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|----------|----------------------------------------------------|---|
| CIV 4206 | Civil Engineering Environmental Quality Management | 3 |
| CIV 4207 | Water Transmission and Distribution | 3 |
| CIV 4208 | Waste Water Treatment and Management | 3 |
| CIV 4209 | Human Resources Management and Enterpr. | 3 |
| CIV 4230 | Project Work | 6 |
| CIV 4231 | Civil Engineering Economy | 4 |
| CIV 4233 | Geotechnical Engineering | 4 |

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|-------------------------------------------------------------|------------------------------------|---|
| CIV 4234 | Introductory Dynamics of Structure | 4 |
| CIV 4235 | Civil Infrastructure Maintenance | 3 |
| CIV 4236 | Public Health Engineering II | 3 |
| * The following shall be treated as Elective Courses | | |
| CIV 4201 | Civil Engineering Law | 4 |
| CIV 4205 | Geotechnical Engineering | 4 |

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING (BELE)

Programme Structure

| Year I: Semester I | | CU |
|----------------------------|-------------------------------------------------|-----------|
| CSK 1101 | Communication Skills | |
| CSK 1102 | Receptive and Productive Skills of Comm. | |
| EMT 1101 | Engineering Maths I | 4 |
| EMT 1104 | Information Communication Technology I | |
| ELE 1101 | Circuit Theory | 3 |
| ELE 1102 | Introduction to Computers | 4 |
| ELE 1103 | Physical Electronics | 4 |
| TEC 1101 | Communication Skills for Technology | 4 |
| Semester II | | |
| EMT 1201 | Engineering Maths II | 4 |
| EMT 1205 | Computer Programming I | 4 |
| MEC 1204 | Mechanics of Materials I | 3 |
| ELE 1201 | Introduction to Digital Electronics | 4 |
| ELE 1202 | Electricity & Magnetism | 4 |
| ELE 1203 | Computer Programming for Electrical Engineers I | 4 |
| ELE 1204 | Statics and Dynamics for Electrical Engineers | 3 |
| Recess Term | | |
| IND 1301 | Workshop Practice | 2 |
| TEC 1301 | Workshop Practice | 2 |
| | Total Year I Credit Units | 50 |
| Year II: Semester I | | |
| ELE 2101 | Electrical Machines I | 4 |
| ELE 2102 | Electrical Circuits | 4 |
| ELE 2103 | Electromagnetism | 4 |

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|-----------------------------|--------------------------------------------------|-----------|
| ELE 2104 | Electrical Materials I | 4 |
| EMT 2101 | Engineering Mathematics III | 4 |
| TEC 2101 | Sociology for Technology | 3 |
| Semester II | | |
| EMT 2201 | Engineering Mathematics IV | 4 |
| ELE 2201 | Power Systems Theory | 4 |
| ELE 2202 | Electrical Materials II | 4 |
| ELE 2203 | Network Theory I | 4 |
| ELE 2204 | Economics for Electrical Engineers | 3 |
| Recess Term | | |
| IND 2301 | Industrial Training I | 2 |
| ELE 2301 | Industrial Training for Electrical Engineers | 2 |
| | Total Year II Credit Units | 49 |
| Year III: Semester I | | |
| ELE 3101 | Electromagnetic Fields | 4 |
| ELE 3102 | Applied Analogue Electronics | 4 |
| ELE 3103 | Applied Digital Electronics | 4 |
| ELE 3104 | Energy Conversation | 4 |
| ELE 3105 | Energy Utilization | 4 |
| ELE 3106 | Electrical Installation Practice | 4 |
| ELE 3107 | Computer Programming for Electrical Engineers II | 3 |
| ELE 3108 | Principles of Accounts for Electrical Engineers | 3 |
| ELE 3109 | Engineering Mathematics V | 4 |
| EMT 3101 | Survey Mathematics III | 4 |
| EMT 3105 | Engineering Mathematics V | 4 |
| EMT 3109 | Computer Programming II | 4 |
| Semester II | | |
| MEC 3201 | Maintenance Engineering | 4 |

