

R.M.P.S. UNIVERSITY, ALIGARH



SYLLABUS
FOR NEP 2020 UG AND PG IN ECONOMICS

As per the guidelines of National Education Policy 2020 for The Semester First To Semester Tenth

Bachelor Degree with Research / M.A. ECONOMICS

Raja Mahendra Pratap Singh University, Aligarh

SEMESTER WISE SYLLABUS
IN U.G.(HONOUR'S), U.G. (HONOUR'S WITH RESEARCH)
& P.G. in ECONOMICS

WITH EFFECT FROM ACADEMIC YEAR: 2025-26

Supervising and Advisory Committee for Preparing Syllabus for Raja Mahendra Pratap State University, Aligarh

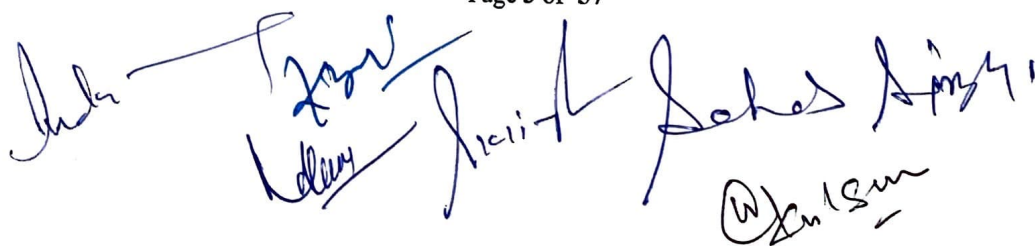
S. N.	Name	Designation	Department	College/University
1.	Professor Indu Varshney (Convener)	Professor	Dept. of Economics	D. S. College, Aligarh.
2.	Professor Md Mahmood Alam (Member)	Professor	Dept. of Economics	D. S. College, Aligarh.
3.	Professor Sheo Kumar Singh (Member)	Professor	Dept. of Economics	S. V. College, Aligarh.
4.	Prof Umme Kulsoom (Member)	Professor	Dept. of Economics	Shri T R Kanya College, Aligarh.
5.	Dr. Neeraj Kumar Mishra (Member)	Associate Professor	Dept. of Economics	Ganjdundwara College, Kasganj.
6.	Dr Krishna Bajpai (Member)	Associate Professor	Dept. of Economics	Shri Tika Ram Girls College, Aligarh.
7.	Prof. Sahab Singh (Member)	Professor	Dept. of Economics	Seth P. C Bagla College, Hathras.
8.	Prof Manmohan Krishan, Chair Professor, Niti Ayog (Expert)	Professor	Dept. of Economics	University of Allahabad, Prayagraj
9.	Prof A. P. Pandey (Expert)	Professor (Retired)	Dept. of Economics	B. H. U. Varanasi.

Indu Varshney
Prof. Sahab Singh
Dr. Neeraj Kumar Mishra
Prof. Manmohan Krishan
Prof. A. P. Pandey
Sahab Singh

Semester-wise Titles of the Papers in B.A. (Economics)

Year	Sem	Course Code	Paper Title	Theory / Practical	Credits
1	I	RA080101T	Introductory Microeconomics	Theory	6
1	II	RA080201T	Introductory Macroeconomics	Theory	6
2	III	RA080301T	Elementary Statistics	Theory	6
2	IV	RA080401T	Money, Banking and Public Finance	Theory	6
2	IV	RA080402R	Dissertation/Project (On the Local Issues with Economic Focus and PPT Presentation of the Dissertation/Project)	Research Project	3
3	V	RA080501T	Economics of Growth and Development	Theory	5
3	V	RA080502T RA080503T	Elective Paper (Choose any one) Environmental Economics OR International Economics	Theory	5
3	VI	RA080601T	Indian Economy and Economy of Uttar Pradesh	Theory	5
3	VI	RA080602T RA080603T	Elective Paper (Choose any one) Agricultural Economics OR Elementary Mathematics	Theory	5
4	VII	RA080701T	P1- Advanced Microeconomics	Theory	4
4	VII	RA080702T	P2- Indian Economic Policy -I	Theory	4
4	VII	RA080703T	P3- Public Finance	Theory	4
4	VII	RA080704T RA080705T	Choose Both for U.G (Honour's) and one for U.G (Honour's with Research) P4-Research Methodology P5- Monetary Economics	Theory Theory	4 4
4	VII	RA080705R	Research Project (Allotment of Topic, Literature Review, Research Methodology) For the Students of U.G (Honour's with Research) only	Research Project	4

4	VIII	RA080801T	P1- Advanced Macroeconomic Theory	Theory	4
4	VIII	RA080802T	P2- Indian Public Finance	Theory	4
4	VIII	RA080803T	P3- Indian Economy -II	Theory	4
4	VIII	RA080804T	Choose Both for U.G (Honour's) and one for U.G (Honour's with Research) P4 - Statistical Analysis	Theory	4
		RA080805T	P5 - Demography	Theory	4
4	VIII	RA080806R	Research Project Submission and Evaluation (For the Students of U.G. Honor's with Research only)	Research Project	4
5	IX	RA080901T	P1- International Economics-I	Theory	4
5	IX	RA080902T	P2- Economics of Growth and Development-I	Theory	4
5	IX	RA080903T	P3- Financial Institutions and Markets	Theory	4
5	IX	RA080904T	Elective Paper- 1 (Choose any one) P4- Advanced Statistics.	Theory	4
		RA080905T	<u>OR</u> P5- Industrial Economics	Theory	4
5	IX	RA080906T	Elective Paper- 2 (Choose any one) P6- Mathematical Economics	Theory	4
		RA080907T	<u>OR</u> P7- Labour Economics	Theory	4
5	IX	RA080908R	Research Project (Allotment of Topic, Literature Review, Research Methodology) For the Students of U.G (Honour's with Research) only	Research Project	4
5	X	RA081001T	P1- International Economics-II	Theory	4
	X	RA081002T	P2- Economics of Growth and Development- II	Theory	4
	X	RA081003T	P3- Rural Economics	Theory	4

