

Gujarat Technological University

M.Pharm

Pharmaceutical Management and Regulatory Affairs (Branch 15)

Proposed Teaching Scheme (W.E.F. January 2013)

Semester – II

Subject Name: Research Methodology (Common to all Branches)

Subject Code: 2920001

Sr_No	Content	Hr.
1.	Research: Meaning, purpose, Types,(Educational, Clinical, Experimental, historicaldescriptive, Basic applied and Patent oriented Research) objective of research.	4
2.	Literature survey: Use of Library, books and journals-Medlines-Internet, Patent Search, andreprints of articles as a source for Literature survey.	3
3.	Selecting a problem and preparing Research proposals.	3
4.	Methods and tools use in research : a. Qualities studies, quantitative studies b. Simple data organization descriptive data analysis, c. Limitation & sources of Error d. Inquiries in form of Questionnaire, etc.	12
5.	Documentation: a. "How" of documentation b. Techniques of documentation c. Importance of documentation d. Use of computer packages in documentation.	11

6.	<p>The Research Report Paper writing/ thesis writing.</p> <p>Different parts of the Research paper</p> <ol style="list-style-type: none"> 1. Title -Title of project with authors name 2. Abstract- Statement of the problem, Background list in brief and purpose and scope. 3. Key Words. 4. Methology-subject, apparatus, instrumentation & procedure. 5. Results- tables, graphs, figures & statistical presentation. 6. Discussion support or non support of hypothesis, practical & theoretical Implications 7. Conclusion 8. Acknowledgements. 9. References 10. Errata 11. Importance of Spell check for entire project 12. Uses of footnotes 	12
7.	<p>Presentation (especially for oral presentation):</p> <p>Importance, types different skills, contained, format of model, introduction, Poster, Gestures, eye contact, facial, expressions, stage, fright, volume- pitch, speed, pause & language, Visual aids &seating, Questionnaire.</p>	6
8.	<p>Cost analysis of the project: cost incurred on raw materials, Procedure, instrumentations and clinical trials.</p>	3
9.	<p>Sources for procurement research grants: international agencies, Government and private bodies.</p>	3
10.	<p>Industrial-institution interaction- Industrial projects, their, feasibility reports. Interaction with industries.</p>	3

References Books:

1. Research In Education- John V. Best, John V. Kahn 7th edition
2. Presentation skills - Michael Hallon- Indian Society for Institute education
2. Practical Introduction o copyright.- Gavin Mcfarlane
3. Thesis projects in Science & Engineering - Richard M. Davis.
4. Scientist in legal Systems- Ann labor science
5. Thesis & Assignment - Jonathan Anderson
6. Writing a technical paper- Donald Menzel
7. Effective Business Report Writing -Leland Brown

8. Protection of industrial Property rights- P. Das &Gokul Das
9. Spelling for the millions- Edna Furness
10. Preparation for publication - King Edward Hospital Fund for London
11. Information Technology - The Hindu speaks
12. Documentation - Genesis & Development 3792.
13. Manual for evaluation of industrial projects-United Nations
14. Manual for the preparation of industrial feasibility studies