CHAUDHARY CHARAN SINGH UNIVERSITY, MEERUT

MODIFIED SYLLABI

(AS PER THE RECOMMENDATIONS OF BOARD OF STUDIES IN ECONOMICS, CHAUDHARY CHARAN SINGH UNIVERSITY, MEERUT HELD ON JUNE 2, 2021)

National Education Policy-2020
Common Minimum Syllabus for all U.P. State Universities/ Colleges
SUBJECT: ECONOMICS

Syllabus Revised on (06.09.2023) by

S. No.	Name	Designation	Department	College/University
1	Prof. Atvir Singh	Professor & Convener-I	Economics	C.C.S. University, Meerut
2	Prof. Dinesh Kumar	Professor	Economics	C.C.S. University, Meerut
3	Prof. R.K Sharma	Professor	Economics	C.C.S. University, Meerut
4	Dr. Sanjeev Kumar	Associate Professor	Economics	C.C.S. University, Meerut
5	Dr. Anju Garg	Convener-II	Economics	D.A.V. P.G. College BSR
6	Prof. Yudhvir Singh	Professor	Economics	Meerut College, Meerut
7	Dr. Remu Bala	Professor	Economics.	S.S.V. College Hapur
8	Prof. Vinod Singh	Professor	Economics	University of Lucknow
9	Prof. S S Mor	Professor	Economics	BPSM University, Haryana
10	Prof. Nidhi Sharma	Professor	Economics	B.H.U. Varanasi
11	Prof. Veer Virendra Singh	Professor	Economics	J S Hindi College Amroha
12	Prof. Shiv Kumar	Professor	Economics	I.C.A.R.-N.I.A.P. New Delhi
13	Prof. Amit Sharma	Convener Commerce	Commerce	I P College BSR

B.A. 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 economics.
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.

List of Papers in all Six semesters

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	Optional Paper (Any one) 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/A0 80603T	Optional Paper (Any one) 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
				Total Credit	50

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

Course Outcome:
- 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 utility analysis.
- 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 the
- General equilibrium, economic efficiency and market failure.

BA 1st Year, Semester I, Course I (Theory)

Course Code: A080101T

Course Title: Principle of Micro Economics

Unit	Topics
I	**Basic Concepts**: What is economics and why is it important, microeconomics vs macroeconomics; scarcity, choice and opportunity cost; an overview of economic systems- traditional economy, command economy, market economy, mixed economy
II	**Demand and Supply**: Demand, supply, and equilibrium in markets for goods and services; Law of demand and supply; shifts in demand and supply for goods and services; elasticity of demand- price, income and cross elasticities of demand
III	**Theory of Consumer Behaviour**: Concept of utility- cardinal vs ordinal utility; marginal utility, law of diminishing marginal utility; budget constraint; indifference curves- meaning and properties; consumer equilibrium
IV	**Production and Costs**: Production function- long run and short run; law of variable proportions, isoquants- meaning and properties, returns to scale; production possibility frontier; cost- total cost, fixed costs, variable cost, marginal cost and average cost, types of factor payments, iso-cost lines, economies of scale, explicit and implicit costs
V	**Perfect Competition**: Characteristics, output decisions by perfectly competitive firms, entry and exit decisions in the long run
VI	**Imperfect Competition**: Monopoly- meaning and important characteristics; monopolistic competition- meaning and important characteristics
VII	**Distribution**: Concept of distribution, elementary idea about the classical theories of rent, wages, profits and interest
VIII	**Welfare Economics**: Concept of welfare economics, normative vs positive economics; concept of pareto optimality

Suggested Readings:

1. Ahuja ,H.L(2013) : Advanced Economic Theory||, S.Chand & Company.

Shastri,Rahul.A (1999) : Microeconomics||, Orient Blackswan.

