

SCHOOL OF STATISTICS

PROGRAMME CODE: ST5A

PROGRAMME TITLE: M.A./M.Sc. (Statistics)

OBJECTIVES

- To prepare the students to understand to take decisions under uncertainties.
- Students can expect to have a workable knowledge of R-programming and SPSS.
- To impart theoretical and practical knowledge of statistics big data.

ELIGIBILITY

B.Sc./B.A./B.C.A. (With Mathematics /Statistics as a major paper in all the three years) with minimum 50% marks

AGE LIMIT: No Age Limit.

ADMISSIONPROCEDURE

Admission will be done through Common Entrance Test (CET -2019).

SEATS: 40 (reservation as per state Govt. rules).

Course	Total Seats	UR		ST		SC		OBC		NRI	PH	JKR	JKM	EW	
		O	F	O	F	O	F	O	F					T	NT
MA/M. Sc. (Statistics)	30	8	5	4	2	3	2	3	1	2	1	1	1	1	1

UR_OP-Unreserved Open, UR_F-Unreserved Female, ST_OP-Scheduled Tribe Open, ST_F-Scheduled Tribe Female, SC_OP-Scheduled Caste Open, SC_F-Scheduled Caste Female, OBC_OP-OBC Open, OBC_F-OBC Female, NRI-Non Residing Indian, PH-Physically Handicapped, JKR-Jammu&Kashmir Resident, JKM-Jammu&Kashmir Migrant, EWT-Employee Ward Teaching, EWNT-Employee Ward Non-Teaching staff.

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DURATION: Four Semesters (Two Years)

FEE STRUCTURE (2020-22)

Semester	Academic Fee	Development & Maintenance Fee	Students' Services Fee		Examination Fee	Total (Rs.)	
			Boys	Girls		Boys	Girls
First	2500	2000	3300	3111	2500	10300	10111
Second	2500	2000	2911	2722	2500	9911	9722
Third	2500	2000	3300	3111	2500	10300	10111
Fourth	2500	2000	2911	2722	2500	9911	9722

- Caution money (Refundable) of Rs. 4000/- will be charged additionally in the first semester.
- Alumni Fee of Rs.500/- will be charged extra in the first semester.
- If a student repeats a paper(s) in a semester, an additional fee of Rs.500/- per paper shall be payable.
- For NRI/FN/PIO Candidates, a fee of US\$ 3500 Per Annum shall be payable on yearly basis. They will have to pay a refundable deposit of US\$ 500 once at the time of admission.
- Hostel Fee and Central Library Fee will be extra.

PROGRAMME STRUCTURE (2020 -22)

Semester I

28Credits

Sr. No.	Course Code	Course Name	Lecture (L) Hr	Tutorial (T) Hr	Practical (P) Hr	Credit
1	ST5A-501	Measure and Probability Theory	3	1	0	4
2	ST5A-503	Linear algebra *	3	1	0	4
3	ST5A-505	Distribution Theory	3	1	0	4
4	ST5A-507	Statistical methods	3	1	0	4
5	ST5A-509	Statistical Computing *	3	1	0	4
6	ST5A-511	Practical paper			8	4
7	ST5A-551	Comprehensive Viva-voce	-	-	-	4

Semester II

28Credits

Sr. No.	Course Code	Course Name	Lecture (L) Hr	Tutorial (T) Hr	Practical (P) Hr	Credit
1	ST5A-502	Sample Surveys and Indian Official Statistics	3	1	0	4
2	ST5A-504	Stochastic Processes	3	1	0	4
3	ST5A-506	Statistical Inference - I	3	1	0	4
4	ST5A-508	Word Processing Through MS Word and Spreadsheets: MS Excel*	3	1	0	4
5	ST5A-510	Multivariate Analysis	3	1	0	4
6	ST5A-512	Practical Paper			8	4
7	ST5A-552	Comprehensive Viva-voce	-	-	-	4

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Semester III

26Credits

Sr. No.	Course Code	Course Name	Lecture (L) Hr	Tutorial (T) Hr	Practical (P) Hr	Credit
1	ST5A-601	Statistical Inference II	3	1	0	4
2	ST5A-603	Design and Analysis of Experiments	3	1	0	4
3	ST5A-605	Operations Research (i)	3	1	0	4
4	ST5A-607	Statistical process and Quality Control	3	1	0	4
5	ST5A -609	Project involving: Statistical techniques/Operations research/ Computer software/Programming	12			6
6.	ST5A-651	Comprehensive Viva-voce	-	-	-	4

Semester IV

26Credits

Sr. No.	Course Code	Course Name	Lecture (L) Hr	Tutorial (T) Hr	Practical (P) Hr	Credit
1	ST5A-602	Linear Models and Regression Analysis	3	1	0	4
2	ST5A-604	Econometrics*	3	1	0	4
3	ST5A-606	Operations Research (ii)*	3	1	0	4
4	ST5A-608	Planning and Analysis of Industrial Experiments *	3	1	0	4
5	ST5A-610	Analysis*	3	1	0	4
6	ST5A-612	Project involving: Statistical techniques/Operations research/Computer software/Programming	12			6
	ST5A-652	Comprehensive Viva-voce	-	-	-	4

Note: The above programme structure can be modified as per requirement from time to time in accordance with University Ordinance No. 14.

PROGRAMME OUTCOMES

The M.Sc. course is designed with a view to catering to present day requirements in various Industries, IT Sector, Research and Development fields, Higher Studies, Planning Commission, Medical and Social Researches, Finance/ Econometric Modeling using Big-Data. Moreover, the course structure intends to inculcate strong laboratory skills (Using R-Programming, SPSS and EXCEL) so that students can take up independent industrial projects, Consultancy in any areas of Research with very strong knowledge of Designing of Experiments, Sample Surveys, Statistical Quality Control, Operations Research, Stochastic Processes, Advanced Econometrics etc.

In this course we boost analytical skills among students, developing the understanding of statistical theory and its real life applications.

JOB OPPORTUNITIES:

There is a wide choice of career opportunities for well qualified statisticians for example

1. **Banking/ Insurance**
2. **Govt. Sector as statistical officers**
3. **Indian Statistical service**
4. **Scientists in agriculture as expert in designing the experiments**
5. **Statistical quality control experts in industries**
6. **IT professionals**
7. **Teaching in higher educations**