

**DEPARTMENT OF ECONOMICS (M.A.)**

*Adarsh Mahila Mahavidhyalaya, Bhiwani, Haryana*

<b>Program Outcome</b>	
<b><i>Critical Thinking</i></b>	Take informed steps after identifying the speculative designs of our thoughts and actions, assessing the level of accurate and valid ideas, and looking at our ideas and decisions (intellectual, organizational, and personal) in different ways.
<b><i>Effective Communication</i></b>	Speak, read, write and listen clearly in person using electronic media in English and one Indian language, and create a worldview by linking people, ideas, books, media and technology.
<b><i>Social Interaction</i></b>	Ask for views from others, resolve conflicts, and help reach conclusions in group settings.
<b><i>Effective Citizenship</i></b>	Demonstrate sensitive public concern and the development of a world focused on equality, as well as the ability to do things through awareness of problems and participate in community life by volunteering.
<b><i>Ethics</i></b>	Identify the various values that include yours, understand the ethical standards of your decisions, and accept responsibility for them.
<b><i>Environment and Sustainability</i></b>	Understand environmental issues and sustainable development.
<b><i>Self-directed and Life-long Learning</i></b>	Acquire the ability to engage in independent and lifelong learning in the broader context of social-technological change.

<u>Program specific Outcome</u>	
PO1	Understanding the basic assumptions in various economic theories and enhance capabilities of developing ideas based on them
PO2	To develop students understanding about how market for goods and services function and how income is generated and distributed.
PO3	To give students in depth knowledge into special fields of choice like agricultural economics, industrial economics, financial market, development economics, international trade, urban economics econometrics, mathematical economics etc.
PO4	To make students familiar with economic theories and their relevance, econometrics, quantitative techniques and applied research in a wide variety of fields within economics.
PO5	Students would know how the economy is influenced by economic policy, technological advances and demographic conditions
PO6	To impart in depth knowledge to students about economic theory regarding utilization and allocation of resources including labour, natural resources and capital.
PO7	Prepare and motivate students for research studies in Economics especially by developing questionnaire, collecting primary data through field surveys
PO8	Provide knowledge of a wide range of econometric techniques using excel or other statistical software
PO9	Motivate students in preparing for various competitive examinations, NET, SET, Indian Economic Service etc., by developing or gaining value addition day by day by giving assignments, by following a routine or developing discipline / concentration etc.

**Course Outcome**

**M.A. Economics (1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, Semester)**

**Semester I**

<b>1. Micro Economics-I</b>	<p>The course provides with the basic concepts and methods of analyzing Economic behavior of Individuals, Firms and market.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate understanding of basic concepts of Micro Economics. Analyze the Consumer behavior through different approaches. Carry Out the consumer behavior under different types of goods.</p> <p><b>CO2:</b> Analyze the Consumer Behavior under Certainty and Uncertainty.</p> <p><b>CO3:</b> Demonstrate the Concept of Production function i.e.to analyze the economic behavior of producer and Concept related to it. Explain the concept of cost and how it affects firms' decision.</p> <p><b>CO4:</b> Explain the economic behavior of Market in different types of market structure. Critically assess the theories and model related to market.</p>
<b>2. Macro economics</b>	<p>Understand systematic facts and latest theoretical developments in Macro- Economics for empirical analysis.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate the basic concepts of macroeconomics and its various variables. Carry out the accounting of national income using various methods</p> <p><b>CO2:</b> Understand about various school of thoughts related to macroeconomics. Explain Conceptual knowledge about Investment and its various theories.</p> <p><b>CO3:</b> Demonstrate the basic understanding about Money Demand and its related concepts. Explain the concept of Inflation and how it affects economy.</p> <p><b>CO4:</b> Explain about Money Supply and role of Central bank. Carry out the analysis of</p>

Monetary and Fiscal Policy of India

**3. Economic of Growth & Development**

Provide with the basic concepts and methods of measuring development so as to enhance thinking for decision making

At the end of the course students will be able to:

**CO1:** Understand the concept of economic, economic growth and sustainable development.

Explain the methods of measuring economic inequality and poverty.

**CO2:** Analyze the economic contribution of some classical economists in growth theories.

**CO3:** Understand the implacability of some very critical growth models in economic development so far. Understand and compare some growth models with each other for some betterment of economic growth models.

