**UMT SEN EED Elective Courses**

**Electronics Engineering**

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| **List of Electives (Electronics Engineering)** | **Credit Hours** |
| 1 | Digital Electronics | 3+1 |
| 2 | Digital Signal Processing | 3+1 |
| 3 | Digital System Design | 3+1 |
| 4 | Electronic System Design | 3+0 |
| 5 | Power Electronics | 3+1 |
| 6 | Industrial Electronics | 3+0 |
| 7 | Opto-Electronics | 3+0 |
| 8 | VLSI Design | 3+0 |

**Communication Engineering**

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| **List of Electives (Communication Engineering)** | **Credit Hours** |
| 1 | Digital Signal Processing | 3+1 |
| 2 | Computer Networks | 3+1 |
| 3 | Digital Communication | 3+1 |
| 4 | Optical Communication | 3+0 |
| 5 | Telecom Management | 3+0 |
| 6 | Telecom Switching & Transmission | 3+0 |
| 7 | Wave Propagation and Antenna | 3+1 |
| 8 | Wireless Communication | 3+0 |

**Power (Systems) Engineering**

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| **List of Electives (Power (Systems) Engineering)** | **Credit Hours** |
| 1. | Power Distribution and Utilization | 3+1 |
| 2. | Power System Analysis | 3+1 |
| 3. | Power System Protection | 3+1 |
| 4. | High Voltage Engineering | 3+1 |
| 5. | Power System Operation and Control | 3+1 |
| 6. | Renewable Electrical Energy Resources | 3+0 |
| 7. | Electrical Machine Design | 3+0 |

**Social Sciences Electives**

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| **List of Electives (Social Sciences)** | **Credit Hours** |
| 1. | Introduction to Sociology | 3 |
| 2. | Introduction to Political Science | 3 |
| 3. | Introduction to Psychology | 3 |
| 4. | International Relations | 3 |
| 5. | Introduction to Journalism | 3 |
| 6. | Entrepreneurship | 3 |