

Structure of the B.Sc. (MSE) in Mathematics, Statistics, Economics Programme

Semester	Discipline Specific Courses -Core	Minor	Inter-disciplinary courses	Ability Enhancement courses (language)	Skill Enhancement courses /Internship /Dissertation	Common Value-Added Courses	Total Credits
I	(100 level) 1. Real Analysis & Calculus 2. Statistics (Basic Statistics I +Statistics Practical I)	(100 Level) Economics I (Micro-Economics-I)	(1 course) From Other Dept	(1 course) Communicative English	IT and Applications Computer Algebra Systems and Related Softwares (CAS)/	Social and Emotional Well Being Ethics and Culture	20
II	(100 level) 1. Linear Algebra 2. Statistics (Basic Statistics II +Statistics Practical II)	(100 Level) EconomicsII (Micro-Economics II)	(1 course)	(1 course) Environmental Studies	(1 course) Latex and HTML	(1 or 2 courses) Hindi Language and Literature Urdu Language and Literature	20
	<i>Students exiting the programme after securing 40 credits will be awarded UG Certificate in the relevant Discipline /Subject provided they secure 4 credits in work based vocational courses offered during summer term or internship / Apprenticeship in addition to 6 credits from skill-based courses earned during first and second semester.</i>						40
III	(200 level)	(200 & above)	(1 course)	(1 course)	(1 course)	Innovation and	20

	<ol style="list-style-type: none"> 1. Ordinary Differential Equations 2. Statistics III (Statistical Inference+ Practical) 	Economics III (Development Economics)				Entrepreneurship	
IV	(200 level) <ol style="list-style-type: none"> 1. Numerical Analysis 2. Statistics IV (Statistical Inference II+ practical) 	(200 & above) Economics IV Monetary Economics	-	(1 course)	-		20
<i>Students exiting the programme after securing 80 credits will be awarded UG Diploma in the relevant Discipline /Subject provided they secure additional 4 credit in skill based vocational courses offered during first year or second year summer term.</i>							80
V	(300 Level) <ol style="list-style-type: none"> 1. Complex Analysis 2. Sampling Theory and Statistical Quality control+ Practical 	(200 & above) Economics V (Indian Economy, International Economy)	-	-	(Internship)	-	20
VI	(300 Level) <ol style="list-style-type: none"> 1. Mathematical Methods 	(200 & above) Economics VI (International Economics)	-	-	-	-	20

	2. Statistics VI (Design and Analysis of experiments +Practical)						
<i>Students who want to undertake 3-year UG programme will be awarded UG Degree in the relevant Discipline /Subject upon securing 120 credits</i>							120
VII	(400 Level) 1. Linear Statistical Models 2. Dissertation (Minor)	(300 & above) Operations Research	-		-	-	20
VIII	(400 Level) Statistical Inference III Sample Surveys	(300 & above) Economic and Official Statistics and Demography Design and Analysis of Algorithms	-		(Research Project/ Dissertation)		20
<i>Students will be awarded UG Degree (Honours) with Research in the relevant Discipline /Subject provided they secure 160 credits</i>							160