



DETAIL TEACHING SCHEME

SCHOOL OF SCIENCE	PROGRAM : M.Sc. Microbiology
ACADEMIC YEAR - 2017-18	SEMESTER – IV
DEFINITION OF ONE CREDIT :	
1. Lecture(L) : 1 hour / week / semester, 2. Practical(P) : 1 hour / week / semester .	

TEACHING SCHEME									
Course Code	Course Name	Teaching Hours			Credits	Audit course	CIE	PSEE	Remarks if any
		Theory	Tutorial	Practical					
MB413	PROJECT (DISSERTATION)	-	-	-	25	N	Y	Y	
Total					25				
Total Hours				25					

N- No	CIE – Continuous internal evaluation
Y – Yes	PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..

Date:

Director,
School of Science



SCHOOL OF SCIENCE

SYLLABUS

FOR

PROGRAMM: M.Sc. MICROBIOLOGY

ACADEMIC YEAR: 2018-19

SEMESTER: IV

DIRECTOR
SCHOOL OF SCIENCE
RKUNIVERSITY
RAJKOT

Course Title	Dissertation
Course Code	MB 413
Course Credit	25

Course Objective

On the completion of the course, students will be able to:

- Get fundamental idea of Research work.
- Handle separate task.
- Understand the importance of literature review.
- Study different aspect of Chemistry.
- Develop their presentation skill.

Detailed Syllabus

Sr.No.	Name of chapter & details	Hours Allotted
	Project work on either of the areas of Microbiology like, food microbiology, agriculture microbiology, soil microbiology, environmental microbiology, medical microbiology, dairy microbiology, or allied science like plant pathology, phytopharmacology, plant biochemistry, phytochemistry, nano-medicine and nanotechnology, Molecular biology, Genetic engineering, cancer biology with the assistance of sophisticated instrumentation skills and statistical analysis tools like Microsoft Excell, SPSS, GraphPad etc.	

Instructional Method and Pedagogy

- Practical work focused around a scientific problem with some objectives will be conducted in final semester of M.Sc. that will be designed and guided by a major supervisor and may or may not include one co-supervisors.
- Taking help of advanced instrumentation facilities in and around Gujarat by Outsourcing.
- Review of Literature content will be given to the students at the starting of semester III and will be evaluated at regular interval.
- Surprise Presentation will be conducted.

Students Learning Outcomes

At the end of the course the students will be able to:

- Learn basic fundamentals of research
- Design a research project with sort objectives and execute them.
- Collect data obtained from experiments and apply suitable statistical analysis tool for data analysis.
- Evaluate the outcomes of research and apply the findings for common welfare.

Reference books

Based on Dissertation Topics, Research articles from reputed journals, review articles etc.