

# Syllabus

## B.A. (ECONOMICS)

Based on National Education Policy-2020  
(To be Effective from Session 2023-24)



**KAMLA NEHRU INSTITUTE  
OF PHYSICAL & SOCIAL SCIENCES  
Sultanpur (UP)**

Accredited 'A' Grade by NAAC  
*(An Autonomous Institute)*



## B.A. in Economics

The Course is designed for the students pursuing graduation with Economics in regular mode. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory. It aims to develop analytical view point in the students about the economic behaviour of people. The objective is to nurture among student a view point of a socially responsible and ethical aware citizen. The under graduate programme will have 10 courses in 6 Semesters in 3 years. In the Fifth and the Sixth Semester 01 paper is given as optional. In the Fifth Semester it is proposed to have Dissertation/Project keeping in the spirit of the New Education Policy 2020 to introduce research at the graduation level. The structure of syllabus is based on the template of UGC proposed for the CBCS for undergraduates in Economic (Regular).

Programme Specific Outcomes(PSOs)- Student after completing graduation will be able to learn-

PSO 1:	The behavioural patterns of different economic agents, advance theoretical issues and their applications.
PSO 2:	Understand the basic concept of microeconomics.
PSO 3:	Understanding basic concepts of Macroeconomics.
PSO 4:	Acquaint with some basic statistical methods to be applied in economics.
PSO 5:	Acquaint with some basic mathematical methods to be applied in economics.
PSO 6:	Acquaint with some basic theoretical concept of public finance.
PSO 7:	Acquaint with the measurement of development with the help of theories along with the conceptual issues of poverty and inequalities with Indian perspectives.
PSO 8:	Delineate the fiscal policies designed for developed and developing economies.
PSO 9:	Facilitate the historical developments in the economic thoughts propounded by different schools. To familiarise students with the contribution of Indian Economic Thinkers and the relevance of their contribution.
PSO 10:	Learn the basic concept of monetary analysis and financial marketing in Indian financial markets.
PSO 11:	Learn the development issues of Indian economy.
PSO 12:	Acquaint with some basic concept of environmental economics along with the solution of the environmental problems.
PSO 13:	Learn the real and monetary sides of International economics.
PSO 14:	Familiarise and acquaint with the characteristics of the economy of Uttar Pradesh.
PSO 15:	To familiarize the students about issues of ethics in economic thinking and practice.

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**List of all Papers in all Six semesters.**

**Semester-wise Titles of the Papers in BA(Economics)**

Year	Sem.	Course Code	Paper Title	Theory/Practical	Credits
1	I	A080101T	Principle of Micro Economics	Theory	6
1	II	A080201T	Principles of Macro Economics	Theory	6
2	III	A080301T	History of Economic Thought	Theory	6
2	IV	A080401T	Money, Banking and Public Finance	Theory	6
3	V	A080501T	Economic Growth and Development	Theory	5
3	V	A080502T/ A080503T	<b>Optional Paper(Any 1)</b> Environmental Economics Or International Economics	Theory	5
3	V	A080504R	Elementary Statistics based Project	Practical	3
3	VI	A080601T	Indian Economy & Economy of Uttar Pradesh	Theory	5
3	VI	A080602T/ A080603T	<b>Optional Paper(Any 1)</b> Agriculture Economics Or Elementary Mathematics	Theory	5
3	VI	A080604R	Dissertation/Project On the Local Issues with Economic Focus plus Presentation on Ppt of the Dissertation	Project	3

**BA 1<sup>st</sup> Year, Sem. I,  
Course I  
(Theory)**

Programme/Class: Degree/ BA	Year: First	Semester: First
Subject: Economics		
Course Code: A080101T	Course Title: Principle of Micro Economics	
<p>Course Outcome:</p> <ul style="list-style-type: none"> <li>• The students are familiarized with basic concepts of microeconomics such as laws of demand and supply and elasticity etc so that he/she can comprehend them &amp; familiarize with day today happenings.</li> <li>• The students learn and understand the concepts of consumer behaviour like cardinal utility and ordinal utility analysis.</li> <li>• The students learn and understand application of Indifference curve analysis in deriving demand curves, price effect, income effect and substitution effect.</li> <li>• The students learn and understand the Theory of production- iso-quants, laws of returns to scale, law of variable proportion.</li> <li>• The students learn, understand and compare between the Traditional and modern theory of cost.</li> <li>• Demonstrate an understanding, usage and application of basic economic principles.</li> <li>• Describe and apply the methods for analyzing consumer behavior through demand and supply, elasticity and marginal utility.</li> <li>• To analyze the behavioral patterns of different economic agents regarding profit, price, cost etc.</li> <li>• The decision-making process in different market situations such as perfect competition, monopolistic competition, monopoly and oligopoly markets.</li> <li>• To deal with the advance theoretical issues and their practical applications of distribution theories.</li> <li>• General equilibrium, economic efficiency and market failure.</li> </ul>		

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Credits: 6		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks: 40
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w		
Unit	Topics	No. of Lectures
<b>Part I</b>		
I	Introduction: Problem of scarcity and choice: scarcity, choice and opportunity cost; production possibility frontier; economic systems. Demand and supply: law of demand, determinants of demand, shifts of demand versus movements along a demand curve, market demand, law of supply, determinants of supply, shifts of supply versus movements along a supply curve, market supply and market equilibrium.	12
II	Consumer Theory: Budget constraint, concept of utility, diminishing marginal utility, Diamond water paradox, income and substitution effects; consumer choice: indifference curves, derivation of demand curve from indifference curve and budget constraint. Elasticity of demand.	12
III	<b>Production and Costs:</b> Production: behavior of profit maximizing firms, production process, production functions, law of variable proportions and returns to scale, choice of technology, isoquant and isocost lines, cost minimizing equilibrium condition.	11
IV	<b>Production and Costs:</b> Concept and Types, Total, Average and Marginal cost: short run and long run, Interrelationship between cost curves. Concept of revenue, Total, Average and Marginal revenue and its interrelationship, shape of revenue curves. Break even analysis.	11
<b>Part II</b>		
V	Market Structures a. Perfect Competition: a. Assumptions: theory of a firm under perfect competition, demand and revenue; equilibrium of the firm in the short run and long run; long run industry supply curve: increasing, decreasing and constant cost industries.	11
VI	Theory of a Monopoly Firm Concept of imperfect competition; short run and long run price and output decisions of a monopoly firm; concept of a supply curve under monopoly; comparison of perfect competition and monopoly, social cost of monopoly, price discrimination; remedies for monopoly: Antitrust laws, natural monopoly.	11
VII	Concept of Factor income: Marginal Productivity theory, Concept of rent and Quasi-rent, theories of rent: classical and modern, concept of quasi-rent. Concept of Wage and Wage Determination; Theories: Classical, Neo-Classical and Modern.	11

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VIII	Concept of Interest and its theories: Classical, Neo-Classical and Keynes liquidity preference theory; Concept and Theories of Profit: Classical, Neo-Classical and Modern.	11
Suggested Readings:		
<ol style="list-style-type: none"> <li>1. Ahuja, H.L.(2013) : Advanced Economic Theory", S.Chand &amp; Company. Shastri,Rahul.A (1999) : Microeconomics", Orient Blackswan.</li> <li>2. Ahuja,H.L (2012) :Ucchar Arthik Siddhant", S.Chand &amp; Company, New Delhi.</li> <li>3. Dwivedi,D.N (2011) :Microeconomics-Theory &amp; Applications", Pearson.</li> <li>4. Lal, S.N (2013): Arthshastra Ke Siddhant", Shiva Publishing House, Allahabad. Seth,M.L (2012) : Arthshastra Ke Siddhant", Laxmi Narayan Publications, Agra</li> <li>5. Lipsey, Richard&amp;Chrystal,Alec (2011) : Economics", Oxford University Press Publications, New Delhi.</li> <li>6. Pindyck,Robert.S., Rubinfeld.Daniel.L., Melitz.Prem.L(2009): Microeconomics", Pear son.</li> <li>7. Salvatore, Dominic(2010) : Principles of Microeconomics", Oxford University Press Publications, New Delhi.</li> <li>8. Samuelson,Paul.A&amp; Nordhaus, William.D(2010): Economics", Tata McGraw Hill.</li> <li>9. Koutsoyiannis, A (2008) (2nded): Modern Microeconomics", Macmillan.</li> <li>9. Stonier, A.W&amp; Hague Douglas.C (2003)(5thed) : A Text Book of Economic Theory", Pearson.</li> </ol>		
Suggested Continuous Evaluation Methods:		
Assignment / Test / Quiz(MCQ) / Seminar/ Presentations/ Research orientation of students.		
Suggested equivalent online :		
Swayam Coursera		

**BA 1<sup>st</sup>Year, Sem. II,  
Course I  
(Theory)**

Program/Class: Degree/BA	Year: First	Semester: Second
Subject: Economics		
Course Code: A080201T	Course Title: Macro Economics	
Course Learning Outcomes		
<ul style="list-style-type: none"> <li>• Students are able to explain national income, comprehend calculation methods of national income, and concepts related to national income.</li> <li>• Students are able to comprehend classical theory of employment and the Keynesian approach.</li> <li>• Students are able to comprehend the concept of multiplier and it's working.</li> <li>• Students are able to understand the relationship between inflation and employment.</li> <li>• Students are able to relate factors determining national income such as consumption, saving and investment.</li> <li>• Students are able to analyze different phases of trade cycle, demonstrate various trade cycle theories, understand the impact of cyclical fluctuation on the growth of business, and lay policies to control trade cycle.</li> </ul>		
Credits: 6		Core Compulsory
Max. Marks: -25+75		Min. Passing Marks:40
Total No. of Lectures-Tutorials-Practical (in hours per week): 1- 4/w		
Unit	Topics	No. of Lectures
1	Introduction: What is macroeconomics? Macroeconomic issues in an economy. Macro vs. Micro Economics, Limitations of Macroeconomics; Introduction to National Income. Concepts of GDP,	12

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II	National Income Accounting: Concepts of GDP, GNP, NDP and NNP at market price and factor cost; Personal Income and Disposable Personal Income. Measurement of National Income- Income, expenditure, product or Value added Methods and related aggregates; nominal and real income; limitations of the GDP concept.	12
III	Circular Flow of Income and expenditure in two, three, and four-sector economy. National Income and Economic Welfare; Green Accounting.	11
IV	Classical Theory of Employment. Say's Law of Markets. Keynes' Objection to the Classical Theory; Aggregate Demand and Aggregate Supply Functions; The Principle of Effective Demand; Consumption Function - Average and Marginal Propensity to Consume; Factors influencing Consumption Spending	11
Part II		
V	The Investment Multiplier and its Effectiveness in LDCs; Theory of Investment - Autonomous and Induced Investment; Marginal Efficiency of Capital; Savings and Investment - Ex Post and Ex Ante, Equality and Equilibrium. Principle of Accelerator.	11
VI	Rate of Interest: Classical, Neo-Classical and Keynesian Theories of Interest. Indeterminateness in Liquidity Preference Theory.	11
VII	IS-LM Analysis: Derivations of the IS and LM functions; IS-LM and aggregate demand; shifts in the AD curve.	11
VIII	Inflation and Unemployment Concept of inflation; determinants of inflation; relationship between inflation and unemployment; Phillips Curve in short run and long run.	11

**Suggested Readings:**

1. Ackley, G (1976) : Macroeconomics: Theory And Policy, Macmillan, New York.
2. Ahuja, H.L (2012) : Macroeconomics: Theory and Policy , S. Chand & Company, New Delhi.
3. Ahuja, H.L (2012) : Samasti Arthashastra , S. Chand & Company, New Delhi. Lal, S.N (2012 ) : Samastibhavi Visleshan , Shiva Publishing House, Allahabad.
4. Branson, W.A (1989) : Macroeconomics Theory And Policy, Harper & Row.
5. D.L (1969) : Advanced Macroeconomics, McGraw Hill, New York.
6. Dornbusch, Rudiger & Startz, Richard (2012): Macroeconomics , Tata McGraw Hill Education.
7. Dwivedi, D.N (2010) : Macroeconomics: Theory and Policy , Tata McGraw Hill Education.
8. Gupta, R.D. & Rana, A.S (2009) : Keynes post-Keynesian Economics , Kalyani Publishers, New Delhi & Ludhiana.
9. Hansen, A.H (1953) : A Guide To Keynes, McGraw Hill.
10. Jhingan, M.L (2010): Macroeconomics , Vrinda Publications, New Delhi.
11. Jhingan, M.L (2012) : Samasti Arthshastra , Vrinda Publications, New Delhi.
12. Shapiro, Edward (2005): Macroeconomic Analysis, Galgotia Publications, New Delhi.
13. Sikdar, Saumyen (2011) : Principles of Macroeconomics , Oxford University Press, New Delhi.
14. Surrey, M.J.C (1976) : Macroeconomic Themes, Oxford University Press. Romer,

**Suggested Continuous Evaluation Methods:**

Assignment / Test / Quiz (MCQ) / Seminar/ Presentations/ Research orientation of students.

