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2. GE8161 Problem Solving and Python Programming Laboratory | 1. GE8261 Engineering Practices Laboratory |
| III                | 1. GE8151 Problem Solving and Python Programming,  
2. GE8161 Problem Solving and Python Programming Laboratory  
3. GE8291 Environmental Science and Engineering  
4. BE8255 Basic Electrical, Electronics and Measurement Engineering | 1. CS8351 Digital Principles and System Design  
2. CS8382 Digital Systems Laboratory |
| IV                 | 1. MA8351 Discrete Mathematics  
2. CS8392 Object Oriented Programming  
3. CS8383 Object Oriented Programming Laboratory | 1. CS8491 Computer Architecture  
2. CS8492 Database Management Systems  
3. CS8481 Database Management Systems Laboratory |
| V                  | 1. MA8351 Discrete Mathematics  
2. CS8392 Object Oriented Programming  
3. CS8383 Object Oriented Programming Laboratory | 1. CS8591 Computer Networks  
2. EC8691 Microprocessors and Microcontrollers  
3. EC881 Microprocessors and Microcontrollers Laboratory  
4. CS8581 Networks Laboratory |
| VI                 | 1. CS8392 Object Oriented Programming  
2. CS8383 Object Oriented Programming Laboratory  
3. MA8551 Algebra and Number Theory  
4. Open Elective I | 1. CS8651 Internet Programming  
2. CS8661 Internet Programming Laboratory  
3. Professional Elective II |
| VII                | NIL                 | NIL               |
| VIII               | NIL                 | NIL               |

Note: All Students who have got readmitted after break of study shall choose electives which they have not already studied either as a core or as an elective in their previous semesters.
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2. GE8161 Problem Solving and Python Programming Laboratory  
3. BE8254 Basic Electrical and Instrumentation Engineering | NIL |
| IV                 | 1. EC8391 Control Systems Engineering | - |
| V                  | 1. GE8291 Environmental Science and Engineering | - |
| VI                 | 1. EC8552 Computer Architecture and Organization  
2. EC8551 Communication Networks  
3. Professional Elective I  
4. Open Elective I  
5. EC8563 Communication Networks Laboratory | 1. EC8651 Transmission Lines and RF Systems  
2. EC8691 Microprocessors and Microcontrollers  
3. EC8681 Microprocessors and Microcontrollers Laboratory |
| VII                | 1. EC8652 Wireless Communication | 1. EC8701 Antennas and Microwave Engineering |
| VIII               | 1. EC8652 Wireless Communication | 1. Professional Elective V |

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| III                | 1. GE8151 Problem Solving and Python Programming  
2. GE8161 Problem Solving and Python Programming Laboratory  
3. IT8201 Information Technology Essentials  
4. BE8255 Basic Electrical, Electronics and Measurement Engineering  
5. IT8211 Information Technology Essentials Laboratory | 1. CS8351 Digital Principles and System Design  
2. CS8382 Digital Systems Laboratory |
| IV                 | 1. MA8351 Discrete Mathematics  
2. CS8392 Object Oriented Programming  
3. CS8383 Object Oriented Programming Laboratory | 1. CS8491 Computer Architecture  
2. CS8492 Database Management Systems  
3. CS8481 Database Management Systems Laboratory  
4. GE8291 Environmental Science and Engineering |
| V                  | 1. MA8351 Discrete Mathematics  
2. CS8392 Object Oriented Programming  
3. CS8383 Object Oriented Programming Laboratory | 1. CS8494 Software Engineering  
2. EC8691 Microprocessors and Microcontrollers  
3. EC8681 Microprocessors and Microcontrollers Laboratory |
| VI                 | 1. MA8551 Algebra and Number Theory  
2. Open Elective I  
3. CS8392 Object Oriented Programming  
4. CS8383 Object Oriented Programming Laboratory | 1. CS8592 Object Oriented Analysis and Design  
2. CS8582 Object Oriented Analysis and Design Laboratory  
3. CS8092 Computer Graphics and Multimedia  
4. Professional Elective I |
| VII                | 1. CS8091 Big Data Analytics | 1. Professional Elective III |
| VIII               | NIL                 | NIL               |