2. Ahuja,H.L (2012) :Ucchatar Arthik Siddhant||, S.Chand & Company, New Delhi.

3. Dwivedi,D.N(2011) :Microeconomics-Theory & Applications||, Pearson.

4. Lal, S.N (2013):Arthshastra Ke Siddhant||, Shiva Publishing House, Allahabad.

Seth,M.L (2012) : Arthshastra Ke Siddhant||,Laxmi Narayan Publications,Agra

5. Lipsey,Richard&Chrystal,Alec (2011) : Economics||, Oxford University Press Publications, New Delhi.

6. Pindyck,Robert.S., Rubinfield.Daniel.L., Mehta.Prem.L(2009): Microeconomics||, Pearson.

7. Salvatore, Dominick (2010) : Principles of Microeconomics||, Oxford University Press Publications, New Delhi.

8. Samuelson,Paul.A& Nordhaus, William.D(2010): Economics||, Tata McGraw Hill.

Koutsoyiannis, A (2008) (2nded): Modern Microeconomics||, Macmillan.

9. 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.
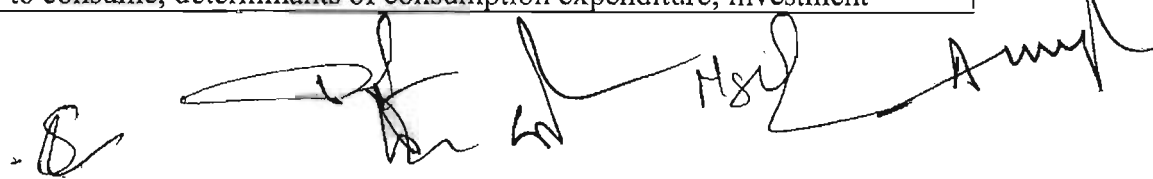
BA 1st Year, Semester II, Course I (Theory)

Course Code: A080201T
Course Title: Macro Economics

Program/Class: Degree/BA	Year: First	Semester: Second
Subject: Economics		
Course Code:	Course Title: Macro Economics	
Course Learning Outcomes • Students are able to explain national income, comprehend calculation methods of national income, and concepts related to national income. • Students are able to comprehend classical theory of employment and the Keynesian approach. • 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 cycle.		
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
I	**Basic Concepts**: Nature and scope of macroeconomics, macroeconomic variables: stock and flow concept
II	**Circular flow of income:** Circular flow of income in two-sector, three-sector and four-sector economy
III	**National Income:** Meaning, and concepts of national income; measurement of national income- expenditure approach, production (value-added) approach, and income approach, problems in measurement of national income, concept of per capita national income
IV	**Unemployment-** Meaning of unemployment; labour force participation rate and unemployment rate, types of unemployment- disguised, cyclical, frictional and structural unemployment; Natural rate of unemployment
V	**Inflation-** meaning and types of inflation, cost-push vs demand-pull inflation; headline vs core inflation; wholesale price index vs consumer price index, Phillips curve
VI	**Classical Doctrine and Keynesian Economies:** Tenets of classical economics, Say's Law of market, criticisms of Say's law by Keynes, salient features of Keynesian economics, principle of effective demand
VII	**Consumption and Investment:** Consumption function- average and marginal propensity to consume, determinants of consumption expenditure; investment-

	autonomous and induced investment, determinants of investment, marginal efficiency of capital
VIII	**Keynesian Theory of Income Determination:** Concept of aggregate demand and aggregate supply, investment multiplier; income determination in two-sector and three-sector model

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 Arthshastra , S. Chand &Company, New Delhi. Lal,S.N (2012) : SamastibhaviVisleshan , 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) :SamastiArthshastra , 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 2nd Year, Semester III, Course I (Theory)
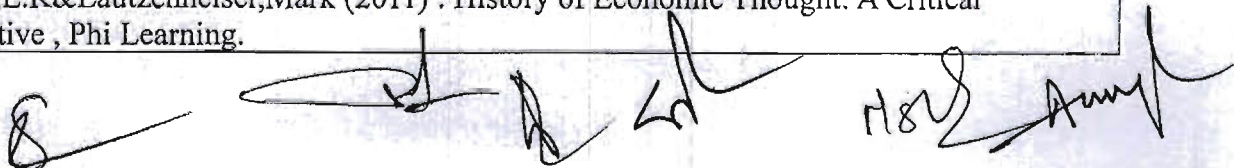
Course Code: A080301T
Course Title: History of Economic Thought

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

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 Compulsory
Max. Marks: 25+75	Min. Passing Marks: 40
Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w	

