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: applicatio	The behavioural patterns of different economic agents, advance theoretical issues and their ns.
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: conceptua	Acquaint with the measurement of development with the help of theories along with the lissues of poverty and inequalities with Indian perspectives.
PSO 8:	Delineate the fiscal policies designed for developed and developing economics.
PSO 9: schools. T their contr	Facilitate the historical developments in the economic thoughts propounded by different to familiarise students with the contribution of Indian Economic Thinkers and the relevance of ibution.
PSO 10: markets.	Learn the basic concept of monetary analysis and financial marketing in Indian financial
PSO 11:	Learn the development issues of Indian economy.
PSO 12: the enviro	Acquaint with some basic concept of environmental economics along with the solution of mmental 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.

Residen

List of all Papers in all Six semesters.

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

Year	Sem.	Course Code	Paper Title	Theory/Practica	Credits
I	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	Optional Paper(Any I) 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	Optional Paper(Any 1) 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 1st Year, Sem. I, Course I (Theory)

Programme/Class: Degree/ BA	Year: First	Semester: First
	Subject: Economics	
Course Code: A080101T	Course Title: Princ	ciple of Micro Economics

- 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 & familiarize with day today happenings.
- The students learn and understand the concepts of consumer behaviour like cardinal utility and ordinal
- The students learn and understand application of Indifference curve analysis in deriving demand curves, price effect, income effect and substitution effect.
- The students learn and understand the Theory of production- iso-quants, laws of returns to scale, law of variable proportion.
- The students learn, understand and compare between the Traditional and modern theory of cost. Demonstrate an understanding, usage and application of basic economic principles.
- Describe and apply the methods for analyzing consumer behavior through demand and supply, elasticity and marginal utility.
- To analyze the behavioral patterns of different economic agents regarding profit, price, cost etc.
- The decision-making process in different market situations such as perfect competition, monopolistic
- competition, monopoly and oligopoly markets.

 To deal with the advance theoretical issues and their practical applications of distribution theories. General equilibrium, economic efficiency and market failure.

REMOINS

	Credits: 6	Core Compulsory	
	Max. Marks: 25+75	Min. Passing Marks: 40	
	Total No. of Lectures-Tutorials-Practica	l (in hours per week): L- 4/w	
Unit	Topics		No. of
	Part I		Lecture
I	Introduction: Problem of scarcity and choice: suproduction possibility frontier; economic systems, determinants of demand, shifts of demand versus market demand, law of supply, determinants movements along a supply curve, market supply demand and supply: price rationing, price floors, c Elasticity: price elasticity of demand, calculatic elasticity, other elasticities.	Demand and supply: law of demand, s movements along a demand curve, of supply, shifts of supply versus , market equilibrium. Applications of consumer surplus, producer surplus. ing elasticity, determinants of price	12
п	Consumer Theory: Budget constraint, concept of Diamond-water paradox, income and substitution of curves, derivation of demand curve from indiff Theory of Revealed Preference	effects; consumer choice: indifference	12
ш	Production and Costs: a. Production: behaviour of profit maximizing functions, law of variable proportions, choice of to cost minimizing equlibrium condition. b. Costs: costs in the short run, costs in the I maximizations, minimizing losses, short run indudiseconomies of scale, long run adjustments.	echnology, isoquant and isocost lines, ong run, revenue and profit	11
IV	Market Structures a. Perfect Competition: a. Assumptions: theory of demand and revenue; equilibrium of the firm in the industry supply curve: increasing, decreasing a allocative efficiency under perfect competition. b. Imperfect Competition Monopolistic competition: Assumptions, SR& Li under monopolistic competition, economic effoliogopoly: assumptions, oligopoly models, game to government. Part II	ne short run and long run; long run and constant cost industries. Welfare: R price and output determinations	11
	Theory of a Monopoly Firm		
v	Concept of imperfect competition; short run and le of a monopoly firm; concept of a supply curve perfect competition and monopoly, social cost o remedies for monopoly: Antitrust laws, natural more	under monopoly; comparison of	11
VI	Consumer and Producer Theory a. Consumer and Producer Theory in Action Externalities, marginal cost pricing, internalising of information: adverse selection, moral hazard, social b. Markets and Market Failure Market adjustment to changes in demand, efficien of market failure: imperfect markets, public information; evaluating the market mechanism. Income Distribution and Factor pricing Input markets: demand for inputs; labour markets	choice, government inefficiency. cy of perfect competition; sources goods, externalities, imperfect	11



