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Bhavan's Vivekananda College
of Science, Humanities & Commerce
Sainikpuri, Secunderabad – 500094
An Autonomous College - Affiliated to Osmania University
Accredited with 'A' grade by NAAC
M. Sc. BIOCHEMISTRY
Choice Based Credit System (CBCS Syllabus)
(Effective from Academic Year 2016-17 onwards)

SEMESTER I								
PAPERS	Code	TITLE	Course Type	Teaching hrs/week	Credits	Internal marks	Final exam marks	Total
Theory								
1	BI101T	Chemistry and Metabolism of Proteins, Lipids and Porphyrins	DSC	4	4	30	70	100
2	BI102T	Chemistry and Metabolism of Carbohydrates, Vitamins and Nucleic Acids	DSC	4	4	30	70	100
	BI 103T	Bio-Analytical Techniques	DSC	4	4	30	70	100
4	BI104T	Bioenergetics and Photosynthesis	DSC	4	4	30	70	100
5.	BI105	Communicative English	AEC	2	1		25	25
Practicals								
6	BI151P	Amino acid and protein analysis		8	4	--	100	100
7	BI152P	Carbohydrate and lipid analysis		6	3	--	75	75
Total				32	24	120	480	600
SEMESTER II								
PAPERS		TITLE		Teaching hrs/week	Credits	Internal marks	Final exam marks	Total
Theory								
1	BI201T	Enzymology	DSC	4	4	30	70	100
2	BI202T	Molecular Biology	DSC	4	4	30	70	100
3	BI203T	Biochemical Genetics and Model Organisms	DSC	4	4	30	70	100
4	BI 204T	Biostatistics and Clinical Biochemistry	DSC	4	4	30	70	100
5	BI 205	Computer Skills	SEC	2	1		25	25
Practicals								
6	BI251P	Enzymology and Biochemical Preparations		8	4	--	100	100
7	BI252P	Molecular Biology, Genetics and Clinical Biochemistry		6	3	--	75	75
Total				32	24	120	480	600

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Chairman
CHAIRMAN
Board of Studies in Biochemistry
Osmania University,
HYDERABAD-500 007.

SEMESTER III								
PAPERS	Code	TITLE	Course Type	Teaching hrs/week	Credits	Internal marks	Final exam marks	Total
Theory								
1	BI301T	Gene Regulation and Genetic Engineering	DSC	4	4	30	70	100
2	BI302T	Immunology and Immunotechnology	DSC	4	4	30	70	100
3	BI 303T BI 303A/ BI 303B	Cell Signaling, differentiation and Protein targeting/ Cell Signaling, differentiation and Methods of cell study	DSE	4	4	30	70	100
4	BI304T	Endocrinology and metabolic disorders	DSE	4	4	30	70	100
5.	BI305	Personality development	AEC	2	1		25	2
6	BI306	Clinical laboratory diagnostics	SEC	2	1		25	25
Practicals								
7	BI351P	Recombinant DNA and Immunotechnology		6	3	--	75	75
8	BI352P	Cell biology and Endocrinology		6	3	--	75	75
Total				32	24	120	480	600
SEMESTER IV								
PAPERS		TITLE		Teaching hrs/week	Credits	Internal marks	Final exam marks	Total
Theory								
1	BI401T	Physiology and Xenobiotics	DSC	4	4	30	70	100
2	BI402T	Bioinformatics	DSC	4	4	30	70	100
3	BI403T	Biotechnology	DSE	4	4	30	70	100
4	BI 404T	Microbiology	DSE	2	2	15	35	50
5	BI 405T	Nutrition and Diet planning	GE	2	2	15	35	50
6	BI 406	Seminar	SEC	2	1	--	25	25
Practicals								
7	BI451P	Bioinformatics and Biotechnology		8	4	--	100	100
8	BI452P	Project		6	3	--	75	75
Total				32	24	120	480	600
Grand Total				128	96	480	1920	2400