**CO4:** Analyze the role of education, learning and skill in human capital formation. Explain the role of technological progress in a country. Explain balanced and unbalanced model of development

**4. Mathematics for Economists**

Course has been accordingly designed to include various mathematical techniques/methods/models related to the different parts of economic theory like consumer theory, theory of production and pricing.

At the end of the course students will be able to:

**CO1:** Use the techniques of mathematical analysis, which are commonly applied to understand and analyse economic problems. Carry out the measure of matrix and determinants in business and economics problems.

**CO2:** Determine rate of growth using differential calculus.

**CO3:** Carry out the technique to measure revenue maximization and cost minimization using maxima and minima approach. Carry out the technique to measure profit

maximization using maxima and minima approach.

**CO4:** Demonstrate the understanding of linear programming in Business and Economics. Carry out the technique to measure Equilibrium Price & Quantity using linear & Quadratic Equation. Understands the basic concept of Set Theory

### Semester II

#### **1. Micro Economics-II**

The course provides with the basic concepts and methods of analyzing Economic behavior of Individuals, Firms and market.

At the end of the course students will be able to:

**CO1:** Demonstrate the Objectives of Firm. Explain various theories related to firms

**CO2:** Analyze the distributional aspects of factors of production. Demonstrate the basic concept of distribution and macro distributional theories

**CO3:** Analyze the general equilibrium concept and its approach. Carry out the Pareto optimality

**CO4:** Demonstrate the concept of Welfare Economics and principles to achieve social welfare maximization. Analyze the equity-efficiency trade-off

#### **2. Macro-economic-II**

understand systematic facts and latest theoretical developments in Macro- Economics for empirical analysis.

At the end of the course students will be able to:

**CO1:** Explain about working of Foreign Exchange Market. Demonstrate the conceptual knowledge about Balance of Payment and IS-LM theory. Explain the concept of Mundell Fleming Model and its practical relevance. Demonstrate the efficacy of monetary & fiscal policy.

	<p><b>CO2:</b> Carry out the analysis about People Behavior on Consumption level and how it is affected by various factors. Explain various theories related to consumption</p> <p><b>CO3:</b> Develop aptitude to relate concepts of Business Cycle with practical scenario.</p> <p><b>CO4:</b> Demonstrate understanding about recent developments in school of thoughts.</p>
3.	<p><b>Statistics for Economists</b></p> <p>The course provides with the basic concepts and methods of statistical analysis so as to enhance statistical thinking for decision making.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Use the basic concepts of probability and statistics embedded in various management problems. Explain various Sampling Methods and how they are different from Census.</p> <p><b>CO2:</b> Apply the measures of central tendency and Measure of dispersion to analyze the data under consideration.</p> <p><b>CO3:</b> Carry out the analysis to measure Index number in calculating consumer Price Index.</p> <p><b>CO4:</b> Carry out the Correlation analysis and measures the Karl Pearson's coefficient of correlation and Spearman's rank correlation. Carry out regression analysis on the data sets and use it for the managerial problems like demand forecasting. Demonstrate understanding of basic concepts of time series to analyze the data under consideration. Carry out the hypothesis testing using various test like t-test, F-test and ANOVA during their Research.</p>
4.	<p><b>Money, Banking and Finance</b></p> <p>The course provides with the basic concepts and policies of money, Banking and Finance.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate understanding of basic concepts of Money its origin and functions. Understanding the Concept of demand for money and theories related to demand for money. To understand the concept of money Supply and process to create money supply.</p> <p><b>CO2:</b> Explain the term structure of Interest rate and Concept of Monetary policy. Explain the</p>

	<p>process of Transmission Mechanism in classical &amp; Keynesian</p> <p><b>CO3:</b> Demonstrate understanding the concept of central Bank and Commercial bank and developments and reforms in banking industry. Evaluate RBI Monetary Policy.</p> <p><b>CO4:</b> Familiarize with the Structure of financial system of India.</p>
<b>5.</b>	<b>Public Economics I</b>
	<p>The course provides with the basic concepts and methods of measuring development so as to enhance thinking for decision making.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Explain the Institutional mechanisms for resource allocation: markets, government, firms and households. Critically assess issues related to market failure and the government intervention</p> <p><b>CO2:</b> Explain the Optimal provision of public goods – voting and public choice – preference revelation mechanisms – Lindahl and successors, free riding, mobility. Critically analyze the theory of clubs and local public goods. Explain the conflict between efficiency and equity - horizontal and vertical equity- welfare analysis with uncertainty.</p> <p><b>CO3:</b> Demonstrate Shifting and Incidence of Tax: The Partial and General Equilibrium Analysis.</p> <p><b>CO4:</b> Explain Pure theory of public expenditure and Canons of public expenditure. Explain the concept of budget and its various components</p>