	Welfare Economics: Concept & Definition of Welfare Economics. Normative & Positive Economics. Concepts of Social Welfare. Role of Value Judgment in Welfare	
VIII	Economics, Individual & Social Welfare. Pareto Optimality, Conditions of Pareto Optimality. New Welfare Economics: Kaldor-Hicks Welfare Criterion. Scitovsky Paradox & Scitovsky's Double Criterion. Grand Utility Possibility Frontier. Social Welfare Function. Theories of Social Choice.	11

- Ahuja ,H.L(2013): Advanced Economic Theory", S.Chand & Company. Shastri,Rahul.A (1999): Microeconomics", Orient Blackswan. Ahuja,H.L (2012) :Ucchatar Arthik Siddhant", S.Chand & Company, New Delhi.

- Dwivedi,D.N (2011): Microeconomics-Theory & Applications", Pearson.
 Lal, S.N (2013): Arthshastra Ke Siddhant", Shiva Publishing House, Allahabad. Seth,M.L (2012): Arthshastra Ke Siddhant", Laxmi Narayan Publications, Agra
- Lipsey, Richard & Chrystal, Alec (2011): Economics", Oxford University Press Publications, New Delhi.
- Pindyck, Robert.S., Rubinfield.Daniel.L., Mehta.Prem.L(2009): Microeconomics", Pear son.
- Salvatore, Dominic(2010): Principles of Microeconomics", Oxford University Press Publications, New Delhi.
- Samuelson,Paul.A& Nordhaus, William.D(2010): Economics", Tata McGraw Hill. Koutsoyiannis, A (2008) (2nded): Modern Microeconomics", Macmillan.
- Stonier, A.W& Hague. Douglas. C (2003)(5thed): A Text Book of Economic Theory", Pearson.

Suggested Continuous Evaluation Methods:

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

Suggested equivalent online:

Swayam

Coursera

BA 1stYear, Sem. II, Course I (Theory)

Program/Class: Degree/BA	Year: First	Semester: Second
*	Subject: Economics	
Course Code: A080201T	Course Title	e: Macro Economics
Students are able to explain n concepts related to national inco Students are able to comprehend	me.	lculation methods of national income, and

- Students are able to comprehend the concept of multiplier and it's working.
- Students are able to understand the relationship between inflation and employment.
- Students are able to relate factors determining national income such as consumption, saving and investment.
- 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

Credits: 6		Core Compulsory
	Max. Marks: -25+75	Min. Passing Marks:40
	Total No. of Lectures-Tutorials-Practical (i	n hours per week): L- 4/w
Unit	Topics	No. of Lectures
I	Introduction: What is macroeconomics? Macroeconomic issues in an economy. Macro vs. Micro Economics, Limitations of Macroeconomics; Introduction to National Income. Concepts of GDP,	

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Random

п	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
Ш	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	

- Ackley.G (1976): Macroeconomics: Theory And Policy, Macmillan, New York.
 Ahuja,H.L (2012): Macroeconomics: Theory and Policy, S. Chand & Company, New Delhi.
 Ahuja,H.L (2012): Samasti Arthshastra, 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.
- Dornbusch, Rudiger&startz, Richard (2012): Macroeconomics , Tata McGraw Hill Education.
- Dwivedi, D.N (2010): Macroeconomics: Theory and Policy, Tata McGraw Hill Education.

