

Class		M.Sc. (Microbiology)
Semester/Year		III Semester
Subject & Subject Code		Dissertation Microbiology - MMBIO20S401
Paper	English	Dissertation Work
Max. Marks		300 (Thesis) + 200 (Presentation) = 500
Credit		Total Credits
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P		
0	0	16

Course Objectives:

Develop the skills of preparing and conducting independent research.
M. Sc. Dissertation is designed in a way to teach and train the students with practical knowledge in the different areas of Microbiology in order to become efficient researchers to start their carrier in research through Ph.D. and R & D programmes.

Course Outcome:

At the end of the Dissertation the students will be trained in:

1. Student is able to conceive a problem based on current published research
2. Student is able to carry out comprehensive survey of literature on the topic of research
3. Student is able to make culture media for various microbes
4. Student is able to isolate microorganism from different environmental/ food sources
5. Student is able to identify the isolated microorganism using biochemical and molecular methods
6. Student is able to assess the microorganism's ability to produce various enzymes.

Student Learning Outcomes (SLO):

Ability to apply the tools and techniques of microbiology in conducting independent research.

1. Student becomes well-versed in different enzymatic assay systems
2. Student learns correct handling and use of instruments
3. Student learns correct handling of reagents and chemicals
4. Student learns how to execute experiments correctly.
5. Student learns the importance of including controls in all experiments
6. Student learns how to plot the results.
7. Student learns how to analyze data, using statistical tools where necessary
8. Student learns how to interpret the results from all possible angles.
9. Student is exposed to the science of thesis writing.

DISSERTATION WORK (Project Work + Technical Writing)

1. Dissertation thesis will be examine by internal and external at the time of presentation.
2. There will be weekly seminars and continuous internal assessment throughout the course.

Sharma

Nidhi
Solanki