



B.Sc., Biotechnology

(For the students admitted from the Academic Year 2025 – 2026)

Scheme of Examination

Sem ester	Part	Type	Course Code	Title of the Course	Hours per week	Credits	CIA	ESE	Total Marks
I	I	Language	25ULT001 / 25ULH001 25ULF001 / 25ULM001	Tamil – I / Hindi – I / French – I / Malayalam – I	6	3	25	75	100
	II	English	25UEN101	Functional English - I	4	3	25	75	100
	III	Generic Core - 1	25BBT201	Cell Biology	5	4	25	75	100
	III	Generic Core - 2	25BBT202	Bioinstrumentation	5	4	25	75	100
	III	Allied - 1	25BBT701	Applied Mathematics	4	3	20	55	75
	III	Core Laboratory - 1	25BBT801	Cell Biology, Bioinstrumentation and Microbiology	3	-	-	-	-
	IV	Employability Skills - 1	25UES901	Communicative Skills	1	-	-	-	-
	IV	Ability Enhancement - 1	25UFC951	Environmental Studies	2	2	-	50	50
Total					30	19			525
II	I	Language	25ULT002 / 25ULH002 / 25ULF002 / 25ULM002	Tamil – II / Hindi – II / French – II / Malayalam – II	6	3	25	75	100
	II	English	25UEN102	Functional English - II	4	3	25	75	100
	III	Generic Core - 3	25BBT203	Microbiology	4	4	25	75	100
	III	Generic Core - 4	25BBT204	Human Physiology	4	4	25	75	100
	III	Allied - 2	25BBT702	Chemistry	4	3	20	55	75
	III	Core Laboratory - 1	25BBT801	Cell Biology, Bioinstrumentation and Microbiology	2	3	30	45	75

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	III	Core Laboratory - 2	25BBT802	Clinical Microbiology	3	3	30	45	75
	IV	Employability Skills - 1	25UES901	Communicative Skills	1	2	25	25	50
	IV	Ability Enhancement - 2	25UFC952	Human Rights & Constitution of India	2	2	-	50	50
Total					30	27			725
III	I	Language	25ULT003 / 25ULH003 / 25ULF003 / 25ULM003	Tamil – III / Hindi – III / French – III / Malayalam – III	6	3	25	75	100
	II	English	25UEN103	Communicative English	4	3	25	75	100
	III	Generic Core - 5	25BBT205	Biochemistry	4	3	20	55	75
	III	Discipline Centric Core - 1	25BBT301	Genetics	4	4	25	75	100
	III	Allied - 3	25BBT703	Basics of Computer Applications	4	3	20	55	75
	III	Core Laboratory - 3	25BBT803	Biochemistry and Genetics	4	3	30	45	75
	IV	Employability Skills - 2	25UES902	Problem Solving & Reasoning	2	-	-	-	-
	IV	Ability Enhancement - 3	25UFC953	Health and Wellness	1	1	25	-	25
	IV	Elective Foundation - 1	25UFC954 / 25UFC955 / 25UFC956 / 25UFC957	Basic Tamil – I / Advanced Tamil- I / Indian Knowledge System / General Awareness	1	1	-	25	25
Total					30	21			575
IV	I	Language	25ULT004 / 25ULH004 / 25ULF004 / 25ULM004	Tamil – IV / Hindi – IV / French – IV / Malayalam – IV	6	3	25	75	100
	II	English	25UEN104	Business English Communication	4	3	25	75	100
	III	Generic Core - 6	25BBT206	Molecular Biology	4	3	20	55	75
	III	Discipline Centric Core - 2	25BBT302	Immunology	4	4	25	75	100
	III	Allied - 4	25BBT704	Bioinformatics	4	3	20	55	75

