Program Structure of B.Sc. Honours in Statistics/B.Sc. Honours with Research in Statistics + 1 OR 2 Year PG

(With Effect from: 2024– 25)

Certificate in Statistics **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	
Theory																					
1	B060101T/ MT139	Descriptive Statistics (Univariate) & Theory of Probability	Theory	Major	3	1	0	15	10	25	75	100	04	✓		✓				✓	
2	B060103T/ MT154	Indian Official Statistics	Theory		3	1	0	15	10	25	75	100	04	✓		✓				✓	
3	A050101T/ HM101	Rashtra Gaurav	Theory	Audit Course	2	0	0	15	10	25	75	100	00	✓		✓				✓	
4	I030103V/ MT143	Introduction to LaTeX	Theory+ Practical	Vocational	2	0	2	-	-	-	100	100	03	✓		✓					
5	Z010101T/BE105	Food Nutrition and Hygiene	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓	
Practical																					
6	B060104P/ MT155	Descriptive Statistics Lab (Univariate)	Practical	Major	0	0	8	15	10	25	75	100	04	✓	✓	✓		✓	✓	✓	
				TOTAL	**12**	**2**	**10**	**75**	**50**	**125**	**475**	**600**	**17**								

Program Structure of B.Sc. Honours in Statistics/B.Sc. Honours with Research in Statistics + 1 OR 2 Year PG

(With Effect from: 2024– 25)

Certificate in Statistics **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	
Theory																					
1	B060201T/ MT141	Descriptive Statistics (Bivariate) & Probability Distributions	Theory	Major	3	1	0	15	10	25	75	100	04	✓		✓				✓	
2	B060203T/ MT156	Actuarial Statistics	Theory		3	1	0	15	10	25	75	100	04	✓		✓				✓	
3	B030201T/ MT138	Matrices and Differential Equations & Geometry	Theory	Minor	4	2	0	15	10	25	75	100	06	✓		✓				✓	
	B070201T/ CS129	Database management systems	Theory	Minor	3	1	0	15	10	25	75	100		✓		✓				✓	
	B070202P/ CS130	Database management systems Lab	Practical		0	0	4	15	10	25	75	100		✓		✓				✓	
4	B030201T/ MT153	Applications of Artificial Intelligence in Mathematical Sciences	Theory	Audit Course	2	0	0	15	10	25	75	100	00	✓		✓				✓	
5	I030202V/ MT144	LaTeX – Scientific Writing	Theory+ Practical	Vocational	2	0	2	-	-	-	100	100	03	✓		✓					
6	Z020201/NS110	First Aid and Health	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓	
Practical																					
7	B060204P/ MT157	Descriptive Statistics Lab (Bivariate)	Practical	Major	0	0	8	15	10	25	75	100	04	✓		✓				✓	
				TOTAL	**19**	**5**	**14**	**120**	**80**	**200**	**700**	**900**	**23**								

Program Structure of B.Sc. Honours in Statistics/B.Sc. Honours with Research in Statistics + 1 OR 2 Year PG

(With Effect from: 2024– 25)

Diploma in Statistics **Year: Second/ Semester: Third (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	
Theory																					
1	B060301T/ MT230	Theory of Estimation & Sampling Survey	Theory	Major	3	1	0	15	10	25	75	100	04	✓		✓				✓	
2	B060303T/ MT238	Introduction to MATLAB (T4)	Theory		3	1	0	15	10	25	75	100	04	✓		✓				✓	
3	I030302V/ MT234	Introduction to R	Theory+ Practical	Vocational	2	0	2	-	-	-	100	100	03	✓		✓					
4	B030301T/ MT228	Algebra & Mathematical Methods	Theory	Minor	4	2	0	15	10	25	75	100	06	✓		✓					
	B070301T/CS273	Operating System	Theory		3	1	0	15	10	25	75	100		✓		✓					
	B070302P/CS274	Operating System Lab	Practical		0	0	4	15	10	25	75	100		✓		✓					
5	Z030301/ES225	Human Values and Environment studies	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓	
Practical																					
6	B060304P/ MT239	Sampling Methods Lab	Practical	Major	0	0	8	15	10	25	75	100	04	✓		✓				✓	
				TOTAL	**17**	**5**	**14**	**105**	**70**	**175**	**625**	**800**	**23**								

Program Structure of B.Sc. Honours in Statistics/B.Sc. Honours with Research in Statistics + 1 OR 2 Year PG

