Course Programme: M.Sc. Ag. (Agricultural Economics)

PROGRAMME OUTCOMES (POs)	
PO1	To provide in-depth knowledge of macroeconomics, microeconomics, econometrics, production economics, agricultural marketing for agricultural research and policy issues.
PO2	Advance the understanding of the students with economic theory, econometrics, production economics, linear programming and farm management with applications in a wide variety of allied fields
PO3	Develop proficiency in quantitative methods and effective use of these techniques to socio economic and resource utilization problems
PO4	Cultivate rational thinking in the students by the introduction of the conditions of rationality in the areas of consumption, production and distribution
PO5	Production of masters in economics with good national and international level knowledge of higher studies in the field of agricultural economics
PO6	Makes the scholars responsible citizens and professionals which have the capability of critical thinking and independent analysis
PROGRAMME SPECIFIC OUTCOMES (PSOs)	
PSO1	To give in-depth knowledge to students about economic theory regarding utilization and allocation of resources including labour, natural resources and capital
PSO2	To upgrade students understanding about the function of agri markets for goods and services and income generation, its distribution and investment
PSO3	To develop understanding of the production systems and allocation of scarce productive resources for optimization of profits under micro and macro conditions.
PSO4	To impart in-depth knowledge into special fields of choice like agricultural economics, basic econometrics, growth and development, agricultural marketing, production economics, environmental economics, agricultural financial institutions and markets.
PSO5	The students after having the understanding of the all the subjects of agricultural economics can easily clear the competitive examinations like NET, SRF, ARS.

Course	Course outcome (COs)
M. Sc Ag. (Agricultural Economics)	
Micro Economic Theory (AG ECON 501)	**CO 1:** Understanding the concepts of demand, elasticities, consumer's surplus producers' surplus, and price determination under different market scenario. **CO 2:** Wage determination under different market structure. **CO 3**: Understanding the market signal affecting consumer and producer behaviour. **CO 4**: Analysing theories of production and cost in short and long run. **CO5**: Understanding the methodologies of market models
Macro Economic Theory (AG ECON 502)	**CO 1:** Knowing the basic economic principles, policies, theories, models, and analytical methods of macroeconomics.

	CO 2: Identification of economic problems and measures to solve them, assessing results, and determining alterative courses of action using various tools. **CO 3**: To understand working of monetary and fiscal policy options related to economic stabilization in the short run and in the long run. **CO 4:** Formulation and assessment of macroeconomic policy initiatives using models.
Agricultural Production Economics (AG ECON 504)	**CO 1:** Knowing the basic economic principles, policies, theories, assumptions, models and analytical methods of production theories. **CO 2:** To understand application of linear, quadratic, Spillman, Cobb Douglas, profit and CES etc production function. **CO 3**: Identification of risk and uncertainties and methods to combat them.
Agricultural Marketing (AG ECON 505)	**CO 1:** Knowing the types and characteristics of markets. **CO 2:** To understand application of demand supply models. **CO 3**: Identification of marketing channels, costs and margins. **CO4**: Role and significance of SWC, CWC, NSC, NAFED, FCI, etc
Mathematical and Statistical Techniques (STAT 501)	**CO 1:** Students will be able to apply the basic mathematical tools & techniques in economic analyses and interpretations. **CO 2:** To make students capable to understand basic mathematics required for understanding economics. **CO 3:** To familiarize students with the use of mathematics as a tool to analyze economic phenomena. **CO4:** Understanding the application of Z, t, F, R^2
Research Methodology for Social Sciences (AG ECON 503)	**CO 1:** Understanding the need and significance of research in social sciences and demonstrating the research process. **CO 2**: Getting acquaintance on various methods of sampling, the data collection techniques through schedules and questionnaires. **CO 3**: Acquiring competence in preparation of schedules, questionnaires and their pre-testing and final preparation. **CO 4**: Understanding the formulations of hypothesis, application of tests for the significance of parameters. **CO 5:** Learning documentation writing and its presentation. **CO 6:** Acquiring capability in preparation of projects for funding from various agencies.
Natural Resource and Environmental Economics (AG ECON 506)	**CO 1:** Extending knowledge about regarding the scarcity of environment resources. **CO 2:** Understanding the inter-linkages of human activities and environment. **CO 3:** Understanding the importance of common property rights in case of public/state resources. **CO 4:** Evaluating cost and optimal level of pollution in the economy. **CO 5:** Regulation of state natural resources through taxes/levies on users. **CO 6:** Detail study of different environmental problems and steps/measure taken to control them. **CO7**: Understanding the application of Hedonic, travel cost and CVM in evaluating the natural resources