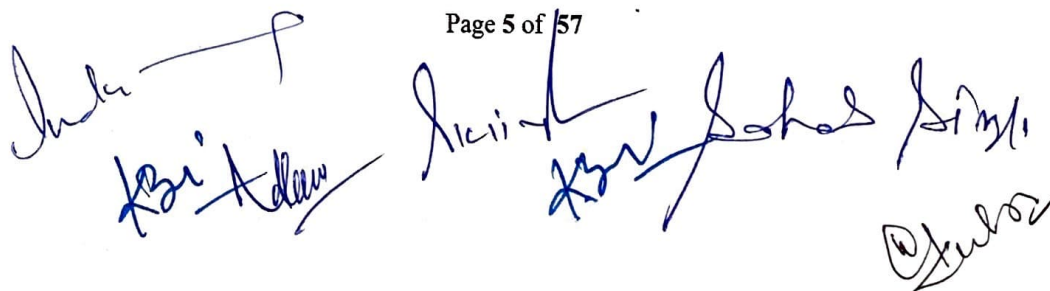


5	X	RA081004T	Elective Paper- 1 (Choose any one) P4- Econometrics <u>OR</u> P5- Regional Economics	Theory	4
		RA081005T		Theory	4
5	X	RSA081006R	Research Project (Submission and Evaluation)		4



**B.A.- 1st Year, Sem- I,
Course I (Theory)**

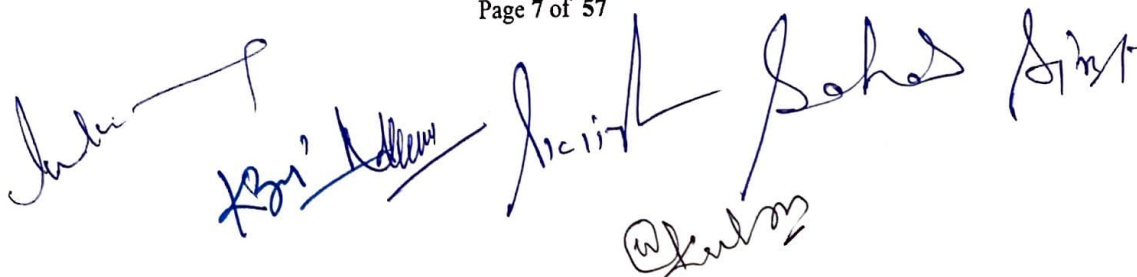
Programmer /Class: Degree/BA	Year: First	Semester: First
Subject: Economics		
Course Code: RA080101T	Course Title: Introductory Microeconomics	
Course Outcome: • The students are familiarized with basic concepts of microeconomics such as laws of demand and supply and elasticity etc. so that he/she can 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 issue and their practical applications of distribution theories. • General equilibrium, economic efficiency and market failure.		
Credits:6	Core Compulsory	
Max. Marks:25+75	Min. Passing Marks:40	
Total No. Of Lectures-Tutorials-Practical (in hours per week): L-6/w		
Unit	Topics	No. of Lectures
I	Definition of Economics- Methods of Economics. Problem of scarcity and choice: opportunity cost; production possibility frontier; Demand and supply: law of demand, shifts of demand versus movements along a demand curve, law of supply, shifts of supply versus movements along a supply curve, market equilibrium. Consumer surplus, producer surplus. Elasticity: Price Elasticity of demand, measurement and determinants of price elasticity, other elasticities.	15
II	Consumer Theory: Budget constraint, concept of utility, diminishing and equi-marginal utility, Diamond-water paradox, Consumer choice: Indifference curves, budget constraint, Consumer's Equilibrium, Income and Substitution effects; Theory of Revealed Preference.	15
III	Production and Costs: a. Production functions, law of variable proportions, and Returns to Scale, Isoquants and Iso-cost line, Producer's Equilibrium b. Costs: Costs in the short run and long run, Cost Curves, Economies and Diseconomies of scale.	15



IV	Market Structures a. Perfect Competition: Assumptions: Theory of a firm under perfect competition, demand and revenue; equilibrium of the firm in the short run and long run; long run industry supply curve: increasing, decreasing and constant cost industries. b. Imperfect Competition Monopolistic competition: Assumptions, SR& LR price and output determinations under monopolistic competition. Oligopoly: Features, Cartels and Price Leadership.	15
V	Monopoly: Price and output determination in short-run and Long-run. Price Discrimination and equilibrium. Factor Pricing: Marginal Productivity Theory of Distribution. Determination of Wage, Interest, Rent and Profit.	15
VI	Welfare Economics: Concept & Definition. Normative & Positive Economics. Concepts of Social Welfare. Role of Value Judgment in Welfare Economics. Pareto Optimality, Conditions of Pareto Optimality. New Welfare Economics: Kaldor-Hicks Welfare Criterion.	15
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): Micro Economics-Theory & Applications", Pearson. 4. Lal, S.N (2013): Arthshastra Ke Siddhant", Shiva Publishing House, Allahabad. 5. Seth, M.L (2012): Arthshastra Ke Siddhant", Laxmi Narayan Publications, Agra 6. Lipsey, Richard & Chrystal, Alec (2011): Economics", Oxford University Press Publications, New Delhi. 7. Pindyck, Robert. S., Rubin field. Daniel. L., Mehta. Prem.L (2009): Microeconomics", Pearson. 8. Salvatore, Dominic (2010): Principles of Microeconomics", Oxford University Press Publications, New Delhi. 9. Samuelson, Paul. A & Nordhaus, William. D (2010): Economics", Tata McGraw Hill. Kout soyiannis, A (2008) (2nded): Modern Microeconomics", Macmillan. 10. 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		

**B.A. 1st Year, Sem.- II,
Course (Theory)**

Program/Class: Degree/BA		Year: First	Semester: Second
Subject: Economics			
Course Code: RA080202T		Course Title: Introductory Macroeconomics	Credit-6
• 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 Cr			
Max. Marks: 25+75		Min. Passing Marks:40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-6/w			Credit- 6
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, National Income Accounting: Concepts of GDP, GNP, NDP and NNP at market price and factor cost; Personal Income and Personal Disposable Income.	15	
II	Measurement of National Income-Different Methods; Nominal and Real income, Limitations of the GDP Measurement. Circular Flow of Income and expenditure in two, three, and four-sector economy. National Income and Economic Welfare; Green Accounting	15	
III	Classical Theory of Employment, Say's Law of Market, Keynesian Theory of Income and Employment, Principle of Effective Demand, AD and AS, Saving and Investment Approach.	15	
IV	Consumption Function - Average and Marginal Propensity to Consume; Factors influencing Consumption, Saving Function, Average and Marginal Propensity to save. Investment: Autonomous and Induced Investment; Marginal Efficiency of Capital; Investment Multiplier, Principle of Accelerator.	15	
V	Rate of Interest: Classical, Neo-Classical and Keynesian Theories of Interest. Indeterminateness in Liquidity Preference. IS-LM Analysis: shifts in the IS and LM curve.	15	
VI	Inflation; determinants and theories of Inflation, causes and remedies, Relationship between inflation and unemployment: Phillips Curve Analysis in short run and long run.	15	