<b><u>Semester-III</u></b>	
<b>1.</b>	<b>International Economics</b>
	<p>To train the students about the likely consequences on income, employment and social standards and policy solutions as the world will move into the 21st century.</p> <p>At the end of the course students will be able to:</p>

	<p><b>CO1:</b> Establishes the relationship between foreign trade theory and economic development. Explain how product differentiation leads to Intra- Industry trade.</p> <p><b>CO2:</b> Explain how international trade can result from Economies of scale. Identify the costs and benefit of a tariff on a small and a large nation. Demonstrate the basic understanding of terms of trade.</p> <p><b>CO3:</b> Understand the effect of a change in the exchange rate on nation's current account. Explain Adjustment Mechanism of Balance of Payments and policies.</p> <p><b>CO4:</b> Explain the relation of various international institutions with India.</p>
<b>2.</b>	<b>Indian Economy I</b>
	<p>The course provides with the basic idea of performance of different sectors of Indian Economy. At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate the understanding of basic concepts of Structural Changes in Indian Economy.</p> <p><b>CO2:</b> Analyze the challenges of Indian Economy and demonstrate the issues in Indian Economy.</p> <p><b>CO3:</b> Analyze the performance of Agriculture Sector and demonstrate the policies related to Agricultural Prices. Analyze the Food Security – Problems.</p> <p><b>CO4:</b> Analyze the performance of Industry sector. Demonstrate the policies related to Industrial development.</p>
<b>3.</b>	<b>Basic Econometrics</b>
	<p>The course covers various econometric methods applicable to different topics in economics and those needed for applied economic research.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Equip with a broad knowledge of regression analysis relevant for analyzing economic data</p>



	<p><b>CO2:</b> Postulate and testing of hypotheses pertaining to economic issues or problems.</p> <p>Understand what all assumptions are needed before applying OLS on data set. Carry out the Regression analysis on Quantitative as well as on Qualitative variable.</p> <p><b>CO3:</b> Explain what all consequences can take place in case of violation of OLS assumptions</p> <p><b>CO4:</b> Solve the practical problems based on both single equations and simultaneous equations models. Carry out the analysis having single variable data and more than one variable.</p>
<b>Group I</b>	<b>Agricultural Economics (Elective)</b>
	<p>The course provides with the basic concepts of Agriculture and analyzes the issues in agriculture.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate understanding the concept of Agricultural Economics and farm organization. Explain Contribution of agriculture to other sectors and problems related to it.</p> <p><b>CO2:</b> Apply the measures of Micro Economic tools to analyze the productivity of Agriculture. Understand the risk and uncertainties related to agriculture.</p> <p><b>CO3:</b> Analyze the theories related to agricultural transformation. Analyze the Agricultural Transformation over a period of time Indian aspect.</p> <p><b>CO4:</b> Critically assess issues, policies and programmers in areas with emphasis on Indian Agriculture. Explain the issues in Agriculture in WTO.</p>
<b>Group I</b>	<b>Rural Development (Elective)</b>
	<p>The course provides with the basic concepts of Rural Development and analyzes the issues in it.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Gain insight into the socio-economic structure of rural India. Understand the prospects and problems of rural development in India</p> <p><b>CO2:</b> Analyse critically alternative rural development policies in terms of their potential</p>

