Integral University
Study & Evaluation Scheme
B.Tech Biomedical Engineering 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								
								CT		TA														
				L	T	P	C	Th	P	Th	P	Total	TE	PE	Total		Employability	Entrepren eurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professi onal Ethics	Goals (SDGs)
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 Biomedical Engineering	BE131	PCC	2	0	0	2	50	0	25	0	75	75	0	75	150	✓		✓			✓	✓	3,4,8,9,17
5	Basic Clinical Sciences	BE130	BSC	2	0	0	2	50	0	25	0	75	75	0	75	150	✓	✓	✓			✓	✓	3,4,8,9,17
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	100	0	100	100						✓		
				18	**1**	**6**	**20**	**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 Biomedical Engineering 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	Entrepren eurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professi onal Ethics	Goals (SDGs)
				L	T	P	C	CT		TA		Total	TE	PE	Total										
								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	Concepts of Environmental Studies	ES102	HSSM	2	1	0	3	50	0	25	0	75	75	0	75	150	✓				✓			6,7,8,13
5	Computational Tools for Biomedical Engineering	BE132	ESC	0	0	4	2	0	15	0	10	25	0	25	25	50	✓		✓		✓			3,4,8,9,17
6	Engineering graphics	ME103	ESC	0	0	2	1	0	15	0	10	25	0	25	25	50	✓	✓	✓					4, 8, 9
7	Basic Electronics	EC101	ESC	3	0	0	3	50	0	25	0	75	75	0	75	150	✓		✓					4,,7,8,9,11
8	Basic Electrical Engineering	EE103	ESC	3	0	2	4	50	15	25	10	100	75	25	100	200	✓	✓	✓					4,7,8,9
				16	**3**	**12**	**25**	**300**	**75**	**150**	**50**	**575**	**450**	**125**	**575**	**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)

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OEC	**Open Elective Courses**
HSSM	**Humanities, Social Sciences &**
IPC	**Internship/ Project Courses**
MC	**Mandatory Course**

*** Audit Course**