 Gupta, R.D. & Rana, A.S (2009): Keynes post-Keynesian Economics, Kalyani Publishers, New Delhi &Ludhiana.
- Hansen, A.H (1953): A Guide To Keynes, McGraw Hill.
- 10. Jhingan, M.L (2010): Macroeconomics , Vrinda Publications, New Delhi.
- Jhingan, M.L (2012) :SamastiArthshastra , Vrinda Publications, New Delhi.
 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 2ndYear, Sem. III Course I (Theory)

RELIAMS

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Programme/Class: Degree/BA	Year: Second	Semester: Third
	Subject: Economics	
Course Code: A080301T	Course Title: Histor	ry of Economic Thought

Course outcomes:

- To learn and discuss, at an advanced undergraduate level, how the economic thought has evolved over time.
- Introducing students to the critical comparison of the contributions of the main schools of economics.
- To introduce & highlight before the students about Indian Economic Thinkers and their valuable contribution in the field of Economics.
- 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.

	Credits: 6	Core Compulsor	У
	Max. Marks: 25+75	Min. Passing Marks	
	Total No. of Lectures-Tutorials-Prac	tical (in hours per week): L- 4/w	
Unit	Topics		No. of Lectures
	Part I		
I	Kautilya, Dada Bhai Naoroji, RC Dutt, I Gandhian Economics.	BR Ambedkar, R M Lohia,	12
II	Pt. DeenDayal Upadhyay, JK Mehta, A K Se	en, J. Bhagwati,	12
ш	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.		
	Part II		
v	Classical Period: Adam Smith - Division of I Accumulation, Distribution, Views on Trad Ideas on International Trade; Thomas R. Mal	de, David Ricardo, Distribution,	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; Economic Ideas of Wicksteed and Weiser.		11

- 1. Bhatia, H.L: History of Economic Thought, Vikash Publishing House.
- 2. Blackhouse,R (1985): A History of Modern Economic Analysis, Basil Blackwell, Oxford.
- 3. Ganguli, B.N(1977): Indian Economic Thought: A 19th Century Perspective, Tata Mcgraw Hill.
- 4. Hajela, T.N (2011): Aarthik Vicharon Ka Itihas, Ane Books.
- 5. Hajela, T.N (2011): History Of Economic Thought, Ane Books.
- Hunt, E.K. & Lautzenheiser, Mark (2011): History of Economic Thought: A Critical Perspective, Phi Learning.
- Jhingan, M.L (2008): Aarthik Vicharon Ka Itihas , Vrinda Publications, New Delhi.
- 8. Kautilya (1992), The Arthashastra, Translated And Introduced By L.N.Rangarajan, Penguin Books.
- 9. Loknathan, V (2009): History of Economic Thought, S.Chand& Company.
- 10. Roll, Eric : History of Economic Thaught, Faber.
- Schumpeter, J.A(1954): Historyof Economic Analysis, Oxford University Press, New York.

12. Sinha, V.C (2011): Aarthik Vicharon Ka Itihas, Mayur Pu

13. Staley, Charles. E, "A History of Economic Thought: From Aristole To Arrow", Blackwell Publishing.

Suggested Continuous Evaluation Methods:

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

Suggested equivalent online : Swayam

BA 2nd Year, Sem. IV Course I (Theory)

Course Code:A080401T	Course Title: Money, B	anking and Public Finance
	Subject: Economics	
Program/Class: Degree /BA	Year: Second	Semester: Fourth

Course outcomes:

- Understand simple concepts related with monetary economics and banking theory.
- Correlate and apply to current events & key models and concepts of monetary economics and banking theory.
- Appreciate the potential importance of monetary phenomenon in the economy.
- Understand the sources of finance both public and private
- Demonstrate the role of government to correct market failures and possible advantage of public financing.
- 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

	Credits: 6	Core Compulsory	1
Max. Marks: 25+75		Min. Passing Marks:40	
	Total No. of Lectures-Tutorials-Practice	ctical (in hours per week): L- 4/w	
Unit	Topics		No. of Lectures
	Part		
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	
П	Supply of Money: Definitions—Determinants of Money Supply—High Powered Money and Money Multiplier—Indian Currency system.		12
ш	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

