

Integral University
Study & Evaluation Scheme
B.Tech Biotechnology Program
First Year
Semester 1
(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)
				L	T	P	C	CT		TA		Total	TE	PE	Total									
								Th	P	Th	P													
1	Chemistry	CH102	BSC	3	0	2	4	50	15	25	10	100	75	25	100	200	✓	✓	✓		✓			6,9,12,13
2	Mathematics-I for Bioengineers	MT102	BSC	3	1	0	4	50	0	25	0	75	75	0	75	150	✓	✓	✓					9
3	Professional Communication	LN132	HSSM	3	0	2	4	50	15	25	10	100	75	25	100	200	✓	✓	✓			✓	✓	4
4	Introduction to Bioengineering	BE101	PCC	2	0	0	2	50	0	25	0	75	75	0	75	150			✓		✓			4
5	Concepts of Environmental Studies	ES102	HSSM	2	1	0	3	50	0	25	0	75	75	0	75	150			✓		✓			6,13,14,15
6	Basic Mechanical Engineering & Workshop	ME101	ESC	3	0	2	4	50	15	25	10	100	75	25	100	200	✓		✓					4,9
7	Rashtra Gaurav	HM101	MC	2	0	0	0	0	0	0	0	0	100	0	100	100						✓		
				18	2	6	21	300	45	150	30	525	550	75	625	1150								

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))

Subject Total (CA) = Sessional Total (CA) + 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
First Year
Semester 2
(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)
				L	T	P	C	CT		TA		Total	TE	PE	Total	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Goals (SDGs)	
Th	P	Th	P																					
1	Physics for Bioengineering	PY102	BSC	2	1	2	4	50	15	25	10	100	75	25	100	200	✓		✓					4
2	Mathematics-II for Bioengineers	MT113	BSC	3	1	0	4	50	0	25	0	75	75	0	75	150	✓	✓	✓					9
3	Computer Programming	CS101	ESC	3	0	2	4	50	15	25	10	100	75	25	100	200	✓		✓					4,9
4	Thermodynamics	BE103	ESC	2	1	0	3	50	0	25	0	75	75	0	75	150			✓					7, 9, 12
5	IPR Biosafety and Bioethics	BE104	HSSM	2	1	0	3	50	0	25	0	75	75	0	75	150	✓					✓	✓	3,9,12,16
6	Engineering graphics	ME103	ESC	0	0	2	1	0	15		10	25	-	25	25	50	✓	✓	✓					4, 8, 9
7	Basic Electrical Engineering	EE103	ESC	3	0	2	4	50	15	25	10	100	75	25	100	200	✓		✓					4,,7,8,9,11
				15	4	8	23	300	60	150	40	550	450	100	550	1100								

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))

Subject Total (CA) = Sessional Total (CA) + End Semester Examination (ESE)

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* Audit Course