



KURUKSHETRA UNIVERSITY KURUKSHETRA

[Established by the State Legislature Act XII of 1956]

(‘A⁺’ Grade, NAAC Accredited)

AQAR-2020-21

1.2.2 : Scheme of Examination for the programmes in the Department/Institute of

Bio-Technology

Kurukshetra University, Kurukshetra
Scheme of Examination for M.Sc. Biotechnology (CBCS-LOCF)
(Effective from the Academic Session 2020-2021 in Phased Manner)

Semester - I

Paper No.	Nomenclature	Paper Type	Credits	Contact Hours per Week	Internal Marks	External Marks	Total Marks	Duration of Exam (Hours)
BT-101	Biomolecules	Core	4	4	20	80	100	Three
BT-102	Microbiology	Core	4	4	20	80	100	Three
BT-103	Molecular Cell Biology	Core	4	4	20	80	100	Three
BT-104	Biotechniques	Core	4	4	20	80	100	Three
BT-105	Lab Course based on Biomolecules and Biotechniques	Core	4	8	20	80	100	Three
BT-106	Lab Course based on Molecular cell Biology & Microbiology	Core	4	8	20	80	100	Three
		Total Credits = 24			Total Marks = 600			



CHAIRMAN,
Department of Biotechnology
Kurukshetra University,
KURUKSHETRA-136119.

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Semester – III

Paper No.	Nomenclature		Paper Type	Credits	Contact Hours per Week	Internal Marks	External Marks	Total Marks	Duration of Exam (Hours)
BT-301	Plant Biotechnology		Core	4	4	20	80	100	Three
BT-302	Microbial Biotechnology		Core	4	4	20	80	100	Three
BT-303	Molecular Genetics		Core	4	4	20	80	100	Three
BT-304	Immunology	Any one	Elective	4	4	20	80	100	Three
BT-305	Molecular Medicine and Diagnostics		Elective	4	4	20	80	100	Three
BT-306	Seminar		Core	1	1	25		25	
BT-307	Biotechnology and Human Welfare-II	Any One	Open Elective	2	2	10	40	50	Three
BT-308	MOOC on Swayam Portal		Open Elective	2				50	
BT-309	One Month Summer/Industrial Training*		Open Elective	2				50	
BT-310	Lab Course based on Plant Biotechnology & Microbial Biotechnology		Core	4	8	20	80	100	Three
BT-311	Lab Course based on Molecular Genetics, Immunology/ Molecular Medicine and Diagnostics		Core	4	8	20	80	100	Three
			Total Credits = 27			Total Marks = 675			

*One Month Summer/Industrial Training Report of Minor Research Project/ Summer Training in Biotechnology industry/Research Institute will be submitted by the M. Sc. Biotechnology student in the Semester-III followed by a presentation of the training report for evaluation.

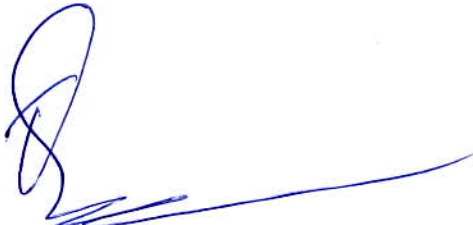

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Semester – IV

Paper No.	Nomenclature		Paper Type	Credits	Contact Hours per Week	Internal Marks	External Marks	Total Marks	Duration of Exam (Hours)
BT-401	Food Biotechnology		Core	4	4	20	80	100	Three
BT-402	Environmental Biotechnology		Core	4	4	20	80	100	Three
BT-403	Animal and Medical Biotechnology		Core	4	4	20	80	100	Three
BT-404	Genomics, Proteomics and Metabolomics	Any one	Elective	4	4	20	80	100	Three
BT-405	Biosafety, Bioethics and IPR Issues		Elective	4	4	20	80	100	Three
BT-406	Lab Course based on Food and Environmental Biotechnology		Core	4	8	20	80	100	Three
BT-407	*Project Work/Field Training Report		Core	4			100	100	
			Total Credits = 24			Total Marks = 600			
			Grand Total Credits = 102			Grand Total of Marks = 2550			

*M. Sc. students shall be allotted to teachers at the beginning of **Semester – II** for guidance in preparing the Project Work/Field Training Report of the research/training carried out during Semester break in house or in other institutes. The report will be based on Minor Research Project/Field Training in Biotechnology and will be evaluated by the Internal Examiner and External Examiner.


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Semester – II

Paper No.	Nomenclature		Paper Type	Credits	Contact Hours per Week	Internal Marks	External Marks	Total Marks	Duration of Exam (Hours)
BT-201	Genetic Engineering		Core	4	4	20	80	100	Three
BT-202	Animal Cell & Tissue Culture		Core	2	2	10	40	50	Three
BT-203	Plant Cell & Tissue Culture		Core	2	2	10	40	50	Three
BT-204	Bioinformatics		Core	4	4	20	80	100	Three
BT-205	Enzyme Technology		Core	4	4	20	80	100	Three
BT-206	Seminar		Core	1	1	25	-	25	-
BT-207	Biotechnology and Human Welfare-I	Any One	*Open Elective	2	2	10	40	50	Three
BT-208	MOOC on Swayam Portal		Open Elective	2				50	
BT-209	Lab Course based on Genetic Engineering & Cell and Tissue Culture Technology		Core	4	8	20	80	100	Three
BT-210	Lab Course based on Enzyme Technology & Bioinformatics		Core	4	8	20	80	100	Three
			Total Credits = 27			Total Marks = 675			


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