

1st BOS 12.6.2015

M.Sc Syllabus (2015-17)

(1 & 2 Approved)



Dharatiya Vidyā
Bhavan

**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND
COMMERCE, SAINIKPURI, SECUNDERABAD.**

Autonomous College

Affiliated to OSMANIA UNIVERSITY, Hyderabad.

(Accredited with 'A' grade by NAAC)

Department of Microbiology

M.Sc Microbiology Syllabus

(Applicable to the batch of students admitted into M.Sc. I Sem from 2015-16)

M.Sc. (Previous) Microbiology I Semester (15 Weeks)

Paper No.	Sub.Code	Subject/Paper Title	Instruction Hrs/Wk	Exam Internal	Max Marks Semester	Credits
THEORY						
I	PMB 101	General Microbiology	4	30	70	4
II	PMB 102	Virology	4	30	70	4
III	PMB 103	Research Methodology & Techniques	4	30	70	4
IV	PMB 104	Biochemistry	4	30	70	4
PRACTICALS						
I	PMB 151	General Microbiology & Virology	8		100	4
II	PMB 152	Research Methodology & Techniques & Biochemistry	8		100	4
	PMB 199	Seminar	2			
Total			34	120	480	24

M.Sc. (Previous) Microbiology II Semester (15 Weeks)

Paper No.	Sub.Code	Subject/Paper Title	Instruction Hrs/Wk	Exam Internal	Max Marks Semester	Credits
THEORY						
I	PMB 201	Microbial Physiology & Metabolism	4	30	70	4
II	PMB 202	Food Microbiology and Toxicology	4	30	70	4
III	PMB 203	Immunology	4	30	70	4
IV	PMB 204	Pharmaceutical Microbiology	4	30	70	4
PRACTICALS						
I	PMB 251	Microbial Physiology & Metabolism & Food Microbiology and Toxicology	8		100	4
II	PMB 252	Immunology & Pharmaceutical Microbiology	8		100	4
	PMB 299	Seminar	2			
Total			34	120	480	24

Note: The students of M.Sc. Microbiology have to undergo the educational tour to the microbiological based industries/institutes for practical awareness in application of Microbiology at the end of II Semester.

ACHARYA NAGARJUN .P
Chairman, Board of Studies
Dept. of Microbiology
Osmania University, Hyderabad.

J. PRIDEENT Sridevi
Head of Department
Department of Microbiology
Government College of Arts and Commerce
Secunderabad



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II	PMB 102	Virology	4	30	70	4
III	PMB 103	Research Methodology & Techniques	4	30	70	4
IV	PMB 104	Biochemistry	4	30	70	4
PRACTICALS						
I	PMB 151	General Microbiology & Virology	8		100	4
II	PMB 152	Research Methodology & Techniques & Biochemistry	8		100	4
	PMB 199	Seminar	2			
Total			34	120	480	24

M.Sc. (Previous) Microbiology II Semester (15 Weeks)

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ACHARYA NAGARJUN .P
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Head, Department of Microbiology
Government Engineering College (Women)

2nd BOS -

28.03.2016

III & IV Approved

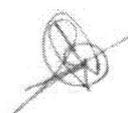
M.Sc. (Final) Microbiology III Semester (15 Weeks)

Paper No.	Sub.Code	Subject/Paper Title	Instruction Hrs/Wk	Exam Internal	Max Marks Semester	Credits
THEORY						
I	PMB 301	Molecular Biology and Microbial Genetics	4	30	70	4
II	PMB 302	Industrial Microbiology	4	30	70	4
III	PMB 303	Environmental & Agriculture Microbiology	4	30	70	4
IV	PMB 304	Medical Bacteriology	4	30	70	4
PRACTICALS						
I	PMB 351	Molecular Biology and Microbial Genetics & Industrial Microbiology	8		100	4
II	PMB 352	Environmental & Agriculture Microbiology & Medical Bacteriology	8		100	4
	PMB 399	Seminar	2			
Total			34	120	480	24

M.Sc. (Final) Microbiology IV Semester (15 Weeks)

Paper No.	Sub.Code	Subject/Paper Title	Instruction Hrs/Wk	Exam Internal	Max Marks Semester	Credits
THEORY						
I	PMB 401	Cell and Molecular Biotechnology	4	30	70	4
II	PMB 402	Microbial Biotechnology	4	30	70	4
III	PMB 403	Medical Virology and Parasitology	4	30	70	4
IV	PMB 404/E1	Microbial Ecology & Plant microbe interactions	4	30	70	4
	PMB 404/E2	Microbial Proteomics				
PRACTICALS						
I	PMB 451	Cell and Molecular Biotechnology & Microbial Biotechnology	8		100	4
III	PMB 452	Medical Virology and Parasitology & Applied Microbiology	8		100	4
	PMB 499	Seminar	2			
Total ...			34	120	480	24

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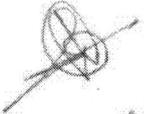
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III	PMB 303	Environmental & Agriculture Microbiology	4	30	70	4
IV	P MB 304	Medical Bacteriology	4	30	70	4
PRACTICALS						
I	PMB 351	Molecular Biology and Microbial Genetics & Industrial Microbiology	8		100	4
II	PMB 352	Environmental & Agriculture Microbiology & Medical Bacteriology	8		100	4
	PMB 399	Seminar	2			
Total			34	120	480	24

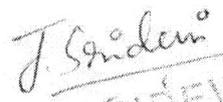
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III	P MB 403	Medical Virology and Parasitology	4	30	70	4
IV	PMB 404/E1	Microbial Ecology & Plant microbe interactions	4	30	70	4
	PMB 404/E2	Microbial Proteomics				
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