



# SYLLABUS

|   |   |                         |
|---|---|-------------------------|
| <b>Course Title</b>   | <b>Dissertation</b>   |                         |
| <b>Course Code</b>  | MAC401  |                         |
| <b>Course Credit</b>  | Lecture   | : 00                    |
|   | Tutorial  | : 00                    |
|   | Practical   | : 00                    |
|   | Project   | : 25                    |
|   | Total   | : 25                    |
| <b>Course Objective</b>   |   |                         |
| On the completion of the course, students will be able to:  |   |                         |
| <ul style="list-style-type: none"><li>▪ Get fundamental idea of Research work.</li><li>▪ Handle separate task.</li><li>▪ Understand the importance of literature review.</li><li>▪ Study different aspect of Chemistry.</li><li>▪ Develop their presentation skill.</li></ul>   |   |                         |
| <b>Detailed Syllabus:</b>   |   |                         |
| <b>Sr. No.</b>  | <b>Name of chapter &amp; Details</b>  | <b>Session Allotted</b> |
|   | Different area of Chemistry like, Analytical Chemistry, Method Development and Validation with the help of Sophisticated instruments, Chromatographic studies of Natural products and synthetic products etc..... |                         |
| <b>Instructional Method and Pedagogy:</b>   |   |                         |
| <ul style="list-style-type: none"><li>▪ Dissertation (Practical work) will be conducted in semester IV with the help of Different Chemical reaction, isolation method which are available in Chemistry PG laboratory. Identification and Characterization of compound will be done by outsourcing.</li><li>▪ Review of Literature content will be given to the students at the starting of semester III and will be evaluated at regular interval.</li><li>▪ Surprise Presentation will be conducted.</li></ul> |   |                         |
| <b>Students Learning Outcomes:</b>  |   |                         |
| At the end of the course the students will be able to:  |   |                         |
| <ul style="list-style-type: none"><li>▪ Learn basic fundamentals of research.</li></ul>   |   |                         |
| <b>Reference Books:</b>   |   |                         |
| <ul style="list-style-type: none"><li>▪ Based on Dissertation Topics</li></ul>  |   |                         |



# SYLLABUS

|  |   |                         |
|--|---|-------------------------|
| <b>Course Title</b>  | <b>Internship</b>   |                         |
| <b>Course Code</b>   | MAC402  |                         |
| <b>Course Credit</b>   | Lecture   | : 00                    |
|  | Tutorial  | : 00                    |
|  | Practical   | : 00                    |
|  | Project   | : 25                    |
|  | Total   | : 25                    |
| <b>Course Objective</b>  |   |                         |
| On the completion of the course, students will be able to:   |   |                         |
| <ul style="list-style-type: none"><li>▪ Get fundamental idea of Research work.</li><li>▪ Handle separate task.</li><li>▪ Understand the importance of literature review.</li><li>▪ Study different aspect of Chemistry.</li><li>▪ Develop their presentation skill.</li></ul>  |   |                         |
| <b>Detailed Syllabus:</b>  |   |                         |
| <b>Sr. No.</b>   | <b>Name of chapter &amp; Details</b>  | <b>Session Allotted</b> |
|  | Different area of Chemistry like, Analytical Chemistry, Method Development and Validation with the help of Sophisticated instruments, Chromatographic studies of Natural products and synthetic products etc..... |                         |
| <b>Instructional Method and Pedagogy:</b>  |   |                         |
| <ul style="list-style-type: none"><li>▪ Project training will be conducted in semester IV with the help of Different industries. Training will be taken by student in departments like Quality control, Quality Assurance, Production, Research and development, Bio analytical, Analytical development laboratory or etc.</li><li>▪ Based on training student will prepare industrial training report which signed by industrial supervisor.</li><li>▪ At the end of semester, student will submit and present their report whatever training they taken in the organization.</li></ul> |   |                         |
| <b>Students Learning Outcomes:</b>   |   |                         |
| At the end of the course the students will be able to:   |   |                         |
| <ul style="list-style-type: none"><li>▪ Learn basic fundamentals of research.</li><li>▪ Train in particular department like QC, QA, ADL, R&amp;D, Production</li></ul>   |   |                         |
| <b>Reference Books:</b>  |   |                         |
| <ul style="list-style-type: none"><li>▪ Based on Dissertation Topics</li></ul>   |   |                         |