



BENNETT
UNIVERSITY
THE TIMES GROUP

PROGRAM STRUCTURE

B. TECH BIOTECHNOLOGY

Duration: 4 Years

Batch: 2026-2030

**Department of Biotechnology,
School of Engineering and Applied Sciences,
Bennett University**

Semester-I	
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[illegible]

Semester-II									
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[illegible]

Semester-III									
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Semester-IV									
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S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	DSC	rDNA Technology	2026BIOT251	3	0	2	0	4
2	DSC	Immunology	2026BIOT252	2	0	4	0	4
3	DSC	Genetics	2026BIOT253	3	0	2	0	4
4	DSC	Introduction to Biomaterials	2026BIOT254	3	0	2	0	4
5	DSE	Elective IV	Given Below	4	0	0	0	4
6	VAC-4	TREP4	2026TREP251	0	1	0	3	2
Total				17	1	10	0	22
Semester-V								
S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	DSC	Cell and Tissue Culture Technologies	2026BIOT301	3	0	2	0	4
2	DSC	Introduction to Bioinformatics	2026BIOT302	2	0	4	0	4
3	DSC	Food Biotechnology	2026BIOT303	3	0	2	0	4
4	DSE	Specialization/Elective V	Given Below	3	0	2	0	4
5	SEC3	Medical Laboratory Techniques (MLT)	2026BIOT304	2	0	0	0	2
6	AEC3	TREP5	2026TREP301	0	1	0	3	2
Total				13	1	10	3	20
Semester-VI								
S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	DSC	Genomics & Genome Engineering	2026BIOT351	3	0	2	0	4
2	DSC	Bioprocess Engineering	2026BIOT352	2	0	4	0	4
3	DSC	Plant Biotechnology	2026BIOT353	3	0	2	0	4
4	DSE	Specialization/Elective VI	Given Below	3	0	2	0	4
5	DSE	Elective VII	Given Below	2	0	0	0	2
6	AEC-4	TREP6	2026TREP351	0	1	0	3	2
Total				13	0	10	0	20
Semester-VII								
S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	DSC	IPR and regulations	2026BIOT401	2	0	0	0	2

2	DSC	Research Method and Ethics	2026BIOT402	2	0	0	0	2
3	DSE	Elective VIII	Given Below	2	0	0	0	2
4	DSE	Specialization/Elective IX	Given Below	3	0	2	0	4
5	AEC 5	Entrepreneurship/Project Management/ any other related course	2026BIOT441- 2026BIOT450	0	0	0	6	2
6	SEC 5	Experimental Design and Analysis	2026BIOT403	0	0	4	0	2
7	VAC 5	Environmental Studies- II	2026ENVS401	2	0	0	0	0-2
8	GE/MDC 6	Cell Biology/Biochemistry/Biophysics/ Molecular Biology/Microbiology/Bioinformatics/any other related course	2026BIOT431- 2026BIOT440	0	0	0	6	0-2
9	SIP-III	Summer Internship-III	2026BIOT450	0	0	0	6	2
Total				13	0	6	6	18
Semester-VIII								
S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	DSE	Cell Biology/Biochemistry/Biophysics/ Molecular Biology/Microbiology/Bioinformatics/ any other related course	2026BIOT461- 2026BIOT470	3	0	0	0	3
2	GE/MDC	Cell Biology/Biochemistry/Biophysics/ Molecular Biology/Microbiology/Bioinformatics /any other related course	2026BIOT471- 2026BIOT480	2	0	0	0	0-2
3	AEC 6	Entrepreneurship/Project Management/any other related course	2026BIOT481- 2026BIOT490					
4	SEC 6	Biological Science/Management/any other related course	2026BIOT491- 2026BIOT500					
5	SIP 2	Research Project towards specialization/ Dissertation for students without specialization	2026BIOT451	0	0	0	24	12
Total				5	0	0	24	17

List of Electives & Specialization (2026-30)

Semester 1

Type of Course	Course Code	Course Name	L	T	P	E	Credits
Elective I	2026CHEM101	Fundamentals in Chemistry	3	0	0	0	3
	2026BIOT103	Human Biology in Health and Disease	3	0	0	0	3

Semester 2

Elective II	2026BIOT154	Ayurveda & Nutrition	3	0	0	0	3
	2026BIOT155	Nutraceuticals & Health	3	0	0	0	3

Semester 3

Elective III	2026BIOT204	Basic Epidemiology	3	0	0	0	3
	2026BIOT205	Surface Chemistry & Interfaces	3	0	0	0	3

Semester 4

Elective IV	2026BIOT255	Microbiome in Health and Disease	4	0	0	0	4
	2026BIOT256	Forensic Science	4	0	0	0	4

Semester 5

Elective V	2026BIOT305	Fundamentals of Neuroscience	3	0	2	0	4
	2026BIOT306	Translational Immunology	3	0	2	0	4

Specialization-1

Specialization-1	2026BSDR301	Drug Discovery Process and Molecular Basis	3	0	2	0	4
	2026BSNT301	Nanomedicine	3	0	2	0	4
	2026BSIN301	Green Chemicals & Sustainable Products	3	0	2	0	4
	2026BSGE301	Human Genetics	3	0	2	0	4
	2026BSBM301	Biomedical Technologies in Diagnostic and Therapy	3	0	2	0	4

Semester 6

Elective VI	2026BIOT355	Introduction to Pharmaceutical Sciences	3	0	2	0	4
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	2026BIOT356	Model Organisms in Biology	3	0	2	0	4
	Specialization-2						
Specialization-2	2026BSDR351	Rational Drug Design and Structure Determination	3	0	2	0	4
	2026BSNT351	Introduction to Biosensors and Bioelectronics	3	0	2	0	4
	2026BSIN351	Biofuels & Biorefinery	3	0	2	0	4
	2026BSGE351	Genetic Counselling	3	0	2	0	4
	2026BSBM351	Bioimaging	3	0	2	0	4
Elective -VII	2026BIOT357	Gene Therapy	2	0	0	0	2
	2026BIOT358	Personalised Medicine and Therapeutics	2	0	0	0	2
Semester 7							
Elective -VIII	2026BIOT404	Multomics	3	0	2	0	4
	2026BIOT405	Fundamentals of Biomedical Implants	3	0	2	0	4
	Specialization-3						
Specialization-3	2026BSDR401	Biotherapeutics	3	0	2	0	4
	2026BSNT401	Digital healthcare, Theranostics and Lab-on-a-chip	3	0	2	0	4
	2026BSINS401	Bioprocess Design and Upscaling	3	0	2	0	4
	2026BSGE401	Genomics and Personalized Medicine	3	0	2	0	4
	2026BSBM401	Medical Innovations	3	0	2	0	4
Elective IX	2026BIOT406	Phytopharmaceuticals: Engineering & Production	3	0	2	0	4
	2026BIOT407	Stem Cells & Regenerative Medicine	3	0	2	0	4
	2026BIOT408	Developmental Biology	3	0	2	0	4