**Suggested equivalent online :**

Swayam  
Coursera

BA 2<sup>nd</sup> Year, Sem. III  
Course I  
(Theory)

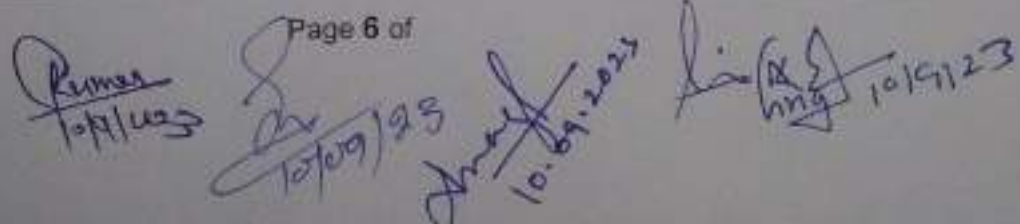
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Programme/Class: Degree/BA	Year: Second	Semester: Third
Subject: Economics		
Course Code: A080301T	Course Title: History of Economic Thought	
<b>Course outcomes:</b>		
<ul style="list-style-type: none"> <li>To learn and discuss, at an advanced undergraduate level, how the economic thought has evolved overtime.</li> <li>Introducing students to the critical comparison of the contributions of the main schools of economics.</li> <li>To introduce &amp; highlight before the students about Indian Economic Thinkers and their valuable contribution in the field of Economics.</li> <li>The classical, the marginalize revolution and its application to the theories of general and partial equilibrium, the current macroeconomic debate between the neo-classical and the Keynesian school.</li> </ul>		
Credits: 6		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks: 40
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w		
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
<b>Part I</b>		
I	Kautilya, Dada Bhai Naoroji, RC Dutt, BR Ambedkar, R M Lohia, Gandhian Economics.	12
II	JK Mehta, A K Sen, J. Bhagwati.	12
III	Early Period: Economic thought of Plato and Aristotle - Doctrines of Just Cost and Just price.	11
IV	Mercantilism: Main Characteristics; Thomas Munn - Physiocracy: Natural Order, Primacy of Agriculture, Social Classes, Tableau Economique, Taxation, Turgot - Economic ideas of Petty, Locke and Hume.	11
<b>Part II</b>		
V	Classical Period: Adam Smith - Division of Labour, Theory of Value, Capital Accumulation, Distribution, Views on Trade, David Ricardo, Distribution, Ideas on International Trade; Thomas R. Malthus, Theory of Gluts.	11
VI	German Romantics and Socialists — Sismondi, Karl Marx — Dynamics of Social Change, Labour Theory of Value, Surplus Value, Profit, And Theory of Capitalist Crisis; Economic Ideas of J.B. Say, J.S. Mill.	11
VII	Marshall as a Great Synthesizer: Role of Time in Price Determination, Economic Methods, Ideas on Consumer's Surplus, Elasticity, Representative Firm, Quasi-Rent, Pigou: Welfare Economics; Schumpeter.	11
VIII	Marginalists: The Precursors of Marginalism, Cournot, Gossen — The Marginalist Revolution: Jevons, Walras and Menger - Bohm-Bawark, Wicksell and Fisher.	11
<b>Suggested Readings:</b>		
<ol style="list-style-type: none"> <li>Bhatia, H.L. : History of Economic Thought, Vikash Publishing House.</li> <li>Blackhouse, R (1985) : A History of Modern Economic Analysis, Basil Blackwell, Oxford.</li> <li>Ganguli, B.N(1977) : Indian Economic Thought : A 19th Century Perspective, Tata Mcgraw Hill.</li> <li>Hajela, T.N (2011) : Aarthik Vicharon Ka Itihas, Ane Books.</li> <li>Hajela, T.N (2011) : History Of Economic Thought, Ane Books.</li> <li>Hunt, E.K &amp; Lautzenbeiser, Mark (2011) : History of Economic Thought: A Critical Perspective, Phi Learning.</li> <li>Jhingan, M.L (2008): Aarthik Vicharon Ka Itihas, Vrinda Publications, New Delhi.</li> <li>Kautilya (1992). The Arthashastra, Translated And Introduced By L.N.Rangarajan, Penguin Books.</li> <li>Loknathan, V (2009) : History of Economic Thought, S.Chand &amp; Company.</li> <li>Roll, Eric : History of Economic Thought, Faber.</li> <li>Schumpeter, J.A(1954): History of Economic Analysis, Oxford University Press, New York.</li> </ol>		

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12. Sinha, V.C (2011) : Aarthik Vicharon Ka Itihas , Mayur Pu  
 13. Staley, Charles.E, "A History of Economic Thought: From Aristotle To Arrow", Blackwell Publishing.

Suggested Continuous Evaluation Methods:  
 Assignment / Test / Quiz/ MCQ) / Seminar/ Presentations/ Research orientation of students.

Suggested equivalent online :  
 Swayam

**BA 2<sup>nd</sup>Year, Sem. IV**  
**Course I**  
**(Theory)**

Program/Class: Degree /BA	Year: Second	Semester: Fourth
Subject: Economics		
Course Code: A080401T	Course Title: Money, Banking and Public Finance	
<b>Course-outcomes:</b>		
<ul style="list-style-type: none"> <li>• Understand simple concepts related with monetary economics and banking theory.</li> <li>• Correlate and apply to current events &amp; key models and concepts of monetary economics and banking theory.</li> <li>• Appreciate the potential importance of monetary phenomenon in the economy.</li> <li>• Understand the sources of finance both public and private</li> <li>• Demonstrate the role of government to correct market failures and possible advantage of public financing.</li> <li>• Understand the possible burden, benefits and distribution of various types of taxes among various classes of people, know the general trend and impact on general welfare and arouse them to suggest good and bad tax system.</li> </ul>		
Credits: 6	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks: 40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w		
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
<b>Part I</b>		
I	Money and Value of Money; Money - Meaning, Functions and Classification; Gresham's Law; Role of Money in Capitalist, Socialist and Mixed Economies; Monetary Standards -Metallic and Paper Systems of Note Issue. Quantity Theory of Money - Cash Transaction and Cash Balance Approaches; The Keynesian Approach.	12
II	Supply of Money; Definitions—Determinants of Money Supply—High Powered Money and Money Multiplier—Indian Currency system.	12
III	Commercial Banking: Meaning and types; Functions of Commercial Banks; The process of Credit Creation - Purpose and Limitations; Liabilities and Assets of banks; Evolution of Commercial Banking in India after Independence; A Critical Appraisal of the Progress Of Commercial Banking after Nationalization; Recent Reforms in Banking Sector in India.	11
IV	Functions of a Central Bank; Quantitative and Qualitative Methods of Credit Control - Bank Rate Policy, Open Market Operations, Variable Reserve Ratio and Selective Methods; Role and Functions of the Reserve Bank of India; Objectives and Limitations of Monetary Policy with Special Reference to India.	11

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**Part II**

V	Nature and Scope of Public Finance: Meaning and scope of Public Finance; Distinction between Private and Public Finance; Public Goods Vs. Private Goods; The Principle of Maximum Social Advantage; Market Failure; Role of the Government.	11
VI	Public Expenditure: Meaning, Classification and Principle of Public Expenditure; Canons and Effects of Public Expenditure; Trends in Public Expenditure and Causes of Growth of Public Expenditure in India.	11
VII	Taxation: Sources of Public Revenue; Taxation — Meaning, Canons and Classification of Taxes; Division of Tax Burden — The Benefit and Ability-To-Pay Approaches; Impact and Incidence of Taxes; Taxable Capacity; Effects of Taxation; Characteristics of A Good Tax System.	11
VIII	Fiscal policy: Components, Instruments, Objectives. Role of Fiscal Policy in Developed and Developing Countries, Budget Structure of the Government of India, State Budget- Sources of Revenues and Expenditures. Major Tax Reforms in India. Fiscal Federalism in India: Union-State Fiscal Relations, Federal Fiscal Imbalances and the Role of Finance Commission. Finances of Local Bodies.	11

**Suggested Readings:**

- ❖ Bagchi, Amaresh (2005) : Readings in Public Finance, Oxford University Press.
- ❖ Cullis, John & Jones Philip (2009) : Public Finance and Public Choice, Oxford University Press.
- ❖ Eyster, Robert (2009) : Money and Banking- An International Text, Routledge.
- ❖ Gupta, Janak Raj (2011) : Public Economics in India Theory and Practice, Atlantic.
- ❖ Gupta, S.B (2009) : Monetary Economics- Institutions, Theory & Policy, S.Chand & Company, New Delhi.
- ❖ Head, J.C (1974): Public Goods and Public Welfare, Durham, NC, Duke University Press.
- ❖ Inge Kaul, Pedro Conceicao (2006): The New Public Finance, Oxford University Press.
- ❖ Jhingran, M.L. (2012) : Monetary Economics, Vrinda Publications, New Delhi.
- ❖ Jhingran, M.L. (2012) : Maudrik Arthashastra, Vrinda Publications, New Delhi.
- ❖ Johansen, Life (1965) : Public Economics, Chicago: Rand McNally.
- ❖ Khanna, Perminder (2005): Advanced Study in Money and Banking: Theory and Policy Relevance in The Indian Economy, Atlantic.
- ❖ Lal, S.N (2012): Mudra, Banking, Avam Videshi Vinimay, Shiva Publishing House, Allahabad.
- ❖ Margolis, J & Guilton, H : Public Economics (1974), Mcmillan.
- ❖ Musgrave, R.A (1959), The Theory Of Public Finance, McGraw Hill.
- ❖ Musgrave, R.A & P.B. Musgrave (1989) : Public Theory: Theory & Practice, McGraw Hill.
- ❖ Nadar, E. Narayanan (2013) : Money and Banking, PHI Learning Press.
- ❖ Paul, R.R (2011): Money, Banking & Exchange, Kalyani Publishers, Delhi.
- ❖ Seth, M.L (2012) : Maudrik Arthashastra, Laxmi Narayan Publications, Agra.
- ❖ Shome Parthasarathi (2002): India's Fiscal Matters, Oxford University Press, New Delhi.
- ❖ Uppal, R.K (2011): Money, Banking and Finance in India- Evolution & Present Structure New Century Publications.

**Suggested Continuous Evaluation Methods:**

Assignment / test / Quiz (MCQ) / Seminar/Presentations/ Research orientation of students

**Suggested equivalent online:**

Swayam  
Coursera

**BA 3<sup>rd</sup> Year, Sem. V**

**Course I  
(Theory)**

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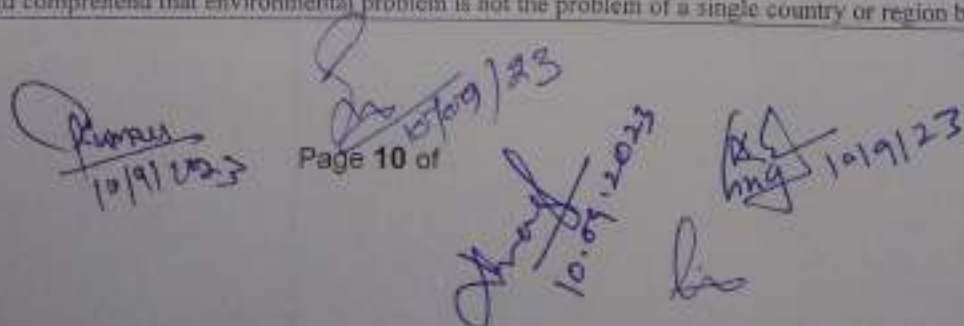
Programme/Class: Degree/BA		Year: Third	Semester: Fifth
Subject: Economics			
Course Code: A080501T		Course Title: Economic Growth and Development	
<b>Course outcomes:</b>			
<ul style="list-style-type: none"> <li>• Students should be able to comprehend the concept and meaning of economic growth and economic development.</li> <li>• Students should be able to distinguish between economic growth and economic development.</li> <li>• Students should be able to comprehend the issues and challenges in economic growth and development.</li> <li>• Students should be able to comprehend and explain the concept of poverty and human development &amp; the related concepts.</li> <li>• Students should be familiar with the approaches to development.</li> <li>• Students should be able to understand and explain the factors and variable of economic development.</li> <li>• Students are able to understand how international factors facilitate and impede economic development.</li> </ul>			
Credits: 5		Core Compulsory	
Max. Marks: 25+75		Min. Passing Marks: 40	
Total No. of Lectures-Tutorials-Practical (in hours per week): P- 2/w			
Unit	Topics	No. of Lectures	
<b>Part I</b>			
I	Meaning and Measurement of Economic Growth and Development- Measuring Development and Development Gap, GDP, GNP, Per Capita Income.	10	
II	Concept of Poverty and Inequality, Vicious cycle of poverty, Lorenz Curve, Gini Coefficient Concept of Human Development, Human Development Index, Physical Quality of Life Index, Hunger Index, Development and Sustainability. Concept of Sustainable Development, Millennium Development goals (MDG) and Sustainable Development goals (SDG).	10	
III	Lewis model of labour surplus economy, Rosentefin Rodan's theory of Big Push, Nelson's Level equilibrium trap, Rostow's stages of growth, Harvey Leibenstein's critical minimum effort thesis.	10	
IV	Classical theory of economic growth, Harrod and Domar Growth models, balanced vs Un-balanced growth. The Concept of Inclusive Growth with Reference to India. Food Security, Education, Health and Nutrition, Gender and Development.	10	
<b>Part II</b>			
V	Development & Underdevelopment: an Overview; the Characteristics and Explanations of Underdevelopment, Circular Causation, Dualism-Social, Technological, Financial, Organizational, Model of Dual Economy.	10	
VI	Models of Technical Progress, Embodied and Disembodied Technical Progress, Neutral Technical Progress- Hicks and Harrod Technical Progress Function, Arrow's Learning by Doing, Approach to Economic Growth.	10	
VII	Accumulation Endogenous growth, Intellectual capital, Role of Learning, Education and Research, Explanations of Cross country Differentials in Economic Growth, Information Paradigm-Stiglitz.	8	
VIII	International aspects of economic development, International trade, FDI, FII, Regional cooperation (SAPTA, NAFTA, SAARC, BRICS etc.) , WTO and developing countries.	7	
<b>Suggested Readings:</b>			
♦ Barro, Robert J and Xavier Sala-i- Martin, Economic Growth, The MIT Press.			

