**POKHARA UNIVERSITY**

**Master of Science in Computer Engineering Program**

**Curricular Structure**

The program is designed to provide opportunity to the aspirants of the higher education in the field of computer engineering in the country and to produce high quality computer graduates who can assume teaching positions at various undergraduate and graduate levels, involve in research works and are capable of designing, developing and handling various systems and applications for related field. The duration of a program is two years consisting of 60 credit hour courses spread over 4 semesters.

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|  | **Semester I** |  |
| **Course Code** | **Course Title** | **Credit hours** |
| MTH 611.3 | Discrete Structure | 3 |
| COM 609.3 | Advanced Problem-Solving Technique  | 3 |
| COM 615.3 | Object Oriented Software Engineering | 3 |
| MTH 612.3 | Algorithmic Mathematics | 3 |
| COM 602.3 | Digital System Design | 3 |
|  |  |  |
|  | **Semester II** |  |
| **Course Code** | **Course Title** | **Credit hours** |
| COM 603.3 | Theory of Computation | 3 |
| COM 608.3 | Advanced Computer Architecture | 3 |
| COM 605.3 | Distributed Operating System | 3 |
| COM 714.3 | Computer Graphics  | 3 |
| COM 613.3 | Mobile and Wireless Communication | 3 |
|  |  |  |
| **Semester III** |  |
| **Course code** | **Courses Title** | **Credit hours** |
| COM 730.3 | Distributed Database  | 3 |
| COM 706.3 | Image Processing and Pattern Recognition  | 3 |
| COM 713.3 | Artificial Intelligence | 3 |
| COM732.3 | Network Security | 3 |
|  … | Elective I | 3 |
|  |  |  |
| **Semester IV** |  |
| **Course Code** | **Courses Title** | **Credit hours** |
| COM 733.3 | Multimedia Computing | 3 |
|  … | Elective II | 3 |
| COM 722.9 | Thesis  | 9 |