



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

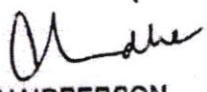
Autonomous College
Affiliated to OSMANIA UNIVERSITY, Hyderabad.
(Accredited with 'A' grade by NAAC)

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
PMB 153	Microbial Biochemistry	2	4		50	50
	Total	24	32	120	480	600


CHAIRPERSON
BOS in Microbiology
Bhavan's Vivekananda College
Sainikpuri


1


Dr. B. BHIMA, M.Sc., Ph.D.
Associate Professor
Department of Microbiology, U.C.S.
OSMANIA UNIVERSITY, HYDRABAD

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


CHAIRPERSON
 BOS in Microbiology
 Bhavan's Vivekananda College
 Sainikpuri


Dr. B. BHIMA, M.Sc., Ph.D.
 Associate Professor
 Department of Microbiology, U.C.S.
 OSMANIA UNIVERSITY, HYDRABAD

**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

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

CHAIRPERSON
BOS in Microbiology
Bhavan's Vivekananda College
Sainikpuri

Dr. B. BHIMA, M.Sc., Ph.D.
Associate Professor
Department of Microbiology, U.C.C.
OSMANIA UNIVERSITY, HYD.



**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

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	GE A. Microbiology & Human health	2	2	15	35	50
	DSE B. Bioinformatics	2	2	15	35	50
PMB 404	DSE 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

2


CHAIRPERSON
BOS in Microbiology
Bhavan's Vivekananda College
Sainikpuri


Dr. B. BHIMA, M.Sc., Ph.D.
Associate Professor
Department of Microbiology, U.C.
OSMANIA UNIVERSITY, HYD.