	<p>impact on rural poverty, equity and economic growth, taking account of different regional and geographical circumstances.</p> <p><b>CO3:</b> Explain and critically review current debates in rural development. Critically evaluate past and existing attempts to supply rural services, such as infrastructure, finance, research and extension, health and education. Outline and evaluate different approaches to rural development and their potential impact on rural development goals.</p> <p><b>CO4:</b> Critically evaluate the plans and strategies for rural development. Explain various alternatives of livelihood for rural development</p>
<b>Group II</b>	<b>Industrial Economics (Elective)</b>
	<p>The course provides with the basic concepts and analytical study of Industry to analyze the performance of industrial growth in India.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate understanding of basic concepts of Industrial Economics. To analyze the factors that helps in Industrial growth and theories that helps us in finding industrial location</p> <p><b>CO2:</b> Explain the concept of Market Structure and its relationship with profitability &amp; innovation</p> <p><b>CO3:</b> Understand the product pricing under public and private sector. Analyze the various methods of project evaluation</p> <p><b>CO4:</b> Analyze the Determinants of Growth of Industrial Sector. Carry out the process to collaboration done by industrial sector. Analyze the performance, policies and provision of Finance to industrial sector in context to India</p>
<b>Group II</b>	<b>Labor Economics (Elective)</b>
	<p>The course provides with the basic concepts, nature of Labor Markets and its operations under different market condition. Moreover, it will help students to understand the problem of unemployment.</p>

	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understand the nature and scope of labor market. Have a deep analysis of great extent of discrimination in labor market.</p> <p><b>CO2:</b> Understand the problems and types of unemployment in India. Learn the concept of modernization employment in India.</p> <p><b>CO3:</b> Analyze the role of Wage Boards in India. Understand the concept of Bonus System and Profit Sharing.</p> <p><b>CO4:</b> Have a deep analysis of some important acts like Industrial Dispute Act, 1947 Factory Act, 1948. Understand Safety Net and EXIT Policy.</p>
<b>Group III</b>	<b>Advance Technologies (Elective)</b>
	<p>The objective of this paper is to make aware student the changes in Information technologies, applications and Systems around us.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understanding the Digital Initiatives in India. Explain the role of Mobile Operating System.</p> <p><b>CO2:</b> Basic understanding of Cloud Computing Services. Explain the role of Data in Analytics.</p> <p><b>CO3:</b> Explain the implementation of IOT in various domains. Analyze the significance and use of Blockchain.</p> <p><b>CO4:</b> Assess the role of Cyber Security. Explain Role of Industry 4.0 in make in India.</p>
<b>Group III</b>	<b>Mathematical Economics (Elective)</b>
	<p>include various mathematical techniques/methods/models related to the different parts of economic theory.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Possess a solid grasp of essential mathematical tools required for the further studies in economic theory like Utility Functions</p>

	<p><b>CO2:</b> Solve economic problems based on Consumer Surplus and Production function using the mathematical methods described in the course. Apply mathematical tools to calculate productivity &amp; efficiency</p> <p><b>CO3:</b> Apply mathematical tools in areas like factor and product equilibrium, if necessary, with suitable modifications. Develop an understanding of optimization techniques used in economic theory.</p> <p><b>CO4:</b> Solve economic problems based on Market Structure using the mathematical methods described in the course. Solve economic problems based on static &amp; dynamic equilibrium</p>
<b>Group IV</b>	<b>Fundamental of Environmental Economics (Elective)</b>
	<p>This course basically deals with the concept of resource degradation and market efficiency and resource management.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understand some basic concept of environmental economics and its relationship with economy, ecology and society. Understand the concept of sustainable development and various approaches.</p> <p><b>CO2:</b> Discuss some fundamental measures of environment valuation. Conceptual knowledge of the economic and environmental values. Interpret the role of externalities and its internalization</p> <p><b>CO3:</b> Knowledge about transition of non-renewable resources to renewable resources.</p> <p><b>CO4:</b> Carry out the techniques of pollution control. Understand the relationship between globalization and climate change, trade and environment.</p>
<b>Group IV</b>	<b>Natural Resource in Economics (Elective)</b>
	<p>This course basically deals with the concept of resource degradation and market efficiency and resource management.</p> <p>At the end of the Course Students will be able to:</p>

**CO1:** Introduce the students to concept of public goods and its mechanism. Discuss the links between economy and environment.

**CO2:** Analyze the cost benefit principles of resources. **CO4:** Discuss the origin and evolution of environment economics

**CO3:** Discuss various agreements on environment protection.

**CO4:** Discuss the possibilities and scope of agroforestry. Knowledge about transition of non-renewable resources to renewable resources. Conceptual knowledge of the economic and environmental values.

