M.Sc. Microbiology (Off campus)
Equivalence (theory & practicals)
(2019-2020)

M.Sc. I Microbiology 2019 pattern

Course Code	Course Title	Credits
	Semester I	
MB501	Microbial Systematics	4
MB502	Quantitative Biology	4
MB503	Biochemistry and Metabolism	4
MBCP1	Biochemical Techniques(Practical based on compulsory theory credits)	4
MBTE11	Fungal Systematics and Extremophiles	2
MBPE11	Practicals Based on Fungal Systematics and Extremophiles	2
	OR	
MBTE12	Experimental Design and Quantitative approaches for Biologist	2
MBPE12	Practicalsbased on Experimental Design and Quantitative approaches for Biologist	2
	OR	
MBTE13	Microbial communication, Membrane transport and signal transduction	2
MBPE13	Practicals Based on Microbial communication, Membrane transport and signal transduction	2
	Semester II	
MB 601	Instrumentation and Molecular Biophysics	4
MB 602	Molecular Biology	4
MB 603	Enzymology, Bioenergetics and Metabolism	4
MBCP2	Molecular biology, enzymology and instrumentation Techniques(Practical based on compulsory theory credits)	4
MBTE21	Bioinformatics and Bio-nanotechnology	2
MBPE21	Practicals based on Bioinformatics and Bionanotechnology	2
	OR	
MBTE22	Molecular Biology tools and applications	2
MBPE22	Practical based on Molecular Biology tools and applications	2
	OR	
MBTE23	Nitrogen Metabolism, respiration and Photosynthesis	2
MBPE23	Practicals based on Nitrogen Metabolism, respiration and Photosynthesis	2

Recommended
AB
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Recommended
(Dr G R Pathade)
Chairman BOS (Microbiology)
09/09/2019

Equivalence of Previous Microbiology Syllabus

Semester II

Old Course (2013 Pattern)	New Course (2019 Pattern
MB 601: Instrumentation & Molecular Biophysics	MB601 Instrumentation and Molecular Biophysics
MB 602: Virology	This paper will be in M.Sc. II Microbiology
MB 603: Microbial Metabolism	MB603 Enzymology, Bioenergetics and Metabolism
MB 611: Practical Course 1: Biophysics & Virology	MBCP2 Molecular biology, enzymology and instrumentation Techniques(Practical based on compulsory theory credits)
MB 612: Practical Course 2: Enzymology & Microbial Metabolism	MBTE21 Bioinformatics and Bio-nanotechnology
	MBPE21 Practicals based on Bioinformatics and Bionanotechnology
	OR
	MBTE22 Molecular Biology tools and applications
	MBPE22 Practical based on Molecular Biology tools and applications
	OR
	MBTE23 Nitrogen Metabolism, respiration and Photosynthesis
	MBPE23 Practicals based on Nitrogen Metabolism, respiration and Photosynthesis

Dr. Girish Pathade
(Chairman, Microbiology BOS)