

Courses for B Tech Biotechnology

1 st Semester	2 nd Semester
BTB-111 (2+0) Cell Biology	BTB-121(2+1) Molecular Biology
BTB-112 (2+1) Basic Genetics	BTB-222 (2+1)Plant Genetic Transformation
BTB-113 (2+1) Introduction to Biotechnology	FGR-122 (2+0) Biodiversity and its conservation
BTB-114 (2+1) Plant Tissue Culture	FSC-126 (2+1) Production Technologies for Horticultural Crops
ENS-111 (2+1=3)Environmental Studies and Disaster Management	BSM-121 (2+1) Microbiology
FST-111 (1+1=2) Food Science and Processing	GPB-121(2+1) Basics of Plant Breeding
BSH-112 (1+0=1)Human Ethics	BSP-121(2+1) Biophysics
BSB-001 (2+1=3NC) Basic Botany	BSZ-002 (2+1=3 NC) Basic Zoology
BSS-001(3+0=3NC) Basic Mathematics -I	BSS-002 (3+0=3NC) Basic Mathematics-II
ORI-001(1+0=1NC) Orientation	NSS (0+1=1NC)
NSS(0+1=1NC)	NRE-222 (1+1) Entrepreneurship Development and Business Management
BTB-211 (2+1) Recombinant DNA Technology	SAF-222 (2+1) Livestock Production and Management
BTB-212 (2+1) Introductory Bioinformatics	BSC-222 (3+1) General Biochemistry
BSB-211(2+1)Plant Physiology	BTB-222 (2+1) Plant Genetic Transformation
ICT-211(1+1)Information and Communication technology	BTB-223 (1+!) Fundamentals of Electronics and Instrumentation in Biotechnology
NRE-211(2+1)Economics and Marketing	BTB-224 (2+1) Classical and Molecular Cytogenetics
PPR-211(2+1)Fundamentals of Crop Protection	BSM-221 (2+1)Microbial Genetics
BSS-211(2+1)Biomathematics	BSS-221 (1+1) Basic Statistics
GPB-211(2+1)Breeding of Field Crops	NSS (0+1=1NC)
NSS (0+1-1NC)	BTB-322 (2+1)Plant Tissue Culture and its Applications
BTB-311 (2+1) Immunology	BTB-323 (2+1)Principles and Applications of Plant Genetic Transformation
BTB-312 (2+0) Molecular Genetics	BTB-324 (2+1)Applications of Genomics and Proteomics
BTB-313 (2+0) Nanobiotechnology	BTB-325 (2+1) Molecular Breeding in Field Crops
BTB-314(3+1)Animal Biotechnology	BTB-326 (2+1) Molecular Breeding of Horticultural Crops and Forest Trees
BTB-315 (2+0) Molecular Marker Technology	
BTB-316(3+0)Genomics and Proteomics	BTB-327 (2+1) Epigenetics and Gene Regulation
BTB-317(2+0) IPR, Biosafety and Bioethics	
ICT-311(2+!) Agricultural Informatics	BTB-421 (0+10) Student READY- Project Formulation, Execution and Presentation
BTB-411 (0+20) Student READY –In house Skill Development Modules Plant Biotechnology	BTB-422 (0+10) Student READY- Entrepreneurial Development in Biotechnology (On-campus/Off campus)
BTB-412 (0+1) Educational Tour	

Courses for M.Sc. (Agri) Molecular Biology and Biotechnology

1 st Semester	2 nd Semester
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MBB 501(3+0) Principles of Biotechnology	MBB 503 (3+0)Molecular Cell Biology*
MBB 502 (3+0)Fundamentals of Molecular Biology*	MBB 510 (2+1) Microbial and Industrial Biotechnology
MBB 504 (0+3) Techniques in Molecular Biology I*	
MBB 505 (2+1) Omics and Systems Biology *	MBB 511 (2+1) Molecular Plant Breeding
MBB 509 (2+1) Plant Tissue culture	
MBB 508 (2+1)Introduction to Bioinformatics	MBB 518 2+0 Gene Regulation
MBB 591 (0+1) Seminar	

***Core courses**