

BS Biotechnology				
Semester	Course Code	Course Title	Credit Hrs	Sections
Semester 1	BT1303	Introduction to Biotechnology	3	1
	BT1222	Organic Chemistry	2	1
	BT1221	Organic Chemistry-Lab	1	1
	NS101	Environmental Sciences	3	1
	ICT101	Applications of Information and Communication Technologies	2	1
	ICTL101	Applications of Information and Communication Technologies Lab	1	1
	ENG110	Functional English	3	1
	QR101	Quantitative Reasoning-1	3	1
Semester	Course Code	Course Title	Credit Hrs	Sections
Semester 3	BT2802	Ecology, Biodiversity & Evolution -II	2	1
	BT2801	Ecology, Biodiversity & Evolution -II-Lab	1	1
	PAK102	Ideology and Constitution of Pakistan	2	1
	BT2103	Classical Genetics	3	1
	IFS201	Introduction to Forensic Science	3	1
	CCE201	Civics and Community Engagement	2	1
	ENT102	Entrepreneurship	2	1
Semester	Course Code	Course Title	Credit Hrs	Sections
Semester 5	BT3262	Principles of Biochemical Engineering	2	1
	BT3261	Principles of Biochemical Engineering-Lab	1	1
	BT2523	Recombinant DNA Technology	3	1
	BT3511	Methods in Molecular Biology	1	1
	BT3512	Methods in Molecular Biology-Lab	2	1

	BT3113	Genetic Resources & Conservation	3	1
	BT3323	Microbial Biotechnology	3	1
Semester	Course Code	Course Title	Credit Hrs	Sections
Semester 6	BT3712	Virology	2	1
	BT3711	Virology-Lab	1	1
	BT3323	Microbial Biotechnology	3	1
	BT3333	Health Biotechnology	3	1
	BT3383	Environmental Biotechnology and Climate Change	3	1
	BT3353	Food Biotechnology	3	1
	BT3363	Nano-Biotechnology	3	1
Semester	Course Code	Course Title	Credit Hrs	Sections
Semester 7	BT4123	Genomics & Proteomics	3	2
	BT4002	Entrepreneurship in Biotechnology	2	2
	BT4821	Bioinformatics	1	2
	BT4822	Bioinformatics-Lab	2	2
	BT4373	Industrial Biotechnology	3	2
	BT4622	Cell & Tissue Culture	2	2
	BT4621	Cell & Tissue Culture-Lab	1	2
	BT4903	Research Project I	3	2
Semester	Course Code	Course Title	Credit Hrs	Sections
Semester 8	BT4022	Virology	2	1
	BT4021	Virology-Lab	1	1
	BT4032	Fermentation Biotechnology	2	1
	BT4031	Fermentation Biotechnology-Lab	1	1

5	BT4033	Research Methodology & Skill Enhancement	3	1
	BT4042	Sustainable Biosafety & Bioethics	2	1
	BT4913	Research Project-II	3	1