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- Cambridge, Latest Edition.
- ◆ Basu, Kaushik (2010): Analytical Development Economics: The Less Developed Economy, Oxford University Press.
  - ◆ Dasgupta, Dipankar: Growth Theory, Oxford University Press, 2007
  - ◆ Ghatak, S., An Introduction to Development Economics. Allen and Unwin London, latest edition.
  - ◆ Hayami, Y., Development Economics, Oxford University Press, New York, 2010 (5th Impression)
  - ◆ Hayami, Yujiro & Godo, Yoshihisa (2005) : Development Economics: From the Poverty to the Wealth of Nations, Oxford University Press.
  - ◆ Hendrik Van Den Berg, Economic Growth and Development, McGraw-Hill International Edition, 2005
  - ◆ Jhingan, M.L (2013): Economics of Development and Planning, Vrinda Publications, New Delhi.
  - ◆ Jhingan, M.L (2013): Vikas Ka Arthshastra Awam Niyojan, Vrinda Publications, New Delhi.
  - ◆ Lal, S.N (2012): Vikas, Niyojan Awam Paryavaran, Shiva Publishing House, Allahabad.
  - ◆ Lekhi, R.K (2013): Economics of Development and Planning, Kalyani Publishers, New Delhi.
  - ◆ Meier, G.M., Leading Issues in Economics Development, Oxford University Press, New Delhi, Latest edition.
  - ◆ Mishra, S.K & Puri, V.K (2012): Economics of Development and Planning, Himalaya Publishers, Mumbai.
  - ◆ Ray Debraj, Development Economics, Oxford University Press, Latest Edition.
  - ◆ Singh, Kartar & Shishodia (2007): Environmental Economics: Theory and Applications, Sage India.
  - ◆ Singh, S.R (2012): Environmental Economics, APH Publishing Corporation, Delhi.
  - ◆ Somashekar, NT: Developmental Economics, New Age Publication (Latest edition)
  - ◆ Taneja, M.L & Myer, R.M (2011): Arthshastra Ki Yojnaye Awam Vistaar, Visha Publishing Company, Jalandhar (New Delhi).
  - ◆ Thirlwall, A.P., Growth and Development with Special Reference to Developing Economies, Macmillan, UK, 1999.
  - ◆ Todaro, Michael P & Smith, Stephen C (2011) : Economic Development, Pearson.

**BA 3<sup>rd</sup> Year, Sem. V**  
**Course II (Optional)**  
**(Theory)**

Programme/Class: Degree/BA	Year: Third	Semester: Fifth
Subject: Economics		
Course Code: A080502T	Course Title: Environmental Economics	
<b>Course outcomes:</b>		
<ul style="list-style-type: none"> <li>● Students should be familiar with the basic concepts of ecology environment and economy.</li> <li>● Students to understand the solution to environmental problems- the command and control approach, market based methods, tax tradable pollution permit, etc, carbon trading</li> <li>● Students should be familiar with the concept of Sustainable development, environmental impact assessment CO 5: Global and local environmental concerns.</li> <li>● Students should be comprehend the Local Issues of Economic Bearing related to environment &amp; development.</li> <li>● Students should realize the importance and influence of environment on the economy including the quality of manpower.</li> <li>● Students should realize the importance to make cleaner environment so as to achieve harmonious development.</li> <li>● Students should comprehend that environmental problem is not the problem of a single country or region but</li> </ul>		


  
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- Demonstrate an awareness of economic growth problems, issues in globalisation, and provide grounding in major growth strategies and development.

Credits: 5		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks: 40
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w		
Unit	Topics	No. of Lectures
<b>Part I</b>		
I	Introduction: Key environmental issues and problems, economic way of thinking about these problems, basic concepts from economics; Pareto optimality and market failure in the presence of externalities; property rights and other approaches.	10
II	The Design and Implementation of Environmental Policy: Overview, Pigouvian taxes and effluent fees, tradable permits, implementation of environmental policies in India and international experience; trans-boundary environmental problems; economics of climate change	10
III	Environmental Valuation Methods and Applications: Valuation of non-market goods and services—theory and practice; measurement methods; cost-benefit analysis of environmental policies and regulations.	10
IV	Sustainable Development: Concepts; measurement; perspectives from Indian experience.	7
<b>Part II</b>		
V	The Theory of Externality- Positive & Negative Externality; Public Goods; Private Goods; Public Bads; Market Failure and Pigouvian Solution- Pigouvian Tax.; Coase's Theorem And Property Rights; Eco- Labelling; Eco-Efficiency.	8
VI	Social Limits to Growth Model; Green Accounting; Environmental Valuation- Meaning, Need for Environmental Valuation, Methods of Environmental Valuation; Difficulty in Measuring Environmental Values, Environmental Damages and Its Valuation.	10
VII	Indian Constitution and the Environment; Environmental Management- Meaning and Concept, Objectives and Goals, Obstacles; Environmental Impact Assessment; Environmental Education and Awareness-Dilemma of Environmental Ethics and Practical Problems, Environmental Education in India.	10
VIII	Population and Environment; Trade and Environment in the WTO Regime; Climate Change- Meaning and Concept, Ozone Depletion, Acid Rain, Global Warming and Greenhouse Effect; Indian Environmental Issues and Legislations; Role of Judiciary in Environmental Protection and Conservation; International Environmental Issues and Legislations, Carbon Trading.	10
<b>Suggested Readings:</b> <ul style="list-style-type: none"> <li>• Bharucha, Erach : Paryavaran Adhyam, Orient Blackswan.</li> <li>• Bhattacharya, Rabintra Nath (2002): Environmental Economics – An Indian Perspective, Oxford University Press.</li> <li>• Eugene, T (2005) : Environmental Economics, Vrinda publications, Delhi.</li> <li>• Jhingran, M.L &amp; Sharma, C.K (2009) : Environmental Economics Theory Mgt &amp; Policy, Vrinda publications, Delhi.</li> <li>• Kolstad, Charles. D (2012): Intermediate Environmental Economics, Oxford University Press.</li> </ul>		

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- Nagre, Vijay.H (2012) : Environmental Economics, Chandrasek Prakashan.
- Singh, Kartar & Shahodia (2007): Environmental Economics: Theory and Applications, Sage India.
- Singh, S.R(2012): Environmental Economics, APH Publishing Corporation, Delhi.
- Smith, Stephen (2011): Environmental Economics: A Very Short Introduction, Oxford University Press.
- Tripathi, Daya Shanker : Paryavaran Adhyayan, Motilal Banarasisdass Pvt Ltd.

**B A 3<sup>rd</sup>Year,  
Sem.V Course II (Optional)  
(Theory)**

Program/Class: Degree /BA	Year: Third	Semester: Fifth
Subject: Economics		
Course Code:A080503T	Course Title: International Economics	
<b>Course outcomes:</b>		
<ul style="list-style-type: none"> <li>• Students should be able to understand and explain the concept, need, significance and scope of international economics.</li> <li>• Students should be familiar with the approaches of international trade.</li> <li>• Students should be familiar with and are able to explain the economic integration at the global level and the formation of groups.</li> <li>• Students are familiar with the international organizations and their objectives. Students should be able to analyse the importance and relevance of these international organizations.</li> </ul>		
Credits: 5	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks:40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w		
Unit	Topics	No. of Lectures
<b>Part I</b>		
I	Need, Significance and Scope of International Economics. Early Trade Theory-Mercantilism; The Classical Theories of Trade -Adam Smith, David Ricardo; Opportunity Cost Approach; Terms of Trade-Meaning and Concepts, Factors affecting Terms of Trade; Mill's Reciprocal Demand Analysis.	8
II	Free Trade and Protection-Meaning of Free Trade, Arguments For and Against Free Trade, Meaning of Protection, Arguments for Protection-Economic and Non-Economic Arguments; Protection and Less Developed Countries.	7
III	Theories and Forms of Economics Integration-Meaning &Benefits; Forms of Economic Integration- Custom Union: Production and Consumption Effects of Customs Union; Problems Involved in the Formation of Customs Union; Political Economy of Protection; SAFTA,BRICS.	10

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IV	Balance of Payments-Concepts ; Adjustment Mechanisms of Balance of Payments- Adjustment Through Variations in Exchange Rates, Devaluation and Balance of Payments Adjustment, The Elasticity Approach, Marshall-Lerner Condition.	10
Part II		

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V	Hicksian-Ohlin Theorem, The Leontief Paradox, Effects of Growth on International Trade- Production & Consumption Effects, Export Possibilities, Immiserising Growth, Gains from Trade.	10
VI	International Financial Institutions-IMF, WB, WTO- TRIPS & TRIMS, WTO and India, UNCTAD, Globalization, FDI.	10
VII	Quantitative Restrictions- Quota-Meaning, objectives, Types and Effects of Import Quotas, Tariffs-Meaning Types and Effects of Tariffs, Non-Tariff Barriers-Meaning, Classification and Types.	10
VIII	Foreign Exchange-Meaning and Instruments, Exchange Rate Determination, Mint Par Parity theory, Purchasing Power Parity Theory, Hedging, Foreign Exchange Rate Policy- Fixed, Flexible & Multiple Exchange Rate System, Convertibility of Rupee in Current Account and Capital Account.	10

**Suggested Readings:**

- Agarwal, Babita (2009) : Antaryastriya Arthshastra, Omega Publications.
- Bhatia, H.L. (2006) : International Economics, Vikash Publishing House.
- Charnathan, Francis (2008) : International Economics" Tata McGraw Hill Education.
- Field, Alfred J & Appleyard, Dennis R (2013) : International Economics, McGraw Hill Education.
- Gerber, James (2012) : International Economics, Pearson.
- Jhingan, M.L. (2011) : Antaryastriya Arthshastra, Vrinda Publications, New Delhi.
- Krugman, Paul R & Obstfeld, Maurice (2008) : International Economics, Pearson.
- Lal, S.N. (2012) : Antaryastriya Arthshastra, Shiva Publishing House, Allahabad.
- Mansur, H.G (2001) : International Economics, Vikash Publishing House Pvt Ltd.
- Salvatore, Dominick (2012) : International Economics: Trade & Finance, Wiley Publishers.
- Sinha, V.C., Sinha, Pushpa & Sinha, Vivek (2011) : Antaryastriya Vyapar Avam Vnt, Mayur Publications.
- Vaishya, M.C. & Singh, Sudama (2006) : International Economics , Oxford & IBH Publishing House, Delhi.

**Suggested Continuous Evaluation Methods:**

Assignment / test / Quiz (MCQ) / Seminar/Presentations/ Research orientation of students

**Suggested equivalent online :**

Swayam

**BA 3<sup>rd</sup> Year, Sem. V**

**Course III**

**(Project)**

Program/Class: Degree /BA	Year: Third	Semester: Fifth
Subject: Economics		
Course Code: A080603B	Course Title: Elementary Statistics based Project	
Course Outcome:		
<ul style="list-style-type: none"> <li>• Students to be familiar with the concepts in Statistics.</li> <li>• The concepts comprehended by the students shall be put to use in practice.</li> </ul>		

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- The students become familiar with the practical aspects of preparing a questionnaire/interview schedule and putting them in usage.
- The information/data collected by the students should be analyzed with the help of Statistical Tools taught so as to derive inferences.
- The students shall experience the practical aspect of the theory of statistics being taught in the class room environment.
- The students are able to use statistical tools vis-à-vis given real life situation.
- Practical work to be based on the topics covered in the contents given below.