(With Effect from: 2024– 25)

Diploma in Statistics **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	
Theory																					
1	B060401T/ MT232	Testing of Hypothesis & Applied Statistics	Theory	Major	3	1	0	15	10	25	75	100	04	✓		✓				✓	
2	B060403T/ MT240	Measures Theory	Theory		3	1	0	15	10	25	75	100	04	✓		✓				✓	
3	I030402V/ MT235	Introduction to SPSS	Theory+ Practical	Vocational	2	0	2	-	-	-	100	100	03	✓		✓					
4	Z040401	Physical Education and Yoga	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓	
Practical																					
5	B060404P/ MT241	Testing of Hypothesis and Applied Statistical Lab			0	0	8	15	10	25	75	100	04	✓		✓				✓	
				TOTAL	**10**	**2**	**10**	**60**	**40**	**100**	**400**	**500**	**17**								

Program Structure of B.Sc. Honours in Statistics/B.Sc. Honours with Research in Statistics + 1 OR 2 Year PG

(With Effect from: 2024– 25)

B.Sc. (Honours in Statistics) **Year: Third / Semester: Fifth (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	
Theory																					
1	B060501T/ MT327	Multivariate Analysis & Non-Parametric Methods	Theory	Major	3	1	0	15	10	25	75	100	04	✓		✓					
2	B060502T/ MT328	Analysis of Variance & Design of Experiments	Theory		3	1	0	15	10	25	75	100	04			✓		✓	✓		
3	B060504T/ MT337	Reliability Theory & Survival Analysis	Theory		3	1	0	15	10	25	75	100	04	✓		✓					
4	B030503T	Graph Theory & Discrete Mathematics	Theory		3	1	0	15	10	25	75	100	04	✓		✓					
Practical																					
5	B060505P/ MT338	Non-Parametric Methods & Experimental Design Lab	Practical	Major	0	0	8	15	10	25	75	100	04	✓		✓		✓		✓	
6	B030503R/ MT335	Statistics Project-1	Project	Research project	0	0	5	0	0	0	100	100	05	✓		✓		✓		✓	
				TOTAL	**12**	**4**	**13**	**75**	**50**	**125**	**475**	**600**	**25**								

Program Structure of B.Sc. Honours in Statistics/B.Sc. Honours with Research in Statistics + 1 OR 2 Year PG

(With Effect from: 2024– 25)

B.Sc. (Honours in Statistics) **Year: Third / Semester: Six (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	
Theory																					
1	B060602T/ MT331	Operations Research	Theory	Major	3	1	0	15	10	25	75	100	04	✓	✓	✓					
2	B060604T/ MT339	Linear Models & Econometrics	Theory		3	1	0	15	10	25	75	100	04	✓		✓			✓		
3	B060605T/ MT340	Inventory Management & Queuing Theory	Theory		3	1	0	15	10	25	75	100	04	✓		✓			✓		
4	B060607T/ MT317	Project Management & Network Flows	Theory		3	1	0	15	10	25	75	100	04	✓		✓			✓		
Practical																					
5	B060606P/ MT341	Operations Research Lab	Practical	Major	0	0	8	15	10	25	75	100	04		✓		✓			✓	
6	B030604R/ MT336	Statistics Project-2	Project	Research project	0	0	5	0	0	0	100	100	05	✓		✓		✓		✓	
				TOTAL	**12**	**4**	**13**	**75**	**50**	**125**	**475**	**600**	**25**								

Award of Degree

Case 1: If any candidate having plain B.Sc. Degree takes admission in 4th Year in Integral University inany one of those subjects which they had in their 3rd Year and then makeexit after 4th Year, then he/she will be awarded with

- **a.** B.Sc. (H) degree in 4th Year (Applicable to all candidates) in that subject
- **b.** B.Sc. (H) with Research degree in 4th Year in that subject (Applicable to those whose CGPA of first 3 years i.e. B.Sc. degree is > 7.5)

Case 2: If any candidate having Three Years B.Sc. (H) Degree takes admission in 4th Year in Integral Universityin that subject and make exit after 4th Year then he/she will be awarded with

- **a.** B.Sc. (H) with Research Degree after 4th Year (Applicable to those whose CGPA > 7.5).
- **b.** They will not get any degree if they make exit after 4th Year (Applicable to those whose CGPA < 7.5). Rather, they will get Master's Degree if they complete 5th Year.