

SantGadgeBabaAmravatiUniversity,Amravati FACULTY : Science & Technology
SchemeofTeaching, Learning, Examination&EvaluationleadingtoTwoYearsPGDegreeMasterofStatistics(II)followingThreeYearsUGProgramme23-24
(TwoYears-FourSemestersMaster’sDegreeProgramme-NEPv24withExitandEntryOption
M.S c . I I (Statistics)Second YearSemester-III

S. N.	Subject	TypeofCourse	SubjectCode	Teaching&LearningScheme						DurationOfExamHours	Examination&EvaluationScheme									
				TeachingPeriodPerWeek				Credits			MaximumMarks			MinimumPassing						
				L	T	P	Total	L/T	Practical		Total	Theory		Practical		TotalMarks	MarksInternal	MarksExternal	Grade	
												TheoryInternal	Theory+MCQExternal	Internal	External					
0	*Pre-Requisite Course(s) if applicable/MOOC/Internship/Fieldwork cumulatively If students wish to opt Minor Course of UG as Major for PG, balance 12 Credits Course will have to be completed (As and when applicable)	Th-Prq		0	0	0	0	Additional Credits to be earned = (1) minus (2) (1). Credits from Major DSC Courses in UG (minus) (2). The Credits already earned from the Courses as Minor at UG, now to be opted as Major at PG			2	15	35			50	06	14	P	
1	Research Methodology and IPR	Th-Major		4			4	4		4	3	30	70			100	12	28	P	
2	DSC-I.3 Statistical Inference	Th-Major		4			4	4		4	3	30	70			100	12	28	P	
3	DSC-II.3 Mathematical Programming	Th-Major		4			4	4		4	3	30	70			100	12	28	P	
	DSC-III.3 Linear and Nonlinear modelling	Th-Major		3			3	3		3	3	30	70			100	12	28	P	
4	DSE-I/MOOC Operations Research	Elective		3			3	3		3	3	30	70			100	12	28	P	
	DSE- II Bioassay																			
	DSE III Econometrics																			
	DSE IV Actuarial Statistics																			
5	DSC-I.3 Lab/Pr	Pr-Major				2	2		1	1	3				25	25	50	25	P	
6	DSC-II.3 Lab	Pr-Major				2	2		1	1	3				25	25	50	25	P	
6	DSC-III.3 Lab	Pr-Major				2	2		1	1	3				25	25	50	25	P	
7	DSE-I Laboratory/MOOC Lab	Pr-Major Elective				2	2		1	1	3				25	25	50	25	P	
8	#On Job Training, Internship/ Apprenticeship; Field projects Related to Major @ during vacations cumulatively	Related to DSC		120 Hours cumulatively during vacations of Semester I and Semester II							4*									P*
9	Co-curricular Courses: Health and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Performing Arts During Semester I, II, III and IV	Generic Optional		90 Hours Cumulatively From Sem I to Sem IV																
	TOTAL									22						600+50*				

L:Lecture, T:Tutorial, P:Practical/Practicum

Pre-requisite Course mandatory if applicable: **Prq**, Theory: **Th**, Practical/Practicum: **Pr**, Faculty Specific Core: **FSC**, Discipline Specific Core: **DSC**, Discipline Specific Elective: **DSE**, Laboratory: **Lab**, **OJT**: On Job Training; Internship/Apprenticeship; Field projects: **FP**; **RM**: Research

Methodology;ResearchProject:RP,Co-curricularCourses:CC

Note :#OnJobTraining, Internship/Apprenticeship;FieldprojectsRelatedtoMajor (DuringvacationsofSemesterIandSemesterII)fordurationof120hoursmandatorytoallthe students, tobecompletedduringvacationsofSemesterIand/orII. This will carry 4 Credits for learning of 120 hours. Its credits and grades will be reflected in SemesterII credit grade report.

Note: **Co-curricular Courses:** In addition to the above, CC also includebut not limited to Academic activities like paper presentations in conferences, Aavishkar, start-ups, Hackathon, Quiz competitions, Article published, Participation in Summer school/ Winter School / Shortterm course,ScientificSurveys,SocietalSurveys,FieldVisits,Studytours,IndustrialVisits,online/offlineCoursesonYoga(YogaforIQdevelopment,YogaforEgodevelopment,YogaforAngerManagement,YogaforEyesightImprovement,YogaforPhysicalStamina,YogaforStressManagement,etc.).Thesecanbecompletedcumulativelyduring**Semester I,II, III andIV. Its credits and grades will be reflected in semesterIV credit grade report.**

SantGadgeBabaAmravatiUniversity,Amravati FACULTY : Science & Technology

SchemeofTeaching, Learning, Examination&EvaluationleadingtoTwoYearsPGDegreeMasterofStatistics(II)

(TwoYears-FourSemestersMaster'sDegreeProgramme-NEPv24withExitandEntryOption

M.Sc.(Statistics)Second YearYearSemester-IV[Level6.0]