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|----------------------------|-------------------------------------------------|-----------|
| MEC 3204 | Heat Transfer | 3 |
| ELE 3201 | Instrumentation | 4 |
| ELE 3202 | Control System Engineering I | 4 |
| ELE 3203 | Power Electronics | 4 |
| ELE 3204 | Communication Engineering I | 4 |
| ELE 3205 | Electrical Machines II | 4 |
| ELE 3206 | Business Management for Electrical Engineers I | 3 |
| ELE 3207 | Law for Electrical Engineers | 3 |
| EMT 3201 | Engineering Mathematics IV | 4 |
| Recess Term | | |
| IND 3301 | Industrial Training II | 2 |
| ELE 3301 | Industrial Training for Electrical Engineers II | 2 |
| | Total Year III Credit Units | 49 |
| Year IV: Semester I | | |
| ELE 4100 | Electrical Engineering Project I | 2 |
| ELE 4101 | Communication Engineering II | 3 |
| ELE 4102 | Propagation | 3 |
| ELE 4103 | Telecommunication Systems I | 3 |
| ELE 4104 | Microprocessors | 3 |
| ELE 4105 | Power Systems Engineering I | 4 |
| ELE 4106 | Network Theory II | 4 |

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|--------------------|--------------------------------------------------|---|
| ELE 4107 | Power System Protection and coordination | 3 |
| ELE 4108 | Business Management for Electrical Engineers II | 3 |
| Semester II | | |
| ELE 4200 | Electrical Engineering Project II | 4 |
| ELE 4201 | Project | 3 |
| ELE 4202 | Telecommunication System II | 3 |
| ELE 4203 | Computer System Engineering | 3 |
| ELE 4204 | Radio Frequency Engineering | 4 |
| ELE 4205 | Antennas | 3 |
| ELE 4206 | Integrated Circuits Design and Fabrication | 3 |
| ELE 4207 | Control Engineering II | 3 |
| ELE 4208 | Power Systems Engineering II | 3 |
| ELE 4209 | High Voltage Engineering | 4 |
| ELE 4210 | Electrical Installation Design | 3 |
| ELE 4211 | Business Management for Electrical Engineers III | 3 |
| ELE 4301 | Project | 6 |

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING (BMEC)

Programme Structure

| Year I: Semester I | | CU |
|---------------------------|--------------------------------------------------|-----------|
| CSK 1101 | Communication Skills | |
| ELE 1103 | Physical Electronics | 4 |
| EMT 1101 | Engineering Mathematics I | 4 |
| MEC 1101 | Engineering Drawing | 4 |
| MEC 1102 | Engineering Mechanics I | 4 |
| MEC 1103 | Electrical Engineering for Mechanics Engineers I | 4 |
| MEC 1104 | Engineering Drawing | 5 |
| MEC 1107 | Electrical Engineering | 5 |
| MEC 1109 | Thermodynamics | 5 |
| TEC 1101 | Communication Skills for Technology | 3 |
| Semester II | | |
| EMT 1201 | Engineering Mathematics II | 4 |
| EMT 1204 | Information Communications Technology | 4 |

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|----------------------------|--------------------------------------------|-----------|
| MEC 1201 | Engineering Mechanics II | 4 |
| MEC 1203 | Thermodynamics | 4 |
| MEC 1204 | Mechanics of Materials I | 4 |
| MEC 1205 | Fluid Mechanics I | 4 |
| MEC 1206 | Introduction to Computers | 5 |
| MEC 1208 | Communication Skills | 5 |
| MEC 1209 | Mechanics of Materials I | 5 |
| Recess Term | | |
| IND 1301 | Workshop Practice | 2 |
| TEC 1301 | Workshop Practice | 2 |
| TEC 1302 | Workshop Practice | 5 |
| | Total Year I Credit Units | 50 |
| Year II: Semester I | | |
| EMT 2101 | Engineering Maths III | 4 |
| MEC 2101 | Fluid Mechanics for Mechanical Engineers I | 4 |
| MEC 2102 | Mechanics of Materials II | 4 |