

MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

DEPARTMENT OF MATHEMATICS AND STATISTICS

Master of Science/ Arts (M.Sc./M.A.) 2023-24

FACULTY : SCIENCE

SUBJECT : STATISTICS

Level	Semester	Course Type	Course Code	Title	Delivery Type			Total Hours	Credit	Total Credit	Internal Assessment	EoS Exam	M. M.	Remarks
					L	T	P							
8	I	DCC	STA8000T	Measure and Integration	L	-	-	60	4	4	20	80	100	---
			STA8001T	Matrices and Linear Algebra	L	-	-	60	4	4	20	80	100	---
			STA8002T	Probability Theory	L	-	-	60	4	4	20	80	100	---
			STA8003T	Theoretical Distributions	L	-	-	60	4	4	20	80	100	---
			STA8004P	Statistics Lab-I: Statistical Methods	-	-	P	120	4	4	20	80	100	---
			STA8005P	Statistics Lab-II: Practical based on STA8002T and STA8003T	-	-	P	120	4	4	20	80	100	---
8	II	DCC	STA8006T	Sampling Distributions	L	-	-	60	4	4	20	80	100	---
			STA8007T	Statistical Inference	L	-	-	60	4	4	20	80	100	---
			STA8008T	Design of Experiments	L	-	-	60	4	4	20	80	100	---
			STA8009P	Statistics Lab-III: Statistical Computing with R	-	-	P	120	4	4	20	80	100	---
			STA8010P	Statistics Lab-IV: Practical based on STA8006T, STA8007T and STA8008T	-	-	P	120	4	4	20	80	100	---

Select any One of the following Generic Elective Course (GEC) Course in II semester, May be obtained by the students of other departments.														
Level	Semester	Course Type	Course Code	Title	Delivery Type			Total Hours	Credit	Total Credit	Internal Assessment	EoS Exam	M. M.	Remarks
					L	T	P							
		GEC	STA8100T	Official Statistics	L	-	-	60	4	4	20	80	100	---
			STA 8101T	Statistical Methods for Total Quality Management	L	-	-	60	4	4	20	80	100	---
			STA 8102T	Investments Under Uncertainty	L	-	-	60	4	4	20	80	100	---
			STA 8103T	Actuarial Statistics	L	-	-	60	4	4	20	80	100	---
9	III	DCC	STA 9011T	Multivariate Analysis	L	-	-	60	4	4	20	80	100	---
			STA 9012T	Theory of Sampling Techniques	L	-	-	60	4	4	20	80	100	---
		Select any Three Discipline specific Elective (DSE) Courses from selected DSE groups in III semester.												
		DSE I	STA 9104T	Statistical Quality Control	L	-	-	60	4	4	20	80	100	---
			STA 9105T	Stochastic Process	L	-	-	60	4	4	20	80	100	---
		DSE II	STA 9106T	Operation Research	L	-	-	60	4	4	20	80	100	---
			STA 9107T	Non-Parametric Inference	L	-	-	60	4	4	20	80	100	---
		DSE III	STA 9108P	Elective Statistics Lab-I: Practical based STA9011T & STA9012T	-	-	P	120	4	4	20	80	100	---
			STA 9109P	Elective Statistics Lab-II: Practical based STA9104T or STA9105T	-	-	P	120	4	4	20	80	100	---
			STA 9110P	Elective Statistics Lab-III: Practical based STA9106T or STA9107T	-	-	P	120	4	4	20	80	100	---

