**POKHARA UNIVERSITY**

**Bachelor of Electrical and Electronics Engineering**

**Curriculum Structure (Revised, 2011)**

Bachelor of Electrical and Electronics Engineering program is designed to produce high quality experts in the field of information technology. It is a four-year program spread over eight semesters. A student needs to successful complete 137 credit hours of course work, practical and project work for graduation.

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|  | **Semester I** |  |  |  | **Semester II** |  |
| **Course****Code** | **Course Description** | **Credit****Hours** |  | **Course****Code** | **Course Description** | **Credit****Hours** |
| MTH 112 | Engineering Mathematics I | 3 |  | MTH 114 | Engineering Mathematics II | 3 |
| PHY 111 | Physics | 4 |  | CHM 111 | Chemistry | 4 |
| MEC 111 | Thermal Science | 2 |  | CMP 115 | Object Oriented Programming in C++ | 3 |
| MEC 120 | Engineering Drawing | 2 |  | ENG 111 | Communication Techniques | 2 |
| CMP 113 | Programming in C | 3 |  | MEC 110 | Mechanical Workshop | 1 |
| ELE 110 | Basic Electrical Engineering | 3 |  | MEC 130 | Applied Mechanics I | 3 |

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|  | **Semester III** |  |  |  | **Semester IV** |  |
| **Course****Code** | **Course Description** | **Credit****Hours** |  | **Course****Code** | **Course Description** | **Credit****Hours** |
| MTH 212 | Engineering Mathematics III | 3 |  | MTH 214 | Engineering Mathematics IV | 3 |
| ELE 210 | Electrical Engineering Materials | 2 |  | MTH 230 | Numerical Methods | 3 |
| ELE 211 | Network Theory | 3 |  | ELX 231 | Instrumentation | 3 |
| ELX 212 | Logic Circuits | 3 |  | ELX 214 | Electronic Circuits | 3 |
| ELX 210 | Electronic Devices | 3 |  | ELX 230 | Microprocessors | 3 |
| ELX 220 | Electromagnetic Field and Waves | 3 |  | ELE 220 | Electrical Machines | 3 |

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|  | **Semester V** |  |  |  | **Semester VI** |  |
| **Course****Code** | **Course Description** | **Credit****Hours** |  | **Course****Code** | **Course Description** | **Credit****Hours** |
| MGT 321 | Organization and Management | 2 |  | ELX 310 | Power Electronics  | 3 |
| ELE 320 | Advanced Electrical Machines | 3 |  | ELE 333 | Power System Analysis  | 3 |
| CMM 310 | Signals and Systems | 3 |  | CMM 312 | Communication System Engineering | 3 |
| ELE 330 | Transmission and Distribution  | 3 |  | ELE 331 | Power Plant Equipment  | 3 |
| ELE 322 | Control Systems | 3 |  | ELE 332 | Switch Gear and Protection  | 3 |
| MTH 220 | Probability and Statistics | 3 |  | ELE 360 | Research Methodology | 2 |

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|  | **Semester VII** |  |  |  | **Semester VIII** |  |
| **Course****Code** | **Course Description** | **Credit****Hours** |  | **Course****Code** | **Course Description** | **Credit****Hours** |
| ECO 411 | Engineering Economics | 3 |  | ELE 431 | Utilization of Electrical Power  | 3 |
| ELE 430 | Transmission Line Design  | 3 |  | ELX 460 | Professional Ethics in Engineering  | 2 |
| ELE 420 | Machine Design | 3 |  | ELE 433 | Power Plant Design  | 3 |
| ELX 430 | Advanced Instrumentation  | 3 |  | ELE 432 | High Voltage Engineering  | 3 |
|  --- | Elective I | 3 |  |  --- | Elective II | 3 |
| ELE 390 | Project I | 2 |  | ELE 490 | Project II | 4 |