



Integral University, Lucknow

Department of Mathematics & Statistics

Evaluation Scheme of Undergraduate & Post Graduate Program as per NEP-2020 Guidelines
 B.Sc. (Hons.) STATISTICS Four Year program with Double Majors (Mathematics/Computer Science)
 w.e.f. Session 2024-25

Certificate in Science (Statistics, Mathematics/Computer Science)

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 (T.A)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics				
1	B060101T/MT139	Descriptive Statistics (Univariate) & Theory of Probability (T4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓		✓								
2	B060101P/MT140	Descriptive Data Analysis Lab (Univariate)(P2)	Practical	Core Major (Compulsory)	0	0	4	15	10	25	75	100	02	✓		✓								
3	B030101T/MT136	Differential Calculus & Integral Calculus (T4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	6	✓										
4	B030102P/MT137	Practical using Mathematica /MATLAB	Practical	Core Major (Compulsory)	0	0	4	15	10	25	75	100		✓										
5	B070101T/CS127	Problem Solving using Computer	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100		✓		✓					✓			
6	B070102P/CS128	Software Lab using Python	Practical	Core Major (Compulsory)	0	0	4	15	10	25	75	100	✓		✓									
7	I030103V/MT143	Introduction to LaTeX OR MOOCs/SWAYAM etc	Theory+ Practical	Vocational	2	0	2	-	-	-	100	100	03	✓		✓								
8	Z010101T/BE105	Food, Nutrition and Hygiene	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓				
9	A050101T/HM101	Rashtra Gaurav		Audit Course*	2	0	0	0	0	0	100	100	00	✓	✓	✓		✓	✓	✓				
TOTAL					15	3	14	105	70	175	725	900	17											



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Certificate in Science (Statistics, Mathematics/Computer Science)

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 Value		Professional Ethics		
1	B060201T/MT141	Descriptive Statistics (Bivariate) & Probability Distributions(T4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓		✓							
2	B060202P/MT142	Descriptive Data Analysis Lab (Bivariate) (P2)	Practical	Core Major (Compulsory)	0	0	4	15	10	25	75	100	02	✓		✓							
3	B030201T/MT138:	Matrices and Differential Equations & Geometry (T6)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	06	✓									
4	B070201T/CS129	Database Management Systems (T-4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100		✓		✓				✓			
5	B070202P/CS130	Database Management Systems Lab(P-2)	Practical	Core Major (Compulsory)	0	0	4	15	10	25	75	100		✓									
6	ES115/BM186 OR A040209T/LN109	Fundamentals of Environmental Science OR Basics of Communication		Minor elective	3	1	0	15	10	25	75	100	06	✓	✓	✓		✓	✓	✓			
7	I030202V/MT144	LaTeX -Scientific Writing OR MOOCs/SWAYAM etc.	Theory+ Practical	Vocational	2	0	2	-	-	-	100	100	03	✓		✓							
8	Z020201T/NS110	First Aid and Health (T-2)	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓			
9	B060203T/MT153	Application of Artificial Intelligence in Mathematical Sciences		Audit Course*										✓	✓	✓		✓	✓	✓			
TOTAL					17	5	10	105	70	175	625	800	23										



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Diploma in Science (Statistics, Mathematics/ Computer Science)

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	B060301T/MT230	Theory of Estimation & Sampling Survey (T-4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓		✓								
	B060302P/MT231	Sampling Survey Lab (P-2)	Practical	Core Major (Compulsory)	0	0	4	15	10	25	75	100	02	✓		✓								
2	B030301T/MT228	Algebra & Mathematical Methods (T6)	Theory	Core Major (Compulsory)	5	1	0	15	10	25	75	100	06	✓										
3	B070301T/CS273	Operating Systems (T-4)	Theory		3	1	0	15	10	25	75	100		✓		✓					✓			
5	B070302P/CS274	Operating Systems Lab (P-2)	Practical		0	0	4	15	10	25	75	100		✓		✓				✓				
6	I030302V/MT234	Introduction to R OR MOOCs/SWAYAM etc.	Theory+ Practical	Vocational	2	0	2	-	-	-	100	100	03	✓		✓								
7	A04040ST/LN234	Regional Languages***	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓				
TOTAL					15	3	10	90	60	150	550	700	17											