Unit	Topics
I	**Ancient Economic Thought:** Plato, Aristotle and Kautilya
II	**Mercantilism:** Salient features, factors responsible for growth of mercantilism **Physiocracy:** Salient features, factors responsible for rise of physiocracy
III	**Classical thought:** Adam Smith, David Ricardo and Thomas Malthus
IV	**Marxian Economics-** Economic ideas of Karl Marx
V	**Neo-classical thought:** Marshall, Pigou, Walrus, Jevons and Menger
VI	**Cambridge and Chicago School of thought:** Joan Robinson, Milton Friedman
VII	B.R. Ambedkar, M.K. Gandhi, J.L. Nehru, Chaudhary Charan Singh
VIII	Amartya Sen, J. Bhagwati, Abhijit Banerjee

Suggested Readings:
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) : AarthikVicharon Ka Itihas , Ane Books.
5. Hajela,T.N (2011) : History Of Economic Thought , Ane Books.
6. Hunt,E.K&Lautzenheiser,Mark (2011) : History of Economic Thought: A Critical Perspective , Phi Learning.

7. Jhingan, M.L (2008): AarthikVicharon 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.
11. Schumpeter, J.A(1954): Historyof Economic Analysis, Oxford University Press, New York.
12. Sinha,V.C (2011) : AarthikVicharon Ka Itihas , Mayur Pu
13. Staley,Charles.E, ―A History of Economic Thought: From Aristolc To Arrow‖, Blackwell Publishing.

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

Suggested equivalent online :
Swayam

Course Code: A080401T
Course Title: Money, Banking and Public Finance

Programme/Class: Degree/BA	Year: Second	Semester: Fourth
Subject: Economics		
Course Code: A080401T	Money, Banking and Public Finance	

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 system.

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
I	**Money:** Meaning, functions and classification of money; demand for money- determinants of demand for money
II	**Supply of money-** Narrow and broad concept of supply of money, high-powered money and money multiplier
III	**Commercial Banks-** Meaning, classification, and functions; liabilities and assets of a commercial bank; credit creation by commercial banks
IV	**Central Bank:** Meaning and functions of a central bank; monetary policy- meaning, instruments and objectives of monetary policy
V	**Public Finance-** Nature and scope of public finance; public finance vs private finance; role of government; functions of public finance, revenue account vs capital account
VI	**Public Revenue:** Major sources of public revenue; canons of taxation; impact and incidence of a tax; effects of taxation
VII	**Public Expenditure:** Meaning and types of public expenditure, causes of rise in public expenditure in India
VIII	**Public Debt and Fiscal Policy:** Meaning and classification of public debt, public debt management; Fiscal policy- meaning, instruments and objectives of fiscal policy

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.

❖ 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 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&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.

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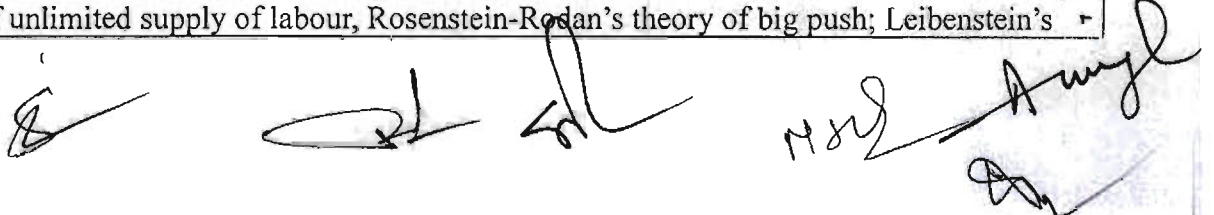
Suggested equivalent online :

Swayam

Coursera

BA 3rd Year, Semester V, Course I (Theory)

Course Code: A080501T
Course Title: Economic Growth and Development

Programme/Class: Degree/BA	Year: Third	Semester: Fifth
Subject: Economics		
Course Code: A080501T	Course Title: Economic Growth and Development	

Course 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.

