



**Integral University, Lucknow**  
**Department of Bioengineering**  
**Study and Evaluation Scheme**

**Program: B.Tech (Biotechnology)**

**Semester I**

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub. Total	Credit	Total Credits	Attributes						SDGs
				L	T	P	CT	TA	Total	ESE				Employ ability	Entrepre neurship	Skill Develop ment	Gender Equality	Environment & Sustainability	Human Value	
<b>THEORIES</b>																				
1	CH101	Chemistry	BS	3	1	0	40	20	60	40	100	3:1:0	4							
2	ES101	Environmental Studies	ES	2	1	0	40	20	60	40	100	2:1:0	3							
3	MT102	Mathematics-I in Bioengineering (BT & FT)	BS	3	1	0	40	20	60	40	100	3:1:0	4							
4	ME101	Basic Mechanical Engineering	ESA	3	1	0	40	20	60	40	100	3:1:0	4							
5	CS101	Computer Programming	ESA	3	1	0	40	20	60	40	100	3:1:0	4							
<b>PRACTICAL</b>																				
6	CH102	Chemistry Lab	BS	0	0	2	40	20	60	40	100	0:0:1	1							
7	ME102	Mechanical Engineering Lab	ESA	0	0	2	40	20	60	40	100	0:0:1	1							
8	CS102	Computer Programming Lab	ESA	0	0	2	40	20	60	40	100	0:0:1	1							
9	LN-151	Professional Comm. Lab		0	1	2	40						2							
<b>Total</b>				<b>14</b>	<b>6</b>	<b>8</b>	<b>360</b>	<b>180</b>	<b>540</b>	<b>360</b>	<b>900</b>	<b>24</b>	<b>24</b>							

### Semester II

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub. Total	Credit	Total Credits	Attributes						SDGs
				L	T	P	CT	TA	Total	ESE				Employ ability	Entrepre neurship	Skill Develop ment	Gender Equality	Environment & Sustainability	Human Value	
<b>THEORIES</b>																				
1	PY-102	Physics in Bioengineering (BT & FT)	BS	3	1	0	40	20	60	40	100	3:1:0	4							
2	LN-101	Professional Comm.-I	HM/ ES	2	1	0	40	20	60	40	100	2:1:0	3							
3	MT-113	Mathematics-II in Bioengineering (BT & FT)	BS	3	1	0	40	20	60	40	100	3:1:0	4							
4	EE-103	Basic Electrical Engineering	ESA	3	1	0	40	20	60	40	100	3:1:0	4							
5	EC-101	Basic Electronics	ESA	3	1	0	40	20	60	40	100	3:1:0	4							
6	BE-101	Introduction to Bioengineering (BT & FT)	ESA	0	1	2	40	20	60	40	100	0:1:1	2			v				3,11,12
<b>PRACTICAL</b>																				
7	PY-104	Physics Lab	BS	0	0	2	40	20	60	40	100	0:0:1	1							
8	EE-104	Electrical Engineering Lab	ESA	0	0	2	40	20	60	40	100	0:0:1	1							
9	ME-103	Engineering Graphics Lab	ESA	0	0	2	40	20	60	40	100	0:0:1	1							
<b>Total</b>				<b>14</b>	<b>6</b>	<b>8</b>	<b>360</b>	<b>180</b>	<b>540</b>	<b>360</b>	<b>900</b>	<b>24</b>	<b>24</b>							