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Diploma in Science (Statistics, Mathematics/Computer Science)

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	B060401T/MT232	Testing of Hypothesis & Applied Statistics	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓	✓							
2	B060402P/MT233	Test of Significance & Applied Statistics Lab	Practical	Core Major (Compulsory)	0	0	4	15	10	25	75	100	02	✓	✓							
3	B030401T/MT229:	Differential Equation & Mechanics	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	06	✓								
4	B070401T/CS275	Computer System Architecture	Theory		3	1	0	15	10	25	75	100		✓	✓					✓		
5	B070402P/CS276	Computer System Architecture Lab	Practical		0	0	4	15	10	25	75	100		✓	✓					✓		
6	A040405T/LN234	Effective Professional Communication Skills OR EVS/BS	Theory	Minor elective	3	1	0	15	10	25	75	100	06	✓	✓	✓			✓	✓		
7	Z040401T/PH201	Physical Education and Yoga	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓		
8	B030505R/MT333	Statistics Project-1	Research Project	Core Major (Compulsory)	0	0	4	-	-	-	100	100	03	✓	✓							
TOTAL					14	4	12	105	70	175	625	800	23									



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B.Sc. (Statistics and Mathematics/ Computer Science)

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 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	B060501T/MT327	Multivariate Analysis & Non- Parametric Methods (T-4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓		✓								
2	B060502T/ MT328	Analysis of Variance & Design of Experiments (T-4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓		✓								
3	B060503P/ MT329	Non-Parametric Methods & Design of Experiments Lab (P-2)	Practical	Core Major (Compulsory)	0	0	4	15	10	25	75	100	02	✓		✓								
4	B030501T/MT320:	Group and Ring Theory & Linear Algebra (T5)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	10	✓		✓								
5	B030502T//MT321	Number Theory & Game Theory (T5) OR	Theory	Major(Elective)	3	1	0	15	10	25	75	100		✓		✓								
	B030503T /MT322	Graph Theory & Discrete Mathematics OR																						
	B030504T/MT323	Differential Geometry & Tensor Analysis (T5)																						
6	B070501T/CS365	Analysis of Algorithms and Data Structures (T-4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100		✓										
7	B070502T/CS366	Soft Computing (T-4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100		✓										
8	B070503P/CS367	Lab on Algorithms and Data Structures with C++ (P-2)	Practical	Core Major (Compulsory)	0	0	4	15	10	25	75	100		✓		✓		✓		✓				
TOTAL					18	6	8	120	80	200	600	800	20											



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B.Sc. (Statistics and Mathematics/ Computer Science)

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 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	B060601T/ MT330	Statistical Computing & Introduction to Statistical Software (T-4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓		✓										
2	B060602T/ MT331	Operations Research (T-4)	Theory		3	1	0	15	10	25	75	100	04	✓		✓										
3	B060603P/ MT332	Operations Research & Statistical Computing Lab (P-2)	Practical		0	0	4	15	10	25	75	100	02	✓		✓										
4	B030601T/MT324	Metric Space & Complex Analysis (T4)	Theory	Major(Elective)	3	1	0	15	10	25	75	100	10	✓		✓										
5	B030602T/MT325	Numerical Analysis & Operations Research (T4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100		✓		✓										
6	B030603P/MT326	Numerical Analysis using Mathematica/Matlab (P2)	Practical		0	0	4	15	10	25	75	100		✓		✓										
7	B070601T/CS368	Data Communication and Computer Networks (T-4)	Theory		3	1	0	15	10	25	75	100		✓	✓	✓		✓	✓	✓						
8	B070602T/CS369	Cyber Security & Cyber Laws (T-4)	Theory		3	1	0	15	10	25	75	100		✓	✓	✓		✓	✓	✓						
9	B070603P/CS370	Lab on Computer Networks (P-2)	Practical	Core Major	0	0	4	15	10	25	75	100	✓		✓		✓									
TOTAL					24	6	12	135	90	225	675	900	20													



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B.Sc. (Statistics and Mathematics/Computer Science)