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
I	**Economic Growth**: Meaning of economic growth, determinants of economic growth-physical capital, human capital and technology; factors contributing to a healthy economic climate; concept of inclusive growth
II	**Economic Development**- Meaning of economic development, economic development vs economic growth, concept of sustainable development, sustainable development goals
III	**Comparative Economic Development**: World Bank's income classification of countries; UNDP's Human Development Index, salient features of underdeveloped, developing and developed countries
IV	**Stages of Economic Growth:** Karl Marx's stages of economic growth, Rostow's stages of economic growth
V	**Theories of Economic Growth-I:** Classical theory of economic growth; Marxian theory of economic growth; Harrod-Domar models of economic growth
VI	**Theories of Economic Growth-II:** Nelson's low-level equilibrium trap, Arrow's learning by doing, models of economic growth by Meade and Robinson
VII	**Theories of Economic Development:** Balanced vs unbalanced growth, Lewis theory of unlimited supply of labour, Rosenstein-Rodan's theory of big push; Leibenstein's

		model of critical minimum effort
VIII	**Poverty and Inequality:** Concept of poverty, vicious circle of poverty, Lorenz curve, measurement of poverty- income poverty and multidimensional poverty index; concept of inequality, Kuznet's Inverted U-Hypothesis, measurement of inequality- Lorenz curve, Gini Coefficients and aggregate measures of inequality	

Suggested Readings:

❖ Barro, Robert J and Xavier Sala-i- Martin, Economic Growth, The MIT Press, 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, 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, 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 andApplications, SageIndia.

❖ Singh,S.R(2012):EnvironmentalEconomics,APHPublishingCorporation,Delhi.

❖ Somashekar, NT: Developmental Economics, New Age Publication (Latest edition)

❖ Taneja,M.L&Myer,R.M (2011): Arthshastra Ki YojnayeAwamVistaar, Visha PublishingCompany,Jalandhar (New Delhi).

❖ Thirlwall, A.P., Growth and Development with Special Reference to Developing Economies, Macmillan, UK, 1999.

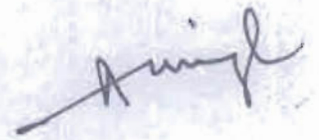❖ Todaro,Michael.P&Smith,Stephen.C (2011) : Economic Development, Pearson.

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 Economics			

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 & development.
- 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 development.
- Students should comprehend that environmental problem is not the problem of a single country or region but 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 Compulsory	
Max.Marks:25+75		Min.PassingMarks:40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-4/w			

Unit	Topics	No. of Lectures
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, Kuznets Curve.	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
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

Suggested Readings:
- 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.
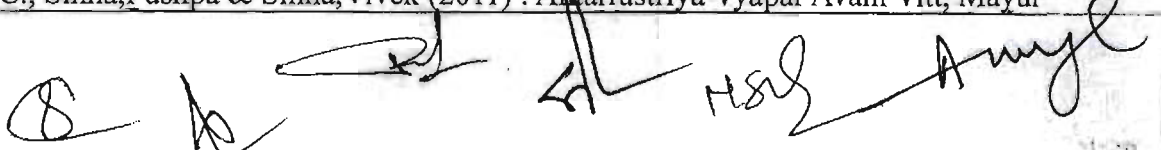
BA 3rd Year, Semester V, Course II (Theory) Optional

Programme/Class: Degree/BA	Year: Third	Semester: Fifth
	Subject: Economics	
Course Code: A080503T	Course Title: International Economics	

Course outcomes:
- Students should be able to understand and explain the concept, need, significance and scope of international economics.
- Students should be familiar with the approaches of international trade
- Students should be familiar with and are able to explain the economic integration at the global level and the formation of groups.
- Students are familiar with the international organizations and their objectives. Students should be able to analyse the importance and relevance of these international organizations.