	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

- Bagchi, Amaresh (2005): Readings in Public Finance, Oxford University Press.
- Cullis, John & Jones Philip (2009): Public Finance and Public Choice, Oxford University Press.
- Eyler, 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.
- Jhingan ,M.L (2012): Monetary Economics , Vrinda Publications, NewDelhi.
- Jhingan, M.L (2012): Maudrik Arthshastra, Vrinda Publications, New Delhi.
- Johansen, Life (1965): Public Economics, Chicago: Rand Menally.
- 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&Guitton, H: Public Economics (1974), Mcmiillan.
- 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 Arthshastra, 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 3rd 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	c Growth and Development
ourse outcomes:		

- Students should be able to comprehend the concept and meaning of economic growth and economic
 development.
- Students should be able to distinguish between economic growth and economic development.
- Students should be able to comprehend the issues and challenges in economic growth and development.
- Students should be able to comprehend and explain the concept of poverty and human development & the related concepts.
- Students should be familiar with the approaches to development.
- Students should be able to understand and explain the factors and variable of economic development.
- Students are able to understand how international factors facilitate and impede economic development.

	Max. Marks: 25+75 Total No. of Lectures-Tutorials-Practi	Min. Passing Marks	
Unit	Topics	cai (iii nours per week). P- 2/w	No. of
			Lectures
	Part I		
1	Meaning and Measurement of Economi Measuring Development and Development Income, Factors affecting Economic growth a	Gap, GDP, GNP, Per Capita	10
ш	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, Quality of Life Indices. Hunger Index, Happiness Index, Development and Sustainability. Concept of Sustainable Development. Millennium Development goals.		10
Ш	Lewis model of labour surplus economy, Rosentein Rodan's theory of Big Push, Nelson's Level equilibrium trap, balanced vs Un-balanced growth, Rostow's stages of growth, Harrod and Domar Growth models.		
IV	Theory of Demographic Transition, Population as Limits to Growth. The Concept of Inclusive Growth- with Reference to India. Market Failure and Government Failure, Food Security, Education, Health and Nutrition, Gender and Development.		
	Part II		
v	Development & Underdevelopment: an Over Explanations Of Underdevelopment- Viciou Causation, Dualism-Social, Technological, Model of Dual Economy, Lewis, Ranis-I Theories of Underdevelopment.	s Circle of Poverty, Circular Financial, Organizational,	10
VI	Models of Technical Progress, Embodied and Disembodied Technical		10
VII	Accumulation Endogenous growth, Intellectual capital, Role of Learning, Education and Research, Explanations of Cross country Differentials in Economic Growth, Information Paradigm-Stiglitz		
VIII	International Trade, Aid and Finance in the Development of Developing		

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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,
- Jhingan ,M.L (2013): Economics of Development and Planning, Vrinda Publications, NewDelhi.
- Jhingan ,M.L (2013): Vikas Ka ArthshastraAwamNiyojan, Vrinda Publications, NewDelhi.
- 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,
- 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, SageIndia.
- 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 Com pany, 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 3rd Year, Sem. V Course II (Optional) (Theory)

Programme/Class: Degree/BA	Year: Third	Semester: Fifth
	Subject: Economics	
Course Code: A080502T	Course Title: Environmental Economic	s
C		

Course outcomes:

- Students should be familiar with the basic concepts of ecology environment and economy.
- · Students to understand the solution to environmental problems- the command and control approach, market based methods, tax tradable pollution permit, etc, carbon trading
- Students should be familiar with the concept of Sustainable development, environmental impact assessment CO 5: Global and local environmental concerns.
- Students should be comprehend the Local Issues of Economic Bearing related to environment &
- Students should realize the importance and influence of environment on the economy including the quality of manpower.
- Students should realize the importance to make cleaner environment so as to achieve harmonious
- Students should comprehend that environmental problem is not the problem of a single country or region but

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- a global problem/issue.
- Demonstrate an awareness of economic growth problems, issues in globalisation, and provide grounding in major growth strategies and development.