S. N.	Subject	TypeofCourse	SubjectCode	Teaching&LearningScheme							DurationOfExamHours	Examination&EvaluationScheme								
				TeachingPeriodPerWeek				Credits				MaximumMarks				MinimumPassing				
				L	T	P	Total	L/T	Practical	Total		Theory		Practical		TotalMarks	MarksInternal	MarksExternal	Grade	
												TheoryInternal	Theory+MCQ External	Internal	External					
1	DSC-I.4 Computational Statistics	Th-Major		4			4	4		4	3	30	70			100	12	28	P	
2	DSC-II.4 Multivariate analysis	Th-Major		4			4	4		4	3	30	70			100	12	28	P	
3	DSC-III.4 Stochastic Process	Th-Major		3			3	3		3	3	30	70			100	12	28	P	
4	DSE-II/MOOC Bayesian Inference	Th-Major Elective		3			3	3		3	3	30	70			100	12	28	P	
	DSE II Statistical Ecology																			
	DSEII Regression Analysis																			
	DSE II Reliability Theory																		MinimumPassingMarks	
5	DSC-I.4Lab	Pr-Major				2	2			1	1	3			25	25	50	25	P	
6	DSC-II.4Lab	Pr-Major				2	2			1	1	3			25	25	50	25	P	
7	DSC-III.4Lab	Pr-Major				2	2			1	1	3			25	25	50	25	P	
8	DSE-III.Laboratory/MOOC Lab	Pr-Major Elective				2	2			1	1	3			25	25	50	25	P	
9	#OnJob Training, Internship/ Apprenticeship; Field projects Related to Major @ during vacations cumulatively	Related to Major		120 Hours cumulatively during vacations of Semester I and Semester II																P*
8	Co-curricular Courses: Health and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/ Applied/ Visual/ Performing Arts During Semester I, II, III and IV	Generic Optional		90 Hours Cumulatively From Sem I to Sem IV																
				Exit Option with a PG Diploma with 4 Credits On-the-job training/internship in the respective Major subject • Student has to earn Total minimum 4 Credits cumulatively during Vacation of Semester I and Semester II from internship in order to exit after First Year with PG Diploma (42-44 Credits) after Three Year UG Degree																
	TOTAL										18+4*						550			

L:Lecture, T:Tutorial, P:Practical/Practicum

Pre-requisite Course mandatory if applicable: Prq, Theory: Th, Practical/Practicum: Pr, Faculty Specific Core: FSC, Discipline Specific Core: DSC, Discipline Specific Elective: DSE, Laboratory: Lab, OJT: On Job Training; Internship/ Apprenticeship; Field projects: FP; RM: Research Methodology; Research Project: RP, Co-curricular Courses: CC

Note: #On Job Training, Internship/ Apprenticeship; Field projects Related to Major (During vacations of Semester I and Semester II) for duration of 120 hours mandatory to all the students, to be completed during vacations of Semester I and/or II.

This will carry 4 Credits for learning of 120 hours. Its credits and grades will be reflected in Semester II credit grade report.

Note: Co-curricular Courses: In addition to the above, CC also include but not limited to Academic activities like paper presentations in conferences, Aavishkar, start-ups, Hackathon, Quiz competitions, Article published, Participation in Summer school/ Winter School / Short term course, Scientific Surveys, Societal Surveys, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, Yoga for Anger Management, Yoga for Eyesight Improvement, Yoga for Physical Stamina, Yoga for Stress Management, etc.). These can be completed cumulatively during **Semester I, II, III and IV. Its credits and grades will be reflected in semester IV credit grade report.**

Sant Gadge Baba Amravati University, Amravati

Faculty of Science and Technology Programme: **M.Sc. II Statistics (NEP)**

Program Outcomes (POs)

At the end of the programme, students would be able to

PO1: Critical Thinking: Think critically for data driven solution with advanced Methodology. Students may be able to think critically everything around him/ her. They will be able to take better action in any critical situation in their life.

PO2: Nurture their curious minds toward translation and application & Statistical knowledge to find solutions to real world problems.

PO3: Employability: get knowledge and skills in depth necessary for employability of students in industry, Govt Sector and organizations as well as in academics.

PO4: Empowerment: be empowered to investigate, solve questions for which answer lies beyond the boundaries of conventional thinking.

PO5: Effective decision making: take proper decision in critical and complicated situations. Reduce risk factor and be able to maximize project.

PO6: Effective citizenship: get acquainted with the needs of the industry and society, and they become the assets for the society.

PO7: Social interaction: Develop sensitivity for social issues and become productive citizen of the nation.

Program Specific outcomes (PSOs)

Upon completion of the programme successfully, students would be able to

PSO1: understand basic theoretical and applied principles of Statistics needed to enter the job force. They will be able to communicate key statistical concepts to non-statisticians. They also gain proficiency in using statistical ideas/ principles for data analysis.

PSO2: groom as the next generation statisticians ready for scientific decision making, aided with advanced statistical software translating into sharp and extensive analytics pertinent to various domains.

PSO3: start consultancy for statistical analysis and can be helpful in interdisciplinary research.