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) : Samastibhavi Visleshan , Shiva Publishing House, Allahabad.
4. Branson, W.A (1989) : Macroeconomics Theory And Policy, Harper & Row.
5. D.L (1969) : Advanced Macroeconomics, McGraw Hill, New York.
6. Dornbusch, Rudiger & startz, Richard (2012): Macroeconomics , Tata McGraw Hill Education.
7. Dwivedi, D.N (2010) : Macroeconomics: Theory and Policy , Tata McGraw Hill Education.
8. Gupta, R.D. & Rana, A.S (2009) : Keynes post-Keynesian Economics , Kalyani Publishers, New Delhi & Ludhiana.
9. Hansen, A.H (1953) : A Guide To Keynes, McGraw Hill.
10. Jhingan, M.L (2010): Macroeconomics , Vrinda Publications, New Delhi.
11. Jhingan, M.L (2012) : Samasti Arthshastra , Vrinda Publications, New Delhi.
12. Shapiro, Edward (2005): Macroeconomic Analysis, Galgotia Publications, New Delhi.
13. Sikdar, Saumen (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

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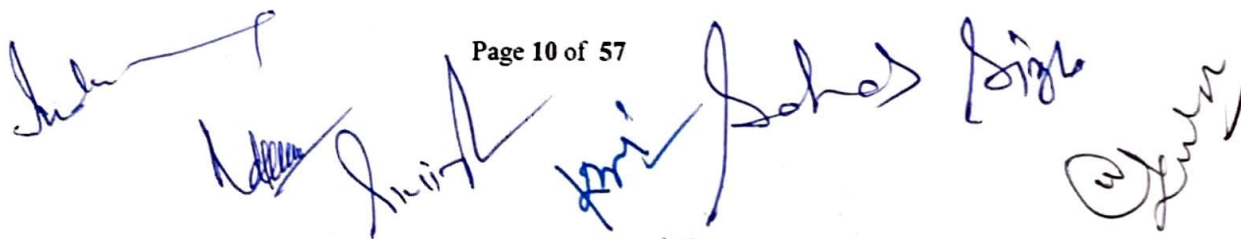
B.A.- 2nd Year, Sem.- III
Course I (Theory)

Programme /Class: Degree/BA		Year: Second	Semester: Third
Subject: Economics			
CourseCode:RA080301T		Course Title: Elementary Statistics	
Credits:6		Core Compulsory	
		Min.PassingMarks:40	
Total No. of Lectures-Tutorials-Practical (in hours per week):L-6/w			
Unit	Topics	No. of Lectures	
Part I			
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.	15	
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.	15	
III	Correlation: Meaning, Concept, Types & Properties. Methods of Regression: Meaning and Concept. Least squares method, Interpretation of Regression Coefficients.	15	
IV	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-Unweighted &Weighted indices (in brief).Test of Adequacy of Index Number Formulae(in brief).	15	
V	Time Series: Concept, Meaning Components -Determination of Regular, Trend and Seasonal Indices. Elementary Probability Theory. Addition and Multiplication Theorems , Conditional Probability and Concept of Interdependence , Bay's Theorem , Random Variables , Mathematical Expectation , Probability Distribution : Binomial , Poisson and Normal .	15	
VI	Theory of Sampling : Types of Sampling , Small and Large Samples, Sampling Distribution: Distribution of Sample Mean , Central Limit Theorem.	15	
Suggested Continuous Evaluation Methods: Assignment/Test/Quiz(MCQ)/Seminar/Presentations/Research orientation of students.			
Suggested equivalent online: Swayam			

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B.A.- 2nd Year, Sem.- IV
Course I (Theory)

Program/Class: Degree/BA		Year: Second	Semester: Fourth
Subject: Economics			
CourseCode:RA080401T		Course Title: 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		No. of Lectures
I	Money and Value of Money: Money - Meaning, Functions and Classification; Gresham's Law; Monetary Standards -Metallic and Paper Systems of Note Issue. Quantity Theory of Money - Cash Transaction and Cash Balance Approaches; The Keynesian Approach. Fiscal policy: Components, Instruments, Objectives.		15
II	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.		15
III	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 Banks of India; Objectives and Limitations of Monetary Policy with Special Reference to India.		15
IV	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.		15



V	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.	15
VI	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; Fiscal policy: Components, Instruments, Objectives. Budget and Deficits. State Budget- Sources of Revenues and Expenditures. Major Tax	15
Suggested Continuous Evaluation Methods: Assignment/test/Quiz(MCQ)/Seminar/Presentations/Research orientation of students		
Suggested Readings: 1. R. L Bhatia- Public Finance 2. S. P. Gupta- Monetary Economics. 3. M.L Seth- Money , Banking and Public Finance. 4. Equivalent online: Swayam Coursera		







B.A.- 3rd Year, Sem.-V
Course I (Theory)

Programme /Class: Degree/BA	Year: Third	Semester: Fifth
Subject: Economics		
Course Code: RA080501T	Course Title :Economics of 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.PassingMarks:40	
Total No. of Lectures-Tutorials-Practical(in hours per week):P-2/w		
Unit	Topics	No. of Lectures
I	Meaning and Measurement of Economic Growth and Development. Measuring Development and Development Gap, GDP, GNP, Per Capita Income, Factors affecting Economic Growth and Development.	15
II	Concept of Poverty and Inequality, Vicious Circle 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.	15
III	Theory of Demographic Transition, Population as Limits to Growth. The Concept of Inclusive Growth- with Reference to India .Food Security, Education ,Health and Nutrition, Gender and Development. .	15
IV	Development & Underdevelopment: An Overview; The Characteristics and Explanations Of Underdevelopment-., Dualism-Social, Technological, Financial, Organizational, Model of Dual Economy, Lewis, Ranis-Fei.	15
V	Models of Technical Progress, Embodied and Disembodied Technical Progress, Neutral Technical Progress- Hicks, Harrod, Technical Progress Function, Arrow's Learning by Doing Approach to Economic Growth. International Finance and Aid and in The Development of Developing Countries-with special reference to India. World Bank and IMF, FDI & FII, Role of Technology Transfer and Multinational Corporations .	15
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		

