



THE BEGUM NUSRAT BHUTTO
WOMEN UNIVERSITY, SUKKUR

Scheme of Studies

BS Biotechnology (4 Years)

1st semester (1st year)

S.No	Course Code	<u>Course title</u>	Cr. Hr.	Pre. Req.
1	ECC101	English Composition & Comprehension	3+0	-
2	PST101	Ideology & Constitution of Pakistan	2+0	-
3	HWS 201	Health and Wellness	3+0	-
4	OCH 101	Organic Chemistry	2+1	-
5	ECB 101	Ecology, Biodiversity & Evolution – I	3+0	-
6	CBT 101	Cell Biology	2+1	-
		Total Credit hours	17 (16+1)	

2nd semester (1st year)

S.No	Course Code	<u>Course title</u>	Cr. Hr.	Pre. Req.
1	CSK101	Communication Skills	3+0	-
2	ISL101/ ETH101	Islamic Studies/Ethics	2+0	-
3	MTH350	Biomathematics	3+0	-
4	ICH 101	Inorganic Chemistry	2+1	-
5	ECB 102	Ecology, Biodiversity & Evolution – II	2+1	-
6	MBY 101	Microbiology	2+1	-
		Total Credit Hours	17 (14+3)	



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3rd semester (2st year)

S.No	Course Code	<u>Course title</u>	Cr. Hr.	Pre. Req.
1	TWP201	Technical Writing & Presentation Skills	3+0	ECB 102
2	ITC101	Introduction to Information and Communication Technologies	2+1	-
3	PCH 201	Physical Chemistry	3+0	-
4	SSC101	Sociology	3+0	-
5	BCH 201	Biochemistry I	2+1	-
6	CGS 201	Classical Genetics	3+0	-
		Total Credit Hours	18 (16+2)	

4th semester (2nd year)

S.No	Course Code	<u>Course title</u>	Cr. Hr.	Pre. Req.
1	BPH 201	Biological Physics	3+0	-
2	MTH202	Probability & Statistics	3+0	-
3	BTY 201	Ancient Biotechnology	3+0	-
4	ACH 201	Analytical Chemistry & Instrumentation	2+1	-
5	BCH 202	Biochemistry II	2+1	BCH 201
6	MOB 201	Molecular Biology	3+0	-
		Total Credit Hours	18 (16+2)	



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5th semester (3rd year)

S.No	Course Code	<u>Course title</u>	Cr. Hr.	Pre. Req.
1	BTY 301	Introduction to Biotechnology	3+0	-
2	IMY 301	Immunology	3+0	-
3	MOB 302	Methods in Molecular Biology	1+2	-
4	PBE 301	Principles of Biochemical Engineering	2+1	-
5	BIN 301	Bioinformatics	1+2	-
		Total Credit Hours	15 (10+5)	

6th semester (3rd year)

S.No	Course Code	<u>Course title</u>	Cr. Hr.	Pre. Req.
1	GRC 301	Genetic Resources & Conservation	3+0	-
2	BTY 302	Microbial Biotechnology	3+0	-
3	BTY 303	Agriculture Biotechnology	2+1	-
4	BTY 304	Food Biotechnology	3+0	-
5	BTY 305	Pharmaceutical Biotechnology	3+0	-
6	RMS 301	Research Methodology & Skill Enhancement	3+0	-
		Total Credit Hours	18 (17+1)	



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7th semester (4th year)

S.No	Course Code	<u>Course title</u>	Cr. Hr.	Pre. Req.
1	BTY 401	Health Biotechnology	3+0	-
2	SEM 401	Seminar I	1+0	-
3	BTY 402	Environment Biotechnology	3+0	-
4	GNP 401	Genomics and Proteomics	3+0	-
5	BTY 403	Fermentation Biotechnology	3+0	-
6	BTY 498	Research Project <u>OR</u> Internship <u>OR</u> Special Paper – I	3+0	-
Total Credit Hours			16 (16+0)	

8th semester (4th year)

S.No	Course Code	<u>Course title</u>	Cr. Hr.	Pre. Req.
1	BTY 404	Animal Biotechnology	3+0	-
2	BTY 405	Nano Biotechnology	3+0	-
3	SEM 402	Seminar II	1+0	-
4	BTY 406	Industrial Biotechnology	3+0	-
5	BTY 499	Research Project <u>OR</u> Internship <u>OR</u> Special Paper – II	3+0	-
6	BBT 401	Biosafety & Bioethics	2+0	-
Total Credit Hours			15 (15+0)	
Total Credit Hours				134