



Integral University, Lucknow
Department of Physics

Study and Evaluation Scheme of Under Graduate & Post Graduate Program as per NEP-2020 Guidelines
w.e.f. Session 2024-25

Degree in Science (Physics & Mathematics)

Year: Third / Semester: Fifth (Odd Semester)

S. No.	Course Code	Course Title	Type of Paper	Periods Per Week			Evaluation Scheme				Subject Total	Credit	Total Credit	Attributes						SDG	
				L	T	P	CIE			UE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment and Sustainability	Human Values		Professional Ethics
							CT	TA	CIE Total	ESE											
THEORY																					
1	B010501T/ PY311	Classical & Statistical Mechanics	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓						
2	B010502T/ PY312	Quantum Mechanics and Spectroscopy	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓						
3	B030501T/ MT320	Group and Ring Theory & Linear Algebra	Major	4	0	0	15	10	25	75	100	5:0:0	5	✓	✓						
4	(a) B030502T/ MT321 (b) B030503T/ MT322 (c) B030504T/ MT323	Opt any one of the following: (a) Number Theory & Game Theory (b) Graph Theory & Discrete Mathematics (c) Differential Geometry & Tensor Analysis	Major	4	0	0	15	10	25	75	100	5:0:0	5	✓	✓						
5	Z050501/ MT337	Analytic Ability and Digital Awareness	Minor (Co-Curricular)	2	0	0	15	10	25	75	100	2:0:0	2	✓	✓	✓		✓	✓	✓	
PRACTICAL																					
6	B010503P/ PY313	Demonstrative Aspects of Optics & Lasers	Major	0	0	4	15	10	25	75	100	0:0:2	2	✓	✓						
7	B010504R/ PY316	Physics Project-I	Major	0	0	6	0	0	0	100	100	0:0:3	3	✓	✓		✓		✓		
Total				18	0	10	90	60	150	550	700	25	25								



Integral University, Lucknow
Department of Physics

Study and Evaluation Scheme of Under Graduate & Post Graduate Program as per NEP-2020 Guidelines
w.e.f. Session 2024-25

Degree in Science (Physics & Electronics)

Year: Third / Semester: Sixth (Even Semester)

S. No.	Course Code	Course Title	Type of Paper	Periods Per Week			Evaluation Scheme				Subject Total	Credit	Total Credit	Attributes							SDG
							CIE			UE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment and Sustainability	Human Values	Professional Ethics	
				L	T	P	CT	TA	CIE Total	ESE											
THEORY																					
1	B010601T/ PY314	Solid State and Nuclear Physics	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓						
2	B010602T/ PY315	Analog & Digital Principles & Applications	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓						
3	B140601T/ EC394	Communication Electronics	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓						
4	B140602T/ EC395	Linear Integrated Circui	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓						
5	Z060601/ LN340	Communication Skills and Personality Development	Minor (Co-Curricular)	2	0	0	15	10	25	75	100	2:0:0	2	✓	✓	✓	✓	✓	✓		
PRACTICAL																					
6	B010603P/ PY317	Analog & Digital Circuits	Major	0	0	4	15	10	25	75	100	0:0:2	2	✓	✓						
7	B140603P/ EC396	IC and Communication Lab	Major	0	0	4	15	10	25	75	100	0:0:2	2	✓	✓						
8	B010604R/ PY318	Physics Project-II	Major	0	0	6	0	0	0	100	100	0:0:3	3	✓	✓	✓	✓	✓			
Total				18	0	14	105	70	175	625	800	25	25								



Integral University, Lucknow

Department of Physics

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

w.e.f. Session 2024-25

Degree in Science (Mathematics & Electronics)

Year: Third / Semester: Sixth (Even Semester)

S. No.	Course Code	Course Title	Type of Paper	Periods Per Week			Evaluation Scheme				Subject Total	Credit	Total Credit	Attributes						SDG
							CIE			UE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment and Sustainability	Human Values	
				L	T	P	CT	TA	CIE Total	ESE										
THEORY																				
1	B030601T/MT324	Metric Space & Complex Analysis	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓					12 RESPONSIBLE CONSUMPTION AND PRODUCTION
2	B030602T/MT325	Numerical Analysis & Operations Research	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓					9 INDUSTRY INNOVATION AND INFRASTRUCTURE, 12 RESPONSIBLE CONSUMPTION AND PRODUCTION
3	B140601T/EC394	Communication Electronics	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓					12 RESPONSIBLE CONSUMPTION AND PRODUCTION
4	B140602T/EC395	Linear Integrated Circuit	Major	4	0	0	15	10	25	75	100	4:0:0	4	✓	✓					9 INDUSTRY INNOVATION AND INFRASTRUCTURE, 12 RESPONSIBLE CONSUMPTION AND PRODUCTION
5	Z060601/LN340	Communication Skills and Personality Development	Minor (Co-Curricular)	2	0	0	15	10	25	75	100	2:0:0	2	✓	✓	✓	✓	✓	✓	3 GOOD HEALTH AND WELL-BEING
PRACTICAL																				
6	B140603P/EC396	IC and Communication Lab	Major	0	0	4	15	10	25	75	100	0:0:2	2	✓	✓					12 RESPONSIBLE CONSUMPTION AND PRODUCTION
7	B030603P/MT326	Practical on Numerical analysis using Mathematica /MATLAB	Major	0	0	4	15	10	25	75	100	0:0:2	2	✓	✓		✓		✓	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
8	B140604R/EC398	Electronics Project-II	Major	0	0	6	0	0	0	100	100	0:0:3	3	✓	✓		✓		✓	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
Total				18	0	14	105	70	175	625	800	25	25							