

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### CO attainment of overall courses including first year courses: Academic Batch (2020-24)

| S<br>N<br>O | CODE | COURSE NAME                                       | DIRECT CO ATTAINMENT   |                        | INDIRECT<br>CO<br>ATTAIN<br>MENT | CO<br>ATTAI<br>NMENT | % CO<br>ATTAIN<br>MENT |
|-------------|------|---------------------------------------------------|------------------------|------------------------|----------------------------------|----------------------|------------------------|
|             |      |                                                   | INTERNAL<br>ATTAINMENT | EXTERNAL<br>ATTAINMENT |                                  |                      |                        |
|             |      |                                                   | 60%                    | 40%                    |                                  |                      |                        |
| 1.          | C101 | CALCULUS AND<br>LINEAR ALGEBRA                    | 3.00                   | 3.00                   | 3.00                             | 3.00                 | 100%                   |
| 2.          | C102 | ENGINEERING<br>PHYSICS                            | 3.00                   | 1.00                   | 3.00                             | 2.36                 | 79%                    |
| 3.          | C103 | BASIC ELECTRICAL<br>ENGINEERING                   | 2.50                   | 1.00                   | 3.00                             | 2.12                 | 71%                    |
| 4.          | C104 | ELEMENTS OF CIVIL<br>ENGINEERING AND<br>MECHANICS | 2.67                   | 1.00                   | 3.00                             | 2.20                 | 73%                    |
| 5.          | C105 | ENGINEERING<br>GRAPHICS                           | 3.00                   | 1.00                   | 3.00                             | 2.36                 | 79%                    |
| 6.          | C106 | ENGINEERING<br>PHYSICS<br>LABORATORY              | 3.00                   | 3.00                   | 3.00                             | 3.00                 | 100%                   |
| 7.          | C107 | BASIC ELECTRICAL<br>ENGINEERING<br>LABORATORY     | 3.00                   | 2.00                   | 3.00                             | 2.68                 | 89%                    |
| 8.          | C108 | TECHNICAL ENGLISH-I                               | 2.20                   | 3.00                   | 3.00                             | 2.62                 | 87%                    |
| 9.          | C109 | ADVANCED<br>CALCULUS AND<br>NUMERICAL<br>METHODS  | 3.00                   | 1.00                   | 3.00                             | 2.36                 | 79%                    |
| 10.         | C110 | ENGINEERING<br>CHEMISTRY                          | 2.40                   | 1.00                   | 3.00                             | 2.07                 | 69%                    |
| 11.         | C111 | C PROGRAMMING FOR<br>PROBLEM SOLVING              | 1.88                   | 1.00                   | 3.00                             | 1.82                 | 61%                    |
| 12.         | C112 | BASIC ELECTRONICS                                 | 3.00                   | 3.00                   | 3.00                             | 3.00                 | 100%                   |

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|     |      |                                                            |      |      |      |      |      |
|-----|------|------------------------------------------------------------|------|------|------|------|------|
| 13. | C113 | ELEMENTS OF MECHANICAL ENGINEERING                         | 3.00 | 1.00 | 3.00 | 2.36 | 79%  |
| 14. | C114 | ENGINEERING CHEMISTRY LABORATORY                           | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 15. | C115 | C PROGRAMMING LABORATORY                                   | 3.00 | 1.00 | 3.00 | 2.36 | 79%  |
| 16. | C116 | TECHNICAL ENGLISH-II                                       | 2.00 | 1.00 | 3.00 | 1.88 | 63%  |
| 17. | C201 | TRANSFORM CALCULUS,FOURIES SERIES AND NUMERICAL TECHNIQUES | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 18. | C202 | NETWORK THEORY                                             | 1.40 | 2.00 | 2.88 | 1.89 | 63%  |
| 19. | C203 | ELECTRONIC DEVICES                                         | 2.25 | 3.00 | 3.00 | 2.64 | 88%  |
| 20. | C204 | DIGITAL SYSTEM DESIGN                                      | 2.75 | 3.00 | 2.80 | 2.84 | 95%  |
| 21. | C205 | COMPUTER ORGANIZATION AND ARCHITECTURE                     | 2.13 | 2.00 | 3.00 | 2.26 | 75%  |
| 22. | C206 | POWER ELECTRONICS AND INSTRUMENTATION                      | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 23. | C207 | ELECTRONIC DEVICES AND INSTRUMENTATION LABORATORY          | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 24. | C208 | DIGITAL SYSTEM DESIGN LABORATORY                           | 3.00 | 3.00 | 3.00 | 3.00 | 100% |

