



Integral University, Lucknow
Department of Mathematics & Statistics
Study and Evaluation Scheme (w.e.f. 2020-21)

B. Sc. (Physics, Mathematics, Statistics)

IIIrd year / Vth Semester

(Physics, Mathematics)

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub. Total	Credit	Total Credits	Attributes						SDG		
				L	T	P	CT	TA	Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value		Professional Ethics	
THEORIES																						
1	PY301	Elements of Quantum Mechanics, Atomic & Molecular Spectra	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓					4 QUALITY EDUCATION	
2	PY302	Classical Mechanics, Relativity & Statistical Physics	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓					4 QUALITY EDUCATION	
3	PY303	Solid State, Nuclear & Particle Physics	Core	2	1	0	40	20	60	40	100	2:1:0	3	✓		✓					4 QUALITY EDUCATION	
4	MT301	Advanced Calculus	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓					9 RESPONSIBLE CONSUMPTION & PRODUCTION	
5	MT318	Metric Space	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓					9 RESPONSIBLE CONSUMPTION & PRODUCTION	
6	MT303	Number Theory	Core	2	1	0	40	20	60	40	100	2:1:0	3	✓		✓					9 RESPONSIBLE CONSUMPTION & PRODUCTION	
PRACTICAL																						
7	MT319	MATLAB	Practical	0	0	2	40	20	60	40	100	0:0:1	1	✓		✓					9 RESPONSIBLE CONSUMPTION & PRODUCTION	
8	PY304	Advance Electricity & Magnetism Lab	Practical	0	0	2	40	20	60	40	100	0:0:1	1	✓		✓					12 RESPONSIBLE CONSUMPTION & PRODUCTION	
TOTAL				16	6	4	320	160	480	320	800	24	24									

CT = Class Test; TA = Teacher's Assessment; ESE = End Semester Examination; Sessional = CT + TA; Subject Total = Sessional + ESE



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				L	T	P	CT	TA	Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics					
THEORIES																									
1	MT309	Fundamental of Operations Research	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓	✓	✓									
2	MT310	Demography & Vital Statistics	Core	2	1	0	40	20	60	40	100	2:1:0	3	✓		✓					✓				
3	MT313	General Linear Model	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓	✓	✓									
4	MT301	Advanced Calculus	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓									
5	MT318	Metric Space	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓									
6	MT303	Number Theory	Core	2	1	0	40	20	60	40	100	2:1:0	3	✓		✓									
PRACTICAL																									
7	MT319	MATLAB	Practical	0	0	2	40	20	60	40	100	0:0:1	1	✓		✓									
8	MT312	Operations Research & Demography Lab	Practical	0	0	2	40	20	60	40	100	0:0:1	1	✓	✓	✓									
TOTAL				16	6	4	320	160	480	320	800	24	24												

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THEORIES																						
1	PY301	Elements Of Quantum Mechanics, Atomic & Molecular Spectra	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓					4 QUALITY EDUCATION	
2	PY302	Classical Mechanics, Relativity & Statistical Physics	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓					4 QUALITY EDUCATION	
3	PY303	Solid State, Nuclear & Particle Physics	Core	2	1	0	40	20	60	40	100	2:1:0	3	✓		✓					4 QUALITY EDUCATION	
4	MT309	Fundamental of Operations Research	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓	✓	✓					12 RESPONSIBLE CONSUMPTION AND PRODUCTION	
5	MT310	Demography & Vital Statistics	Core	2	1	0	40	20	60	40	100	2:1:0	3	✓		✓				✓	12 RESPONSIBLE CONSUMPTION AND PRODUCTION	
6	MT313	General Linear Model	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓	✓	✓					12 RESPONSIBLE CONSUMPTION AND PRODUCTION	
PRACTICAL																						
7	PY304	Advance Electricity & Magnetism Lab	Practical	0	0	2	40	20	60	40	100	0:0:1	1	✓		✓					12 RESPONSIBLE CONSUMPTION AND PRODUCTION	
8	MT312	Operations Research & Demography Lab	Practical	0	0	2	40	20	60	40	100	0:0:1	1	✓	✓	✓					12 RESPONSIBLE CONSUMPTION AND PRODUCTION	
TOTAL				16	6	4	320	160	480	320	800	24	24									

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				L	T	P	CT	TA	Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics				
THEORIES																								
1	PY305	Applied Electronics	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓							11 SUSTAINABLE CITIES AND COMMUNITIES	
2	PY307	Mathematical Methods in Physics (Elective)	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓							4 QUALITY EDUCATION	
	PY308	Advanced Solid State Physics(Elective)	Core											✓		✓								
3	MT305	Statics & Dynamics	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓							9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	
4	MT306	Analysis	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓							9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	
5	MT307	Basic Mathematical Modelling (Elective)	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓								12 RESPONSIBLE CONSUMPTION AND PRODUCTION
	MT308	Linear Programming (Elective)	Core											✓	✓	✓								
6	PY309	UG Physics Project	Core	0	0	8	0	0	0	200	200	0:0:4	4	✓		✓		✓			✓		11 SUSTAINABLE CITIES AND COMMUNITIES	
Total				15	5	8	200	100	300	400	700	24	24											

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				L	T	P	CT	TA	Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value		Professional Ethics		
THEORIES																							
1	MT311	Theory of Estimation & Reliability	Core	3	1	0	40	20	60	40	100	3:1:0	4	√		√						12 RESPONSIBLE CONSUMPTION AND PRODUCTION	
2	MT314	Econometrics (Elective)	Core	3	1	0	40	20	60	40	100	3:1:0	4	√	√	√						8 DECENT WORK AND ECONOMIC GROWTH	
	MT315	Official Statistics (Elective)	Core											√							10 INDUSTRY, INNOVATION AND INFRASTRUCTURE		
3	MT305	Statics & Dynamics	Core	3	1	0	40	20	60	40	100	3:1:0	4	√		√						9 RESPONSIBLE CONSUMPTION AND PRODUCTION	
4	MT306	Analysis	Core	3	1	0	40	20	60	40	100	3:1:0	4	√		√						9 RESPONSIBLE CONSUMPTION AND PRODUCTION	
5	MT307	Basic Mathematical Modelling (Elective)	Core	3	1	0	40	20	60	40	100	3:1:0	4	√		√							12 RESPONSIBLE CONSUMPTION AND PRODUCTION
	MT308	Linear Programming (Elective)	Core											√	√	√						12 RESPONSIBLE CONSUMPTION AND PRODUCTION	
6	MT316	Field Work (Data Collection & Analysis)	Core	0	0	8	0	0	0	200	200	0:0:4	4	√		√					√	9 DECENT WORK AND ECONOMIC GROWTH	
Total				15	5	8	200	100	300	400	700	24	24										

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THEORIES																								
1	PY305	Applied Electronics	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓						11		
2	MT311	Theory of Estimation & Reliability	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓							12	
3	MT314	Econometrics (Elective)	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓	✓	✓							8	
	MT315	Official Statistics (Elective)	Core											✓									10	
4	PY307	Mathematical Methods in Physics (Elective)	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓							4	
	PY308	Advanced Solid State Physics(Elective)												Core	✓		✓							12
5	PY309	UG Physics Project	Core	0	0	8	0	0	0	200	200	0:0:4	4	✓		✓		✓			✓		11	
	MT316	Field Work (Data Collection & Analysis)	Core											✓		✓					✓		9	
6	PY306	Physics of Materials	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓							9	
	MT317	Project Management & Network Flows	Core											✓	✓	✓								
Total				15	5	8	200	100	300	400	700	24	24											

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