



Year: First / Semester: First (Odd Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)	
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics		
1	B100101T/BS103	Introduction to Cell biology and genetics	Theory	Core	3	1	0	15	10	25	75	100	04			✓				✓		
2	B110101T/BS142	Fundamentals of Biochemistry	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓		✓				3 
3	B100103P/BS105	Introduction to Cell biology and genetics Lab	Practical		0	0	4	15	10	25	75	100	02	✓		✓						
4	B110102P/BS143	Analytical Biochemistry Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓						3 
5	B110205V/BS146	Basic Microbiology and Bio safety Measures	Theory + Practical	Vocational	2	0	1	-	-	-	100	100	03	✓		✓		✓	✓	✓	3  6 	
6	Z010101T/BE105	Food Nutrition and Hygiene	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓	3 	
7	A050101T/HM101	Rashtra Gaurav	Theory	Compulsory	0	0	0	0	0	0	0	0	00	✓	✓	✓		✓	✓	✓		
TOTAL					10	2	9	75	50	125	475	600	17									

Department of Biosciences
Evaluation Scheme of Under Graduate & Post Graduate Program as per NEP-2024-25 Guidelines
B.Sc. (Honours) Biochemistry
w.e.f. Session 2024-25

CERTIFICATE IN CERTIFICATE IN BIOCHEMISTRY

Year: First / Semester: Second (Even Semester)

Year: First / Semester: Second (Even Semester)																									
S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)				
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Values	Professional Ethics					
1	B100201T/BS115	Human Physiology	Theory	Core	3	1	0	15	10	25	75	100	04	✓		✓									
2	B110203T/ BS154	Clinical Biochemistry	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓				✓					
3	B100202P/BS152	Human Physiology Lab	Practical		0	0	4	15	10	25	75	100	02	✓		✓									
4	B110204P/ BS155	Clinical Biochemistry Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓				✓					
5	B030202T/MT148	Basic Mathematics and Statistics	Theory	Minor Elective	5	1	0	15	10	25	75	100	06	✓	✓	✓									
6	LN110/A040203T	Aspects & Approaches to Communication	Theory		4	2								✓		✓									
7	B100205V/BS381	Food Adulteration	Theory + Practical	Vocational	2	0	1	-	-	-	100	100	03	✓	✓	✓			✓	✓					
8	Z020201T/NS110	First Aid and Health	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓			✓	✓					
9	B100208T/BS116	Artificial Intelligence in Biological Sciences	Theory	Compulsory	0	0	0	0	0	0	0	0	00	✓	✓	✓			✓	✓					
TOTAL					15	3	9	90	60	150	550	700	23												



Integral University, Lucknow

Diploma in Biochemistry

Year: Second / Semester: Third (Odd Semester)

S. N.	Course Code	Course Title/	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)	
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics		
1	B100301T/BS207	Molecular Biology	Theory	Core	3	1	0	15	10	25	75	100	04	✓		✓						
2	B110301T/BS245	Tools and Techniques in Biochemistry	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓						
3	B100302P/BS209	Molecular Biology Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓						
4	B110302P/BS246	Biochemical Tools and Techniques Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓						
5	B020305T/CH245	Concepts of Advanced Chemistry-I	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓		✓		✓		
6	B020306P/CH246	Concepts of Advanced Chemistry-I Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓		✓		✓		
7	B100303V/BS247	Molecular diagnostics	Theory	Vocational	1	0	2	-	-	-	100	100	03	✓	✓	✓						
8	Z030301/ES225	Human Values and Environment studies	Theory	Co-curricular Compulsory	2	0	0	15	10	25	75	100	02				✓	✓	✓	✓		

TOTAL	14	3	12	105	70	175	625	800	23	
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Diploma in Biochemistry

Year: Second / Semester: Fourth (Even

Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
1	B110401T/BS254	Enzymes and hormones	Theory	Core	3	1	0	15	10	25	75	100	04			✓					
2	B100403T/BS256	Infection and immunity	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓					 
3	B110402P/BS257	Enzymes and hormones lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓		✓			
4	B100404P/BS258	Immunological Techniques Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓					 
5	B020405T/CH247	Concepts of Advanced Chemistry-II	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓		✓		✓	
6	B020406P/CH248	Concepts of Advanced Chemistry-II Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓	
7	B030402T/MT237	Numerical analysis and testing of hypothesis	Theory	Minor Elective Course	3	1	0	15	10	25	75	100	04	✓		✓					
8	BM292/F010404TA	Entrepreneurship Development	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓			✓	✓	
8	B110405V/BS259	Molecular medicine	Theory	Vocational	3	0	0	-	-	-	100	100	03	✓	✓	✓		✓		✓	 

9	Z040401	Physical Education and Yoga	Theory	Co-curricular Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓	✓	✓	✓	3 GOOD HEALTH AND WELL-BEING 
TOTAL					17	4	12	120	80	200	700	900	27							



INTEGRAL UNIVERSITY



Integral University, Lucknow

Department of Biosciences

Evaluation Scheme of Under Graduate & Post Graduate Program as per NEP-2020 Guidelines

w.e.f. Session 2023-24

B.Sc. Biochemistry

Year: Third / Semester: Fifth (Odd Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credits	Attributes								United Nations Sustainable Development Goals (SDGs)		
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics				
1	B110501T / BS344	Bioenergetics and Metabolism	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓	✓	✓		✓		✓				
2	B100503T / BS319	Genetic Engineering	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓		✓						
3	B110503T / BS345	Plant Biochemistry	Theory		3	1	0	15	10	25	75	100	04			✓		✓						
4	B110504T / BS346	Industrial and environmental biotechnology	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓		✓		✓				
5	B110502P / BS347	Metabolism Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓								
6	B100504P / BS320	Genetic Engineering Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓		✓						
7	Z050501/MT337	Analytic Ability and Digital Awareness	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓			✓	✓				
8	B100507R / BS392	Industrial visit and survey report	Practical	Core Major	0	0	8	0	0	0	100	100	04	✓	✓	✓		✓	✓	✓				
TOTAL					14	4	16	105	70	175	625	800	26											



INTEGRAL UNIVERSITY



Integral University, Lucknow
Department of Biosciences

Evaluation Scheme of Under Graduate & Post Graduate Program as per NEP-2020 Guidelines
w.e.f. Session 2022-23

B.Sc. Biochemistry

Year: Third / Semester: Sixth (Even Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credits	Attributes								United Nations Sustainable Development Goals (SDGs)	
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics			
1	B110603T / BS353	Biostatistics, Bioinformatics and Computer application in Biochemistry	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓	✓	✓		✓			8	9	
2	B110601T / BS355	Food and Nutritional Biochemistry	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓					2	3	
3	B100607T/ BS313	Bionanotechnology	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓					3		
4	B110604P/ BS354	Bioinformatics, Biostatistics and Computer application Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓					8	9	
5	B110602P/ BS356	Food and Nutritional Biochemistry Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓					2	3	
6	B100605T/ BS394	Applied Biotechnology	Theory	Major Elective Course	3	1	0	15	10	25	75	100	04	✓	✓	✓		✓	✓	✓	2	3	
7	B100606T/ BS395	Genomics, Proteomics and Metabolomics	Theory											✓	✓	✓		✓				3	9
8	Z06060/LN343	Communication Skills and Personality Development	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓			✓	✓	10	11	
9	B100608R/BS396	Research Project (minor) and seminar	Practical	Core Major	0	0	12	0	0	0	100	100	06	✓	✓	✓		✓	✓	✓	9	12	
TOTAL					14	4	20	105	70	175	625	800	28										