



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

Autonomous College

Affiliated to OSMANIA UNIVERSITY, Hyderabad.

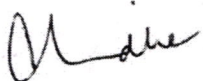
(Accredited with 'A' grade by NAAC)

Department of Microbiology


M.Sc Microbiology CBCS Syllabus-Effective from 2016 onwards

SEMESTER - I

Syllabus Ref No	Subject	Credits	Teaching Hours	Marks		
				Internal Assessment	Semester Exam	Total
THEORY						
PMB 101	General Microbiology & Microbial physiology (Core)	4	4	30	70	100
PMB 102	Virology (Core)	4	4	30	70	100
PMB 103	Research methodology & Techniques (Core)	4	4	30	70	100
PMB 104	Microbial Biochemistry (Core)	4	4	30	70	100
PMB 105	AEC Communicative English	1	2		25	25
PRACTICALS						
PMB 151	General Microbiology & Virology	3	6		75	75
PMB 152	Research methodology & Techniques	2	4		50	50
MB 153	Microbial Biochemistry	2	4		50	50
	Total	24	32	120	480	600



CHAIRPERSON
BOS in Microbiology
Bhavan's Vivekananda College
Sainikpuri


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Dr. B. BHIMA, M.Sc., Ph.D,
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SEMESTER – II

Syllabus Ref No	Subject	Credits	Teaching Hours	Marks		
				Internal Assessment	Semester Exam	Total
THEORY						
PMB 201	Molecular Biology and Microbial Genetics (Core)	4	4	30	70	100
PMB 202	Environmental & Agriculture Microbiology (Core)	4	4	30	70	100
PMB 203	Immunology (Core)	4	4	30	70	100
PMB 204	Pharmaceutical Microbiology (Core)	4	4	30	70	100
PMB 205	(SEC) Computer skill	1	2		25	25
PRACTICALS						
PMB 251	Molecular Biology and Microbial Genetics	2	4		50	50
PMB 252	Environmental & Agriculture Microbiology	2	4		50	50
PMB 253	Immunology and Pharmaceutical Microbiology	3	6		75	75
	Total	24	32	120	480	600


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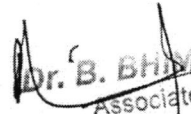
Semester III

Syllabus Ref No	Subject	Credits	Teaching Hours	Marks		
				Internal Assessment	Semester Exam	Total
THEORY						
PMB 301	Food Microbial technology (Core)	4	4	30	70	100
PMB 302	Medical bacteriology (Core)	4	4	30	70	100
PMB 303	DSE A. Microbial biotechnology Or B. Microbial proteomics	4	4	30	70	100
PMB 304	DSE A. Microbial Ecology and Plant Microbe Interactions Or B. Advances in Biotechnology	4	4	30	70	100
PMB 305	AEC Personality development	1	2		25	25
	SEC A. Biofertilizers and Biopesticides Or B. Microbiological Quality Control and Quality Assurance in Food & Pharma Industry	1	2		25	25

PRACTICALS

PMB 351	Food Microbial technology	2	4		50	50
PMB 352	Medical bacteriology	2	4		50	50
MB 353	Applied Microbiology	2	4		50	50
	Total	24	32	120	480	600


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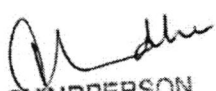
Semester IV


Syllabus Ref No	Subject	Credits	Teaching Hours	Marks		
				Internal Assessment	Semester Exam	Total
THEORY						
PMB 401	Cell and Molecular Biotechnology (Core)	4	4	30	70	100
PMB 402	Medical virology and Parasitology (Core)	4	4	30	70	100
PMB 403	<u>GE</u> A. Microbiology & Human health	2	2	15	35	50
	<u>DSE</u> B. Bioinformatics	2	2	15	35	50
PMB 404	<u>DSE</u> A. Nanobiotechnology	4	4	30	70	100
PMB 406	SEC Seminar	1	2		25	25

PRACTICALS

PMB 451	Cell Molecular Biotechnology & Bioinformatics	2	4		50	50
PMB 452	Medical virology and Parasitology & Nanobiotechnology	2	4		50	50
PMB 405	Project	3	6		75	75
	Total	24	32	120	480	600
	Grand Total	96	128	480	1920	2400

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