B.Tech. Biotechnology KURUKSHETRA UNIVERSITY KURUKSHETRA

Semester-I

S. No.	Course No./	Subject	L:T:P	Hours/	Credits	Examination Schedule (Marks)				Duration of	
	Code			Week		End	Internal	Practical	Total	exam (Hours)	
						semester	Assessment	Exam			
						Exam					
1	B23-HSC-101	English for Technical Writing	2:0:0	2	2	70	30		100	3	
2	B23-ESC-101	Programming for Problem Solving	3:0:0	3	3	70	30		100	3	
3	B23-BSC-105	Chemistry	3:1:0	4	4	70	30		100	3	
4	B23-BSC-109	Applied Mathematics-I	3:1:0	4	4	70	30		100	3	
5	B23-BSC-106	Biology	3:0:0	3	3	70	30		100	3	
6	B23-HSC-103	English Language Lab	0:0:2	2	1		40	60	100	3	
7	B23-ESC-105	Programming for Problem Solving Lab	0:0:2	2	1		40	60	100	3	
8	B23-ESC-107	Manufacturing Processes Workshop	0:0:3	3	1.5		40	60	100	3	
9	B23-BSC-114	Engineering Chemistry Lab	0:0:2	2	1		40	60	100	3	
10	B23-VAC-101	Personality Development and Soft Skills	2:0:0	2	1		100		100	3	
Total			27	21.5	350	410	240	1000			

Note: NCC/NSS/Sports/Yoga/Technical or cultural club/society activities will be joined by students in first year and will be evaluated in the 7th semester by the Institute based upon continuous evaluation model as per the guidelines.

B.Tech. Biotechnology KURUKSHETRA UNIVERSITY KURUKSHETRA

Semester - II

S. No.	Course No./	Subject	L:T:P	Hours/	Credits	Examination Schedule (Marks)				Duration
	Code			Week		End semester	Internal	Practical	Total	of Exam
						Exam	Assessment	Exam		(Hours)
1	B23-HSM-101	Universal Human	3:0:0	3	3	70	30		100	3
		Values-II: Understanding Harmony								
		and Ethical Human								
		conduct								
2	B23-ESC-102	Engineering Graphics	1:0:0	1	1	70	30		100	3
		and Design								
3	B23-ESC-103	Basic Electrical and	3:1:0	4	4	70	30		100	3
		Electronics Engineering								
4	B23-BSC-103	Applied Physics	3:1:0	4	4	70	30		100	3
5	B23-BSC-110	Applied Mathematics-II	3:1:0	4	4	70	30		100	3
6	B23-ESC-106	Engineering Graphics &	0:0:4	4	2		40	60	100	3
		Design Lab								
7	B23-ESC-108	Basic Electrical and	0:0:2	2	1		40	60	100	3
		Electronics Engineering								
		lab								
8	B23-BSC-113	Applied Physics Lab	0:0:2	2	1		40	60	100	3
9	B23-HSC-102	Design Thinking	0:0:3	3	1.5		100		100	3
10	B23-VAC-106	IDEA Workshop Theory	2:0:0	2	1		100		100	3
11	B23-VAC-108	IDEA Workshop Lab	0:0:4	4	1		100		100	3
					23.5	350	570	180	1100	
Total				33				200		

Scheme of UG Degree course in Biotechnology w.e.f. session 2023-24 onwards

Biotechnology

Students of Biotechnology are offered to earn ADDITIONAL 18-20 CREDITS through MOOCs/SWAYAM courses as per the 'Guidelines to implement the SWAYAM/MOOCs/ other authorized online courses (OAOC) of Kurukshetra University, Kurukshetra' in any of the emerging areas mentioned below for the award of the degree of:

- 1. B.Tech. (Hons.) Biotechnology with Specialization in Computer Science and Biology
- 2. B.Tech. (Hons.) Biotechnology with Specialization in Drug Engineering
- 3. B.Tech. (Hons.) Biotechnology with Specialization in Genome Engineering and Technology
- 4. B.Tech. Biotechnology with Minor Degree in Artificial Intelligence and Machine Learning
- 5. B.Tech. Biotechnology with Minor Degree in Blockchain
- 6. B.Tech. Biotechnology with Minor Degree in Data Science
- 7. B.Tech. Biotechnology with Minor Degree in Internet of Things (IoT)
- 8. B.Tech. Biotechnology with Minor Degree in Cyber Security
- 9. B.Tech. Biotechnology with Minor Degree in 3D Printing
- 10. B.Tech. Biotechnology with Minor Degree in Electric Vehicles
- 11. B.Tech. Biotechnology with Minor Degree in Energy Engineering
- 12. B.Tech. Biotechnology with Minor Degree in Mechatronics
- 13. B.Tech. Biotechnology with Minor Degree in Robotics