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### Additional Subjects

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| III               | 1. GE8151 Problem Solving and Python Programming  
2. GE8161 Problem Solving and Python Programming Laboratory  
3. BM8251 Engineering Mechanics for Biomedical Engineers  
4. BM8201 Fundamentals of Bio Chemistry  
5. BM8211 Bio Chemistry Laboratory | 1. EC8353 Electron Devices and Circuits  
2. BM8312 Devices and Circuits Laboratory |
| IV                | 1. BM8251 Engineering Mechanics for Biomedical Engineers  
2. BM8302 Pathology and Microbiology  
3. BM8311 Pathology and Microbiology Laboratory | 1. EC8393 Fundamentals of Data Structures in C  
2. EC8381 Fundamentals of Data Structures in C Laboratory |
| V                 | 1. EC8392 Digital Electronics | 1. EC8394 Analog and Digital Communication |
| VI                | 1. EC8392 Digital Electronics  
2. EC8553 Discrete – Time Signal Processing  
3. Open Elective I  
4. Professional Elective I  
5. EC8562 Digital Signal Processing Laboratory | 1. EC8691 Microprocessors and Microcontrollers  
2. EC8681 Microprocessors and Microcontrollers Laboratory  
3. BM8601 Diagnostic and Therapeutic Equipment-I  
4. MD8091 Hospital Management  
5. Professional Elective II |
| VII               | 1. Open Elective I  
2. Professional Elective** | 1. BM8701 Diagnostic and Therapeutic Equipment II  
2. BM8702 Radiological Equipments |
| VIII              | NIL                 | NIL               |

**Note:** The candidate readmitted after break of study and rejoining in VI semester shall undergo additionally one elective Course as Professional Elective VI to earn the required number of credits as per the Regulations (CBCS).

**Note:** All Students who have got readmitted after break of study shall choose electives which they have not already studied either as a core or as an elective in their previous semesters.
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<td>IV</td>
<td>1. EC8352 Signals and Systems</td>
<td>1. EC8394 Analog and Digital Communication</td>
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<td>2. Professional Elective **</td>
<td>2. CS8451 Design and Analysis of Algorithms</td>
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<td>V</td>
<td>1. CS8392 Object Oriented Programming</td>
<td>3. CS8491 Computer Architecture</td>
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Note: ** The candidate readmitted after break of study and rejoining in IV semester shall undergo additionally one Elective Course as professional elective VI to earn the required number of credits as per the Regulations (CBCS).

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### FACULTY OF INFORMATION AND COMMUNICATION ENGINEERING
#### BRANCH: B.E. MEDICAL ELECTRONICS

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2. GE8161 Problem Solving and Python Programming Laboratory  
3. BM8251 Engineering Mechanics for Biomedical Engineers | NIL |
| IV                 | 1. BM8251 Engineering Mechanics for Biomedical Engineers | NIL |
| V                  | 1. BM8251 Engineering Mechanics for Biomedical Engineers  
2. EE8452 Basics of Electrical Engineering  
3. MD8411 Medical Instrumentation Laboratory | 1. EC8691 Microprocessors and Microcontrollers (VI semester)  
2. EC8681 Microprocessors and Microcontrollers Laboratory (VI semester) |
| VI                 | 1. EC8394 Analog and Digital Communication  
2. MD8501 Therapeutic Equipments  
3. MD8511 Medical Equipments Laboratory  
4. Open Elective I  
5. Professional Elective I | 1. EC8691 Microprocessors and Microcontrollers  
2. EC8681 Microprocessors and Microcontrollers Laboratory  
3. BM8651 Biomechanics  
4. MD8603 Medical Informatics  
5. Professional Elective II  
6. HS8581 Professional Communication |
| VII                | 1. EC8394 Analog and Digital Communication  
2. MD8602 Medical Image Techniques  
3. MD8611 Medical Electronics System Design Lab | 1. Professional Elective III  
2. EC8093 Digital Image Processing  
3. EC8762 Digital Image Processing Lab |
| VIII               | 1. MD8611 Medical Electronics System Design Lab | NIL |

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