Credits: 3	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks:40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w		
Unit	Topics	No. of Lectures
I	Introduction to Basic Concepts in Statistics: Population, Sample, Parameter, Data-Meaning & types. Questionnaire, Schedule & Interview Schedule (meaning, concept & types), Frequency Distribution, Cumulative frequency; Graphic and Diagrammatic representation of data.	45 (Class room teaching and practical)
II	Measures of Central Tendency - Mean, Median, Mode, Geometric mean and Harmonic mean. (Meaning, concept, properties & methods of measurement-in brief). Measure of Dispersion: Range, Mean Deviation, Standard deviation, Coefficient of Variation, Quartile deviation, Skewness and Kurtosis (Meaning, concept, properties & methods of measurement-in brief)	
III	Correlation: Meaning, Concept, Types & Properties. Methods of Regression: Meaning and Concept. Least squares method, Interpretation of Regression Coefficients. Meaning, concept & types of Sampling. Meaning & concept of Hypothesis & hypothesis testing.	
IV	Time Series: Concept, Meaning & Components - Determination of Regular, Trend and Seasonal Indices. Index Number: Concept, Classification of Index Numbers-price relative, quantity relative, value relative & special purpose (in brief). Consumer Price Index(CPI), Whole Sale Price Index (WPI), Methods of Construction of Index Numbers- i Unweighted & ii Weighted indices (in brief). Test of Adequacy of Index Number Formulae (in brief).	

**Suggested Readings:**

- Elhance,D.L (2010) : Sankhiki Ke Siddhant (Hindi), Kitab Mahal.
- Greenlaw, Steven A (2005): Doing Economics: A Guide to Understanding and Carrying Out Economic Research.
- Gupta,S.P (2011) : Statistical Methods, Sultan Chand & Sons, Delhi.
- Hazarika,Padmalochan (2006) : Essential Statistics for Economics and Commerce , Akansha Publishing House.
- Kothari, C.R: Research Methodology: Methods & Techniques. New Age International Publishers ISBN (13) : 978-81-224-2488-1
- Leighton,Thomas (2011) : Using Statistics in Economics, Tata McGraw Hill Education.

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- Lind, Wathen & Marchal (2013): Basic Statistics for Business & Economics, McGraw Hill Education.
- Newbold, Paul (2008) : Statistics for Business and Economics , Pearson Education.
- Richard J. Levin, H. Siddiqui Masood S. Rubin David Sanjay Rastogi (2017): Statistics for Management. Pearson. ISBN-10 8184957491
- Sharma, J.K (2011) : Business Statistics "Pearson Education.

**Note:**

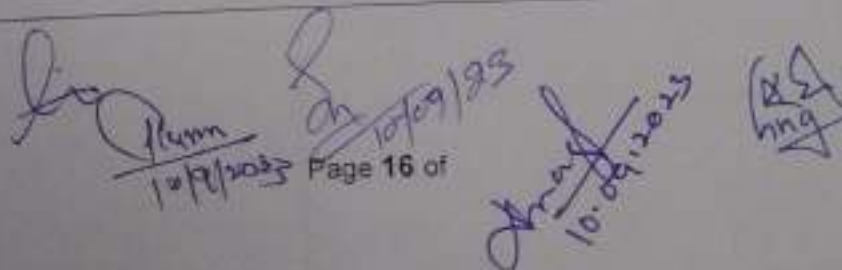
- ❖ Aforestated Four units given are to be taught in the classroom keeping in view that the project is based on the use/application of the Statistical tools taught & as per the focus/objective of the problem.
- ❖ Students are expected to develop an understanding of how to prepare a questionnaire/interview schedule for the usage.
- ❖ The field work will be arranged by the department for which an institutional mechanism will be developed by the respective institution.
- ❖ The students will prepare a thorough report after the completion of the field work and submit it for the evaluation thereafter.
- ❖ The template/format for the submission of the report will be developed by the respective department.

**BA3<sup>rd</sup> Year, Sem. VI**

**Course I  
(Theory)**

Semester: Sixth

Program/Class: Degree /BA	Year: Third	Semester: Sixth
Subject: Economics		
Course Code: A080601T	Course Title: Indian Economy & Economy of Uttar Pradesh	
<b>Course Outcome :</b>		
<ul style="list-style-type: none"> <li>• Students should be able familiar with the basic characteristics of Indian economy.</li> <li>• Students should be able familiar with the it's potential on natural resources of Indian economy and the economy of Uttar Pradesh.</li> <li>• Students are able to understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.</li> <li>• Students are able to develop an understanding about Uttar Pradesh , its demographic features, natural resources and factors that can stimulate its economic growth and development.</li> <li>• Students should be familiar with the rural development of Uttar Pradesh over the period of time.</li> <li>• Students should be familiar with the industrial development in India and in Uttar Pradesh</li> </ul>		
Credits: 5		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks: 40
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w		
Unit	Topics	No. of Lectures
Part I		


  
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I	Structure and Features of Indian Economy: Indian economy as a Developing Economy. Comparative Development of Indian States.	8
II	Agricultural Sector: Institutional Reforms, Technological change in Agriculture, Terms of Trade between Agriculture and Industry; Agricultural Policy, Policies for Sustainable Agriculture, Agrarian Crisis and Agricultural Labour.	10
III	The Industrial Sector: Industrial Policy; Public Sector Enterprises and their Performance, Privatization and Disinvestment debate, Small, Medium and Large-scale Sector, Industrial Labour, trade Union Movement.	10
IV	Planning in India: Objectives and Strategy of Planning, Success story of Indian Plans; Strategy of Inclusive Growth, Resource mobilization for Development.	10
<b>Part II</b>		
V	Nature, Features, Demographic Profile, Status of Natural Resources, Major Factors affecting growth and development in Uttar Pradesh. Economic and non-economic factors in economic development of Uttar Pradesh.	10
VI	Sectoral growth pattern in Uttar Pradesh; Economic growth in Uttar Pradesh and Indian economy: A comparison; Infrastructural development of Uttar Pradesh.	7
VII	Pattern of land-holding and irrigation; production and productivity in agriculture, Farm mechanization, Crop diversification, agricultural credit, Agricultural policy and strategies in Uttar Pradesh, Rural Development in Uttar Pradesh.	10
VIII	Problems and Policies. Major industries in Uttar Pradesh, Pattern of Industrial Development in Uttar Pradesh, Industrial Policy in Uttar Pradesh, Growth pattern of Services sector and its linkages of other sectors of UP Economy. Micro, Small, Medium Enterprises (MSMEs) in Uttar Pradesh. One Product One District (OPOD).	10

**Suggested Readings:**

1. Agarwal, M K (2009): Uttar Pradesh ka Arthik Vikas. New Royal Book Company
2. Annual Financial Statement (Budget) of the Government of Uttar Pradesh published in different years & the latest.
3. Annual Financial Statement (Budget) of the Government of Uttar Pradesh published in different years & the latest.
4. Annual Financial Statement (Budget) various years & Latest published by the Government of India.
5. Economic Surveys, Government of India (Hindi/English)
6. Indian Economy by Mishra & Puri, Himalaya Publishing House (Hindi/English)
7. Indian Economy by Uma Kapila, Academic Foundation
8. Indian Economy, Rudra Dutt & Sunderam, S. Chand & Company (Hindi/English)
9. Mishra, Arvind Narayan & Atul Chandra (2018): The Economy of Uttar Pradesh. Gutenberg Publication ISBN: 9789386240224, 9789386240224
10. Mishra, Arvind Narayan & Atul Chandra (2018): The Economy of Uttar Pradesh. Gutenberg Publication ISBN: 9789386240224, 9789386240224
11. Publications of the Government of Uttar Pradesh.
12. Publications of the Government of Uttar Pradesh.
13. Uttar Pradesh Human Development Report, UNDP, 2008.
14. Uttar Pradesh Human Development Report, UNDP, 2008.
15. Uttar Pradesh State Development Report, Volume I & II, State Plan Division, Planning Commission,

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Government of India, 2014.  
 16. Uttar Pradesh State Development Report, Volume I & II, State Plan Division, Planning Commission,  
 Government of India, 2014.

Suggested Continuous Evaluation Methods:  
 Assignment / test / Quiz (MCQ) / Seminar/ Presentations/ Research orientation of students  
 Suggested equivalent online :  
 Swayam

**BA 3<sup>rd</sup> Year**  
**Sem. VI**  
**Course II (Optional)**  
**(Theory)**

Program/Class: Degree /BA	Year: Third	Semester: Sixth
Subject: Economics		
Course Code: A080602T	Course Title: Agriculture Economics	
<b>Course Outcome</b>		
<ul style="list-style-type: none"> <li>Students should be able to comprehend and explain the approaches to economic development with respect to dualistic development.</li> <li>Students should be able to understand and explain the basics of agriculture economics.</li> <li>Students should be familiar with labour issues in agriculture sector.</li> <li>Students should be able to explain the significance of agriculture in the economic growth and economic development of an economy and in case of Indian Economy.</li> <li>Students should be familiar with the institutional initiatives to strengthen the rural and agricultural development to achieve self sufficiency.</li> <li>Students should be able to comprehend the role of credit in the development of agriculture in a country like India and the significance of institutional mechanism in this regard.</li> </ul>		
Credits: 5	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks: 40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w		
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
<b>Part I</b>		
I	Models of Agricultural Development: Physiocrats approach, W. A. Lewis model, Fei & Ranis Model, Schultz Theory of Agricultural Development, Jorgenson's Dual Economy Model	10
II	Agricultural Production Function, Supply Response, Farm Size, Returns to Scale and Productivity, Cobweb Theorems, Farm Size and Productivity Debate, Theoretical And Empirical Findings, Agricultural Price Policy in India.	10
III	Labour in Agriculture- Interlocking of Factor Markets, Labour and Work Force in Rural Farm and Non-Farm Sectors, Agricultural Labour- Problem and Policy, Concept and Measurement of Rural Poverty & Employment, Poverty Alleviation Programmes (in brief-the Objectives, Achievements & the Shortcomings).	10
IV	Current Issues in Indian Agriculture- Poverty & Food Security in India, Agro- Subsidies in India, Subsidy Vs Public Investment, Export and	10

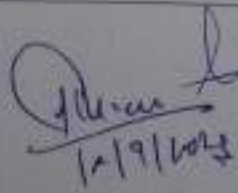
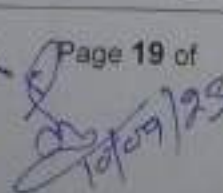
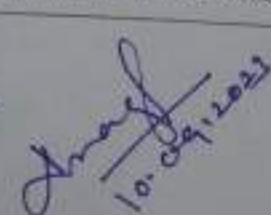

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## Part II

V	Role Of Agriculture in Economic Growth and Development in India. Backward, Forward Linkage between Agriculture and Industry, Approaches towards Agriculture And Allocation of Resources under Different Plans in India. Employment Elasticity in Indian Agriculture, Challenges & Issues Regarding Agricultural Area Expansion, Production and Productivity in India (With Focus On Post Reform (Post 1991 & 1995) Period.	10
VI	Land Reforms in India & Its Contemporary Relevance, Green Revolution and the Need for Second Generation, Green Revolution, Role of Infrastructural Support-Irrigation, Power, Seeds Fertilizers, Marketing Support System and Roads in Agricultural Development in India.	10
VII	Role of Credit in Agricultural Development, Institutional & Non-Institutional Sources of Credit in India, Cooperative Movement in India (In Brief). Role of Schedule Commercial Banks, Lead Banks, Regional Rural Banks and NARBAD to Promote Agricultural Development.	8
VIII	Agricultural Marketing: Meaning and Concept. Structure of Agricultural Markets in India, Issues and Challenges in the Marketing of Agricultural Products in India (With Focus On The Post Reform Period-Post 1991). Agricultural Diversification: Meaning, Concept & Issues. Crop Diversification: Meaning, Concept and Issues. Farm Incomes and Employment in Indian Agriculture.	7

## Suggested Readings:

- Bardhan, P. (1984) Land, Labour and Poverty: Essays in Economic Development, OUP, New Delhi.
- Bhaduri, A. (1984), The Economic Structure of Backward Agriculture; Macmillan, Delhi.
- Bhalla, G.S., (2007) Indian Agriculture since Independence, National Book Trust, India
- Bharadwaj, K. (1974), Production Conditions in India Agriculture; OUP, Cambridge.
- Black, J.D. (1953) Introduction to Economics for Agriculture, Macmillan.
- Dantawala, M.L. et al. (1991); Indian Agricultural Development since Independence, Oxford & IBHI, New Delhi.
- Dash, Mrutyunjay (2013); Agricultural Economics, Anmol Publications.
- Ghatak, Sand K. Ingerscant (1984), Agriculture and Economic Development; Select Books, New Delhi.
- Griffin, K. (1973); Political Economy of Agrarian Change.
- Gupta, P.K (2012) : Agricultural Economics, Vrinda Publications, Delhi.
- Gupta, P.K (2012) : Krishi Arthsastra, Vrinda Publications, Delhi.
- Khusro, A.M. (1973), The Economics of Land Reforms and Farm Size in India, MacMillan.
- Kumar, N.S. Ravi (2010) : Agricultural Economics, Neha Publishers.
- Lekhi, R.K (2013) : Agricultural Economics, Kalyani Publishers.
- Lekhi, R.K (2013) : Krishi Arthsastra, Kalyani Publishers.
- Mahajan, Ashwani (2010); Agricultural Economics, Centrum Press.
- Mellor, J.W., The Economics of Agricultural Development, Vora and Co., Bombay, 1964.
- Raghavan and L. Sarkar (Eds.) (1996); Poverty and Employment: New Delhi.
- Raj, K.N. et al. (1988); Essays in the Commercialization of Indian Agriculture; OUP, New Delhi.
- Rao, CHH (1993); Agricultural Growth, Rural Poverty and Environmental Degradation in India, OUP, New Delhi.
- Rao, CHH, (1975); Technological Change and Distribution of Gains in Indian Agriculture, MacMillan.
- Rudra, A. (1982); India Agriculture Economics; Myths and Reality: Allied Publishers, New, Delhi.