Credits:5	Core Compulsory
Max.Marks:25+75	Min.PassingMarks:40

Total No. of Lectures-Tutorials-Practical (in hours per week): L-4/w		
Unit	Topics	No. of Lectures

Unit	Topics	No. of Lectures
I	**Economic Globalization**- Meaning, benefits and opportunities, negative effects of globalization	8
II	**The Classical theories of international trade:** Adam Smith, David Ricardo, J.S. Mill and Haberler	8
III	Heckscher-Ohlin theorem, Leontief Paradox- Leontif's test of the Heckscher-Ohlin theorem	8
IV	**Terms of Trade:** Meaning and concepts, factors affecting terms of trade **International Trade policies:** Tariffs, quotas and subsidies; Non-tariff barriers	8
V	**Balance of Payments Accounting principles:** Debits and credits in the balance of payments, current account, capital account, official reserves, deficits and surplus in current account and capital account	10
VI	**International Financial Institutions:** IMF, World bank, WTO- TRIPS; **Economic Integration:** Custom Unions and Free Trade Areas	8
VII	**Foreign Exchange:** Meaning of foreign exchange, meaning and determination of exchange rate, exchange rate policies- fixed, flexible and mixed systems, purchasing power parity theory	10
VIII	**Key Issues in International Trade:** Import substitution versus export-pessimism, UNCTAD and world trading system, foreign direct investment vs foreign portfolio investment	8

Suggested Readings:

- 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 Education.
- 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

Publications.

- Vaishya,M.C. & Singh,Sudama (2006) : International Economics , Oxford &IBH Publishing House, Delhi.

Suggested Continuous Evaluation Methods:

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

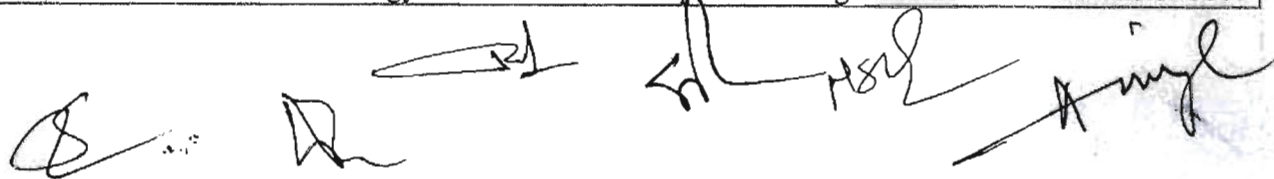Suggested equivalent online :

Swayam

BA 3rd Year, Semester V Course III (Project)

Program/Cl ass: Degree/BA	Year: Third	Semester: Fifth
	Subject: Economics	
Course Code: A080603R	**Course Title: Elementary Statistics based Project**	

Course Outcome:
- 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	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.	
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)	45 (Class room teaching and practical)
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
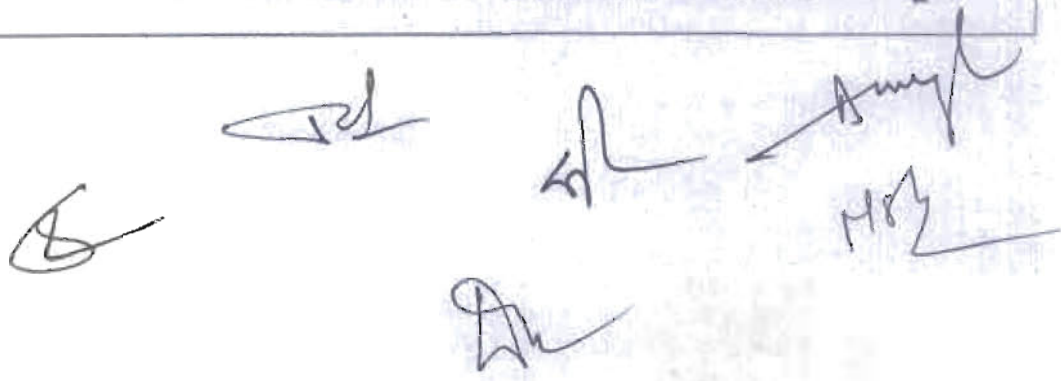
(13) : 978-81-224-2488-1

- Leighton,Thomas (2011) : Using Statistics in Economics, Tata McGraw Hill Education.
- Lind, Wathen &Marchal (2013): Basic Statistics for Business & Economics, McGraw Hill Education.
- 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.

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.

