

Integral University
Study & Evaluation Scheme
B.Tech Biomedical Engineering Program
Second Year
Semester 3
(w.e.f session 2025-2026)

S. No.	Course	Course Code	Category	Periods				Evaluation Scheme									Attributes								United Nations Sustainable Development
								Sessional (CA)						Subject Total	End Sem Exam (ESE)			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	Electronic Devices and Circuits	EC201	PCC	3	0	2	4	50	15	25	10	100	75	25	100	200	✓	✓	✓		✓		✓	3,8,9,17	
2	Network Analysis and Synthesis	EC203	PCC	3	0	2	4	50	15	25	10	100	75	25	100	200	✓	✓	✓				✓	3,8,9,17	
3	Numerical and Statistical Analysis	MT203	BSC	3	0	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓		✓		✓	3,8,9,17	
4	Human Anatomy and Physiology for Engineers	BE250	PCC	3	0	4	5	50	15	25	10	100	75	25	100	200	✓	✓	✓			✓	✓	3,8,9,17	
5	Management concepts in Engineering	BM227	BSC	2	1	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓	✓	✓	✓	✓	3,8,9,17	
6	Human Values and Professional Ethics	BM226	MC	2	0	0	0	0	0	0	0	0	100	0	100	100	✓			✓	✓	✓	✓	16,4	
7	Elective-I	Elective	PEC	3	0	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓		✓	✓	✓	3,8,9,17	
8	Cyber Law & Information Security	CS203	HSSM	3	0	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓	✓	✓	✓	✓	3,8,9,17	
				22	1	8	25	350	45	175	30	600	625	75	700	1300									
Departmental Elective 1	Computational Methods for Signal and Image Processing	BE252	PEC	3	0	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓			✓	✓	3,8,9,17	
	Biomedical Nanotechnology	BE251	PEC	3	0	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓			✓	✓	3,8,9,17	

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 Biomedical Engineering 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													
				T	P	C	Th					P	Th	P										
1	Biomechanics	BE256	PCC	0	2	4	50	15	25	10	100	75	25	100	200	✓	✓	✓			✓	✓	3,8,9,17	
2	Artificial Intelligence in Biomedical Engineering	BE257	MC	0	0	0	0	0	0	0	0	100	0	100	100	✓	✓	✓				✓	9,3	
3	Digital Electronics	EC209	PCC	0	2	4	50	15	25	10	100	75	25	100	200	✓	✓	✓					3,8,9,17	
4	Measurement and Sensors	EC211	PCC	0	2	4	50	15	25	10	100	75	25	100	200	✓	✓	✓	✓	✓	✓	✓	3,8,9,17	
5	Biomaterials and Artificial Organs	BE258	PCC	0	2	4	50	15	25	10	100	75	25	100	200	✓	✓	✓				✓	3,4,8,9,17	
6	Elective-II	Elective	PEC	0	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓	✓	✓	✓	✓	3,8,9,17	
7	Disaster Management	ES203	HSSM	1	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓					3,8,9,17	
				1	8	22	300	60	150	40	550	550	100	650	1200									
Departmental Elective 2	X-Ray Imaging and Computed Tomography	EC267	PEC	0	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓			✓	✓	3,8,9,17	
	Biophysics & Biochemistry	BE259	PEC	0	0	3	50	0	25	0	75	75	0	75	150	✓	✓	✓			✓	✓	3,8,9,17	

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	