-	Credits: 5	Core Compulsor	y	
			Min. Passing Marks: 40	
	Total No. of Lectures-Tutorials-Prac	tical (in hours per week): L-4/w		
Unit	Topics		No. of Lectures	
	Part I			
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.			
п	The Design and Implementation of Environmental Policy: Overview, Pigouvian taxes and effluent fees, tradable permits, implementation of environmental policies in India and international experience; transboundary environmental problems; economics of climate change		10	
ш	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.			
IV	Sustainable Development: Concepts; measurement; perspectives from Indian experience.			
	Part II			
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 Regime; Climate Change- Meaning and Cor Rain, Global Warming and Greenhouse E Issues and Legislations; Role of Judiciary in Conservation; International Environmental Is Trading.	acept, Ozone Depletion, Acid Effect; Indian Environmental Environmental Protection and	10	

- Bharucha, Erach : Paryavaran Adhyann, Orient Blackswan.
- Bhattacharya, Rabindra Nath (2002): Environmental Economics An Indian Perspective, Oxford University Press.
- Eugine, T (2005): Environmental Economics, Vrinda publications, Delhi.
- Jhingan,M.L & Sharma,C.K (2009): Environmental Economics Theory Mgt & Policy, Vrinda publications, Delhi.
- Kolstad, Charles. D (2012): Intermediate Environmental Economics, Oxford University Press.

- Nagre, Vijay. H (2012): Environmental Economics, Chandralok Prakashan.
- Singh, Kartar & Shishodia (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: Paryaavaran Addhyayan, Motilal Banarasidass Pvt Ltd.

B A 3rdYear, Sem.V Course II (Optional) (Theory)

		(Theory)		
	ogram/Class: Degree /BA	Year: Third	Sem	ester: Fifth
		Subject: Econom	ics	
Course Code		Course 7	itle: International Econor	nics
StudeStude formaStude	nts should be able to undo mics. nts should be familiar wit nts should be familiar wit tion of groups. nts are familiar with the in	erstand and explain the concept th the approaches of internation th and are able to explain the enternational organizations and these international organizations	nal trade, conomic integration at the	global level and the
	Credits: 5		Core Compu	Isory
	Max. Marks: 25+7		Min. Passing M	arks:40
	Total No. of	Lectures-Tutorials-Practical (in hours per week): L- 4/w	
Unit	Topics			No. of Lectures
		Part I		
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
п	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
ш	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,IBSA.			10
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	
	7.7	Part II		

v	Heckscher-Ohlin Theorem, The Leontief Paradox, Post-Heckscher-Ohlin Theories of Trade- Technological Gap Model; The Krugman Model, Effects of Growth on International Trade- Production & Consumption Effects, Export Pessimism, Immiserising Growth; Gains from Trade- Meaning and Types, Factors Determining Gains from Trade.	10
VI	International Financial Institutions-IMF, WORLD BANK, ADB; GATT, WTO- TRIPS &TRIMS, WTO and India;, UNCTAD, North-South Trade Dialogue, South-South Cooperation; 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, Move Towards Capital Account Convertibility; Global Financial Crisis.	10

- Agarwal, Babita (2009): Antarrastriya Arthshastra, Omega Publications.
- Bhatia, H.L (2006): International Economics, Vikash Publishing House.
- Cherunilam, Francis (2008) :International Economics" Tata McGraw Hill Education.
- Field, Alfred. J & Appleyard, Dennis. R (2013): International Economics, McGraw Hill
- Gerber, James (2012): International Economics, Pearson.
- Jhingan, M.L (2011): Antarrastriya Arthshastra, Vrinda Publications, New Delhi.
- Krugnan, Paul. R & obstfeld, Maurice (2008): International Economics, Pearson.
- Lal,S.N (2012) :Antarrastriya Arthshastra, Shiva Publishing House, Allahabad.
- Mannur, 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) : Antarrastriya Vyapar Avam Vitt, Mayur
- 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 3rd Year, Sem. V Course III (Project)

Program/Class: Degree /BA	Year: Third	Semester: Fifth
	Subject: Economics	
Course Code: A080603R	Course Title: Elementary	Statistics based Project
Course Outcome:		Similares oused Project

- - Students to be familiar with the concepts in Statistics.
- The concepts comprehended by the students shall be put to use in practice.