Program/Class: Degree /BA	Year: Third	Semester: Sixth
	Subject: Economics	
Course Code: A080601T	**Course Title: Indian Economy & Economy of Uttar Pradesh**	

Course Outcome:

- Students should be able familiar with the basic characteristics of Indian economy,
- Students should be able familiar with the it's potential on natural resources of Indian economy and the economy of Uttar Pradesh.
- Students are able to understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.
- Students are able to develop an understanding about Uttar Pradesh, its demographic feature, natural resources and factors that cn stimulate its economic growth and development.
- Students should be familiar with the rural development of Uttar Pradesh over the period of time.
- Students should be familiar with the industrial development in India and in Uttar Pradesh.

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	
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	**Industrial Sector:** Industrial Policy; Public Sector Enterprises and their Performance, Privatization and Disinvestment debate, Small, Medium and Large-scale Sector, Industrial Labour,	10
IV	**Planning in India:** Objectives and Strategy of Planning; Success story of Indian Plans; Strategy of Inclusive Growth	10
	Part II	
V	Nature, Features, Demographic Profile, Status of Natural Resources, Major Factors affecting growth and development in 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	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 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
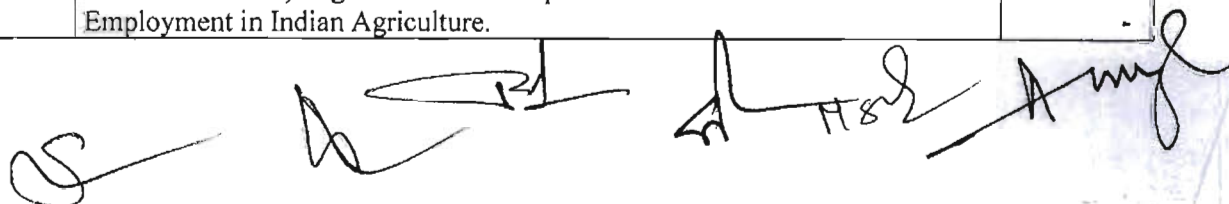
Suggested equivalent online: Swayam

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

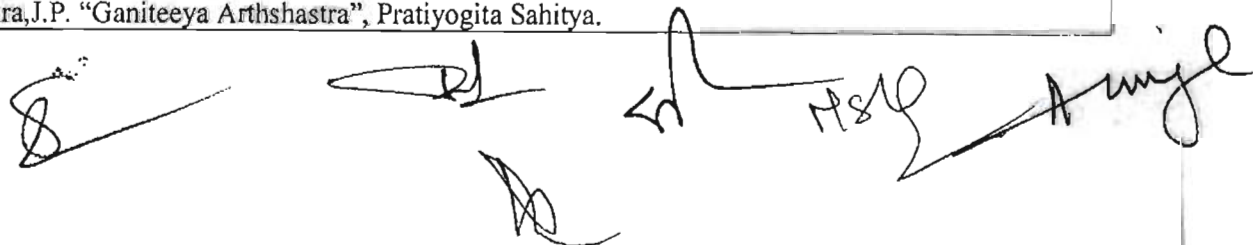| Unit	Topics	No. of Lectures
Part I		
I	Models of Agricultural Development: Physiocrats approach, W. A. Lewis model, Fei & Ranis Model, Schultz Theory of Agricultural Development, Jorgenson's Dual Economy Model	10
II	Agricultural Production Function, Supply Response, Farm Size, Returns to Scale and 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	10
IV	Current Issues in Indian Agriculture: Agro- Subsidies in India, Subsidy vs Public Investment. Export a n d Imports of Agricultural Commodities, Terms of Trade in Indian Agriculture, WTO and Indian Agriculture-Bali Negotiations	10
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,	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,	10
VII	Role of Credit in Agricultural Development, Institutional & Non-Institutional Sources of Credit in India, Role of Schedule Commercial Banks, Lead Banks, Regional Rural Banks and NARBAD to Promote Agricultural Development.	8
VIII	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 and crop Diversification 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 Condition 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 & 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, 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 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 3rd Year, Sem. VI Course III (Optional) (Theory)

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

Course Outcome

- Students should be familiar with the basic 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 (in hours per week): L- 4/w

Unit	Topics	No. of Lectures
	Part I	
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
	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

Suggested Readings:

1. Agarwal, D.R. (2009): Mathematics for Economics, Vrinda Publications, Delhi. Livernois,John., Rees,Ray., & Hoy,Michael (2012) : Mathematics for Economics , PHI Learning.
2. Agarwal, D.R. "Prarambhik Ganitiya Arthshastra (Hindi), Vrinda Publications, Delhi.
3. Allen,R.G.D (2008) : Mathematical Analysis for Economics , AITBS.
4. Bhardwaj,R.S(2006):MathematicsforEconomicsandBusiness,ExcelBooks.
5. Chiang,A.C & Wainwright,Kevin (2013) : Fundamental Methods of Mathematical Economics" McGraw Hill Publication.
6. Dowling,Edward.T(2005):Schaum'sEasyOutlineofIntroductiontoMathematical Economics , Tata Mcgraw HillEducation.
7. Madnani, G M K : Mathematics for Economics. Sultan Chand & Sons
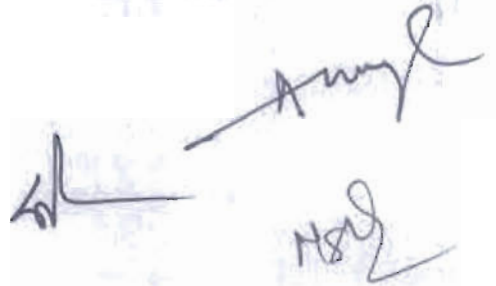8. Mishra,J.P. "Ganiteeya Arthshastra", Pratiyogita Sahitya.

9. Rosser,Mike (2003) : Basic Mathematics for Economists , Routledge.
10. Seth,M.L.," Arthshastramei Prarambhik Ganit",Laxmi Narayan Publications,Agra.
11. Sharma,J.K(2007):BusinessMathematics,AneBooksPvt.Ltd.
Yamane,Taro (2007) : Mathematics For Economists : An Elementary Survey , PHI Learning
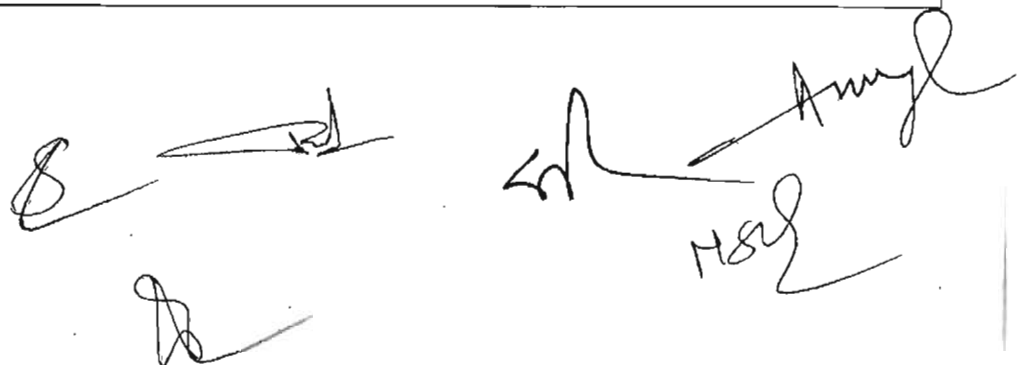
Suggested Continuous Evaluation Methods: Assignment / test / Quiz(MCQ) / Seminar/ Presentation/ Research orientation of students

Suggested equivalent online : Swayam

BA3rd Year, Sem. VI Course IV (Project/Dissertation)

Program/Class: Degree/BA	Year: Third	Semester: Sixth
	Subject: Economics	
Course Code: A080604R	Course Title: **Project/Dissertation**	

Course outcomes:
- The objective of introducing Dissertation/Project at the graduation level is to familiarise, aquaint and experience the local issues of economic implication or focused on economic well-being and behaviour of consumers/citizens.
- It aims at enabling the students to use and apply the learned economic principles vis-a-vis local economic issues.
- To enable them to learn preparation of questionnaire/interview schedule.
- The Template/Format of the Dissertation/Project shall be developed by the respective Department.
- The idea behind this is to develop economic thinking in the students through direct experience to real life.

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 annexure.	45

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: Swayam