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

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B.A.- 3rd Year, Sem.- V
CourseII (Elective)
(Theory)

Programme/Class: Degree/BA		Year: Third	Semester: Fifth
Subject: Economics			
CourseCode:RA080502T		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-5/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.	15	
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.	15	
III	Environmental Valuation Meaning ,Methods and Applications, Market goods and services—theory and practice; measurement methods; cost-benefit analysis of environmental policies and regulations. Sustainable Development: Concepts; measurement; Perspectives from Indian Experience. Social Limits to Growth Model; Green Accounting; Environmental Damages and Its Valuation.	15	
IV	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.	15	

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V	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.	15
Suggested Readings: • Bharucha, Erach : Paryavaran Adhyann, Orient Blackswan. • Bhattacharya, Rabindra Nath (2002): Environmental Economics – An Indian Perspective, Oxford University Press. • Eugene, 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 : Paryavaran Adhyayan, Motilal Banarasisdass Pvt Ltd.		

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B.A.- 3rd Year, Sem.- V
Course II (Elective)
(Theory)

Program/Class: Degree/BA		Year: Third	Semester: Fifth
Subject: Economics			
CourseCode:RA080503T		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		Optional Paper	
Max.Marks:25+75		Min.PassingMarks:40	
Total No. of Lectures-Tutorials-Practical(in hours per week):L-5/w			
Unit	Topics	No .of Lectures	
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. Heckscher-Ohlin Theorem, The Leontief Paradox, Post-Heckscher-Ohlin.	15	
II	Free Trade and Protection-Meaning of Free Trade, Arguments For and Against Free Trade, Meaning of Protection, Arguments for Protection-Economic and Non-Economic Arguments; Protection and Less Developed Countries.	15	
III	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.	15	
IV	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. Terms of Trade and Its Types.	15	
V	Foreign Exchange-Meaning and Instruments, Exchange Rate Determination, Mint Par Parity theory, Purchasing Power Parity Theory, Foreign Exchange Rate Policy- Fixed and Flexible Exchange Rates. International Financial Institutions-IMF,WORLD BANK,ADB; GATT,WTO and India;, UNCTAD; Globalization; FDI.	15	

Suggested Reading :

- 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

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Program/Class: Degree/BA		B.A.- 3 rd Year, Sem.- VI Course I (Theory)	
Subject: Economics		Year: Third	Semester :Sixth
Course Code:RA080601T		Course Title: Indian Economy and 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			
Max.Marks:25+75		Core Compulsory	
Total No. of Lectures-Tutorials-Practical(in hours per week):L-5/w		Min.PassingMarks:40	
Unit	Topics	No .of Lectures	
I	Structure and Features of Indian Economy: Indian Economy as a Developing Economy. Comparative Development of Indian States. 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.	15	
II	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.	15	
III	Planning in India: Objectives and Strategy of Planning; Strategy of Inclusive Growth, Resource mobilization for Development. Service Sector in India – Its Role in GDP.	15	
IV	Economy of U.P.-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. Sectoral growth pattern in Uttar Pradesh; Economic Growth in Uttar Pradesh and Indian Economy: A Comparison of Infrastructural Development of Uttar Pradesh. Agricultural policy and Rural Development.	15	
V	Major Industries in Uttar Pradesh, Pattern of Industrial Development , Industrial Policy, Growth Pattern of Service sector and Its linkages of other sectors of UP. Micro, Small, Medium Enterprises (MSMEs) in Uttar Pradesh. One Product One District (OPOD).	15	

Suggested Readings:

- 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

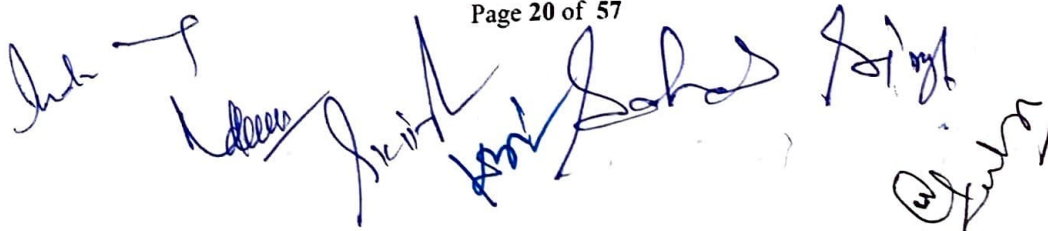
Suggested equivalent online:

Swayam

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B.A.- 3rd Year, Sem.- VI
Course II (Elective) (Theory)

Program/Class: Degree/BA	Year: Third	Semester: Sixth
Subject: Economics		
CourseCode:RA080602T	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 initiatives 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 .		
Credits:5	Optional Paper	
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	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. Land Reforms in India. Models of Agricultural Development: Physiocrats Approach, W. A. Lewis Model, Fei & Ranis Model. Agricultural Production Function, Supply Response, Farm Size, Returns to Scale and Productivity. Farm Size and Productivity Debate; Theoretical And Empirical Findings. Agricultural Price Policy in India.	15
II	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 Short comings).	15
III	Current Issues in Indian Agriculture-Poverty & Food Security in India, Agro-Subsidies in India, Subsidy Vs Public Investment. Export and Imports of Agricultural Commodities, Terms of Trade in Indian Agriculture, WTO and Indian Agriculture-Bali Negotiations.	15
IV	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.. 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	15



V	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	15
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. • Khuro, 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.		

