 4	2	-	1
CO 5	2	-	1

**Course Name: Fluid Power Systems**



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COURSE CODE	PSO1	PSO2	PSO3
CO 1	1	3	-
CO 2	1	3	1
CO 3	1	3	-
CO 4	1	3	1
CO 5	1	3	-

**Course Name: Control Engineering**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	1	3	-
CO 2	1	3	1
CO 3	1	3	-
CO 4	1	3	1
CO 5	1	3	-

**Course Name: Professional Elective - III (vibration)**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	-	1	-
CO 2	-	-	-
CO 3	-	-	-
CO 4	-	1	-
CO 5	-	-	-

**Course Name: Professional Elective - III (SMART MATERIAL)**

**Course Name:  
Elective-IV  
(17ME753)**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	-	1	-
CO 2	-	-	-
CO 3	-	-	-
CO 5	-	-	-
CO 6	-	1	1

**Professional  
(Mechatronics)**



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CO 2	1	-	-
CO 3	-	-	1
CO 4	1	1	-
CO 5	-	-	1
CO 6	1	1	1

**Course Name: Professional Elective-IV (Automotive)(17ME751)**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	3	-
CO 2	1	1	-
CO 3	1	1	-
CO 4	2	2	-
CO 5	2	1	-
CO 6	2	3	-

**Course Name: Design Lab (17MEL76)**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	1	3	-
CO 2	1	1	-
CO 3	1	1	-
CO 4	2	2	-
CO 5	2	1	-
CO 6	2	3	-

**Course Name: CIM Lab (17MEL77)**

<b>COURSE CODE</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO 1	2	2	2



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CO 2	1	1	2
CO 3	1	2	2
CO 4	-	-	-
CO 5	-	-	-
CO 6	2	2	2

**Course Name: Project Phase – I (17MEP78)**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	2	2	1
CO 2	2	2	-
CO 3	2	2	1
CO 4	1	2	-
CO 5	1	2	1
CO 6	1	2	-

**Course Name: Operations Research (17ME81)**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	2	1	1
CO 2	3	2	2
CO 3	1	-	1
CO 4	3	1	1
CO 5	2	-	1
CO 6	2	2	2

**Course Name: Additive Manufacturing (17ME82)**





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COURSE CODE	PSO1	PSO2	PSO3
CO 1	1	1	1
CO 2	-	2	2
CO 3	1	-	1
CO 4	3	1	1
CO 5	-	-	1
CO 6	2	2	2

**Course Name: Professional Elective - V Experimental Stress Analysis (17ME832)**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	1	1	1
CO 2	-	1	2
CO 3	1	-	1
CO 4	1	1	1
CO 5	-	-	1
CO 6	-	2	2

**Course Name: Project Phase – II (17ME85)**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	2	2	1
CO 2	2	2	-
CO 3	2	2	1
CO 4	1	2	-
CO 5	1	2	1
CO 6	1	2	-

**Course Name: SEMINAR (17MES86)**

COURSE CODE	PSO1	PSO2	PSO3
CO 1	2	1	2
CO 2	2	2	2
CO 3	2	2	2
CO 4	2	2	2
CO 5	2	2	2
CO 6	2	2	2



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CO PO MAPPING

BATCH 2020-2024

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7	18 MT L38 Analog and digital electronics lab
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9	18MT42 Fluid mechanics and machines
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11	18 MT 44 Manufacturing technology
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**CO PSO MAPPING**  
**2020-2024**

C 202 (18MT32) : Material science and Technology

CO	PSO1	PSO2
C202.1	2	1
C202.2	2	-
C202.3	2	1
C202.4	2	1
C202.5	2	-

C 203 (18MT33) : Mechanics of materials

CO	PSO1	PSO2
C203.1	2	1
C203.2	2	1
C203.3	2	1
C203.4	2	-
C203.5	2	-

C 204 (18MT34) : Control Systems

CO	PSO1	PSO2
C204.1	2	1
C204.2	2	1
C204.3	2	1
C204.4	2	-
C204.5	-	-

C 205 18 MT 35 Analog and Digital Electronics

CO	PSO1	PSO2
C205.1	2	1
C205.2	2	1
C205.3	2	1
C205.4	-	1
C205.5	-	-

C 206 18 MT 36 Computer Organization

CO	PSO1	PSO2
C206.1	2	1
C206.2	2	1
C206.3	2	1
C206.4	2	-
C206.5	2	-

C 207 18 MT L37 Machine shop and material Testing lab

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C207.1	2	-
C207.2	2	-
C207.3	2	-
C207.4	2	-
C207.5	2	1

C 208 18 MT L38 Analog and digital electronics lab

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C208.1	2	1
C208.2	2	1
C208.3	2	-
C208.4	2	-
C208.5	2	-



