**POKHARA UNIVERSITY**

**Bachelor of Civil Engineering**

**CURRICULAR STRUCTURE (Revised, 2011)**

The Bachelor of Civil Engineering program is designed to produce high quality civil engineers. It is a four-year program spread over eight semesters. A student needs to successful complete 124 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 220 | Probability and Statistics | 3 |
| MEC 131 | Applied Mechanics II | 2 |  | CVL 221 | Surveying I | 3 |
| CVL 211 | Civil Engineering Materials | 2 |  | ELX 110 | Basic Electronics Engineering | 2 |
| WRE 210 | Fluid Mechanics | 3 |  | MTH 230 | Numerical Methods | 3 |
| STR 210 | Strength of Materials | 3 |  | WRE 211 | Hydraulics | 3 |
| GTE 210 | Engineering Geology | 3 |  | STR 212 | Structural Analysis I | 3 |
| CVL 290 | Project I | 1 |  |  |  |  |

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|  | **Semester V** |  |  |  | **Semester VI** |  |
| **Course**  **Code** | **Course Description** | **Credit**  **Hours** |  | **Course**  **Code** | **Course Description** | **Credit**  **Hours** |
| ARC 358 | Building Technology | 2 |  | WRE 320 | Irrigation Engineering | 3 |
| WRE 350 | Engineering Hydrology | 2 |  | STR 320 | Design of Steel and Timber Structures | 3 |
| STR 312 | Structural Analysis II | 3 |  | GTE 321 | Foundation Engineering | 3 |
| GTE 320 | Soil Mechanics | 4 |  | ENV 331 | Sanitary Engineering | 3 |
| ENV 330 | Water Supply Engineering | 3 |  | STR 331 | Concrete Technology & Masonry Structures | 3 |
| CVL 390 | Project II | 1 |  | CVL 322 | Survey Field Project | 1 |
| CVL 321 | Surveying II | 3 |  |  |  |  |

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|  | **Semester VII** |  |  |  | **Semester VIII** |  |
| **Course**  **Code** | **Course Description** | **Credit**  **Hours** |  | **Course**  **Code** | **Course Description** | **Credit**  **Hours** |
| STR 440 | Design of R.C.C. Structures | 3 |  | CVL 441 | Construction Project Management | 3 |
| TRP 411 | Transportation Engineering I | 3 |  | CVL 440 | Engineering Professional Practice | 2 |
| WRE 430 | Hydropower Engineering | 3 |  | TRP 412 | Transportation Engineering II | 3 |
| CVL 431 | Estimating and Valuation | 3 |  | --- | Elective II | 3 |
| --- | Elective I | 3 |  | CVL 490 | Project III | 5 |
| ECO 411 | Engineering Economics | 3 |  |  |  |  |