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|     |      |                                                          |      |      |      |      |      |
|-----|------|----------------------------------------------------------|------|------|------|------|------|
| 25. | C209 | CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 26. | C210 | COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS    | 2.13 | 1.00 | 3.00 | 1.94 | 65%  |
| 27. | C211 | ANALOG CIRCUITS                                          | 1.70 | 1.00 | 2.80 | 1.70 | 57%  |
| 28. | C212 | CONTROL SYSTEMS                                          | 1.75 | 1.00 | 3.00 | 1.76 | 59%  |
| 29. | C213 | ENGINEERING STATISTICS AND LINEAR ALGEBRA                | 2.13 | 1.00 | 3.00 | 1.94 | 65%  |
| 30. | C214 | SIGNALS AND SYSTEMS                                      | 1.00 | 2.00 | 2.89 | 1.70 | 57%  |
| 31. | C215 | MICROCONTROLLER                                          | 1.75 | 1.00 | 3.00 | 1.76 | 59%  |
| 32. | C216 | MICROCONTROLLER LABORATORY                               | 3.00 | 2.00 | 3.00 | 2.68 | 89%  |
| 33. | C217 | ANALOG CIRCUITS LABORATORY                               | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 34. | C218 | VYAVAHARIKA KANNADA/ADALITHA KANNADA                     | 3.00 | 3.00 | 2.79 | 2.96 | 99%  |
| 35. | C301 | TECHNOLOGICAL INNOVATION MANAGEMENT AND ENTERPREURSHIP   | 2.00 | 3.00 | 3.00 | 2.52 | 84%  |
| 36. | C302 | DIGITAL SIGNAL PROCESSING                                | 2.50 | 3.00 | 3.00 | 2.76 | 92%  |

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|     |      |                                      |      |      |      |      |      |
|-----|------|--------------------------------------|------|------|------|------|------|
| 37. | C303 | PRINCIPLES OF COMMUNICATION SYSTEMS  | 3.00 | 1.00 | 3.00 | 2.36 | 79%  |
| 38. | C304 | INFORMATION THEORY AND CODING        | 2.00 | 3.00 | 3.00 | 2.52 | 84%  |
| 39. | C305 | ELECTROMAGNETIC WAVES                | 1.88 | 1.00 | 3.00 | 1.82 | 61%  |
| 40. | C306 | VERILOG HDL                          | 1.00 | 2.00 | 3.00 | 1.72 | 57%  |
| 41. | C307 | DIGITAL SIGNAL PROCESSING LABORATORY | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 42. | C308 | HDL LABORATORY                       | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 43. | C309 | ENVIRONMENTAL STUDIES                | 2.50 | 3.00 | 3.00 | 2.76 | 92%  |
| 44. | C310 | DIGITAL COMMUNICATION                | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 45. | C311 | EMBEDDED SYSTEMS                     | 2.40 | 1.00 | 3.00 | 2.07 | 69%  |
| 46. | C312 | MICROWAVE AND ANTENNAS               | 2.50 | 1.00 | 3.00 | 2.12 | 71%  |
| 47. | C313 | DATASTRUCTURE USING C++              | 3.00 | 1.00 | 3.00 | 2.36 | 79%  |
| 48. | C314 | OPERATIONAL HEALTH AND SAFETY        | 2.40 | 3.00 | 3.00 | 2.71 | 90%  |
| 49. | C315 | EMBEDDED SYSTEMS LABORATORY          | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 50. | C316 | COMMUNICATION LABORATORY             | 3.00 | 3.00 | 3.00 | 3.00 | 100% |

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|     |      |                                         |      |      |      |      |      |
|-----|------|-----------------------------------------|------|------|------|------|------|
| 51. | C317 | MINIPROJECT                             | 3.00 | 2.00 | 3.00 | 2.68 | 89%  |
| 52. | C401 | COMPUTER NETWORKS                       | 2.75 | 1.00 | 3.00 | 2.24 | 75%  |
| 53. | C402 | VLSI DESIGN                             | 1.40 | 2.00 | 3.00 | 1.91 | 64%  |
| 54. | C403 | DIGITAL IMAGE PROCESSING                | 2.63 | 1.00 | 3.00 | 2.18 | 73%  |
| 55. | C404 | MULTIMEDIA COMMUNICATION                | 2.63 | 1.00 | 3.00 | 2.18 | 73%  |
| 56. | C405 | INTRODUCTION TO ARTIFICIAL INTELLIGENCE | 2.38 | 1.00 | 3.00 | 2.06 | 69%  |
| 57. | C406 | COMPUTER NETWORKS LABORATORY            | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 58. | C407 | VLSI LABORATORY                         | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 59. | C408 | PROJECT WORK PHASE-I                    | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 60. | C409 | WIRELESS AND CELLULAR COMMUNICATION     | 2.25 | 3.00 | 3.00 | 2.64 | 88%  |
| 61. | C410 | NETWORK SECURITY                        | 2.20 | 3.00 | 3.00 | 2.62 | 87%  |
| 62. | C411 | PROJECT WORK PHASE-II                   | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 63. | C412 | TECHNICAL SEMINAR                       | 3.00 | 3.00 | 3.00 | 3.00 | 100% |
| 64. | C413 | INTERNSHIP                              | 3.00 | 3.00 | 3.00 | 3.00 | 100% |