

Integral University Study & Evaluation Scheme B.Tech Biotechnology Program Second Year Semester 3 (w.e.f session 2025-2026)
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S. No.	Course	Course Code	Category	Periods				Evaluation Scheme									Attributes							United Nations Sustainable Development	
								Sessional (CA)						End Sem Exam (ESE)			Subject Total	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Goals (SDGs)
				CT		TA		Total	TE	PE	Total														
				L	T	P	C					Th	P	Th	P										
1	Biochemistry	BE201	PCC	3	0	4	5	50	15	25	10	100	75	25	100	200	✓		✓		✓				3
2	Microbiology	BE202	PCC	3	0	4	5	50	15	25	10	100	75	25	100	200	✓		✓		✓				3,6
3	Cell and Molecular Biology	BE203	PCC	3	0	4	5	50	15	25	10	100	75	25	100	200	✓		✓		✓				3,9
4	Fluid flow and solid handling	ME221	ESC	3	0	2	4	50	15	25	10	100	75	25	100	200	✓	✓	✓		✓				9,7
5	Human Values and Professional Ethics	BM226	MC	2	0	0	0	0	0	0	0	0	100	0	100	100	✓			✓	✓	✓	✓		16,4
6	Elective-1		PEC	3	0	0	3	50	0	25	0	75	75	0	75	150									
7	Disaster Management	ES203	HSSM	2	1	0	3	50	0	25	0	75	75	0	75	150	✓		✓	✓	✓	✓	✓	✓	11,13
				19	1	14	25	300	60	150	40	550	550	100	650	1200									

Departmental Elective 1	Plant and Animal Physiology	BE204	PEC	3	0	0	3	50	0	25	0	75	75	0	75	150	✓		✓		✓				2,15
	Concepts of Web Development	CS228	PEC	3	0	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓						9,4

L - Lecture T - Tutorial P - Practical C - Credits CT - Class Test TA - Teacher Assessment Th - Theory TE - Theory Exam PE - Practical Exam

Sessional Total (CA = Class Test (CT) + Teacher Assessment (TA))

$$\text{Subject Total (CA)} = \text{Sessional Total (CA)} + \text{End Semester Examination (ESE)}$$

BSC	Basic Science Courses
PCC	Professional Core Courses
ESC	Engineering Science Courses
PEC	Professional Elective Courses
OEC	Open Elective Courses
HSSM	Humanities, Social Sciences & Management Courses
IPC	Internship/ Project Courses
MC	Mandatory Course

* Audit Course

Integral University
Study & Evaluation Scheme
B.Tech Biotechnology Program
Second Year
Semester 4
(w.e.f session 2025-2026)

S. No.	Course	Course Code	Category	Periods				Evaluation Scheme									Attributes							United Nations Sustainable Development		
								Sessional (CA)						End Sem Exam (ESE)				Subject Total	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Goals (SDGs)
				CT		TA		Total	TE	PE	Total															
				L	T	P	C					Th	P	Th	P											
1	Immunology	BE209	PCC	3	0	2	4	50	15	25	10	100	75	25	100	200	✓		✓						3	
2	Enzymology	BE210	PCC	3	0	0	3	50	0	25	0	75	75	0	75	150	✓		✓						9,3	
3	Bioinformatics	BE211	PCC	3	0	0	3	50	0	25	0	75	75	0	75	150	✓		✓						9,4	
4	Genetics	BE212	PCC	3	0	0	3	50	0	25	0	75	75	0	75	150	✓		✓						3,2	
5	Heat and Mass Transfer Operations	BE213	ESC	4	0	4	6	50	15	25	10	100	75	25	100	200	✓	✓	✓						7,9	
6	Elective-2	Elective	PEC	3	0	0	3	50	0	25	0	75	75	0	75	150									2,3,8,9,15	
7	Cyber Law & Information Security	CS203	HSSM	3	0	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓				✓		16,9	
8	Artificial Intelligence in Biotechnology	BE214	ESC	3	0	0	0	0	0	0	0	0	100	0	100	100	✓	✓	✓				✓		9,3	
				25	0	6	25	350	30	175	20	575	625	50	675	1250										
Departmental Elective 2	Plant Biochemistry	BE215	PEC	3	0	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓		✓				2,15	
	Clinical Biochemistry	BE216	PEC	3	0	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓				✓		3	
	Process Engineering Economics	BE217	PEC	3	0	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓				✓		8,9	

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