

INSTITUTE	FACULTY OF PHARMACY
PROGRAM	MASTER OF PHARMACY (PHARMACEUTICS)
SEMESTER	3
COURSE TITLE	RESEARCH PROJECT WORK
COURSE CODE	13MC0304
COURSE CREDITS	14

Course Outcomes: After completion of this course, student will be able to:

- 1 Develop advanced research skills by conducting independent investigations, analyzing data, and presenting findings effectively.
- 2 Enhance critical thinking and problem-solving abilities through the identification of research gaps, formulation of research questions, and design of appropriate methodologies.
- 3 Foster collaboration and teamwork skills by engaging in interdisciplinary research projects, exchanging knowledge and ideas with peers, and contributing to a collective body of knowledge.

Pre-requisite of course: Nil

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
0	0	28	0	0	0	350	0

Contents : Unit	Topics	Contact Hours
Total Hours		

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
Total Hours		

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery
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Remember / Knowledge	Understand	Apply	Analyze	Evaluate	Higher order Thinking / Creative
10.00	20.00	25.00	25.00	10.00	10.00

Instructional Method:

- 1 Topic selection: a. Choose a research topic that aligns with your interests and academic goals. b. Consider the feasibility of the topic in terms of available resources, time constraints, and access to data or subjects.
- 2 Literature review: a. Conduct a thorough literature review to understand the existing knowledge and research gaps related to your chosen topic. b. Identify key theories, concepts, and previous studies that will guide your research.
- 3 Research proposal: a. Develop a clear and concise research proposal that outlines your research objectives, research questions, and methodology. b. Include a timeline for each stage of the research project, highlighting milestones and deadlines.
- 4 Ethical considerations: a. Ensure that your research project adheres to ethical guidelines and safeguards the rights and well-being of participants, if applicable. b. Obtain necessary ethical approvals or permissions before starting data collection, if required.
- 5 Data collection: a. Determine the appropriate methods for data collection based on your research objectives and research questions. b. Collect data using reliable and valid instruments or techniques. c. Maintain organized records of the data collected for future analysis.
- 6 Data analysis: a. Apply suitable statistical or qualitative analysis methods to interpret the collected data. b. Use appropriate software or tools for data analysis, ensuring accuracy and reliability. c. Draw meaningful conclusions from the data analysis and relate them to your research objectives.
- 7 Results and discussion: a. Present your research findings clearly and concisely, using tables, graphs, or visual aids to enhance understanding. b. Interpret and discuss the results in light of the existing literature and theories. c. Identify any limitations or challenges encountered during the research process.
- 8 Conclusion and recommendations: a. Summarize the main findings of your research project. b. Provide recommendations for future research or practical applications based on your conclusions. c. Emphasize the significance and contributions of your research to the field of study.
- 9 Report writing: a. Prepare a well-structured research report, including an abstract, introduction, methodology, results, discussion, and conclusion sections. b. Use appropriate citation styles to acknowledge the sources of information and literature referenced. c. Proofread the report for clarity, grammar, and spelling errors.
- 10 Presentation: a. Develop a presentation format suitable for sharing your research project with others. b. Prepare visual aids or slides to effectively communicate your research findings. c. Practice your presentation to ensure a confident and engaging delivery. Remember to consult with your research advisor or instructor throughout the process for guidance and support. Stay organized, manage your time effectively, and maintain a systematic approach to ensure the successful completion of your research project.