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C 212 18MT42 Fluid mechanics and machines

CO	PSO1	PSO2
C212.1	2	1
C212.2	2	1
C212.3	2	-
C212.4	2	-
C212.5	2	-

C 213 18 MT 43 Microcontroller

CO	PSO1	PSO2
C213.1	2	-
C213.2	2	-
C213.3	2	1
C213.4	2	-
C213.5	2	1

C 214 18 MT 44 Manufacturing technology

CO	PSO1	PSO2
C214.1	2	1
C214.2	2	1
C214.3	2	1
C214.4	-	-
C214.5	-	1

C 215 18 MT 45 Theory of Machines

CO	PSO1	PSO2
C215.1	2	1
C215.2	2	1
C215.3	2	1
C215.4	2	-
C215.5	2	-

C 216 18 MT 46 Instrumentation and measurements

CO	PSO1	PSO2
C216.1	2	1
C216.2	2	1
C216.3	2	-
C216.4	2	-
C216.5	2	1

C 217 18 MT L47 FM and pneumatic - Laboratory

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C217.1	2	1
C217.2	2	1
C217.3	2	1
C217.4	2	-
C217.5	2	-

C 218 18 MT L48 Microcontroller – Laboratory(BV)

<b>COURSE OUTCOM E CODE</b>	<b>PSO1</b>	<b>PSO2</b>
C218.1	2	1
C218.2	2	1
C218.3	2	1
C218.4	2	-
C218.5	-	-



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C 301 18 MT51 Technological Innovation  
Management And  
Entrepreneurship

CO	PSO1	PSO2
C301.1	2	1
C301.2	2	1
C301.3	2	1
C301.4	2	-
C301.5	2	-

C 302 18 MT52 Design and analysis of Machine Elements

CO	PSO1	PSO2
C302.1	2	1
C302.2	2	1
C302.3	2	1
C302.4	-	1
C302.5	-	-

C 303 18 MT53 Virtual Instrumentation

CO	PSO1	PSO2
C303.1	2	1
C303.2	2	1
C303.3	2	1
C303.4	2	1
C303.5	-	-

C 304 18 MT54 Hydraulics and Pneumatics

CO	PSO1	PSO2
C304.1	2	1
C304.2	2	1
C304.3	2	1
C304.4	2	1
C304.5	-	-

C 305 18 MT55 Micro and Smart Systems Technology

CO	PO1	PO2
C305.1	2	1
C305.2	2	1
C305.3	2	1
C305.4	2	-
C305.5	-	-



C 306 18 MT56 Wireless Networks & Communication

<b>CO</b>	<b>PO1</b>	<b>PO2</b>
C306.1	2	1
C306.2	2	1
C306.3	2	1
C306.4	-	1
C306.5	-	-

C 307 18 MTL57 Virtual Instrumentation- Laboratory

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C307.1	2	1
C307.2	2	1
C307.3	2	1
C307.4	2	-
C307.5	-	-

C 308 18 MTL58 MSST –Laboratory

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C308.1	2	1
C308.2	2	1
C308.3	2	1
C308.4	2	1
C308.5	-	-



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**C 311 18 MT61 PLC & SCADA**

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C311.1	2	1
C311.2	2	1
C311.3	2	1
C311.4	2	1
C311.5	-	-

**C 312 18 MT62 Power Electronics**

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
		<b>2</b>
C312.1	2	1
C312.2	2	1
C312.3	2	1
C312.4	-	-
C312.5	-	-

**C 313 18 MT63 Computer Aided Machine Drawing**

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C313.1	2	1
C313.2	2	1
C313.3	2	1
C313.4	2	1
C313.5	-	-

**C 314 18 MT64 Rapid Prototyping**

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C314.1	2	1
C314.2	2	1
C314.3	2	1
C314.4	2	1
C314.5	-	-

**C 315 18 MT651 Robotics and Automation,**

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C315.1	2	1
C315.2	2	1
C315.3	2	1
C315.4	-	-
C315.5	-	-

C 316 18 MTL66 PLC and SCADA- Laboratory

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C316.1	2	1
C316.2	2	1
C316.3	2	1
C316.4	-	-
C316.5	-	-

C 317 18 MTL67 Power electronics – Laboratory

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C317.1	2	1
C317.2	2	1
C317.3	2	1
C317.4	2	1
C317.5	-	-

C 318 18MTM,P68 Mini-project

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C318.1	2	1
C318.2	2	1
C318.3	2	1
C318.4	2	1
C318.5	-	-



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C 401 18MT71 Industrial Robotics