#### Semester IV

<b>1.</b>	<b>Public Economics II</b>
	<p>The course provides the knowledge of problem of externality and their internalization and trend in land market and regulations</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understand the roles of government from different perspective. Analyze Issues related to market failure and externalities</p> <p><b>CO2:</b> Learning the mechanism of resource allocation. Understanding The theory of voting system.</p> <p><b>CO3:</b> Interpret causes and consequences of public expenditure. Analysis of policies regarding poverty alleviations.</p> <p><b>CO4:</b> Understand the structure of fiscal federalism in India and understand the role of regulation in taxation system.</p>
<b>2.</b>	<b>Economy of Haryana</b>
	<p>The course provides with the basic concepts and methods of measuring development so as to enhance thinking for decision making</p> <p>At the end of the course students will be able to:</p>

	<p><b>CO1:</b> Learning the methods of measuring economic development by various measures and measuring economic inequality and poverty. Understanding the critical role of Trade in Economic development and some important economic theory. Analyze the sectoral aspect of economic development i.e., Agriculture sector.</p> <p><b>CO2:</b> Try to understand the sustainability and employability in all the three sectors. Analyze the sectoral aspect of economic development i.e. Industrial Sector and Service sector</p> <p><b>CO3:</b> Analyze the sectoral aspect of economic development i.e. Service sector or infrastructure. Analyze the role of Foreign Aid and Fiscal policy for development</p> <p><b>CO4:</b> Understanding the role of Good Economic Governance and Development Planning. Interpret the concept of Inclusive Growth</p>
<b>3.</b>	<b>Indian Economy II</b>
	<p>The course provides with the basic idea of performance of different sectors of Indian Economy At the end of the course students will be able to:</p> <p><b>CO1:</b> Carry out the analysis the performance of Service Sector. Demonstrate the understanding concepts of Sustainability of Services Led Growth. Analyze the performance of Infrastructure Development. Demonstrate the Public Policy with the special reference to Competition Policy and Consumer Protection Act.</p> <p><b>CO2:</b> Analyze the Financial Sector of Indian Economy and issues related to it.</p> <p><b>CO3:</b> Demonstrate the concept of Fiscal Federalism. Demonstrate the concept of Fiscal Responsibility and Budget Management Act, 2003.</p> <p><b>CO4:</b> Carry out the analysis the performance of External sector.</p>
<b>Group I</b>	<b>Agribusiness Management (Elective)</b>
	<p>The course provides with the basic concepts of Agribusiness Management and analyzes the issues in Agribusiness management. the end of the course students will be able to:</p>

	<p><b>CO1:</b> Demonstrate understanding the concept and principles of Farm Business Management.</p> <p><b>CO2:</b> Apply the measures of tools of Agribusiness Management. Demonstrate Understanding the management strategy to risk and uncertainties related to agribusiness. Analyze the Farm efficiency measures.</p> <p><b>CO3:</b> Demonstrate understanding the concept of Supply Chain Management.</p> <p><b>CO4:</b> Analyze the Agribusiness Financing in India. Critically assess policies in areas with emphasis on Agribusiness.</p>
<b>Group I</b>	<b>Agriculture Food and Processing Management (Elective)</b>
	<p>This paper will let students to know about various Food industries in India and their Processing Management</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understand about the present status of food industry in India. Explain various factors affecting operations of food industry.</p> <p><b>CO2:</b> Critically assess various principles of food processing. Explain how food packaging and labelling is to be done.</p> <p><b>CO3:</b> Demonstrate how economists tackle a range of policy-related issues that are relevant to food and agricultural businesses like quality management. Explain various issues like risk management and cost in food industry</p> <p><b>CO4:</b> Solve case studies based on various food related industries and explain the processing mechanism of various food industries in India.</p>
<b>Group II</b>	<b>Population Economics (Elective)</b>
	<p>The course provides with the basic concepts and methods of Population Economics so as to know about various aspects of growth of population in a country.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Explain demographic changes in India and their major determinants</p>

