**POKHARA UNIVERSITY**

**Master of Science in Information System Engineering Program**

**Curricular Structure**

The program aims at producing professional engineers with the essential skills required to successfully deal with the technical, social, legal and moral aspects of the practices of Information System Engineering. 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 Description** | **Credit Hours** |
| CMP 511 | Information Systems | 3 |
| MTH 511 | Algorithmic Mathematics | 3 |
| CMP 512 | Knowledge Engineering  | 3 |
| CMP 513 | Communication System Engineering | 3 |
| CMP 514 | Web Engineering | 3 |
|   |   | 15 |
| **Semester II** |
| **Course Code** | **Course Description** | **Credit Hours** |
| CMP 551 | Information Retrieval  | 3 |
| CMP 552 | Data Warehousing and Data Mining | 3 |
| CMP 553 | Enterprise Architecture  | 3 |
| MTH 551 | Operations Research | 3 |
| CMP 554 | Research Methodology | 3 |
|   |   | 15 |
| **Semester III** |
| **Course Code** | **Course Description** | **Credit Hours** |
| CMP 611 | Information System Project Management | 3 |
| CMP 612 | Advanced Database | 3 |
| CMP 613 | Information Security | 3 |
| CMP 614 | Information System Research Proposal | 3 |
|   | Elective I | 3 |
|   |   | 15 |
| **Semester IV** |
| **Course Code** | **Course Description** | **Credit Hours** |
| CMP 691 | Thesis | 12 |
|   | Elective II | 3 |