- 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	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.		
п	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)	45 (Class	
ш	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.	room teaching and practical)	
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).			

- 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.



- Lind, Wathen & Marchal (2013): Basic Statistics for Business & Economics, McGraw Hill
- Newbold, Paul (2008): Statistics for Business and Economics , Pearson Education.
- Richard ,I. 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.

- 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
- 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.

BA3rd Year, Sem. VI Course I (Theory)

Program/Class: Degree /BA	Year: Third	Semester: Sixth
	Subject: Economic	S
Course Code:A080601T	Course Title: Indian	Economy & Economy of Uttar Pradesh
Students should be able of Uttar Pradesh. Students are able to une translate and relate ther Students are able to devand factors that cn stim	derstand the importance, causes and im m with economic development.	ral resources of Indian economy and the economy pact of population growth and its distribution, desh, its demographic feature, natural resources ment.
	iliar with the industrial development in	
Credi	ts: 5	Core Compulsory
Max. Mark		Min. Passing Marks: 40
Total	No. of Lectures-Tutorials-Practical (in	hours per week): L- 4/w
Unit	Topics	No. of Lectures

Part I

I	Structure and Features of Indian Economy: Indian economy as a Developing Economy. Comparative Development of Indian States.	8
п	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
ш	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
	Part II	
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.	
VI	Sectoral growth pattern in Uttar Pradesh; Economic growth in Uttar Pradesh and Indian economy: A comparison; Infrastructural development of Uttar Pradesh.	
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.	
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

- 1. Agarwal,,M K (2009): Uttar Pradesh ka Arthik Vikas. New Royal Book Company
- Annual Financial Statement (Budget) of the Government of Uttar Pradesh published in different years & the latest.
- 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)
- Mishra, Arvind Narayan & Atul Chandra (2018):The Economy of Uttar Pradesh. Gutenberg Publication ISBN: 9789386240224, 9789386240224
- 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,



Government of India, 2014.

 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 3rdYear Sem. VI Course II (Optional) (Theory)

Program/Class: Degree /BA	Year: Third	Semester: Sixth
	Subject: Economics	
Course Code: A080602T	Course Title: A	griculture Economics

Course Outcome

- Students should be able to comprehend and explain the approaches to economic development with respect to
 dualistic development.
- Students should be able to understand and explain the basics of agriculture economics.
- Students should be familiar with labour issues in agriculture sector.
- 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.
- Students should be familiar with the institutional initiates to strengthen the rural and agricultural development
 to achieve self sufficiency.
- 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.

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		
	Part I		
I	Models of Agricultural Development: Physiocrats model, Fei & Ranis Model, Schultz Theory of Ag Jorgenson's Dual Economy Model	approach, W. A. Lewis gricultural Development, 10	
П	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.		
ш	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).		
IV	Current Issues in Indian Agriculture- Poverty & Food Security in India, Agro- Subsidies in India, Subsidy Vs Public Investment. Export and		

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Renons



	Imports of Agricultural Commodities, Terms of Trade in Indian Agriculture, WTO and Indian Agriculture-Bali Negotiations	
	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

- 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 Conditionin 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 & IBH, 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, NewDelhi.
- 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 Vishay, 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 3rdYear, Sem. VI Course III(Optional) (Theory)

Program/Class: Degree /BA	Year: Third	Semester: Sixth
	Subject: Economics	
Course Code: A080603T	Course Title: Ele	ementary Mathematics

Course Outcome

- Students should be familiar with the basis concepts of mathematics and their application in economics.
- Students are able to comprehend & explain the concepts of straight lines slope etc of mathematics and its
 application in economics.
- Students should be able to understand basics of differential & its application in economics.
- Students should be able to understand and work with matrices and determine if a given square matrix is invertible.
- Learn about and work with vector spaces and subspaces.
- Students are able to understand and work with the concepts of linear programming & graphic methods.