Econometrics (AG ECON 507)	**CO 1:** Acquaintance with various statistical & mathematical tools and techniques applied in economics and policy making. **CO 2:** Demonstrating a familiarity with the properties and applications of several families of statistical distributions to econometric problems. **CO 3:** Understanding the application of different models and their usefulness in economics. **CO 4:** Studying the relevant time series and panel data models for economic policy making and future forecasting. **CO 5:** Learning the application of programme packages to do time series and panel data analyses of empirical data.
Operations Research (MATH 501)	**CO1:** Understand the basic concept of operation research and identify and develop operational research models from the verbal description of the real system. **CO2:** Develop linear programming (LP) models for shortest path, maximum flow, minimal spanning tree, critical path, minimum cost flow, and transhipment problems. **CO3:** Understand the mathematical tools that are needed to solve optimization problems. **CO4:** Use CPM and PERT techniques, to plan, schedule, and control project activities. **CO5:** Construct the transportation model and analyze the game theory. **CO6:** Use some solution methods for solving the linear optimization problems. **CO7:** Understanding the queuing theory, replacement theory and theory on simulation of management systems.
Project Management and Entrepreneurship Development (MBA 565)	**CO1:** Understanding the scope, cost, timing, and quality of the project, at all times focused on project success. **CO2:** Analyzing the project appraisal techniques with respect to market & demand analysis, situation analysis, collection of information, demand forecasting and market planning. **CO3:** Understanding the technical and financial analysis with respect to a project. **CO4:** Identify project goals, constraints, deliverables, performance criteria, control needs, and resource requirements. **CO5:** Understanding the role and responsibilities of the project manager, planning, organizing, controlling, project review and administrative aspect and skills of the project manager.
Computer Applications for Agricultural Economics (CSE 551)	**CO1**: Bridge the fundamental concepts of computers with the present level of knowledge of the students. **CO2**: Create and perform data calculations with Excel spreadsheets and presentations. **CO3:** Make able the students to access the internet, worldwide web, as well as use Internet directories and search engines, and locate www addresses. **CO4:** Make able the students to find and evaluate information on the web (learn how to be critical and evaluate what is valid and reliable). **CO5**: Understanding the application of software's such as SPSS, Excel, Szam, Eviews
Economics of Growth and Development	**CO 1:** Familiarize students with basic concepts of economic development and growth.

(AG ECON 508)	**CO 2:** Understand different strategies and models of economic development. **CO 3:** Understand the applicability of different strategies and models in the growth and development process.
International Economics (AG ECON 509)	**CO 1:** Getting familiarity with the main economic theories and models of international trade. **CO 2:** Application of economic reasoning to issues around the globe. **CO 3**: Recognition of the cause of trade, sources of the gains from trade and the domestic and international distribution of gains. **CO 4:** Analysing consequences of trade policy measures—including tariffs and quantitative restrictions. **CO 5:** Understanding of international economics and the determinants of exchange rates and the balance of payments.
History of Economic Thought (AG ECON 510)	**CO 1:** Views and ideas of economists starting from ancient Greek period to till present. **CO 2:** Methodology to know the measurement of goods and the basis on which they can be exchanged in the market. **CO 3:** Understanding the importance of different factors of production and how they get their rewards. **CO 4:** Knowing the history of materialistic world and its evolution. **CO 5:** Learning the contribution of Nobel Laureates in Economics.
Financial Management (MBA 567)	**CO1:** Understanding the basic concept of financial management. **CO2:** Application of tools of financial management for decision making. **CO3:** Develop analytical skills that would facilitate the financial decision making in capital structure and dividend policy. **CO4:** Estimate working capital requirement of Business concern. **CO5:** Identification of factors affecting the capital structure. **CO6:** Understanding the concept of inventory, cash and receivables management.