- Sarap Kailash (1991): Interlinked Agrarian Markets in Rural India, Sage Publication, New Delhi.
- Schultz, T.W. (1964): Transforming Traditional Agriculture, Yale University Press.
- Soni, R.N (2011): Krishi Arthshastra Ke Mukhya Vihay, Vishal Publishing Company, Jalandhar (New Delhi)
- Soni, R.N (2011): Leading Issues In Agricultural Economics, Vishal Publishing Company, Jalandhar (New Delhi)
- Sunder, I (2010): Principles of Agricultural economics, Neha Publishers.
- Talathi, J.M (2008): Introduction To Agricultural Economics And Agribusiness Management, Ane Books.
- Taylor, H.C., (1949), Outlines of Agricultural Economics, MacMillan.
- Verma, N.M.P. (1990), Irrigation Change and Agricultural Development, Uppal, New Delhi.

**BA 3<sup>rd</sup> Year, Sem. VI**  
**Course III (Optional)**  
**(Theory)**

Program/Class: Degree :BA	Year: Third	Semester: Sixth
Subject: Economics		
Course Code: A080603T	Course Title: Elementary Mathematics	
<b>Course Outcome</b>		
<ul style="list-style-type: none"> <li>• Students should be familiar with the basis concepts of mathematics and their application in economics.</li> <li>• Students are able to comprehend &amp; explain the concepts of straight lines slope etc of mathematics and its application in economics.</li> <li>• Students should be able to understand basics of differential &amp; its application in economics.</li> <li>• Students should be able to understand and work with matrices and determine if a given square matrix is invertible.</li> <li>• Learn about and work with vector spaces and subspaces.</li> <li>• Students are able to understand and work with the concepts of linear programming &amp; graphic methods.</li> </ul>		
Credits: 5		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks: 40
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w		
Unit	Topics	No. of Lectures
<b>Part I</b>		
I	Basic Concepts: Variables, Sets, Functions, Equations, Identities, Systems of Equations	9
II	Application of Straight Line System, Slope of the Line, Homogeneous Function.	9
III	Role Of Mathematical Techniques In Economic Analysis, Theory of Numbers, Indices and Factorization.	9
IV	Progression, Growth Rate, Equilibrium.	9
<b>Part II</b>		
V	Basics of Calculus: Rules of Differentiation of a Function, Maxima and Minima.	9
VI	Elasticities, Inter-relationships among Total, Marginal and Average Cost and Revenues; Constrained Optimisation Problem; Integration of a Function, Consumer's and Producer's Surplus	10

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VII	Matrix and Determinants: Various types of Matrices, Determinants, Inverse of a Matrix, Cramer's Rule.	10
VIII	Concept of Linear Programming — Graphic Methods.	10
<b>Suggested Readings:</b>		
<ol style="list-style-type: none"> <li>1. Agarwal, D.R. (2009): Mathematics for Economics, Vrinda Publications, Delhi. Livernois, John., Roes, Ray., &amp; Hoy, Michael (2012): Mathematics for Economics, PHI Learning.</li> <li>2. Agarwal, D.R. "Prarambhik Ganitiya Arthshastra (Hindi), Vrinda Publications, Delhi.</li> <li>3. Allen, R.G.D (2008): Mathematical Analysis for Economics, AITBS.</li> <li>4. Bhardwaj, R.S (2006): Mathematics for Economics and Business, Exceffbooks.</li> <li>5. Chiang, A.C &amp; Wainwright, Kevin (2013): Fundamental Methods of Mathematical Economics" McGraw Hill Publication.</li> <li>6. Dowling, Edward T (2005): Schaum's Easy Outline of Introduction to Mathematical Economics, Tata McGraw Hill Education.</li> <li>7. Madhani, G M K: Mathematics for Economics. Sultan Chand &amp; Sons</li> <li>8. Mishra, J.P. "Ganiteeya Arthshastra", Pratiyogna Sahitya.</li> <li>9. Rosser, Mike (2003): Basic Mathematics for Economists, Routledge.</li> <li>10. Seth, M.L., "Arthshastramei Prarambhik Ganit", Laxmi Narayan Publications, Agra.</li> <li>11. Sharma, J.K (2007): Business Mathematics, AneBooks Pvt. Ltd.</li> <li>12. Yamano, Taro (2007): Mathematics For Economists: An Elementary Survey, PHI Learning</li> </ol>		
<b>Suggested Continuous Evaluation Methods:</b>		
Assignment / test / Quiz (MCQ) / Seminar/ Presentation/ Research orientation of students		
<b>Suggested equivalent online :</b>		
Swayam		

**BA3<sup>rd</sup> Year, Sem. VI  
Course IV  
(Project/Dissertation)**

Program/Class: Degree/BA	Year: Third	Semester: Sixth
Subject: Economics		
Course Code: A080604R	Course Title: Project/Dissertation	
<b>Course outcomes:</b>		
<ul style="list-style-type: none"> <li>• The objective of introducing Dissertation/Project at the graduation level is to familiarise, acquaint and experience the local issues of economic implication or focused on economic wellbeing and behaviour of consumers/citizens.</li> <li>• It aims at enabling the students to use and apply the learned economic principles vis-a-vis local economic issues.</li> <li>• To enable them to learn preparation of questionnaire/interview schedule.</li> <li>• The Template/Format of the Dissertation/Project shall be developed by the respective Department.</li> <li>• The idea behind this is to develop economic thinking in the students through direct experience to real life.</li> </ul>		
Credits: 3	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks: 40	
Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w		
Unit	Topics	No. of Lectures
I	Dissertation Topic on the Local/Current Issues with Economic Focus plus Presentation using Ppt. Dissertation Report will be prepared using Statistical/Research Techniques Surveys, Questionnaire/interview schedule. Questionnaire/Interview Schedule must be attached with the report as	45

Page 21 of

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**Suggested Readings:**

- Choubey, Varanya (2018): Research Writing: The Structural Challenge of Communicating Knowledge + A Method to Meet it. ISBN-13: 978-1974673162 & ISBN-10: 1974673162
- Greenlaw, Steven A (2005): Doing Economics: A Guide to Understanding and Carrying Out Economic Research, Houghton Mifflin Harcourt (HMH).
- Kothari, C R (2013): Research Methodology. New Age International Publishers.
- Paliwal, Neha & Surendra Khatri (2018): Sodh Pravidhi. National Publishing House. ISBN: 9788180181726, 8180181723
- Pandey Arun & Ganesh Pandey (2009): Sodh Pravidhi. Radha Publication. ISBN-10 : 8174873805
- Sharma, Vinay Mohan(2018): Sodh Pravidhi. Mayur Books.
- Thomson, Williams (2011): A Guide for the Young Economists. MIT Press

This course can be opted as an elective by the students of following subjects: Open for all

**Suggested Continuous Evaluation Methods:**

Fieldwork, Seminar, Presentations, VIVA, Dissertation

Suggested equivalent online :

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# **Syllabus**

## **M.A. (ECONOMICS)**

**Based on National Education Policy-2020**

**(To be Effective from Session 2023-24)**



**KAMLA NEHRU INSTITUTE  
OF PHYSICAL & SOCIAL SCIENCES  
Sultanpur (UP)**

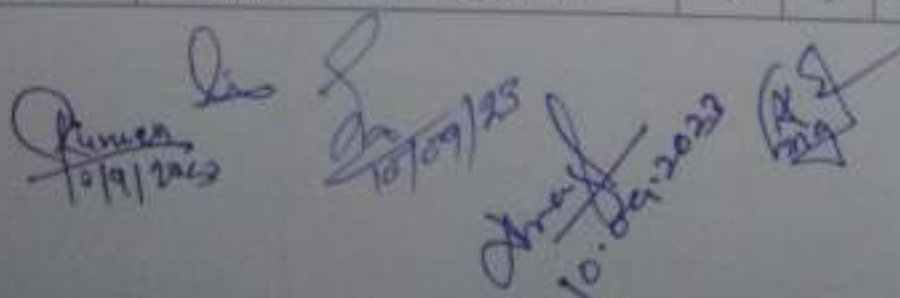
**Accredited 'A' Grade by NAAC  
(An Autonomous Institute)**



**KAMLA NEHRU INSTITUTE OF PHYSICAL & SOCIAL SCIENCES,  
SULTANPUR (UP)**

**Structure of Syllabus for the  
Program: M.A., Subject: ECONOMICS**

Course Code		Course Title	Credits	T/P	Evaluation	
A	B				C	D
<b>SEMESTER I (YEAR I)</b>						
	CORE	Micro Economic Analysis	5	T	25	75
	CORE	Problems of Indian Economy : Basic Issues	5	T	25	75
	CORE	Statistical Methods	5	T	25	75
	FIRST ELECTIVE (Select any one)	Labour Economics	5	T	25	75
		Infrastructure Development of India	5	T	25	75
	SECOND ELECTIVE (Select any one)	Project Presentation on the Problem of Indian Economy	5	P	50	50
		Project Presentation on Unemployment Problem of Labour	5	P	50	50
<b>SEMESTER II (YEAR I)</b>						
	CORE	Advanced Economic Theory	5	T	25	75
	CORE	Indian Economy : Industrial and External Sector	5	T	25	75
	CORE	Quantitative Methods	5	T	25	75
	THIRD ELECTIVE (Select any one)	Industrial Economics	5	T	25	75
		Environmental Economics	5	T	25	75
	FOURTH ELECTIVE (Select any one)	Project Presentation on Indian M.S.M.E.	5	P	50	50
		Field visit	5	P	50	50
<b>SEMESTER III (YEAR II)</b>						
	CORE	Monetary Economics	5	T	25	75
	CORE	International Economics	5	T	25	75
	CORE	Economics of Growth & Development	5	T	25	75


  
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	FIFTH ELECTIVE (Select any one)	Agriculture Economics	5	T	25	75
		History of Economic Thoughts	5	T	25	75
	SIXTH ELECTIVE (Select any one)	Field Visit / Industrial Visit	5	P	50	50
		Project Presentation on Economic Policy of Rural Development	5	P	50	50
SEMESTER IV (YEAR II)						
	CORE	Macro Economic Analysis	5	T	25	75
	CORE	Public Economics	5	T	25	75
	SEVENTH ELECTIVE (Select any one)	Modern International Economics	5	T	25	75
		Demography	5	T	25	75
	RESEARCH PROJECT/ DISSERTATION	Dissertation / <i>Viva Voce</i>	10	P	50	50

**NOTE:**

- Do not mark any Code/Information in Column-A, it will be indorsed by the Institution.
- T/P in Column-E stands for Theory/Practical.
- CIE in Column-F stands for 'Continuous Internal Evaluation' and depicts the maximum internal marks. Respective examination will be conducted by subject teacher.
- ETE in Column-G stands for 'External Evaluation' and depicts the maximum external marks. Respective Examination will be conducted by the University.
- Column-B defines the nature of course/paper. The word CORE herein stands for **Compulsory Subject Paper**.
- Column-D depicts the credits assigned for the corresponding course/paper.
- First Elective:** It will be a Subject Elective. Students may select one of the two subject papers under this category.
- Second Elective:** It will designate a Practical Paper or equivalently a Field Visit or Project Presentation. In case of Field Visit, student is required to submit a detailed report of the visit for the purpose of evaluation. The report should include the observational features and benefits of the visit. In case of Project Presentation, the student may be assigned to go for a survey/practical or theoretical project/assignment or seminar with presentation.
- Third Elective:** It will be a Generic Elective. The student may study or receive training of the any subject of his interest (depends on the availability in his institution of enrolment). The Generic elective paper will be evaluated in two parts, first part (50 marks) would be a continuous internal evaluation (03 tests 20+20+10 marks) whereas the examination and evaluation of the second part (50 marks) would be arranged by the college itself (01 exam).
- Fourth Elective:** It will accommodate a practical paper or Industrial Training or Project Presentation. In case of Industrial Training, student may be allowed for the summer training and is required to submit a detailed training report including training certificate for the evaluation.
- Fifth Elective:** It will be a Subject Elective. Students may select one of the two subject papers under this category.
- Sixth Elective:** It will be a Practical Paper or equivalently a Project Presentation based on Survey/ Seminar/ Assignment. In case of Project Presentation, student has to submit an exhaustive report on respective topic and to face an open presentation for the evaluation.
- Seventh Elective:** It will be either Subject Elective or Practical Elective.
- There will be a Major Research Project or equivalently a research-oriented Dissertation in Semester-IV. The student straight away will be awarded 05 credits if he publishes a research paper on the topic of Research Project or Dissertation.
- Methodology for the practical examination and examiner appointment will be governed by the Clause-13 of the NEP Guideline of RMLAU dated 27-06-2022 except the marks distribution for continuous internal evaluation and external evaluation.
- The Hon'ble convener may take flexibility to rearrange the credits of the papers as 4/5/6 as per need, but within the limit of 25 credits assigned for each semester.