Credits: 5		Core Compulsory	
Max. Marks: 25+75		Min. Passing Marks:40	
	Total No. of Lectures-Tutorials-Practical (i	n hours per week): L-4/w	
Unit	Topics	No. o Lectur	
	Part I		
I	Basic Concepts: Variables, Sets, Functions, Equation of Equations	ons, Identities, Systems	9
п	Application of Straight Line System, Slope of the Line, Homogeneous Function.		9
ш	Role Of Mathematical Techniques In Economic Analysis, Theory of Numbers, Indices and Factorization.		9
IV	Progression, Growth Rate, Equilibrium.		9
	Part II		
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



	VII	Matrix and Determinants: Various types of Matrices, Determinants, Inverse of a Matrix, Crammer's Rule.	10			
,	VIII	Concept of Linear Programming — Graphic Methods.	10			
Sugge	ested Re	adings:				
1.	Agarw Rees,F	ral, D.R. (2009): Mathematics for Economics, Vrinda Publications, Delhi. Livernois, Ray., & Hoy, Michael (2012): Mathematics for Economics, PHI Learning.	John.,			
2.	Agarw	val, D.R. "Prarambhik Ganitiya Arthshastra (Hindi), Vrinda Publications, Delhi.				
3.	Allen,	Allen, R.G.D (2008): Mathematical Analysis for Economics, AITBS.				
4.	Bhard	waj,R.S(2006):MathematicsforEconomicsandBusiness,ExcelBooks.				
5.	Chiang	g,A.C & Wainwright,Kevin (2013): Fundamental Methods of Mathematical Economia Hill Publication.	ics"			
6.	Dowlin Mcgra	ng,Edward.T(2005):Schaum'sEasyOutlineofIntroductiontoMathematical Economics , w HillEducation.	Tata			
7.	Madna	ni, G M K : Mathematics for Economics. Sultan Chand & Sons				
8.		a,J.P. "Ganiteeya Arthshastra", Pratiyogita Sahitya.				
9.		,Mike (2003): Basic Mathematics for Economists , Routledge.				
10	Seth,N	f.L., "Arthshastramei Prarambhik Ganit", Laxmi Narayan Publications, Agra.				
		a I K (2007) Pusings Mathematica A - Post Post V 41				

11. Sharma, J.K (2007): Business Mathematics, Ane Books Pvt. Ltd.
12. Yamane, Taro (2007): Mathematics For Economists: An Elementary Survey, PHI Learning

Suggested Continuous Evaluation Methods:

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

Suggested equivalent online : Swayam

BA3rd Year, Sem. VI Course IV

(Project/Dissertation)

		(1 roject/Dissertation)		
Program	/Class: Degree/BA	Year: Third	Semest	er: Sixth
		Subject: Economics		
Course Code:A080604R		Course Title	e: Project/Dissertation	
It aim issues To en The T	objective of introducing lience the local issues of inters/citizens. It is at enabling the students is able them to learn preperatemplate/Format of the Dis	Dissertation/Project at the gradi- economic implication or focused to use and apply the learned ec- tion of questionnaire/interview sc sertation/Project shall be develop peconomic thikning in the stude	d on economic welbeing conomic principles vis-a- chedule.	and behaviour of
	Credits: 3	p and an are study	Core Compulso	
Max. Marks: 25+75			Min. Passing Marks:40	
	Total No. of I	ectures-Tutorials-Practical (in he	ours per week): P-2/w	
Unit		Topics		No. of Lectures
I	Presentation using Ppt. Dissertation Report wil Surveys, Questionnaire	the Local/Current Issues with E Il be prepared using Statistical/I //interview schedule.	Research Techniques	45

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	annexure.	
1		

- 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,

 - 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:

Swayam