Department of Mathematics and Statistics

School of Mathematical and Physical Science



Curriculum Framework M.Sc.-Mathematics

Based on National Education Policy-2020

Date of BoS -16/09/2022

Doctor Harisingh Gour Vishwavidyalaya (A Central University) Sagar-Madhya Pradesh-470003

5. Structure of the Programme for Post Graduate Diploma

L-5

1	Semester I				
	Nature of Course	Course Code	Course Title	Credits	Course Coordinator
	Discipline Specific Major-1	MTS-DSM-121	Abstract Algebra	4	Dr. M.K. Yadav Dr. K. Shrivastava
	Discipline Specific Major-2	MTS-DSM-122	Real Analysis-II	4	Dr. RK Pandey
	Discipline Specific Major-3	MTS-DSM-123	Topology	4	Dr. P. Gupta
	Multi-Disciplinary Major-1	MTS-MDM-121	Operation Research-I	4	Dr. U.K.Khedlekar
	Skill Enhancement Course (SEC)	MTS-SEC-121	Integral Transform	4	Dr. Bhupendra
Level 8	Semester II				
	Nature of Course	Course Code	Course Title	Credits	Course Coordinator
	Discipline Specific Major-1	MTS-DSM-221	Complex Analysis	4	Dr. S. Kumar
	Discipline Specific Major-2	MTS-DSM-222	Measure Theory	4	Dr. T Nath
	Discipline Specific Major-3	MTS-DSM-223	Partial Differential Equations	4	Dr. M.K. Yadav
	Multi-Disciplinary Major-1	MTS-MDM-221	Mathematical Modeling in Biology	4	Dr. K.S.Mathur
	Skill Enhancement Course (SEC)	MTS-SEC-221	Project	4	Research Areas of Faculty Members

6. Exit: Certificate in Mathematical Sciences

7. Teaching Learning Approach:

Mainly this programme will transact the under given pedagogic approach-

- Lecture/ Seminar format
- Demonstration
- Readings/written assignments and Field Projects
- Group discussions/tutorial Community visit
- Project work
- Field Visit/Survey/Dissertation

8. Assessment

The learner in the programme will be assessed throughout the duration of the programme in a formative and summative evaluations i.e. Mid (I&II) and End Semester examinations. To be eligible to appear in End semester examination a student must appear in Mid semester examinations along with 75 per cent attendance in classroom processes

DOCTOR HARISINGH GOUR VISHWAVIDYALAYA, SAGAR

(A Central University)

Department of Mathematics and Statistics Summary of Ph. D. Course Work in Statistics From Session 2022 -23 onwards Semester-I

Paper Code	Title of Paper	
RPE-CC-140	Research & Publications Ethics	2
STAT-CC-141	Research Methodology with Computer Applications	4
STAT-CC-142	History of Statistics and Modeling	4
STAT-CC-143	Review of Published Research Work	4
	Opt any one from the following	
STAT-EC-1401	Mathematical Finance	4
STAT-EC-1402	Advanced Sampling & Modeling of Computer System	4
STAT-EC-1403	Theory of Estimation and Testing	4
STAT- EC-1404	Inventory Modeling and Optimization	4

5. Structure of the Programme (B.Sc./B.A.) for : Certificate in Mathematical Sciences

1-	Semester I		Course Title	Credits	Course Coordinator	
Level 5	Nature of Course	Course Code	Course Title		Dr. U.K.Khedlekar	
	Discipline Specific Major-1	MTS-DSM-111	Calculus	6	Dr. P. Gupta	
			Matrix Theory	6 garage	Dr. KS Mathur	
	Multi-Disciplinary Major-3	MTS-MDM-111	The state of the s	CHARLES SELECTION	Dr. MK Yadav FC-1	
	Ability Enhancement Course	MTS-AEC-111	Graph Theory	2 mint C	Dr. UK Khedlekar Dr. Bhupendra	
			Vector Calculus	2		
	Skill Enhancement Course	MTS-SEC-111	Vector Calculus		Dr. Bhupenara	
	Semester II		T a ma	Credits	Course Coordinator	
	Nature of Course	Course Code	Course Title		Dr. T Nath	
	**************************************	MTS-DSM-211	Basic Algebra	6	Dr. RK Pandey	
	Dissipline Specific Major-1	M15-D5M-211				
Level			Numerical Methods	6		
Level 5	Multi-Disciplinary Major-3	MTS-MDM-211	Fundamental of	2	Dr. KK Pandey Dr.K.S.Mathur	
			J. S. A(50)			

6. Exit: Certificate in Mathematical Sciences

7. Teaching Learning Approach:

Mainly this programme will transact the under given pedagogic approach-

- Lecture/ Seminar format
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8. Assessment

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5. Structure of the Programme B.Sc./B.A. for: Certificate in Statistical Method

	Semester I						
	Nature of Course	Course Code	Course Title	Credits	Course Coordinator		
Level 5	Discipline Specific Major-1	STA-DSM-111	Descriptive Statistics	6	Prof. R.K.Gangele		
	Multi-Disciplinary Major-3	MTS-MDM-111	Matrix Theory	6	Dr. K.S.Mathur		
	Ability Enhancement Course	MTS-AEC-111	Graph Theory	2	Dr. K.Shrivastava		
	Skill Enhancement Course SEC)	MTS-SEC-111	Vector Calculus	2	Dr. U.K.Khedlekar		
	Semester II						
	Nature of Course	Course Code	Course Title	Credits	Course Coordinator		
	Discipline Specific Major-1	STA-DSM-211	Probability & Distributions	6	Prof. D. Shukla		
	Multi-Disciplinary Major-3	MTS-MDM-211	Numerical Methods	6	Dr. R.K. Pandey		
	Ability Enhancement Course	MTS-AEC-211	Fundamentals of Computer	2	Dr. K.S.Mathur		
	Skill Enhancement Course (SEC)	MTS-SEC-211	Business Statistics	2	Prof. D. Shukla		

6. Exit: Certificate in Statistical Method

7. Teaching Learning Approach:

Mainly this programme will transact the under given pedagogic approach-

- Lecture/ Seminar format
- Demonstration
- Readings/written assignments and Field Projects
- · Group discussions/tutorial Community visit
- Project work
- Field Visit/Survey/Dissertation

8. Assessment

The learner in the programme will be assessed throughout the duration of the programme in a formative and summative evaluations i.e. Mid (I&II) and End Semester examinations. To be eligible to appear in End semester examination a student must appear in Mid semester examinations along with 75 per cent attendance in classroom processes