B.A.- 3rd Year, Sem.- VI
Course III (Elective) (Theory)

Program/Class: Degree/BA		Year: Third	Semester: Sixth
Subject : Economics			
CourseCode:RA080603T		Course Title: Elementary 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		Optional Paper	
Max.Marks:25+75		Min.PassingMarks:40	
Total No .of Lectures-Tutorials-Practical(in hours per week):L-5/w			
Unit	Topics	No. of Lectures	
I	Basic Concepts: Variables, constants, and parameters, Sets and set operations, Types of numbers and number line, Functions and their types (linear, quadratic, etc.), Domain, range, and graphs of functions, Simple equations and identities	15	
II	Linear Equations and Applications: Linear equations in one and two variables, Systems of linear equations: solution methods (graphical and algebraic), Cartesian plane and plotting of equations, Concept of slope and intercept, Application of straight lines in economic relationships, Homogeneous functions (basic idea)	15	
III	Algebraic Techniques: Laws of exponents and indices, Algebraic expressions and simplification, Factorization of polynomials, Introduction to theory of numbers: divisibility, primes, Progressions: arithmetic and geometric, Compound and continuous growth rates	15	
IV	Mathematical Representation in Economics: Role of mathematical methods in economics, Economic interpretation of equations and graphs, Concept of equilibrium using simple algebra, Basic use of tables and graphs for Economic data representation. Basics of Calculus: Rules of Differentiation of a Function: Maxima and Minima.	15	
V	Matrix and Determinants: Various types of Matrices, Determinants, Inverse of a Matrix,Crammer's Rule.	15	

1. Suggested Readings:

2. 1 Agarwal, D.R. (2009): Mathematics for Economics, Vrinda Publications, Delhi. Livernois, John.,
3. Rees, Ray., & Hoy, Michael (2012) : Mathematics for Economics , PHI Learning.
4. 2. Agarwal, D.R. "Prarambhik Ganitiya Arthshastra (Hindi), Vrinda Publications, Delhi.
5. Allen, R.G.D (2008) : Mathematical Analysis for Economics , AITBS.
6. Bhardwaj, R.S (2006): Mathematics for Economics and Business, Excel Books.
7. Chiang, A.C & Wainwright, Kevin (2013) : Fundamental Methods of Mathematical Economics"
8. McGraw Hill Publication.
9. Dowling, Edward.T (2005): Schaum's Easy Outline of Introduction to Mathematical Economics , Tata
10. McGraw Hill Education.
11. Madnani , G M K : Mathematics for Economics. Sultan Chand & Sons
12. Mishra, J.P. "Ganiteeya Arthshastra", Pratiyogita Sahitya.
13. Rosser, Mike (2003) : Basic Mathematics for Economists , Routledge.
14. Seth, M.L., " Arthshastramei Prarambhik Ganit", Laxmi Narayan Publications, Agra.
15. Sharma, J.K (2007): Business Mathematics, Ane Books Pvt. Ltd.
16. 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

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Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fourth	Semester: Seven
Subject: Economics		
Course Code: RA080701T	Course Title: P I – Advanced Microeconomics	
Credits: 4	Core Compulsory	
Max. Marks: -75+25	Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical (in hours per week):		
Unit	Topics	No. of Lectures
I-A	Price Determination in Imperfect Competition-Monopoly-Monopoly Power , Price Discrimination and Dumping , Monopsony and Bilateral Monopoly. Monopolistic Competition- Price and Output Determination in Short Run and Long Run, Selling Costs and Advertising. Classical Oligopoly: Non Collusive Oligopoly Models, Cournot, Bertrand and Chamberlains Model, Kinked Demand Curve Model .Collusive Oligopoly- Models and Price Determination.	22
I-B	Theory Of Distribution-Neo Classical Approach, Marginal Productivity Theory , Determination of Wage In Perfectly and Imperfectly Competitive Markets , Elasticity of Factor Substitution, Technical Progress and Income Distribution. Eulers Product Exhaust Theorem , The Adding- Up Problem , Clark – Wicksteed -walras Product Exhaustion.	
II	Determination of Rent – Ricardian Theory of Rent , Quasi Rent. Theories Interest – Classical, Keynesian and Modern Theory of Interest(IS-LM Model). Profits – Concepts and Theories, Monompoly and profits , Schumpeter's Innovation Theory of Profit.	10
III	General Equilibrium Analysis of Production and Exchange, Exchange and Consumption, General Equilibrium and Perfect Competition, Existence and Uniqueness of Equilibrium. Market Failure – Monopoly as a Cause of Market Failure, External Economies and Dis- Economies.	14
IV	New Welfare Economics-Compensation Principle, Kaldor- Hick's Compensation Criteria, Scitovsky Paradox , Social Welfare Function and Social Choice Theory , Bergson's Social Welfare Function, Grand Utility Possibility Frontier Curve, Theory of Second Best.	14

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Suggested Comprehensive and continuous Internal Evaluation Method (Total Marks-25)
M.C.Q./assignment/presentation/any other activity related to content.

Suggested Reading:

- 1.H. L Ahuja: Advance Economic Theory.
2. Koutsoyiannis , . Modern Microeconomics.

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Program/Class Bachelor Degree with Research and M.A. Economics.		Year: Fourth	Semester: Seven
Subject: Economics			
Course Code: A080702T		Course Title:P-2, Indian Economic Policy-1	
Credits: 4		Core Compulsory	
Max. Marks: -75+25		Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical (in hours per week):			
Unit	Topics		No. of Lectures
I	The Pre – Independence Economic Policies of India. The Economic policy Of India in perspective of Development and Welfare. Monetary Policy – role and objectives in Developing Countries, Instruments of Monetary Policy In India. Monetary Policy of India post 1991- to till date. Inflation and Monetary policy of India.		15
II	Fiscal policy – role and Objectives in Developing Countries. Instruments of Fiscal Policy in India. Fiscal Policy of India post -1999 to till Date. Inflation and Fiscal policy of India. Recent Trends in Fiscal Policies of India.		15
III	Commercial Policy-Objectives of Commercial Policy. India's Foreign Trade Policy. India's Balance of Payment during Plans including Recent Years. Foreign Capital In India. Foreign policy of India-FEMA , FERA.		15
IV	Population , Poverty and Unemployment. Census In India. Main Features of 2011 Census. Poverty Alleviation Programmes , Social Welfare Programmes to Eradicate Economic Inequality, PDS System in India. Housing Development Programmes.		15

Suggested Comprehensive and continuous Evaluation Method (Total Marks-25 Internal)
M.C.Q./assignment/presentation/any other activity
related to content.