Sem ester	Part	Type	Course Code	Title of the Course	Hours per week	Credits	CIA	ESE	Total Marks
	III	Discipline Centric Laboratory - 1	25BBT821	Molecular Biology, Immunology, and Bioinformatics	4	3	30	45	75
	IV	Employability Skills - 2	25UES902	Problem Solving & Reasoning	2	2	25	25	50
	IV	Elective Foundation - 2	25UFC958 / 25UFC959 / 25UFC960 / 25UFC961 / 25UFC962	Basic Tamil-II / Advanced Tamil-II / Innovation & IPR / Women's Rights / Yoga for Human Excellence	2	2	-	50	50
Total					30	23			625
V	III	Generic Core - 7	25BBT207	Plant & Animal Biotechnology	4	3	20	55	75
	III	Discipline Centric Core - 3	25BBT303	Genetic Engineering	4	4	25	75	100
	III	Discipline Centric Core - 4	25BBT304	Ecology and Environmental Biotechnology	4	4	25	75	100
	III	Generic Elective -1	25BBT401/ 25BBT402/ 25BBT403	Research Methodology and Biosatistics/ Enzymology / Agricultural Biotechnology	4	3	20	55	75
	III	Discipline Centric Elective -1	25BBT501/ 25BBT502/ 25BBT503	Embryology / Biotechnological approach for Waste Management / Forensic Biology	4	3	20	55	75
	III	Open Elective	List Enclosed in Annexure I		4	4	25	75	100
	III	Discipline Centric Laboratory - 2	25BBT822	Plant, Animal and Environmental Biotechnology	4	3	30	45	75
	III	Internship	25BBT871	Internship	-	2	20	30	50
	IV	Employability Skills - 3	25BBT903	Managerial Skills	2	2	25	25	50
Total					30	28			700
VI	III	Generic Core - 8	25BBT208	Food and Pharmaceutical Biotechnology	5	3	20	55	75
	III	Discipline Centric Core - 5	25BBT305	Bioprocess Engineering and Fermentation Technology	5	4	25	75	100

Sem ester	Part	Type	Course Code	Title of the Course	Hours per week	Credits	CIA	ESE	Total Marks
	III	Discipline Centric Elective - 2	25BBT504/ 25BBT505/ 25BBT506	Genomics and Proteomics /Toxicology / Stem Cell Biology	5	3	20	55	75
	III	Discipline Centric Elective -3	25BBT507/ 25BBT508/ 25BBT509	Nano Biotechnology/ Medical Biotechnology / Marine Biotechnology	5	3	20	55	75
	III	Discipline Centric Laboratory - 3	25BBT823	Industrial Biotechnology	5	3	30	45	75
	III	Project	25BBT851	Project and Viva Voce	5	4	40	60	100
	V	Extension Activity	25UEX971	NSS / Sports / Club Activities	-	2	50	-	50
Total					30	22			550
Grand Total					180	140			3700

Candidates may choose any one of the Open Elective Courses given below except their Department Course.

List of Open Electives offered for 2025 – 2026 Batch

S. No	Offering Department	Course Code	Title of the Course
1	School of Liberal Arts - English	25BEL601	Creative Content Writing
2	School of Mathematics	25BMT601	Patterns and Logic in Everyday Life
3	School of Computer Studies (CS, CSDA)	25BCS601	Office Automation
4	School of Computer Studies (CS, CSDA)	25BDA601	Business Analytics with python
5	School of Computer Studies (IT & AIML)	25BIT601	Web Application Development
6	School of Computer Studies (IT & AIML)	25BAI601	Fundamentals of Artificial Intelligence
7	School of Commerce	25BCM601	Fundamentals of Goods and Service Tax
8	School of Commerce	25BBI601	Banking Operations
9	School of Applied Commerce - CA	25BCA601	Web Marketing
10	School of Applied Commerce - PA	25BPA601	Sales Promotion and Techniques
11	School of Management	25BBA601	Career Skills and Corporate Etiquette
12	School of Fashion	25BCF601	Beauty Care
13	School of Biotechnology	25BBT601	Organic Farming