	<p><b>CO2:</b> Apply demographic concepts and population theories to explain past and present population characteristics. Evaluate the use of demographic concepts and population theories to understand contemporary socio-economic issues and current affairs.</p> <p><b>CO3:</b> Explain Concept of Migration and causes and consequences of it. Asses the causes and trend of migration in India.</p> <p><b>CO4:</b> Assess the relationship between demographic change and policy. Explain the structure of Population and how ageing affects economy. Explain mortality &amp; fertility differentials in India. Explain how Population affects Economic Development. Evaluate the relationship between mortality &amp; its impact on economic development</p>
<b>Group II</b>	<b>Economic Environment of Business (Elective)</b>
	<p>The course provides with the basic concepts and methods of Economic Business Environment so as to enhance thinking for decision making in Business set up.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate understanding of basic concepts of Business Environment. Understanding the Environment Forecasting technique.</p> <p><b>CO2:</b> Analyze the impact of Economic reforms.</p> <p><b>CO3:</b> Carry out the brief review of industrial policies pre- and post-independence phase. Demonstrate the concept of monetary and fiscal Policy. Demonstrate the concept of Finance Commission</p> <p><b>CO4:</b> Carry out the study of Business Environment at International Level and explain the role of MNCs in development of India.</p>
<b>Group III</b>	<b>Applied Econometrics (Elective)</b>
	<p>The focus of the course is on using time series data and accordingly various models have been selected. A module on simultaneous equation methods has been included in the course which constitutes an important tool for analysis in multivariable and even panel data in development-</p>



	<p>related studies</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Solve the practical problems based on simultaneous equations models</p> <p><b>CO2:</b> Carry out the regression analysis on data set involving time lag. Carry out analysis using Polynomial Distributed Lag Model</p> <p><b>CO3:</b> Carry out the analysis on the data set based on Time Series Data. Understands the concept of Indirect Least Square</p> <p><b>CO4:</b> Demonstrate the understanding of Regression on Panel Data for analysis &amp; Research Purpose. Understand the basic concept of Pooled Data. Carry out the Analysis using Qualitative Model</p>
<b>Group III</b>	<b>Economic Data Analytics (Elective)</b>
	<p>The focus of the course is on using time series data and accordingly various models have been selected. A module on simultaneous equation methods has been included in the course which constitutes an important tool for analysis in multivariable and even panel data in development-related studies.</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understand about basics of Data Analytics. Explain about relationship of data analytics with Business &amp; Economics</p> <p><b>CO2:</b> Apply the measures of central tendency and Measure of dispersion to analyze the data under consideration. Apply the measures of skewness and kurtosis with real data set and explain about robustness of parameters. Carry out the Correlation analysis and measures the Karl Pearson's coefficient of correlation and Spearman's rank correlation.</p> <p><b>CO3:</b> Carry out regression analysis on the data sets and use it for the managerial problems like demand forecasting.</p> <p><b>CO4:</b> Carry out the hypothesis testing using various test like Chi-Square and ANOVA during their Research. Analysis of data set using software like SPSS and STATA</p>

<b>Group IV</b>	<b>Environmental Problem &amp; Policies (Elective)</b>
	<p>The course provides with the basic concepts and methods of analyzing Economic behavior of Individuals, Firms and market</p> <p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate understanding of basic concept of social sector development.</p> <p><b>CO2:</b> Analyze the environmental balance principal. Discuss the cause and consequence of environmental degradation.</p> <p><b>CO3:</b> Explain different approaches to sustainable development. Analyze the basic elements of environmental policy. Discuss the regulation regarding water supply and sanitation.</p> <p><b>CO4:</b> Conceptualize link between energy use and environment pollution and degradation and understand the problem of climate change and globalization.</p>
<b>Group IV</b>	<b>Energy Economics (Elective)</b>
	<p>The course provides with the basic concepts and methods of measuring development so as to enhance thinking for decision making. At the end of the course students will be able to:</p> <p><b>CO1:</b> Learn about basic concept of energy economics &amp; its importance</p> <p><b>CO2:</b> Understand the relationship between renewable and non-renewable natural resources and analyze the sustainability of renewable energy resources. Critically assess the concept of world energy demand and supply in present scenario</p> <p><b>CO3:</b> Analyze of trend in world oil market and geopolitics and xplain the concept of Energy efficiency and energy equity as well as energy conservation</p> <p><b>CO4:</b> Analyze the energy planning and policy in India. Learn the concept of Energy Accounting and Energy Auditing</p>
<i>Note: Student will be able to opt any one group</i>	

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