



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

B. Sc. (Physics, Mathematics, Computer Science)

IIIrd year / Vth Semester

(Computer Science, 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	CS321	Object Oriented Programming Using Java	Core	3	1	0	40	20	60	40	100	3:1:0	4	√		√								
2	CS323	Fundamentals of Software Engineering	Core	3	1	0	40	20	60	40	100	3:1:0	4			√							 	
3	CS324	Computer Graphics & Multimedia	Core	2	1	0	40	20	60	40	100	2:1:0	3			√							 	
4	MT301	Advanced Calculus	Core	3	1	0	40	20	60	40	100	3:1:0	4	√		√								
5	MT302	Mathematical Statistics	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	MT304	Statistical Techniques Lab	Practical	0	0	2	40	20	60	40	100	0:0:1	1	√		√								
8	CS322	Object Oriented Programming using Java 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										

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	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	CS321	Object Oriented programming using Java	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓					9 INDUSTRY INNOVATION AND INFRASTRUCTURE	
5	CS323	Fundamentals of Software Engineering	Core	3	1	0	40	20	60	40	100	3:1:0	4			✓					4 QUALITY EDUCATION 9 INDUSTRY INNOVATION AND INFRASTRUCTURE	
6	CS324	Computer Graphics & Multimedia	Core	2	1	0	40	20	60	40	100	2:1:0	3			✓					4 QUALITY EDUCATION 9 INDUSTRY INNOVATION AND INFRASTRUCTURE	
PRACTICAL																						
7	PY304	Advance Electricity & Magnetism Lab	Practical	0	0	2	40	20	60	40	100	0:0:1	1	✓		✓					12 RESPONSIBLE CONSUMER PROTECTION	
8	CS322	Object Oriented programming using Java Lab	Practical	0	0	2	40	20	60	40	100	0:0:1	1	✓		✓					9 INDUSTRY INNOVATION AND INFRASTRUCTURE	
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	✓		✓								
2	PY302	Classical Mechanics, Relativity & Statistical Physics	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓								
3	PY303	Solid State, Nuclear & Particle Physics	Core	2	1	0	40	20	60	40	100	2:1:0	3	✓		✓								
4	MT301	Advanced Calculus	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓								
5	MT302	Mathematical Statistics	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	MT304	Statistical Techniques Lab	Practical	0	0	2	40	20	60	40	100	0:0:1	1	✓		✓								
8	PY304	Advance Electricity & Magnetism 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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				L	T	P	CT	TA	Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value		Professional Ethics
THEORIES																					
1	CS325	Introduction to Open Source Technology	Core	3	1	0	40	20	60	40	100	3:1:0	4	√	√						
2	CS326	ERP(Elective)	Core	3	1	0	40	20	60	40	100	3:1:0	4			√					
	CS327	HCI(Elective)	Core													√					
	CS328	E-Commerce (Elective)	Core													√					
3	MT305	Statics & Dynamics	Core	3	1	0	40	20	60	40	100	3:1:0	4	√		√					
4	MT306	Analysis	Core	3	1	0	40	20	60	40	100	3:1:0	4								
5	MT307	Basic Mathematical Modelling (Elective)	Core	3	1	0	40	20	60	40	100	3:1:0	4	√		√					
	MT308	Linear Programming (Elective)	Core											√	√	√					
6	CS330	UG CS Project	Core	0	0	8	0	0	0	200	200	0:0:4	4	√	√	√				 	
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	PY305	Applied Electronics	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓							
2	CS325	Introduction to Open Source Technology	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓							
3	CS326	ERP(Elective)	Core	3	1	0	40	20	60	40	100	3:1:0	4			✓							
	CS327	HCI(Elective)	Core																				
	CS328	E-Commerce(Elective)	Core																				
5	PY307	Mathematical Methods in Physics (Elective)	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓		✓							
	PY308	Advanced Solid State Physics(Elective)												✓		✓							
6	PY309	UG Physics Project	Core	0	0	8	0	0	0	200	200	0:0:4	4	✓		✓		✓		✓			
	CS330	UG CS Project	Core											✓	✓	✓							
7	CS329	Web Technologies and Applications	Core	3	1	0	40	20	60	40	100	3:1:0	4	✓	✓	✓							
	PY306	Physics of Materials	Core											✓		✓							
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 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											✓		✓				12 RESPONSIBLE CONSUMPTION AND PRODUCTION	
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											✓	✓	✓				12 RESPONSIBLE CONSUMPTION AND PRODUCTION	
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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