		Select any One of the following Generic Elective Course (GEC) Course in III semester, May be obtained by the students of other departments.												
Level	Semester	Course Type	Course Code	Title	Delivery Type			Total Hours	Credit	Total Credit	Internal Assessment	EoS Exam	M. M.	Remarks
					L	T	P							
9	III	GEC	STA 9111P	Hands-on with MS-Excel	-	-	P	120	4	4	20	80	100	---
			STA 9112P	Hands-on with R	-	-	P	120	4	4	20	80	100	---
			STA 9113P	Hands-on with SPSS	-	-	P	120	4	4	20	80	100	---
			STA 9114P	Hands-on with C/C++ Language	-	-	P	120	4	4	20	80	100	---
9	IV	DCC	STA 9013T	Demography	L	-	-	60	4	4	20	80	100	---
		Select any Five Discipline specific Elective (DSE) Courses from selected DSE groups in IV semester.												
		DSE I	STA 9115S	Project work	-	-	S	120	4	4	20	80	100	Presentation, submission and viva-voce
			STA 9116T	Theory of Reliability	L	-	-	60	4	4	20	80	100	---
		DSE II	STA 9117T	Linear Models & Regression Analysis	L	-	-	60	4	4	20	80	100	---
			STA 9118T	Economics Statistics	L	-	-	60	4	4	20	80	100	---
		DSE III	STA 9119T	Econometrics	L	-	-	60	4	4	20	80	100	---
			STA 9120T	Survival Analysis	L	-	-	60	4	4	20	80	100	---
		DSE IV	STA 9121P	Elective Statistics Lab-III: Practical based on STA9013T	-	-	P	120	4	4	20	80	100	---
			STA 9122P	Elective Statistics Lab-IV: Practical based on STA9116T	-	-	P	120	4	4	20	80	100	---
		DSE V	STA 9123P	Elective Statistics Lab-V: Practical based on STA9117T & STA9119T	-	-	P	120	4	4	20	80	100	---
			STA 9124P	Elective Statistics Lab-VI: Practical based on STA9118T & STA9120T	-	-	P	120	4	4	20	80	100	---

DCC- Discipline Centric Compulsory Course

**(STA8000T to STA8003T, STA8004P, STA8005P, STA8006T to STA 8008T, STA8009P,
STA8010P, STA 9011T to STA 9013T)**

DSE- Discipline Specific Elective Course

**(STA 9104T to STA 9107T, STA 9108P to STA 9110P, STA 9115S, STA 9116T to STA 9120T,
STA 9121P to STA 9124P)**

GEC- Generic Elective Course

(STA 8100T to STA 8103T, STA 9111P to STA 9114P)

MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

M.Sc. (Two Years Master Degree Program)

Subject: STATISTICS

End of Semester (EoS) Examination pattern of Theory Papers:

As proposed in the academic council held on 26-06-2023.

Internal Examination

Duration: 1 hour

Max. Marks: 20

Min Marks: 08

1. The maximum marks of each paper shall be 20. The minimum passing marks shall be 8. In all papers except “Project” it will consists of two parts; a test (10 marks) and an internal assessment (10 marks).
2. The format or pattern of the test can be decided by the department.
3. The internal assessment shall be of maximum marks 10. This part shall be based on the performance of students in the assignments/ seminars/quiz etc. In case of assignments, the teacher will give at least five assignments distributed over the entire course contents. These will be submitted by the students to the teacher for evaluation and submit awards. In Laboratory/Practical papers internal assessment shall be done by checking the record of practical or organizing a quiz during classes or may academically rationale method decided by the department.
4. In the paper entitled “Project”, student will submit a report on the progress of the work done during the semester to the Head. The report will be routed through the Mentor with his grading who will also award the internal marks of the “Project”.
5. Students have to independently pass in the internal examination of each paper.
6. The marks awarded in the internal examination shall not be count to calculate and award the final score, the SGPA and the CGPA.

MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

M.Sc. (Two Years Master Degree Program)

Subject: STATISTICS

End of Semester (EoS) Examination pattern of Practical Exam.:

Duration: 5 hour

Max. Marks: 80

Min Marks: 32

Syllabus:

The students have to perform at least 10 practicals from the given list in the entire semester. The faculty may add practicals in the list which should be closely connected and attached with the theme of the course. The format of practical should be in the following form of sequence:

- (i) The practical problem along with all data inputs are written under the theme namely “Objective”.
- (ii) All formulae which are to be used, are identified and written under the theme namely “Formulae used”.
- (iii) The Statistical tabulation and calculation are to be made on the basis of MS –Excel and other statistical software.
- (iv) The results and conclusions are to be made on the basis of tabulations and calculation performed above.

Scheme of EoSE:

The examination shall be of five hours where in the students have to perform any three practicals. The marks distribution shall be the following.

1. Three Practical : 45 Marks (15+15+15)
2. Viva-Voce: 20 Marks
3. Evaluation of the record book of practicals performed in the semester : 15 Marks