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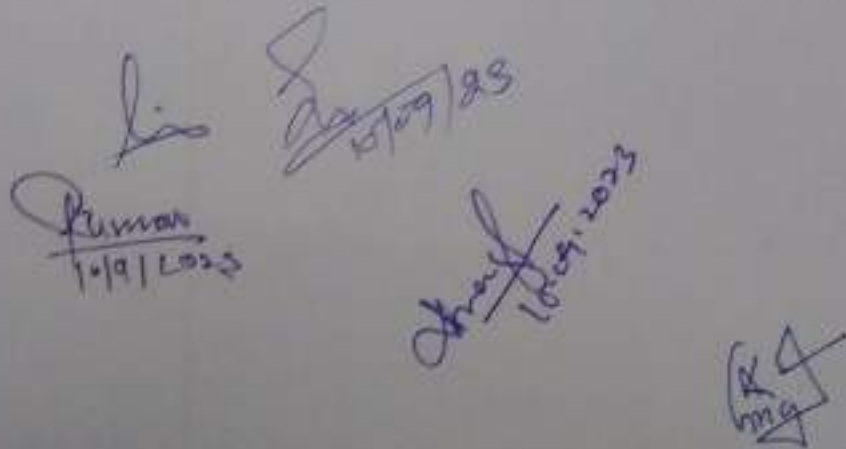
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**M.A. (Economics) Semester-VII**  
**ECO-101 : Micro Economic Analysis**

- Module-1 Basic Economic Problem - Choice and Scarcity; Deductive and Inductive Methods of Analysis; Elasticities (Price, Income and Cross) of Demand- Theoretical Aspects and Empirical Estimation; Estimation; Elasticity of supply.
- Module-2 Consumer's Behaviour- Cardinal Utility Analysis; Indifference Curve Analysis; Consumer's Surplus (Marshall and Hick's View); Revealed Preference Theory.
- Module-3- Theory of Production: Production Function; Short-run and long-run Production Function, Cobb- Douglas Production Function; Iso-Product Curve, Producer's Equilibrium; Returns to Scale
- Module-4- Theory of Pricing: Perfect Competition; Monopoly; Monopolistic competition and Oligopoly.

**Basic Reading List:**

1. Koutsoyiannis, A.; Modern Microeconomics, Macmillan press, London.
2. Das, S.P.: Microeconomics for Business, Sage Publication, New Delhi.
3. क्वष्टि अर्थशास्त्र - प्रो० एस० एन० लाल, सिवम पाब्लिशर्स, इलाहाबाद।
4. क्वष्टि अर्थिक विश्लेषण- डॉ० अनुपम अग्रवाल, SBPD, Agra.
5. माइक्रो अर्थशास्त्र - डॉ० एन० एल० सेठ, laxmi Narain pub, Agra.
6. Sen, A.: Micro Economics: Theory and Application, Oxford University Press, New Delhi.



**M.A. (Economics) Semester-VII**  
**ECO-102 : Problems of Indian Economy : Basic Issues**

- Module:1- Structure and Basic features of Indian Economy; Changes in Economy in Planning Period; Demographic structure, features and Population Policy; Occupational Distribution; Rural-Urban Migration.
- Module:2- National Income: Trends; Compositions and Structural Change; Income Distribution and Income Inequality, Regional Disparities.
- Module:3- Poverty in India: Concepts, Absolute and Relative Poverty, Analysis of Poverty in India, Poverty Alleviation Programmes; Poverty and Unemployment.
- Module:4- Agriculture Sector: Role of Agriculture, Interrelationship between Agriculture and Industry, Growth of Indian Agriculture. Institutional Aspects - Land Reform, Technological change in Agriculture, Agriculture price Policy in India, Agriculture Finance, Agriculture Marketing.

**Basic Reading list :-**

- 1- Dutt R. and Sundhram, KPM: Indian Economy, S. Chand & Co. Ltd.
- 2- Agrawal, A.N.: Indian Economy, New Edge, New Delhi.
- 3- Mishra, S.K. and Puri, V.K. : Indian Economy, Himalayan Pub. Mumbai.
- 4- Dandekar, V.M. and Rath, N. : Poverty of India.
- 5- Kapila, Uma., Indian Economy: Since Independence.
- 6- Parikh, K.S., India Development Report- 1999-2000, Oxford University Press.

  
The bottom section of the page contains several handwritten signatures and dates in blue ink. From left to right, there are: a signature 'Ramesh' dated '10/9/2023'; a signature 'S. K. Mishra' dated '10/9/2023'; a signature 'Uma Kapila' dated '10/9/2023'; and a signature 'K. S. Parikh' dated '10/9/2023'. There is also a small square stamp with some illegible text and a signature over it.

**M.A. (Economics) Semester-VII**  
**ECO-103 : Statistical Methods**

- Module-1 Nature and scope of statistics. Collection of data Classification and Tabulation of data, Diagrammatic and graphic representation of data.
- Module-2 Measures of Central tendency - Mean Median, Mode, Harmonic Mean and Geometric Mean relative efficacy
- Module-3 Measures of Dispersion: Range, Quartile Deviation, Mean deviation, Standard deviation and its coefficient, Skewness and kurtosis Moment up to fourth order.
- Module-4 Index Number: Concept and importance of index number, chain base and fixed base index number, Simple and Weighted index number, Fisher's Index number, Tests for an ideal index number, concept and Component of time series.

**Basic Reading list :-**

1. गुप्ता के.एल., प्रारम्भिक सांख्यिकी, नवयुग साहित्य सदन आगरा।
2. सिंह एस.पी. सांख्यिकी : सिद्धान्त एवं व्यवहार, एस्को बन्ड एण्ड कठ नई दिल्ली।
- 3- Elhans D.N; Elements of Statistics.
- 4- गुप्ता बी.एन. सांख्यिकी , साहित्य भवन आगरा।
- 5- नागर, कैलाशनाथ सांख्यिकी के मूल तत्व, मीनाक्षी प्रकाशन मेरठ।
- 6- Monga, G.S.: Statistics

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**M.A. (Economics) Semester-VII**  
**ECO-104 : LABOUR ECONOMICS**

- Module-1 Definition, Nature, scope and importance of Labour Economics, characteristics of Labour, & Problems of Labour Market, Labour Productivity, Labour Migration, Demand and supply of Labour.
- Module-2 Concept and measurement of unemployment, Employment and Unemployment situation in India, Methods of recruitment and placement, Employment service organization in India, Lay offs, Retrenchment and exit policy, Employment Policies in India.
- Module-3 Women Labour: Gender Biasness in Labour Market, child Labour, India and I.L.O., Profit-sharing and co-partnership, labour and Rationalization.
- Module-4 Trade Union Movement in India: concept of Living, fair and Minimum wage Real and Nominal Wages, Theories of Wage Determination, Social Security of Labour, Concept of Social Security, Social Insurance and Social Assistance.

**Basic Reading list :-**

- 1- Bloom, Northrop, Rewen, Readings in Labour Economics.
- 2- Brown, Phelps, Economics of Labour.
- 3- Giri, V.V., Labour in Indian Industry.
- 4- Singh, R.R., Labour Economics.
- 5- Saxena S.C., Labour Problems and Social Security.
- 6- Sinha V.C., Labour Economics.

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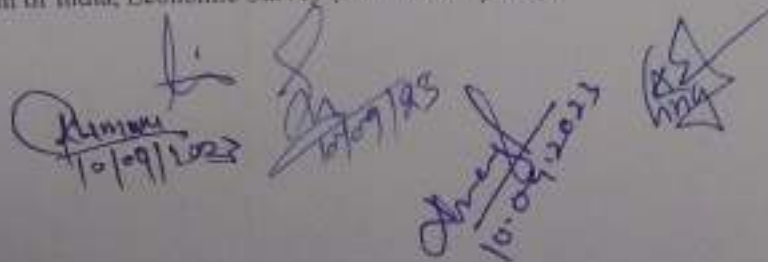
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**M.A. (Economics) Semester-VII**  
**ECO-105 : Infrastructure Development of India**

- Module-1 Infrastructure: Meaning and Types, Infrastructure, and Economic Development; Challenges of Infrastructure Development; Infrastructure as a public Good; Social and Physical Infrastructure, Special Characteristics of Public Utilities.
- Module-2 Transport: Role of Transport in Economic Development; Growth of Road Network in India; Transport Policy of India; The Structure of Transport Cost and Location of Economic Activities; Need for Privatisation in Transport Infrastructure, Public-Private-Partnership; Limitations of Privatisation Policy.
- Module-3 Social Infrastructure: Significance of Education to Economic Development; Expenditure on Education, Structure of Higher Education and Problems of its financing in India. Human Resource and Human Capital Development, Health Dimensions of Development, Determinants of Health- Poverty, Mal- Nutrition, Illiteracy and Lack of Information, Financing of Health Care; Inequalities. in Health.
- Module-4 Energy:- A Brief Introduction and Development of Energy Sector, Factors Determining Demand For Energy; Energy Conservation; Importance of non-conventional Energy Sources; Energy Crisis in India, Energy Modelling; Problems of Infrastructure Development in India.

Basic Reading list :-

- 1- Misra, S.K. and Pari, V. K. : Indian Economy, Himalyan Publishing House, N. Delhi
- 2- Agrawal, A.N. and Agrawal, M.K. : Indian Economy, New Age International Pvt. Ltd. N. Delhi.
- 3- Parikh, K.S.: India Infrastructure Report 2012, Oxford University Press, N. Delhi,
- 4- Crew, M. W. and Kleindasfer, P.R.: Public Utilities Economics, Macmillan, London.
- 5- Uma Kapila, Indian Since Independence, Academic Foundation, New Delhi.
- 6- Government of India, Economic Survey (for different years).

  
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**M.A. (Economics) Semester-VIII**  
**ECO-201 : Advanced Economic Theory**

- Module-1 Equilibrium Analysis: Types of Equilibrium; General and Partial Equilibrium; Stability of Equilibrium; Cobweb Theorem.
- Module-2 Criticism of Neo-classical Theory of firm. Alternative Theory of firm- Baumol, Williamson, Marris models, Bain's Limit Pricing Theory.
- Module-3 Theory of Distribution: Theory of Factor Pricing; classical and Modern Theories of Rent; Quasi-Rent; Modern Theory of Interest (IS-LM Model); Adding-up Problem. Theory of Profit - Knight and Shackle.
- Module-4 Welfare Economics: Pareto Optimal conditions; Kaldor- Hicks Compensation Principles; Scitovsky's Double Criteria; Bergson's Social Welfare function and Arrow's Possibility Theorem.

**Basic Reading List –**

- 1- H.L. Ahuja: Advanced Economic Theory, S. Chand & Comp. New Delhi.
- 2- Mishra & Puri : Advanced Economic Theory, Himalyan Publication New Delhi.
- 3- Koutsoyiannis, A.: Modern Micro Economics, Macmillan.
- 4- Stonier, A.W. and D.C. Hauge, A Textbook of Economic Theory, ELBS & Longman Group, London.
- 5- Lipsey, R.G. and Chrystal, K.A.: Principles of Economics Oxford Univ. Press.
- 6- Gould and Ferguson, Micro Economic Theory

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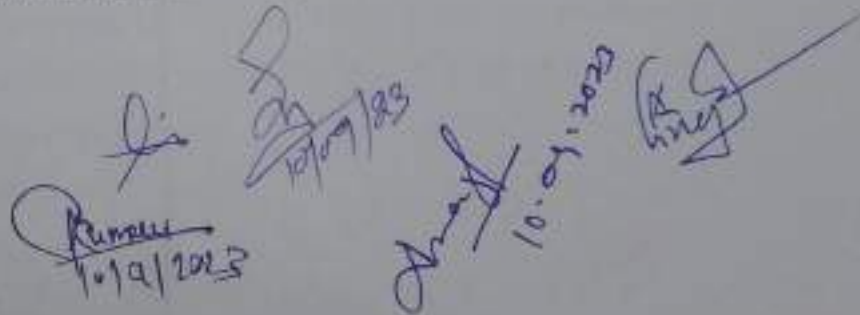


**M.A. (Economics) Semester- VIII**  
**ECO-202 : Indian Economy: Industrial & External Sector**

- Module-1 Industrial Sector: Growth and Structure of Indian Industries; Industrial Productivity- Measurement and Trends; Industrial Policy in India; Policies towards public Sector Enterprises- Privatisation and Disinvestment Issue.
- Module-2 Cottage and Small Scale Industries: Policies towards Cottage and small-scale Industries; Industrial Sickness, Problem of underutilization of capacity.
- Module-3 Trends and performance in Services; Compositions and Direction of foreign Trade of India; Inflow and outflow of foreign capital and MNC's in India.
- Module-4 Economic Reforms: Fiscal and Financial Sector Reform; Globalisation of Indian Economy; WTO and its Impact on Indian Economy; Issues in competition and Safety Nets in Indian Economy.