CO	PSO1	PSO2
C401.1	2	1
C401.2	2	1
C401.3	2	1
C401.4	-	-
C401.5	-	-

C 402 18 MT72 Thermal Engineering

CO	PSO1	PSO2
C402.1	2	1
C402.2	2	1
C402.3	2	1
C402.4	2	1
C402.5	-	-

C 403 18 MT731 Automation In Process Control

CO	PSO1	PSO2
C403.1	2	1
C403.2	2	1
C403.3	2	1
C403.4	2	-
C403.5	2	-

C 404 18 MT743 Artificial Intelligence

CO	PSO1	PSO2
C404.1	2	1
C404.2	2	1
C404.3	2	1
C404.4	2	1
C404.5	-	-

C 405 18 MT751 Biomedical Signal Processing

CO	PSO1	PSO2
C405.1	2	1
C405.2	2	1
C405.3	2	1
C405.4	2	-
C405.5	2	-

C 406 18 MTL76 Robotics Lab

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C406.1	2	1
C406.2	2	1
C406.3	2	1
C406.4	2	1
C406.5	-	-

C 407 18 MTL77 Thermal -Laboratory

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C407.1	2	1
C407.2	2	1
C407.3	2	1
C407.4	2	-
C407.5	-	-

C 408 18 MTP78 Project Work Phase - 1

<b>CO</b>	<b>PSO1</b>	<b>PSO2</b>
C408.1	2	1
C408.2	2	1
C408.3	2	1
C408.4	2	-
C408.5	2	-



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C 411 18MT81 Automotive Electronics &  
Hybrid Vehicles

CO	PSO1	PSO2
C411.1	2	1
C411.2	2	1
C411.3	2	1
C411.4	2	-
C411.5	2	-

C 412 18 MT822 Communication system

CO	PSO1	PSO2
C412.1	2	1
C412.2	2	1
C412.3	2	1
C412.4	2	-
C412.5	-	-

C 413 18MTP83 Project Work

CO	PSO1	PSO2
C413.1	2	1
C413.2	2	1
C413.3	2	1
C413.4	2	-
C413.5	2	-

C 414 18 18MTS84 Technical Seminar

CO	PSO1	PSO2
C414.1	2	1
C414.2	2	-
C414.3	2	1
C414.4	2	1
C414.5	-	-

C 415 18MTI85 Internship

CO	PSO1	PSO2
C415.1	2	-
C415.2	2	-
C415.3	2	1
C415.4	2	1
C415.5	-	-



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### DEPARTMENT OF MANAGEMENT STUDIES (MBA)

### CO-PSO MAPPING

Academic year 2023-24

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

	PSO1	PSO2	PSO3	PSO4
C111.1	3			
C111.2		2		
C111.3	3		2	
C111.4		1		2

**Course Name: C112 (Entrepreneurship Development- 22MBA12)**

	PSO1	PSO2	PSO3	PSO4
C112.1	1			1
C112.2		2		
C112.3				
C112.4				
C112.5			3	
C112.6				2

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

	PSO1	PSO2	PSO3	PSO4
C113.1	3			
C113.2		2		
C113.3			2	

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

	PSO1	PSO2	PSO3	PSO4
C114.1	3			
C114.2		3		
C114.3	3		2	
C114.4		1		2
C114.5				



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### Course Name: C115 (Marketing Management - 22MBA15)

	PSO1	PSO2	PSO3	PSO4
C115.1	3			
C115.2		2		
C115.3			2	
C115.4				3
C115.5				

### Course Name: C116 (Business Communication - 22MBA16)

	PSO1	PSO2	PSO3	PSO4
C116.1	3			
C116.2		2		
C116.3			2	
C116.4				3

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

	PSO1	PSO2	PSO3	PSO4
C121.1	3			
C121.2		2		
C121.3			2	
C121.4				3
C121.5				

### Course Name: C122 (Financial Management -22MBA22)

	PSO1	PSO2	PSO3	PSO4
C122.1	3			
C122.2		2		
C122.3			2	
C112.4				3
C112.5				





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

	PSO1	PSO2	PSO3	PSO4
C123.1	3			
C123.2		2		
C123.3			2	
C123.4				3
C123.5			3	

### Course Name: C124 (Operational Research -22MBA24)

	PSO1	PSO2	PSO3	PSO4
C124.1	3			
C124.2		2		
C124.3	3		2	
C124.4		1		2

### Course Name: C125 (Strategic Management -22MBA25)

	PSO1	PSO2	PSO3	PSO4
C125.1	3			
C125.2		2		
C125.3			2	
C125.4				3

### Course Name: C126 (Managerial Economics -22MBA26)

	PSO1	PSO2	PSO3	PSO4
C126.1	3			
C126.2		3		
C126.3			1	
C126.4				1
C126.5		3		
C126.6				2



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### Course Name: C231 (LOGISTICS AND SUPPLY CHAIN MANAGEMENT -22MBA301)

