**Program Road Map**

**MS Chemistry**

**Scheme of Studies**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Code** | **Course Title** | **CH** | **Pre-req** |  | **Code** | **Course Title** | **CH** | **Pre-req** |
| **SEMESTER 1** | | | | **SEMESTER 2** | | | |
| CH-507 | Core-I | 3 | - - - - | CH-509 | Core-III | 3 | - - - - |
| CH-508 | Core-II | 3 | - - - - | CH-510 | Core-IV | 3 | - - - - |
| CH-xxx | Elective-I | 3 | - - - - | CH-511 | Core-V | 3 | - - - - |
| CH-xxx | Elective-II | 3 | - - - - | CH-xxx | Elective-III | 3 | - - - - |
| **Semester Credit Hours** | | **12** |  | **Semester Credit Hours** | | **12** |  |
| **SEMESTER 3** | | | | **SEMESTER 4** | | | |
| CH-699 | \*Thesis enrollment/ Elective Course –IV | 6/3 | - - - - | CH-699 | \*Thesis/Elective Course-V | 6/3 | - - - - |
| **Semester Credit Hours** | | **6/3** |  | **Semester Credit Hours** | | **6/3** |  |
| **Total Credit Hours: 30** | | | | | | | | |

\* To qualify for a MS degree the student must complete atleast 30 credits of graduate work (distribution of credit hours is given below). There are two options to achieve this target.

1. 5 core courses (15 credits), 3 elective courses (9 credits) and MS thesis (6 credits).

2. 5 core courses (15 credits) and 5 elective courses (15 credits).

**List of Courses:**

**Program Core Courses**

CH-507: Advanced Analytical Chemistry

CH-508: Nano Chemistry

CH-509: Advanced Organic Chemistry

CH-510: Natural Product Chemistry

CH-511: Advanced Inorganic Chemistry