**Basic Reading List:-**

- 1 Dutt, R. and Sundhram, KPM: Indian Economy, S.Chand & Co.
- 2 Kapila, Uma: Indian Economy (Since Independence)
- 3 Jalan, B: The Indian Economy: Problem and Prospects, Viking, N.Delhi.
- 4 Ahluwalia, I.J. and Little, L.M.D.- India's Economic Reforms & development, Oxford Uni. Press. N.Delhi.
- 5 Dandekar, V.M. and N. Rath, Poverty of India
- 6 Agarwal, A.N., Indian Economy, Himalaya Publishing House, Mumbai.

  
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**M.A. (Economics) Semester- VIII**  
**ECO-203 : Quantitative Methods**

- Module-1 Correlation Analysis: Concept and Types of Correlation, degree of Correlation. Karl Pearson's Correlation and Spearman's Rank Correlation coefficient, Partial and multiple Correlation.
- Module 2 Regression Analysis: Concept and functions of Regression lines, Regression Equations, Regression coefficient, Regression equations by Regression coefficient Method, Regression equations by least square method, Standard error of the estimate, Ratio of variation.
- Module 3 Interpolation & extrapolation: Concept and Assumptions of interpolation and extrapolation, Direct Binomial Expansion method, Newton's method of Advancing Differences, Lagrange's method of interpolation and extrapolation.
- Module 4 Concept, origin and development of Probability, Permutations and Combinations Rules of Probability : Addition & multiplication Theorem, conditional probability, Bernoulli's theorem, inverse probability, Binomial, Poisson and Normal Distribution.

**Basic Reading List:-**

- 1- गुप्ता कं०एल०, अग्रवाल रविकान्त एवं जैन परवीन : परिमाणात्मक विधियाँ , नवनीत प्रकाशन गृह आगरा।
- 2- गुप्ता कं०एल० एवं गुप्ता हरिओम : परिमाणात्मक तकनीकें, नवयुग साहित्य सदन आगरा।
- 3- शुक्ल एस०एम० एवं सहाय शिवपूजन : परिमाणात्मक पद्धतियाँ, साहित्य भवन पब्लिकेशन, आगरा।
- 4- नागर कैलाशनाथ एवं मित्तल एस०एन० : सांख्यिकी के मूल तत्व, मीनाक्षी प्रकाशन, मेरठ।
- 5- Elhance, D.N. : Statistical Theory.
- 6- Monga, G.S. : Statistics.

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**M.A. (Economics) Semester- VIII**  
**ECO- 204 : Industrial Economics**

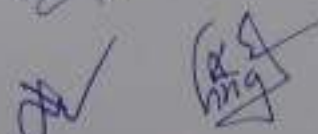
- Module-1 Introduction: Meaning, Need, Scope and Significance of Industrial Economics, Large and Small Scale Industries, Public Sector- Importance and Problems. Sources of Industrial Finance in India, Development of Financial Institutions and capital Market in India..
- Module-2 Industrial location: Factors Affecting Location of Industries, Theories of Location: Weber, Florence, Industrial Imbalance Causes and Measures, Determinants of Location.
- Module-3 Scientific Management, Present Management Pattern in India. Worker Participation in Management. Rationalisation.
- Module-4 Industrial Efficiency Productivity and its measurement, Factors Affecting productivity, size of firm and productivity, capacity efficiency.

Basic Reading List:-

- 1- Ahluwalia, I.J. (1985), Industrial Growth in India, Oxford University Press, New Delhi.
- 2- Barthwal, R.R. (1985), Industrial Economics, Wiley Eastern Ltd., New Delhi.
- 3- Cherunilam, F. (1994), Industrial Economics: Indian Perspective (3rd Edition), Himalaya Publishing House, Mumbai.
- 4- Desai, B. (1999), Industrial Economics in India (3rd Edition), Himalaya Publishing House, Mumbai.
- 5- Divine, P.J. and R.M. Jones et al. (1976), An Introduction to Industrial Economics, George, Allen and Unwin Ltd., London.
- 6- Government of India, Economic Survey (Annual).

  
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**M.A. (Economics) Semester- VIII**  
**ECO- 205 : Environmental Economics**

- Module-1 Environmental Economics - Meaning and scope, Environment and Economy: Neo-Classical and Ecological Economic Perspectives, Interlinkages, Environment and Development Trade-off. Function of Environment.
- Module-2 Deviation from Economic Efficiency, Pollution and Externality Environmental Quality as a Public Good, Case of Market Failure, Social Optimum Level of Pollution and changes it.
- Module-3 Economics of Environmental Law Regulations: Liabilities Laws, Allocation of Property Rights, Emission Standards, Pollution Tax and Transferable Pollution Permit.
- Module-4 Limits of Growth: Malthusian, Neo-Classical and Ecological Economic Perspectives, Sustainable Development : Concept, Rules, Approaches to Sustain ability and Indicators. Common Property Resources : Problem of Management, Issue of Climate Change.

**Basic Reading List:-**

- 1- Ehrlich, P/A. Ehrlich and T. Hiden. Economics, populati on, Resources, Environment, W. H. Freeman, San Francisco.
- 2- R. N. Bhattacharya: Environmental Economics, Air India Perspective, Oxford University Press.
- 3- माता माहेश्वरी : पर्यावरण अर्थशास्त्र- एक भारतीय परिप्रेक्ष्य आनन्द पब्लिकेशन्, नई दिल्ली।
- 4- Erach Bharucha: Environmental Studies, Orient Longman.
- 5- Thomas & Callan : Environmental Economics.
- 6- Ahmad, M. Hussen: Principl of Environmental Economics, Pouledge & Tylor & Francis Group.

  
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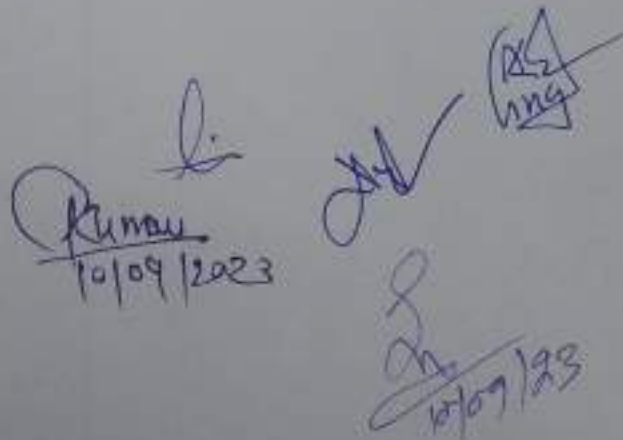


**M.A. (Economics) Semester-IX**  
**ECO- 301 : Monetary Economics**

- Module-1 Concept and function of money, Significance of money, Money in Closed and open Economy, Paper Currency Standard and Principles of Note issue.
- Module-2. Value of money and its measurement, Quantity theory of money- Fisher and Cambridge approach, Fundamental equation of keyness. Saving and Investment theory of money.
- Module-3 Concept of money supply, RBI Approaches to money supply, Determinants of money Supply, High Powered money and money multiplier Deficit Financing and money supply, money Supply and open-economy, control of money supply.
- Module-4 Objectives and tools of Monetary Policy. monetary Policy and economic growth, Central Banking: Meaning, Functions and Credit Control International Monetary institutions, Role of SDR Problem of International Liquidity, Monetary Concept of Trade cycle.

**Basic Reading List:-**

- 1- Gupta Suraj Bhan : Monetary Economics.
- 2- Jhingran M.L. मौद्रिक अर्थशास्त्र, युन्दा पब्लिकेशन प्राठ लिमिटेड, दिल्ली।
- 3- Sinha V.C. : मौद्रिक अर्थशास्त्र, लोक भारती प्रकाशन, इलाहाबाद।
- 4- T.T. Sethi : मौद्रिक अर्थशास्त्र, लक्ष्मी नारायण अग्रवाल, आगरा।
- 5- G.C. Singhai : मौद्रिक अर्थशास्त्र, साहित्य भवन पब्लिकेशन, आगरा।
- 6- Srivastava Narendra Nath : मौद्रिक अर्थशास्त्र, उत्तर प्रदेश हिन्दी संस्थान, लखनऊ।

  
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**M.A. (Economics) Semester- IX**  
**ECO-302 : International Trade**

- Module-1 Theories of International Trade: Adam Smith, Ricardo, J.S. Mill, Haberler. Derivations of offer curve, offer curve and Trade Equilibrium.
- Module-2 General Equilibrium Theory (Ohlin), Derivation of Community Indifference Curve and Trade Indifference Curve, Equilibrium through Box Diagramme.
- Module-3 Terms of Trade: Concepts, Measurements and Trends in Terms of Trade; Gains from Trade; Trade as Engine of Economic Growth- Alternative View; Singer-Prebisch's Hypothesis of Secular Deterioration of Terms of Trade.
- Module-4 Commercial Policy: Free Trade Vs Protection; Argument for and against the policy of protection; Theory of Interventions: Tariff and Quotas; Effects of Tariff under partial and general Equilibrium; Dumping and most favoured Nations Clause.

Basic Reading List:-

- 1- कोसी० राना एवं कोएन० वर्मा : अन्तर्राष्ट्रीय अर्थशास्त्र- विशाल पब्लिकेशन हाउस, जालन्धर, पंजाब।
- 2- Mannur, H.G.: International Economics, Vikas Pub. House N. Delhi.
- 3- Jhingan, M.L. : Int. Economics; Vrinda Publication, Agra.
- 4- M.C. Vaish & Sudama Singh : International Economics, Oxford and IBH Pub. N. Delhi.
- 5- Soderson, B : International Economics, Mac Millan Press Ltd. London.
- 6- Kindleberger, C.P. (1973), International Economics, R.D. Irwin, Homewood.

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**M.A. (Economics) Semester- IX**  
**ECO- 303 : Economic Growth & Development**


- Module-1 **Basic Issue-** Economic Growth and Economic Development : Meaning, Concept, Measurement and Development; Economic Growth and Social Justice: Kuznets hypothesis, Growth Distribution Trade off. Basic needs approach, Hunger, Entitlement and Capability. Human Development - HDI, HPI, Perversity Index, Gender Index.
- Module-2 **General Growth Theories-** Classical Theories: Adam Smith, Ricardo, Marx's theory of development, Theories of Schumpeter, Rostow, Harrod - Domar Growth Models; Neo classical Growth Models of Solow, Mead & Joan Robinson,
- Module-3 **Partial Growth Theories:** Theory of Big Push, Balance and Unbalanced Growth, Social and Technological Dualism, Lewis Model, Liebenstien's Critical Minimum Effort Thesis, Nelson's Theory of Low-level Equilibrium Trap, Myrdal Thesis, Dual Gap Analyses.
- Module-4 **Problem and Policy:** Population & Development, Poverty & Development, Capital formation & development, Globalization and Development of less developed countries. Investment Criteria WTO and developing Countries.

**Basic Reading List:-**

- 1- Gillis, M., D.H. Perkins, M. Romer and D.R. Snodgrass (1992), Economics of Development, (3rd Edition), W.W. Norton, New York.
- 2- Higgins, B. (1959), Economic Development, W.W. Norton, New York.
- 3- Hogendorn, J. (1996), Economic Development, Addison, Wesley, New York.
- 4- Kahkonon, S. and M. Olson (2000), A New Institutional Approach to Economic
- 5- Jhingan M.L., Economic Development.
- 6- Kindleberger, C.P. (1977), Economic Development, McGraw Hill, New York.