	PSO1	PSO2	PSO3	PSO4
C231.1	3			
C231.2		2		
C231.3			2	
C231.4				3

### Course Name: C232 (Information Technology for Managers -22MBA302)

	PSO1	PSO2	PSO3	PSO4
C232.1	3			
C232.2		2		
C233.3			2	
C234.3				3

### Course Name: C233 (CONSUMER BEHAVIOUR -22MBAMM303)

	PSO1	PSO2	PSO3	PSO4
C233.1			2	
C233.2	3			
C233.3		3	2	
C233.4		3		3

### Course Name: C234 (Sales and Retail Management -22MBAMM304)

	PSO1	PSO2	PSO3	PSO4
C234.1	3			
C234.2		2		
C234.3			2	
C234.4				3
C235.5		2		
C235.6	1			
C235.7				3



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### Course Name: C235 (Strategic Cost Management -22MBAFM303)

	PSO1	PSO2	PSO3	PSO4
C235.1	3			
C235.2		2		
C235.3			2	
C235.4				3

### Course Name: C236 (SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT - 22MBAFM304)

	PSO1	PSO2	PSO3	PSO4
C236.1	3			
C236.2		2		
C236.3			2	
C236.4				3

### Course Name: C237 (RECRUITMENT AND SELECTION -22MBAHR303)

	PSO1	PSO2	PSO3	PSO4
C237.1	3			
C237.2		2		
C237.3	3		2	
C237.4		1		2

### Course Name: C238 (Industrial Relations And legislations -22MBAHR304)

	PSO1	PSO2	PSO3	PSO4
C238.1	3			
C238.2		2		
C238.3	3		2	
C238.4		1		2



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### Course Name: C239 (Introduction to Python, Data and Control Systems -22MBABA303)

	PSO1	PSO2	PSO3	PSO4
C239.1	3			
C239.2		2		
C239.3	3		2	
C239.4		1		2

### Course Name: C2310 (EXPLORATORY DATA ANALYSIS FOR BUSINESS - 22MBABA304)

	PSO1	PSO2	PSO3	PSO4
C2310.1	3			
C2310.2		2		
C2310.3	3		2	
C2310.4		1		2

### Course Name: C2311 (INTERNSHIP- 22MBAIN307)

	PSO1	PSO2	PSO3	PSO4
C2311.1	3			
C2311.2		2		
C2311.3	3		2	
C2311.4		1		2
C2311.5				

### Course Name: C241 (International Business -22MBA401)

	PSO1	PSO2	PSO3	PSO4
C241.1	3			
C241.2		2		
C241.3			2	
C241.4	2	3		3



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### Course Name: C242 (INNOVATION AND DESIGN THINKING -22MBA402)

	PSO1	PSO2	PSO3	PSO4
C242.1			2	
C242.2	3			
C242.3		3	2	
C242.4		3		3

### Course Name: C243 (STRATEGIC BRAND MANAGEMENT -22MBAMM403)

	PSO1	PSO2	PSO3	PSO4
C243.1	3			
C243.2		2		
C243.3			2	
C243.4				3

### Course Name: C244 (INTEGRATED MARKETING COMMUNICATIONS - 22MBAMM404)

	PSO1	PSO2	PSO3	PSO4
C244.1	2			
C244.2				
C244.3		3		
C244.4			3	2

### Course Name: C255 (GLOBAL FINANCIAL MANAGEMENT -22MBAFM403 )

	PSO1	PSO2	PSO3	PSO4
C245.1	3			
C245.2		2		
C245.3			2	
C245.4				3



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### Course Name: C246 (MERGERS ACQUISITIONS AND CORPORATE RESTRUCTURING -22MBAFM404)

	PSO1	PSO2	PSO3	PSO4
C246.1	2			
C246.2		2		
C246.3	1			
C246.4		3		
C246.5				2
C246.6		2		1

### Course Name: C247 (CONFLICT & NEGOTIATION MANAGEMENT -22MBAHR403)

	PSO1	PSO2	PSO3	PSO4
C247.1	3			
C247.2		2		
C247.3			2	
C247.4				3

### Course Name: C248 (Global HRM -22MBAHR404)

	PSO1	PSO2	PSO3	PSO4
C248.1	3			
C248.2		2		
C248.3			2	
C248.4				3

### Course Name: C249 (Machine learning - 22MBABA403)

	PSO1	PSO2	PSO3	PSO4
C249.1	3			
C249.2		2		
C249.3			2	
C249.4				2



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### Course Name: C2410 (HR Analytics - 22MBABA404)

	PSO1	PSO2	PSO3	PSO4
C2410.1	3			
C2410.2		2		
C2410.3			2	
C2410.4				2

### Course Name: C2411 (Project Work -22MBAPR407)

	PSO1	PSO2	PSO3	PSO4
C2411.1	3			
C2411.2		2		
C2411.3			2	
C2411.4				2