

# PAAVAI ENGINEERING COLLEGE

(Autonomous)

## DEPARTMENT OF BIOMEDICAL ENGINEERING

BATCH: 2020 – 2024

| Semester | Course code | Course Name |                                                  | Target | CO1   | CO2   | CO3   | CO4   | CO5  |
|----------|-------------|-------------|--------------------------------------------------|--------|-------|-------|-------|-------|------|
| 1        | C101        | MA20101     | MATRICES AND CALCULUS                            | 55     | 77.2  | 70.1  | 74.3  | 71.3  | 78.1 |
|          | C102        | EN20101     | ENGLISH COMMUNICATION SKILLS I                   | 55     | 85.44 | 88.88 | 80    | 83.44 | -    |
|          | C103        | PH20101     | ENGINEERING PHYSICS                              | 55     | 85.11 | 77.2  | 72.1  | 74.3  | 71.3 |
|          | C104        | CH 20101    | ENGINEERING CHEMISTRY                            | 55     | 77.22 | 72.1  | 74.3  | 71.3  | 88   |
|          | C105        | EE20101     | BASIC ELECTRICAL ENGINEERING                     | 55     | 83.2  | 85    | 87    | 86    | 89.1 |
|          | C106        | CS20102     | PROGRAMMING IN PYTHON                            | 55     | 73.33 | 75.55 | 82    | 74.44 | 81.2 |
|          | C107        | CH20102     | CHEMISTRY LABORATORY                             | 55     | 75.55 | 82    | 74.44 | 73.44 | -    |
|          | C108        | GE20101     | ENGINEERING PRACTICES LABORATORY                 | 55     | 69.4  | 69.8  | 62    | 64.5  | -    |
|          | C109        | CS20103     | PROGRAMMING IN PYTHON LABORATORY                 | 55     | 71.3  | 64.8  | 63.8  | 64.8  | -    |
|          | C110        | EN20201     | ENGLISH COMMUNICATION SKILLS II                  | 55     | 74    | 73.8  | 74.8  | 70    | -    |
|          | C111        | MA20201     | COMPLEX VARIABLE AND DIFFERENTIAL EQUATION       | 55     | 88    | 89.2  | 84    | 80    | 83.3 |
|          | C112        | PH20201     | PHYSICS FOR ELECTRONICS ENGINEERING              | 55     | 83.2  | 85    | 87    | 71.93 | 81.2 |
|          | C113        | ME20201     | ENGINEERING GRAPHICS                             | 55     | 71.3  | 69.8  | 72.1  | 76    | 69.8 |
|          | C114        | BM20201     | FUNDAMENTAL OF BIOCHEMISTRY                      | 55     | 59.8  | 59.6  | 64.5  | 60    | 57   |
|          | C115        | MC20201     | ENVIRONMENTAL SCIENCE AND ENGINEERING            | 55     | 85    | 83    | 82.1  | 87    | 82.1 |
|          | C116        | PH20205     | PHYSICS LABORATORY                               | 55     | 82    | 83.2  | 81    | 79.88 | -    |
|          | C117        | BM20202     | BIOCHEMISTRY LABORATORY                          | 55     | 80    | 85    | 83    | 82.1  | -    |
| 2        | C201        | MA20302     | LINEAR ALGEBRA AND PARTIAL DIFFERENTIAL EQUATION | 55     | 69.73 | 68.5  | 71.93 | 60.59 | 61.2 |
|          | C202        | BM20301     | ELECTRONIC DEVICES AND CIRCUITS                  | 55     | 74.6  | 75.3  | 74.8  | 72    | 74.4 |
|          | C203        | BM20302     | SIGNALS AND SYSTEMS                              | 55     | 71.3  | 69.8  | 72.1  | 76    | 69.8 |
|          | C204        | BM20303     | SENSORS AND MEASUREMENTS                         | 55     | 79.8  | 74.5  | 73.8  | 74.8  | 71.9 |

