Name of the Programme: MSc. Mathematics

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	MATHEMATICAL STATISTICS	M748	• To study and apply sampling theory, significance tests, estimation, testing of hypothesis and design of experiments	• understand Sampling and Sampling distributions. • illustrate the methods of finding Estimators • determine Parametric point and Interval Estimation. • perform hypothesis testing , justify hypothesis testing to Sampling problems and to determine confidence Intervals. • define the basic terms used in design of experiments and use appropriate experimental designs to analyze the experimental data.	Regional/ National

2	SKILL ENHANCEMENT COURSE I – ALGEBRA	M749B	• To develop broad and balanced knowledge and understanding of definitions, concepts, theorems and principles. • To enhance the ability of learners to apply the knowledge and skills acquired by them during the programme to solve specific theoretical and applied problem in Mathematics. • To empower students to crack competitive examinations such as NET, SET and TRB and to complement the theoretical content of the subject with exercise problems.	• disseminate new and innovative knowledge that will make them fit for any competitions in job opportunities. • apply new tangents or to exercise their knowledge and skill in other disciplines. • develop, prioritize, demonstrate display, and disseminate newer versions and to interpret in novel ways. • bringout the flair for new and continuous learning process. • build the dexterity.	Regional/ National
3	SKILL ENHANCEMENT COURSE II – LINEAR ALGEBRA	M852B	• To develop broad and balanced knowledge and understanding of definitions, concepts, theorems and principles. • To enhance the ability of learners to apply the knowledge and skills acquired by them during the programme to solve specific theoretical and applied problem in Mathematics. • Toempower students to crack competitive examinations such as NET, SET and TRB and to complement the theoretical content of the subject with exercise problems	• disseminate new and innovative knowledge that will make them fit for any competitions in job opportunities. • analyze new tangents or to exercise their knowledge and skill in their own disciplines. • develop, give examples, demonstrate display, and disseminate newer versions and to interpret in novel ways. • bringout the flair for new and continuous learning process. • build the dexterity.	Regional/ National

4	SKILL ENHANCEMENT COURSE III – REAL ANALYSIS	M957B	• Empowering students to crack competitive examinations such as NET, SET and TRB. To complement the theoretical content of the subject with exercise problems.	• apply the theoretical knowledge in solving problems. • attempt competitive examinations such as NET, SET and TRB. • Extend their knowledge of Lebesgue theory of integration by selecting and applying its tools for further research in this and other related areas • Recognize the need of concept of measure from a practical view point. • Understand the nature of abstract mathematics and explore the concepts infurther details	Regional/ National
5	CERTIFICATE COURSE – MATHEMATICS FOR COMPETITIVE	M952X	• To prepare the students for competitive examinations	• make critique of quantitative information using proportional reasoning • Interpret and compare weighted averages, indices, ranking. • identify uses and misuses of percentages related to a proper understanding of the bases.	Regional/ Nation
6	STOCHASTIC PROCESSES	M1052A	• To introduce to the students the basic ideas of Stochastic processes, Markov chains, Markov process and Renewal process and to motivate research in these areas	• demonstrate the basic concepts of Stochastic process, Markov chains. • identify the type of the distribution • apply the concepts in practical problems • compose and evaluate simple Markovian Queueing models. • analyze and evaluate renewal equations	Regional/ National

7	STATISTICAL AND NUMERICAL METHODS (FOR MCA)		• This course aims at providing the necessary basic concepts of a few statistical and numerical methods and give procedures for solving numerically different kinds of problems occurring in engineering and technology	• analyze various methods for testing of hypothesis. • understand numerical methods for finding the solution of some problems upto a desired degree of accuracy. • identify the numerical problems to be more competitive in computation. • employ numerical methods for approximation. • evaluate and formulate solutions of equations and eigen value problems.	Regional/ National