Year: Fourth / Semester: Eighth (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	B030804T/MT441	Advanced Linear Algebra (T-4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓		✓							
2	B060801T/MT427	Linear Models & Regression Analysis (T-4)	Theory		3	1	0	15	10	25	75	100	04	✓		✓							
3	B060804P/MT431	Data Analytics with SPSS (P-4)	Practical		0	0	4	15	10	25	75	100	04	✓		✓							
4	B060802T/MT428	Design & Analysis of Experiments (T-4)	Theory		3	1	0	15	10	25	75	100	04	✓									
5	B060803T/MT430	Non-Parametric & Order Statistics (T-4)	Theory		3	1	0	15	10	25	75	100	04	✓									
TOTAL					12	4	4	75	50	125	375	500	20										



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 w.e.f. Session 2024-25

B.Sc. (Statistics and Mathematics/Computer Science)

Year: Fourth / Semester: Seventh (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	B060701T/MT422	Sample Surveys (T-4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓										
2	B060704P/MT425	Sample Surveys and R – programming Lab (P-4)	Practical		0	0	4	15	10	25	75	100	04	✓										
3	B060702T/MT423	Probability Theory (T-4)	Theory		3	1	0	15	10	25	75	100	04	✓		✓								
4	B060703T/MT424	Reliability Theory (T-4)	Theory		3	1	0	15	10	25	75	100	04	✓		✓						✓		
5	B060705R/MT445	Statistics Research Project-1 (R-4)	Research Project		0	0	4	-	-	-	-	100	04	✓	✓	✓		✓	✓	✓				
TOTAL					9	3	8	60	40	100	300	500	20											



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B.Sc. (Statistics and Mathematics/Computer Science)

Year: Fourth / Semester: Eighth (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	B060801T/MT427	Linear Models & Regression Analysis (T-4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓		✓									
2	B060804R/MT431	Data Analytics with SPSS (P-4)	Practical		0	0	4	15	10	25	75	100	04	✓		✓									
3	B060802/MT428	Design & Analysis of Experiments (T-4)	Theory		3	1	0	15	10	25	75	100	04	✓											
4	B060803T/MT430	Non-Parametric & Order Statistics (T-4)	Theory		3	1	0	15	10	25	75	100	04	✓											
5	B060805R/MT446	Statistics Research Project-2 (R-4)	Theory		0	0	4	-	-	-	100	100	04	✓		✓		✓		✓					
TOTAL					9	3	8	60	40	100	300	500	20												



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B.Sc. (Statistics and Mathematics/Computer Science)

Year: Fifth / Semester: Ninth (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	B060901T/MT548	Statistical Inference (T-4)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓		✓						
2	B060902T/MT522	Demography (T-4)	Theory		3	1	0	15	10	25	75	100	04	✓		✓						
3	B060903T/MT523	Statistical Process & Product Control (T-4)	Theory		3	1	0	15	10	25	75	100	04	✓								
4	B060905R/MT526	Demography and Statistical Process & Product Control lab (P-4)	Practical		0	0	4	15	10	25	75	100	04	✓		✓						
5	B060906R/MT550	Statistics Research Project-3 (R-4)	Project		0	0	4	-	-	-	100	100	04	✓		✓		✓		✓		
TOTAL					9	3	8	60	40	100	400	500	20									



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B.Sc. (Statistics and Mathematics/Computer Science)

Year: Fifth / Semester: Tenth (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	B061001T/MT529	Multivariate Analysis (T-5)	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓		✓									
2	B061002T/MT530	Stochastic Processes (T-5)	Theory		3	1	0	15	10	25	75	100	04	✓											
3	B061003T/MT549	Advanced Operations Research (T-5)	Theory		3	1	0	15	10	25	75	100	04	✓											
4	B061004P/MT550	Multivariate Analysis Lab (P-4)	Practical		0	0	4	15	10	25	75	100	04	✓		✓									
5	B061005R/MT551	Statistics Research Project 4 (R-4)	Project		0	0	4	0	0	0	100	100	04	✓		✓		✓		✓					
TOTAL					9	3	8	60	40	100	300	500	20												