## Degree Plan of PhD in Chemistry

| Minimum No. of Credits for Graduation in this Degree Plan = 90 | | | |
|---|---|---|---|
| **Course Work = 24 Credit Hrs** | | | |
| **Program General Requirements = 18 Credits** | | | |
| **Course Code** | **Course Description** | **No. of Credits** | **Pre-requisites** |
| CHEM 701 | Literature Survey and Technical Writing | 2 | N/A |
| CHEM 702 | Recent Trends in Chemistry | 2 | N/A |
| CHEM 703 | Advanced Separation and Spectroscopic Techniques | 2 | N/A |
| CHEM 704 | Advanced Materials Chemistry | 3 | N/A |
| CHEM 705 | Applications of Computer and Multivariate Statistical Analysis in Chemistry | 1 | N/A |
| CHEM 706 | Advanced Medicinal Chemistry | 2 | N/A |
| CHEM 707 | Materials for Sustainable Energy Applications | 2 | N/A |
| CHEM 708 | Modern Organic Synthesis | 2 | N/A |
| CHEM 709 | Advanced Polymer Chemistry | 2 | N/A |
| ***The six (6) C.H. Specialization requirements will be selected from the below list of elective courses based on the field of specialization of the Ph.D. candidate.** | | | |
| CHEM 710 | Nutraceutical Chemistry | 2 | N/A |
| CHEM 711 | Advanced Organometallic Chemistry | 2 | N/A |
| CHEM 712 | Design of Experiment and Cheminformatics | 2 | N/A |
| CHEM 713 | Advanced Natural Products and their Biosynthesis | 2 | N/A |
| CHEM 714 | Instrumental Methods of Analysis | 2 | N/A |
| CHEM 715 | Advanced Electrochemistry | 2 | N/A |

## The Thesis

| Course Code | Title of the Course | Credits |
|---|---|---|
| CHEM 799 | PhD Thesis | 66 |