  
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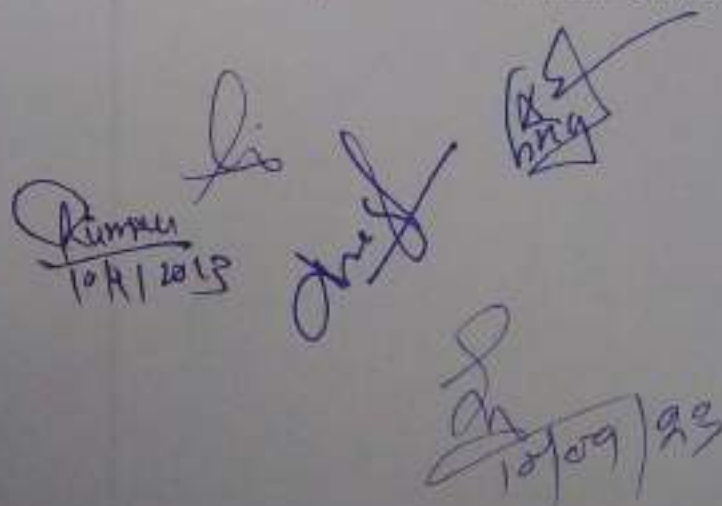
  
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**M.A. (Economics) Semester- IX**  
**ECO- 304 : Agriculture Economics**

- Module-1 Nature and scope of Agricultural Economics; Role of Agriculture in a Developing Economy; Interdependence between Agriculture and Industry, Structural Problems in Agriculture.
- Module-2 Theories of Agriculture Development: Lewis, T.W. Schultz, Fei-Ranis, and Millor's Theory. Farm size and Productivity Relationship; W.T.O. and Indian Agriculture.
- Module-3 Land Reforms: Concepts, Progress; Co-operative and Collective farming; Technological change in Agriculture, Agriculture Marketing; Agriculture Price Policy in India, Production Function in Agriculture, Capital formation in Agriculture.
- Module-4 Indian Agriculture : Agriculture Finance; Land Utilization, New Agriculture Strategy; Cropping Pattern and Crop Insurance, Food Security, Food Policy. Public Distribution System.

**Basic Reading List:-**

- 1- Bhalla, G.S.: Indian Agriculture Since Independence, NBI.
- 2- Black, J.D.: Introduction of Economics for Agriculture, Macmillan.
- 3- Dandwala, M.L.: Indian Agricultural Development Since Independence, Oxford & IBH, N. Delhi.
- 4- Dash, Mrityunjay: Agricultural Economics, Anmol Prakarshan.
- 5- Sony, R.N., Leading Issues in Agriculture Economics.
- 6- Mishra, Jai Prakash, Agriculture Economics, Sahitya Bhavan Publication, Agra, 2006

  
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**M.A. (Economics) Semester- IX**  
**ECO- 305 : History of Economic Thoughts**

- Module-1 Pre-classical Thought: Mercantilism, Physiocrats, classical Thoughts, Adam Smith, David Ricardo, Malthus, J.S. Mill.
- Module-2 The Socialists: Sismondi, St. Simon, Karl Marx, Associationism – Robert Owen, The Historical School.
- Module-3 Neo classical: A. Marshall, J.M. Keynes, The Nationalists: Friedrich List, The Austrian school: Vonwieser Bohm Bawerk.
- Module-4 Economic Thought: Kautilya, Dada Bhai Naorogi, M.G. Ranade, Gandhi, J.K. Mehta, B.R. Ambedkar.

**Basic Reading List:-**

- 1- Schumpeter, J.A.- History of Economic and Analysis.
- 2- Verma N.M.P - Economics Thought of Ambedkar.
- 3- Grey, A.- History of Economic Doctrine.
- 4- Haney- History of Economic Thought.
- 5- Datta, B.- Indian Economic Thought Vol. I
- 6- Hazela- A History of Economic Thought.

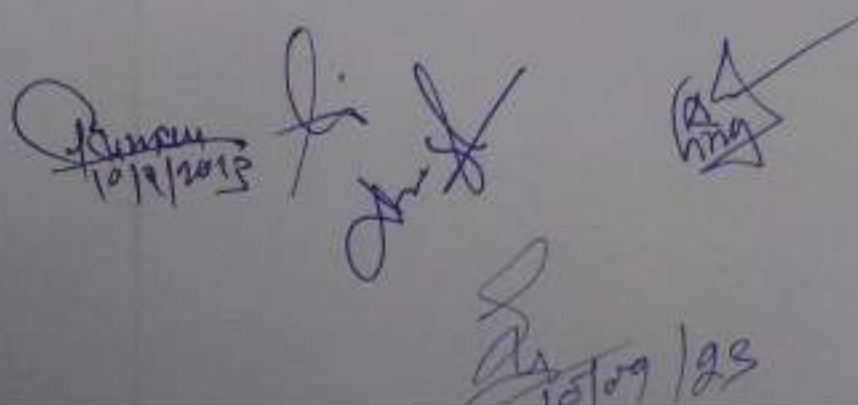
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**M.A. (Economics) Semester- X**  
**ECO- 401 : Macro Economic Theory**

- Module-1 Nature and scope of macro Economics Concept and measurement of National Income Circular flow of income in two, three and four sector economy Social accounting, Theory of output, income and employment - classical and Keynesian approach.
- Module-2 Consumption function: Keyne's Psychological law of consumption, Short run and long-run consumption function; Investment function: multiplier and accelerator, the marginal efficiency of Capital.
- Module-3 Demand for Money: classical and Keynesian approach, Post keynesian demand for money : Friedman & Patinkon Approach Keynesianism & Monetarism, Derivation of LM Curve.
- Module 4 Inflation and deflation : Concept, Causes and Types of inflation, Theories of Inflation: Monetarist, keynesian and sturctural theories of inflation, Phillips and modified Phillips curve, Deflation- Concept and causes of Deflation, effects of inflation and deflation, Control of inflation deflation.

**Basic Reading List:-**

- 1- Srivastwa N.N.; New Dimensions in monetary theory Print House India, Luck now,
- 2- सिंघई, जी०सी० एवं मिश्रा, जे०पी०; समष्टि आर्थिक विश्लेषण, साहित्य भवन पब्लिकेशन, आगरा।
- 3- झिंगन, एम०एल०; समष्टि अर्थशास्त्र, वृंदा प्रकाशन, आगरा।
- 4- Sinha V.C.; Monetary Economics.
- 5- Gupta Suraj Bhan; Monetary Economics.
- 6- Dornbasch, R. and F. Stanley Macroeconomic, McGraw Hill. Inc. New York.

  
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**M.A. (Economics) Semester- X**  
**ECO- 402 : Public Economics**

- Module-1 Introduction: Nature and Scope of Public Finance, Role of Government, in organized society, Role in mixed economy, Public and Private Sector. Principle of Maximum Social Advantage.
- Module-2 Public Expenditure: Pure theory of Public expenditure, Structure and Growth of Public expenditure, Wagner's law of increasing state activities, Wiseman peacock hypothesis, Zero base budgetary, classification of Public expenditure.
- Module-3 Taxation: Sources of Public revenue, canons of taxation, Direct and Indirect tax, Theories of incidence, Benefit and Ability to pay theories, Goods and service tax.
- Module-4 Public debt : classical view, sources of public debt, types, burden of public debt, types of budget deficits, Fiscal deficits, Deficits Financing concept, need, effects on economy, Fiscal Policy, Objectives, importance, and tools of fiscal policy, Fiscal policy in India.

**Basic Reading List:-**

1. Buchanan, J.M., The Public Finance, Richard D. Irwing, Homewood.
2. Goode, R. Government Finance in Developing Countries, Tata McGraw Hill, New Delhi.
3. Jha, R. Modern Public Economics, London.
4. Musgrave, R.A. and P.B. Musgrave, Public Finance in Theory and Practice, McGraw Hill, Tokyo.
5. Government of India, Long Term Fiscal Policy.
6. Bhargva, P.K., Centre State Resources Transfers in India, The Academic Press, Gurgaon.

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**M.A. (Economics) Semester- X**  
**ECO- 403 : Modern International Economics**

- Module-1 Factor Proportion Theory: H-0 Theorem; factor Price Equalisation; Leontief Paradox; Stolper- Samuelson Theorem, Rybezynski Theorem;
- Module-2 Economic Integration: The Theory of Customs Union; Effects of Customs Union-Static and Dynamic effects; Lipsey Model; Vanek Model.
- Module-3 Foreign Exchange Rate: Determination under Gold Standard; Purchasing power Parity Theory and Balance of Payment Theory; fixed and Flexible Exchange Rates; Exchange control and Exchange Management.
- Module-4 Balance payment: Meaning, Structure, Equilibrium and Disequilibrium; Adjustment Mechanism of Balance of payments; Devaluation and Absorption Approach for Adjustment in B.O.P.

**Basic Reading List:-**

- 1- Salvatore, D.: International Economics, Prentice Hall N. Delhi.
- 2- Krugman, P.R. and M. Obstfeld: International Economics: Theory and Policy
- 3- Sodersten, Bi International Economics.
- 4- Mithani, D.M.: International Economics.
- 5- Manner, H.G.: International Economics. Vikas Pub. House N. Delhi.
- 6- Rana, K. C. and Verma, K.N., अन्तर्राष्ट्रीय अर्थशास्त्र, विशाल पब्लिकेशन हाउस, जालन्धर।

  
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**M.A. (Economics) Semester- X**  
**ECO-404 : Demography**

- Module-1 Demographic Analysis : Definitions, concepts, Subject matter, Importance and Tools. Demographic Data Nature, Scope and Sources. Census, Measurement of Population Growth, Structure of Population, Population Projection.
- Module-2 Population Theories: Malthus and Neo-Malthusian, optimum Theory, Logistic Curve Theory, Theory of Demographic Transition.
- Module-3 Demographic Measurements: Fertility- Total Fertility Rate (TFR), Gross Reproduction Rate (GRR), Net Reproduction Rate (NRR). Factors Affecting Fertility Socio-Economic Factors, Economic Status, Health, Education, Nutrition, Fertility Measurement, Fertility Trends India.
- Module-4 Mortality and Morbidity- Concepts and Measurement, Life Table-Construction Types and uses. Demographic Trends in Developed and Developing countries. Population Policy in India.

**Basic Reading List:-**

- 1- Agrawal, S.M.: India's Population Problem, Tata McGraw-Hill Co. Bombay.
- 2- Bose, A: India's Basic Demographic statistics, B.R. Pub - Crops N. Delhi.
- 3- Sinha, V.C. : Principles of Demographic Mayur Paperbacks, Noida.
- 4- Srinivasan, K: Basic Demographic Techniques and Application, Sage Pub. N. Delhi.
- 5- Bogue, D.J. (1971), Principal of Demography, John Welly, New York.
- 6- Gulati, S.C.(1988), Fertility in India: An Econometric Study of a Metropolis, Sage, New Delhi.

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**M.A. (Economics) Semester- X**  
**ECO- 405 : Economics of Human Resource Development**

- Module-1 Human Resource and Economic Developments Importance of Human Resource Development; Relation between Economic Growth and Human Development; factors Affecting Human Development.
- Module-2 Dimensions of Human Resource Development: Empowerment, Equity, Sustainability, Security Productivity and Participation; Role of freedom in promoting Human Resource Development. Investment in Education and Health; Human Resource and Social Welfare.
- Module-3 Aspects of Human Resource Development: Livelihood, Inequality, Gender, Child Labour, Aging Population, food Security, Poverty Alleviation, Environment, Displacement and Migrations; Concept of social Security Resource
- Module-4 Human Resource Development Indices: HDI; Human Poverty Index (HPI); Gender Related Development Index (GDI); Social Capability Index; Migration of talent; Policy for HRD.

**Basic Reading List:-**

- 1- डॉ० एस०पी०सिंह : आर्थिक विकास एवं नियोजन, एस०चन्द्र एण्ड क०लि०।
- 2- डॉ०एम०एल० झिंगल- आर्थिक विकास एवं नियोजन।
- 3- डॉ० मुंशीलाल- मानव पूँजी का अर्थशास्त्र।
- 4- वी०सी० सिन्हा- जनांकिकी।
- 5- ट्रेसर, विलियम आर० : मैनेजमेण्ट एण्ड डेवलपमेण्ट।
- 6- Arya & Tondon : Human Resource Development.

  
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**W. 6. (Environmental) Question- 3**  
**2019-2020 - Winter Property/Plant Mark**

The W. 6. student in the first semester would be required to do project work field work which is to be related to the objective area chosen by the student. For example a student who has chosen Labour Economics as objective will have to do a project/field work related to Labour Economics. The project work would be evaluated by an internal and external members appointed by the University. Evaluation would be 75 marks on account of the project work and 25 marks on viva voce.

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**M. A. (Honours) Semester - I**  
**EC 09 - 006 : Micro Project/Mini Work**

The M. A. student in the first semester would be required to do project work field work which is to be related to the elective area chosen by the student. For example a student who has chosen Labour Economics as elective will have to do a project/field work related to Labour Economics. The project work would be evaluated by an internal and external examiner appointed by the University. Evaluation would be 75 marks on account of the project work and 25 marks on class work.

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**M.A. (Economics) Semester- I**  
**ECO- 106 : Minor Project/Field Work**

The M.A. student in the first semester would be required to do project work/field work which is to be related to the elective area chosen by the student. For example a student who has chosen Labour Economics as elective will have to do a project/field work related to Labour Economics. The project work would be evaluated by an internal and external examiners appointed by the University. Evaluation would be 75 marks on content of the project work and 25 marks on viva-voce.

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**M.A. (Economics) Semester- I**  
**ECO- 306 : Dissertation**

The M.A student in the third semester would be required to write a dissertation which is to be related to the project/field work submitted by the student in first semester. The dissertation would be evaluated by an internal and external examiners appointed by the university. Evaluation would be 75 marks on content of the dissertation and 25 marks on viva-voce.

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