Suggested Reading:

1. Misra and Puri- Indian Economy.
2. Dutta and Sundaram- Indian Economy.

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Program/Class: Bachelor Degree with Research and M.A. Economics		Year: Fourth	Semester: Seven
Subject: Economics			
Course Code: RA080703T		Course Title: P-3 Public Finance	
Credits: 4		Core Compulsory	
Max. Marks: -75+25		Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical (in hours per week):			
Unit	Topics		No. of Lectures
I	Meaning and Scope of Public Finance. Dalton and Musgraves Theory of Maximum Social Advantage, Efficiency in Resource Allocation , Provision Of Public , Private and Merit Goods, Market Failure- Imperfections , Decreasing Cost Externalities.		15
II	Public Expenditure-Concepts and Types , Wagner's law of Increasing State Activities, Wiseman- Peacock Hypothesis of Public Expenditure , Structure and Growth of Public Expenditure, Budget – Types and Formulation, Deficits- Budgetary, Fiscal and Primary		10
III	Taxation-Principle of Taxation :Benefit and Ability to Pay Approaches. Buoyancy and Elasticity of Taxation, Direct and Indirect Taxes- Impact , Incidence and Effects of Taxation, Theories of Incidence of Taxation, GST.		15
IV	Public Debt-Sources of Public Debt, Debt Through Created Money, Public Borrowing and Price Level, Burden Of Public Debt, Crowding Out of Public Investment and Activity,, Principles of Debt Management and Repayment Fiscal Policy-Objectives, Full Employment , Price Stability, Economic Growth, Redistribution of Income and Wealth, Fiscal Policy and Automatic Stabilizers, Discretionary Fiscal Policy.		20

Suggested Comprehensive and continuous Evaluation Method (Total Marks-25)
M.C.Q./assignment/presentation/any other activity related to content.

Suggested Reading:

1. H. L Bhatia: Public Finance.
2. Musgrave and Musgrave: Theory and Practice pf Public Finanace.

Program/Class: Bachelor Degree with Research and M.A. Economics		Year: Fourth	Semester: Seven
Subject: Economics			
Course Code: E080704T		Course Title: P4- Research Methodology	
Course Learning Outcomes			
Credits: 5		Core Compulsory	
Max. Marks: -75+25		Min. Passing Marks:	
Total No. of Lectures-Tutorials (in hours per week)			
Unit	Topics		No. of Lectures
I	Basic Concepts of Research- Meaning , Objectives, Types, Approaches and Significance , Criteria of Good Research , Selection and Defining a Research Problem, Scientific Research Methods. Review of the Related Literature and Selection of a Research problem.		15
II	Research Design– Meaning and Types of Research Design , Important Concepts, Dependent And Independent Variables, Extraneous Variables, , Experimental and Non Experimental . Descriptive Research: Nature, Importance and types and steps. Experimental Research: Nature, importance, steps and type of experimental design. Historical research: Nature, importance, types and steps.		15
III	Design Of Sample Survey And Methods of Data Collection- Meaning and Types of Sample Design, Sample Survey vs Census Survey, Sampling and Non-Sampling Errors, Quantitative and Qualitative data, Guidelines for Constructing Questionnaire/ Schedule, Selection of Appropriate Method of Data Collection, Case Study Method.		15
IV	Hypothesis- Concept Sources, Types, Formulating Hypothesis, Characteristics of a Hypothesis. Concept and Technique of Sampling (Probability & Non-Probability sampling).		15

Suggested Comprehensive and continuous Evaluation Method (Total Marks-25)
M.C.Q./assignment/presentation/any other activity related to content.

Suggested Reading:

1. Aggarwal, Y.P. (1998), The Science of Educational Research: A Source Book, Nirmal ,Kurukshetra · Best, john W. and Kahn James V (1995), Research in Education, prentice Hall, New Delhi ·
2. Burns, R.B. (1991), Introduction to research in education , prentice Hall, New Delhi ·

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3. Edward, Allen L (1968), experimental Designs in psychological Research, Holt, Rinehart and Winston, New York
4. Good, C.V. and Douglas, E. Scates (1954), methods in Social Research , McGraw Hill, New York
5. Kerlinger, F.N. (1973), foundation of Behavioral Research, Holt, Rinehart and Winston, New York
6. Koul, Lokesh (1988), Methodology of Educational Research, Vikas, New Delhi
7. McMillan, James H. and Schumacher, S. (1989), research on Education: A Conceptual Introduction, Harper and Collins, New York
8. Mouly, A.J. (1963), the Science of Educational Research, Eurasia, New Delhi
9. Neuman, W.L. (1997), Social Research Methods: Qualitative and Quantitative Approaches, Allyn and Bacon, Boston
10. Travers, R.M.W. (1978), An introduction to educational research, Mcmillan, New York
11. Van Dalen, D.B.(1962), understanding Educational research , McGraw Hill , new York
12. Young, P.V. (1960), Scientific Social Surveys and research, prentice hall, new Delhi.
13. शिक्षा अनुसन्धान : आर० ए० शर्मा, आर० लाल बुक डिपो मेरठ I
14. अनुसन्धान परिचय : पारसनाथ राय. लक्ष्मी नारायण अग्रवाल आगरा I
15. अनुसन्धान संदर्शिका संप्रत्यय कार्यविधि एवं प्राविधि एस० पी० गुप्ता शारदा पुस्तक भवन प्रयागराज I
16. मनोविज्ञान , समाजशास्त्र तथा शिक्षा में शोध विधियां ; अरुण कुमार सिंह , मोतीलाल बनारसी दस नई दिल्ली I
17. व्यावहारिक विज्ञानों में अनुसन्धान विधियाँ, एस० के० मंगल, शुभा मंगल पाई पब्लिकेशन नई दिल्ली I
18. अनुसन्धान विधियां : एच० के० कपिल , एच० पी० भार्गव बुक डिपो हॉउस आगरा I

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Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fourth	Semester: Eight
Subject: Economics		
Course Code:RA080705T	Course Title: P5 - Monetary Economics	
Course Learning Outcomes		
On completion of this course, learners will be able to:		
Credits: 4	Core Compulsory	
Max. Marks: -75+25	Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-20, T-4		
Unit	Topics	No. of Lectures
I	Introduction to the Monetary Economics Money: Concept and measures; Nature and Functions of Money. Measures of money supply in India; RBI's analysis of money supply; Monetary theory: Classical monetary economics, Keynes monetary economics, Contributions of Baumol and Tobin, Friedman's restatement of quantity theory of money, Patinkin's Real balance effect,.	15
II	Indian Financial System Credit and financial system; Structure of financial markets; Indian money market: Call money market, Treasury bill market, Commercial bill market, Repo market, Term money market, Market for certificate of deposits and commercial papers, Money market mutual funds, CLBO, DFHI; Major recommendations of the Chakravarty committee and Narasimham committee I&II; Interest rate reforms: McKinnon-Shaw thesis, Stiglitz-Weiss model; Banking sector reforms in India.	15
III	Monetary policy: Objectives, Intermediate targets, Instruments; Rules versus discretion; Monetary transmission mechanism and targeting; Financial globalisation and impossible trinity; Evolution of Reserve Bank of India; Monetary policy framework in India; Balance sheet of RBI; Monetary fiscal interface in India; Assessment of monetary-credit policy of RBI; Demonetization in India: A critical assessment, Payment and settlement system in India: An overview.	15
IV	Theory of Inflation and Monetary Policy, Phillips Curve and its modifications, Samuelson and Solow. The Natural rate of Unemployment and Stagflation, Adaptive Expectation Approach, Friedman and Phelp.	15

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Suggested Comprehensive and continuous Evaluation Method (Total Marks-25)
Documentation-10 Marks
Presentation-5 Marks
Suggested Readings.

