

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 Chemoinformatics	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

PhD Thesis (66 Credit hours)

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

4.21.2 Semester wise Breakdown of the Programme

4.21.3 First Semester (12 Credits)

Course Code	Title of the Course Credits	Credits
CHEM 701	Literature Survey and Technical Writing	2
CHEM 702	Recent Trends in Chemistry	2
CHEM 703	Advanced Separation and Spectroscopic Techniques	2
CHEM 704	Advanced Materials Chemistry	3
CHEM 705	Applications of Computer and Multivariate Statistical Analysis in Chemistry	1
CHEM 706	Advanced Medicinal Chemistry	2

4.21.4 Second Semester (12 Credits)

Course Code	Title of the Course Credits	Credits
CHEM 707	Materials for Sustainable Energy Applications	2
CHEM 708	Modern Organic Synthesis	2
CHEM 709	Advanced Polymer Chemistry	2
Any 3 courses from the electives and specialization requirements		6

4.21.5 Third to Sixth Semester (66 Credit hours)

Course Code	Title of the Course Credits	Credits
CHEM 799	Ph.D. Thesis	66