



Gulbarga University

Course Outline and Syllabus for Master of Science (MSc) in Biochemistry under CBCS and CAGP

Semester	Code	Title of the Course	Semester Exam	IA	Total	L	T	P	Credits
		Hard Core							
First	HCT1.1	Analytical Biochemistry and Biostatistics	80	20	100	4	0	0	4
	HCT1.2	Biomolecules	80	20	100	4	0	0	4
	HCT1.3	Enzymology	80	20	100	4	0	0	4
		Soft-Core (Any One)							
	SCT1.1	Microbiology	80	20	100	4	0	0	4
	SCT1.2	Biophysical and Bioorganic chemistry	80	20	100	4	0	0	4
		Practical							
	HCP1.1		40	10	50	0	0		2
	HCP1.2		40	10	50	0	0		2
	HCP1.3		40	10	50	0	0		2
		Soft Core (Any One)							
	SCP1.1		40	10	50	0	0		2
	SCP1.2		40	10	50	0	0		2
		Total for First Semester	480	120	600				24
Second		Hard Core							
	HCT2.1	Cellbiology	80	20	100	4	0	0	4
	HCT2.2	Metabolism- I	80	20	100	4	0	0	4
		Soft Core (Any One)							
	SCT2.1	Metabolism-II	80	20	100	4	0	0	4
	SCT2.2	General Physiology	80	20	100	4	0	0	4
		Open Elective (Any One)							
	OET2.1	General Biochemistry	80	20	100	4	0	0	4
	OET2.2		80	20	100	4	0	0	4
		Practicals							
	HCP2.1		40	10	50	0	0	4	2
	HCP2.2		40	10	50	0	0	4	2
		Soft Core (Any One)							
	SCP2.1		40	10	50	0	0	4	2
	SCP2.2		40	10	50	0	0	4	2
		Open Elective (Any One)							
	OEP2.1		40	10	50	0	0	4	2
	OEP2.2		40	10	50	0	0	4	2
		Total for Second Semester	480	120	600				24

L= Lecture T= Tutorials P = Practicals

4 Credits of Theory = 4 hours of teaching per week

2 Credits of Practicals = 4 hours per week



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Third Semester	Code	Title of the Course	Semester Exam	IA	Total	L	T	P	Credits
	HCT3.1	Clinical Biochemistry and Nutrition	80	20	100	4	0	0	4
	HCT3.2	Immunology	80	20	100	4	0	0	4
		Soft Core (Any One)							
	SCT3.1	Microbial Biotechnology	80	20	100	4	0	0	4
	SCT3.2	Plant Biochemistry	80	20	100	4	0	0	4
		Open Elective (Any One)							
	OET3.1	Fundamentals of Enzymes	80	20	100	4	0	0	4
	OET3.2		80	20	100	4	0	0	4
		Practicals							
	HCP3.1		40	10	50	0	0	4	2
	HCP3.2		40	10	50	0	0	4	2
		Soft Core (Any One)							
	SCP3.1		40	10	50	0	0	4	2
	SCP3.2		40	10	50	0	0	4	2
		Open Elective (Any One)							
	OEP3.1		40	10	50	0	0	4	2
	OEP3.1		40	10	50	0	0	4	2
		Total for Third Semester	480	120	600				24
Fourth		Hard Core							
	HCT4.1	Molecular Biology - I	80	20	100	4	0	0	4
	HCT4.2	Molecular Biology - II	80	20	100	4	0	0	4
		Soft-Core (Any One)							
	SCT4.1	Biotechnology and Bioinformatics	80	20	100	4	0	0	4
	SCT4.2	Genetics	80	20	100	4	0	0	4
		Practical							
	HCP4.1		40	10	50	0	0	4	2
	HCP4.2		40	10	50	0	0	4	2
		Soft Core (Any One)							
	SCP4.1		40	10	50	0	0	4	2
	SCP4.2		40	10	50	0	0	4	2
	HCMP 4.3	Major Project (72 Project Evaluation + 48 for Viva Voce + 30 IA = 150)	120	30	150	0	0	6	6
		Total for Fourth Semester	480	120	600				24

L= Lecture T= Tutorials P = Practicals

4 Credits of Theory = 4 hours of teaching per week

2 Credits of Practicals = 4 hours per week