|      |         |                                                   |    |      |      |      |      |      |
|------|---------|---------------------------------------------------|----|------|------|------|------|------|
| C205 | BM20304 | ANATOMY AND HUMAN PHYSIOLOGY                      | 55 | 61.3 | 61.4 | 60.6 | 68.5 | 60.5 |
| C206 | MC20301 | VALUE EDUCATION                                   | 55 | 70.4 | 71   | 70.3 | 74.8 | 78   |
| C207 | BM20305 | ELECTRONIC DEVICES AND CIRCUITS LABORATORY        | 55 | 81.1 | 92   | 87   | 88   | -    |
| C208 | BM20306 | SENSORS AND MEASUREMENTS LABORATORY               | 55 | 87   | 83.2 | 85   | 87   | -    |
| C209 | BM20401 | ANALOG AND DIGITAL INTEGRATED CIRCUITS            | 55 | 76.8 | 79.4 | 79.8 | 66.2 | 61.7 |
| C210 | BM20402 | BIOMEDICAL INSTRUMENTATION                        | 55 | 71   | 72.3 | 79.3 | 79.4 | 76.8 |
| C211 | BM20403 | PATHOLOGY AND MICROBIOLOGY                        | 55 | 64.7 | 71.7 | 70.7 | 69.8 | 74   |
| C212 | BA20151 | ENTREPRENEURSHIP DEVELOPMENT                      | 55 | 72.4 | 76.3 | 75.6 | 74.8 | 69.8 |
| C213 | IT20404 | OBJECT ORIENTED PROGRAMMING WITH C++              | 55 | 72.3 | 79.3 | 79.4 | 76.8 | 71   |
| C214 | BM20404 | ANALOG AND DIGITAL INTEGRATED CIRCUITS LABORATORY | 55 | 83   | 82   | 83.2 | 81   | -    |
| C215 | BM20405 | BIOMEDICAL INSTRUMENTATION LABORATORY             | 55 | 88   | 83   | 87   | 88   | -    |
| C216 | IT20407 | OBJECT ORIENTED PROGRAMMING WITH C++ LABORATORY   | 55 | 81   | 89   | 87   | 89.9 | -    |
| C217 | EN20401 | ENGLISH PROFICIENCY COURSE LABORATORY             | 55 | 79.3 | 79.4 | 76.8 | 71   | -    |
| 3    | C301    | BIOMECHANICS                                      | 55 | 68.2 | 71.3 | 59.6 | 58.4 | 59.4 |
|      | C302    | BIOMEDICAL SIGNAL PROCESSING                      | 55 | 67.2 | 65.3 | 70.5 | 64.5 | 68.9 |
|      | C303    | MICROPROCESSOR AND MICROCONTROLLER                | 55 | 71   | 72.3 | 79.3 | 79.4 | 76.8 |
|      | C304    | BIOMATERIALS                                      | 55 | 68.9 | 70.4 | 71.8 | 81.4 | 64.5 |
|      | C305    | DIAGNOSTIC AND THERAPEUTIC EQUIPMENT I            | 55 | 72   | 73   | 74.4 | 73.2 | 79.4 |
|      | C306    | BIOMEMS                                           | 55 | 74.6 | 75.3 | 74.8 | 72   | 74.4 |
|      | C307    | MICROPROCESSOR AND MICROCONTROLLER LABORATORY     | 55 | 88.2 | 81.3 | 86.2 | 89   | -    |
|      | C308    | BIOMEDICAL SIGNAL PROCESSING LABORATORY           | 55 | 67.6 | 72.4 | 72.1 | 74.2 | -    |
|      | C309    | CAREER DEVELOPMENT LABORATORY I                   | 55 | 67.2 | 65.3 | 70.5 | 64.5 | -    |
|      | C310    | HUMAN ASSIST DEVICES                              | 55 | 72   | 73   | 74.4 | 73.2 | 79.4 |
|      | C311    | HEALTHCARE AND HOSPITAL MANAGEMENT                | 55 | 75   | 67   | 64   | 66   | 76   |



|      |         |                                                   |    |       |      |      |      |      |
|------|---------|---------------------------------------------------|----|-------|------|------|------|------|
| C312 | BM20603 | DIAGNOSTIC AND THERAPEUTIC EQUIPMENT II           |    | 76.8  | 78.2 | 79.4 | 81.3 | 74.4 |
| C313 | BM20604 | BIO CONTROL SYSTEMS                               | 55 | 76    | 76   | 70   | 76   | 72.1 |
| C314 | BM20253 | PATTERN RECOGNITION AND NEURAL NETWORKS           | 55 | 75.8  | 79   | 77.2 | 79.4 | 79.8 |
| C315 | ME20901 | RENEWABLE ENERGY SOURCES                          | 55 | 81.2  | 82.4 | 83.2 | 84.4 | 70.4 |
| C316 | BM20605 | DIAGNOSTIC AND THERAPEUTIC EQUIPMENT LABORATORY   | 55 | 83    | 82   | 83.2 | 81   | -    |
| C317 | BM20606 | DESIGN PROJECT                                    | 55 | 85    | 83   | 82.1 | 87   | -    |
| C318 | EN20601 | CAREER DEVELOPMENT LABORATORY II                  | 55 | 71    | 70.3 | 74.8 | 78   | -    |
| 4    | C401    | RADIOLOGICAL EQUIPMENT                            | 55 | 86.6  | 79.4 | 74.2 | 76.9 | 86.7 |
|      | C402    | MEDICAL IMAGE PROCESSING                          | 55 | 76    | 70   | 76   | 72.1 | 76   |
|      | C403    | FUNDAMENTALS OF BIOMEDICAL NANOTECHNOLOGY         | 55 | 65    | 65   | 60   | 61   | 62   |
|      | C404    | ARTIFICIAL INTELLIGENT FOR BIOMEDICAL ENGINEERING | 55 | 82.5  | 82.1 | 85.1 | 82.3 | 86.7 |
|      | C405    | DISASTER MANAGEMENT                               | 55 | 73.4  | 77.2 | 72.1 | 74.3 | 77.2 |
|      | C406    | HOSPITAL INTERNSHIP TRAINING                      | 55 | 88.25 | 87   | 89   | 88.1 | 82.1 |
|      | C407    | MEDICAL IMAGE PROCESSING LABORATORY               | 55 | 88.2  | 81.3 | 86.2 | 89   | -    |
|      | C408    | PROJECT WORK PHASE I                              | 55 | 81.5  | 82.4 | 83   | 81   | -    |
|      | C409    | ARTIFICIAL ORGANS AND IMPLANTS                    | 55 | 83    | 82   | 81.3 | 84   | 84.4 |
|      | C410    | QUALITY CONTROL IN BIOMEDICAL ENGINEERING         | 55 | 82    | 81.3 | 84   | 84.4 | 85   |
|      | C411    | PROJECT WORK PHASE II                             | 55 | 82.2  | 85   | 84   | 83.2 | -    |

  
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