1.S. B. Gupta – Monetary Economics

P-6, RA080706R- Research Project- (Allotment of Topic)

Shah *K. K. Kulkarni* *Shah* *Sahad Singh*
Q. Kulkarni

Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fourth	Semester: Eight
Subject: Economics		
Course Code: RA080801T	Course Title: P1- Advanced Macroeconomic Theory	
Course Learning Outcomes		
On completion of this course, learners will be able to:		
Credits: 4	Core Compulsory	
Max. Marks: -75+25	Min. Passing Marks:	
Total No. of Lectures-Tutorials (in hours per week): L-04.		
Unit	Topics	No. of Lectures
I	Theories of Consumption, - Absolute, Relative , Life Cycle and Permanent Income Hypothesis. Classical and Keynesian Approach of Income and Employment- The Basic Classic Models, Says Law of Market, Interest Rate, Wage and Price Flexibility, Role of QTM, Labour Market and Its Equilibrium. Basic Keynesian Model of Income and Employment, Aggregate Demand – Aggregate Supply and Saving and Investment Approach. Principle of Effective Demand.	15
II	Neo- Classical and Keynesian Synthesis- Neo- Classical and Keynesian Views on Interest, The IS-LM Model, Extension of IS- LM Model with Government Sector, Relative Effectiveness of Monetary and Fiscal Policies, Extension of IS-LM Models, with Labour Market and Flexible Prices.	15
III	Neo – Classical Approach to Demand for Money- Quantity Theory Approach, Fishers Equation, Cambridge Cash Balance, Keynes Liquidity Preference theory of Demand for Money, Baumols and Tobins Modifications on Demand for Money., Friedman's Restatement of QTM, Patinkins Rehabilitation of the QTM.	15

IV	A-Inflation -Meaning and Types; Classical, Keynesian and Monetarist Theories of Inflation- Structural Inflation. Measurement Of Inflation- CPI and WPI. Rational Expectations of John Muth- Impact of Inflation, Policies to Control Inflation. B- Trade Cycles-Types and Features, Theories of Keynes, Kaldor, Schumpeter, Hicks and Samuelson, Control of Business Cycles- relative Efficacy of Monetary and Fiscal Policies.	15
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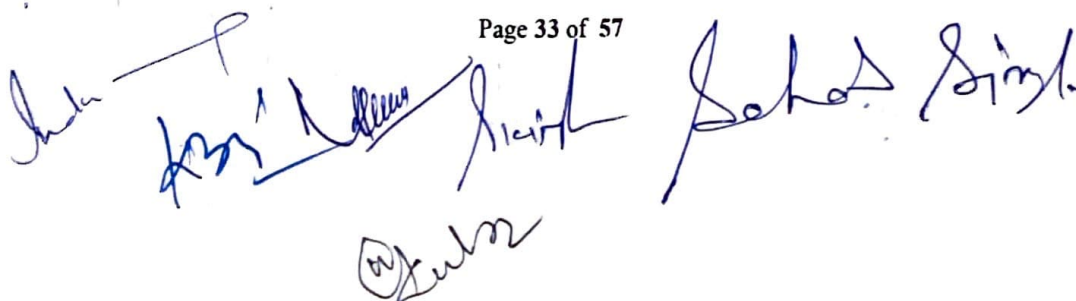
Suggested Comprehensive and Continuous Evaluation Method (Total Marks-25)

Suggested Reading:

Suggested Evaluation shall be done by Internal as well as External Examiners appointed by the university. (Total Marks-100)

Internal-50

External-50



Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fourth	Semester: Eight
Subject: Economics		

Program/Class: Certificate Bachelor Degree with Research and M.A. Economics	Year: Fourth	Semester: Eight
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Subject: Economics		
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Course Code: RA080802T	Course Title: P- 2 , Indian Public Finance
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Course Learning Outcomes

On completion of this course, learners will be able to:

Credits: 4	Core Compulsory
Max. Marks: -75+25	Min. Passing Marks:

Total No. of Lectures-Tutorials-Practical (in hours per week): 04.

Unit	Topics	No. of Lectures
I	Fiscal Federalism in India; Vertical and Horizontal Imbalance; Assignment of Functions and Sources of Revenue of Local, State and Central Governments, Resource Transfer from Govt. of India, Finance Commission's Recommendations, Centre- State Financial Relations. Share of States in GST.	15
II	Public Expenditure in India- Introduction, Classification and Trends, Items of Expenditure of Centre and State Governments, Recent Trends of Public Expenditure in India. Causes Of Increase of Public Expenditure in India.	15
III	Indian Taxation System- Salient Features - Custom and Excise Duties, Personal Income Tax, Corporate Tax, State Government; CGST, Stamps and Registration Fees, Land Revenue. Local Governments- Property Tax, House Tax, And water tax, Tax Reforms, Issues in GST.	15

IV	Government Budgeting; Purpose and Classification, Process of Budget Formulation, Zero Base Budgeting in India, Analysis of Latest Central Budgets. Budget Deficit- Types, Structure and Trends; Fiscal deficits in India. India's Public Debt- Trends and Structure, Debt Position of States, Management of Public Debt in India, Debt Redemption in India. Deficit Financing in India – Need, Impact and Remedy	15
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Suggested Comprehensive and continuous Evaluation Method (Total Marks-25)

Documentation-10 Marks

Presentation-5 Marks

Question-answers (MCQ) Test-10 marks

Suggested Reading:

1. B. Mishra : Public Finance.

2. Tyagi: Public Finance.

Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fourth	Semester: Eight
Subject: Economics		
Course Code: RA080804T	Course Title: P3-Indian Economy (Part Two)	
Course Learning Outcomes		
On completion of this course, learners will be able to:		
	Elective	
Max. Marks: -75+25	Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical (in hours per week):		
Unit	Topics	No. of Lectures
I	Indian Economy- Understanding the Indian Economy, The Colonial Periods, Post Independence Economy, Structure and Features, Planning Process- Objectives, Strategy and Achievements. Indicators of Development – National Income, Per capita Income, HDI, PQLI Indices.	15
II	Poverty and Unemployment in India, Unemployment -Concept, Types, and Measurement in India, Causes and Estimates, Disguised Unemployment, Rural and Urban Migration. Poverty Indices.	15
III	Features Of Indian Agriculture- Land Reforms, Agricultural Growth and Productivity, Cropping Pattern. Agricultural Marketing. MSP, Green Revolution, Food Security. Agricultural Finance, WTO and Indian Agriculture.	15
IV	Industrial Sector- Micro, Small and Medium Enterprise (MSME's). New Industrial Policy, , Industrial Finance, FDI In Indian Agriculture, Tourism and Healthcare. India's Foreign Trade – Imports and Exports. Basic Features of Uttar Pradesh's Economy.	15

Suggested Comprehensive and continuous Evaluation Method (Total Marks-25)
M.C.Q./assignment/presentation/any other activity related to content.

Suggested Reading:

1. Mishra and Puri- Indian Economy.
2. Dutta and Sundaram- Indian Economy.

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Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fourth	Semester: Eighth
Subject: Economics		
Course Code: RA080803T	Course Title: P-4- Statistical Analysis	
Course Learning Outcomes		
Credits: 4	CORE COMPULSORY	
Max. Marks: -75+25	Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical (in hours per week): L04.S		
Unit	Topics	No. of Lectures
I	Statistics – Meaning and Importance, Statistical Process-Investigations, Collection of Data, Classification and Tabulation, Graphic Representation of Data – Line Graph, Bar Diagram, Pictogram, Pie- Diagram, Histogram, Frequency, Polygon.	15
II	Basic Concepts of Sampling, - Random and Non- Random Sampling, Simple Random, Stratified and Non-Stratified Random Sampling,	10
III	Measures of Central Tendency – Mean, Media and Mode., Harmonic and Geometric Mean, Merits and demerits of Measurement of Central Tendency. Measures of Dispersion- Range, Quartiles, quartile deviation, Mean deviation, Standard Deviation, Mean Deviation, Coefficient of Variation, Lorenz Curve.	15
IV	Measures of Skewness – Correlation; Karl Pearson's Coefficient of Correlation, Rank correlation, Simple Linear Regression Analysis, Regression Lines and Regression Coefficients. Index Numbers – Preparation of Simple and Weighted index Numbers , Fisher's Index Numbers, Indian Statistics – CSO, NSSO.	20

Comprehensive and Continuous Evaluation Method (Total Marks-25 Internal.)

Suggested Reading : 1. S. P Gupta : Statistical Methods .

2. Shukla and Sahai : Advance Statistics.

3. K. L Gupta : Advance Statistics.

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Program/Class: Bachelor Degree with Research and M.A. Economics		Year: Fourth	Semester: Eighth
Subject: Economics			
Course Code: RA080805T		Course Title:P-5. Demography	
Course Learning Outcomes			
Credits: 4			
Max. Marks: -75+25		Min. Passing Marks:	
Total No. of Lectures-Tutorials-Tutorials (in hours per week): L-4			
Unit	Topics		No. of Lectures
I	Demography- Meaning, Nature, Scope, Subject Matter and Its Importance. Components of Population Growth and Their Interdependence. Theories Of Population Growth – Malthusian ant Optimum Theories of Population. Theory Of Demographic Transition, Methods of Population Projection and Age Pyramid, Life Table-Meaning and Its Uses.		15
II	Fertility, Mortality, Nuptiality and Migration: Importance of Study of Fertility and Its Measurements- GBR, GFR, TFR, ASFR, SFR, GRR, And NRR. Migration and Urbanization- Concepts and Types, Factors Affecting Migration.		15
III	Population, Economy and Environment Linkages, Population Health, Nutrition, Productivity Nexus. Major Sources of Population and Demographic data. Population Policy in India. Population and Human Development Issues- Cultures, Education and Fertility.		15
IV	Census, Sampling, Vita Registration Methods, NFHS/ SRS and DHS. Index of Human development and Quality of Life. Concept of Manpower, Relationship between Population, Education, Human Resource Development.		15

Comprehensive and Continuous Evaluation Method (Total Marks-25 Internal + 75 External)

Suggested Reading:

1. Roll, E : History of Economic Thought .
2. P.N Ghosh and R. Ghosh : Concise History of Economic Thought , Himalaya Publishing House.
3. D.H Taylor : A History of Economic Thought.

**Semester VIII- RA080806R P-6- Research Project –
(Submission and Evaluation) For the Students of U.G
(Honours with Research) only**

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Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fifth	Semester: Ninth
Subject: Economics		
Course Code -RA080901T	Course Title: P-1-International Economics-I	
Course Learning Outcomes		
Credits: 4	Core Compulsory	
Max. Marks: -75+25	Min. Passing Marks:	
Total No. of Lectures-Tutorials-Tutorials (in hours per week): L -4		
Unit	Topics	No. of Lectures
I	International and Inter- Regional Trade, Meaning, Advantages and Disadvantages and Effects, Basis of International Trade, Trade as Engine of Growth.	10
II	Theories of International Trade- Absolute Cost and Comparative Cost Advantage, Opportunities Cost of Haberler and Comparative Advantage, Reciprocal Demand Theories, Factor Endowments and The Heckscher- Ohlin Theory; Factor Price Equalization Theorem, Stolper Samuelson and Rybczynski Theorem, Leontief Paradox, Taussig Modifications, Theory of Overlapping Demand, Technological Gaps, Product Cycle Models.	20
III	Terms of Trade- Meanings and Types, Uses and Limitations, Measurement of Gains from Trade and Their Distribution, Hypothesis of Secular Deterioration of Terms of Trade, Offer Curve and its Concepts.	15
IV	Meaning and Components of Balance of Payments, Balance of Trade, Equilibrium and Dis -Equilibrium in the BOP, The Process of Adjustment and Systems of Gold Standard, The Elasticity Approach, International Capital Movements, FDI and Port Folio Investment.	15
Comprehensive and continuous Evaluation Method (Total Marks-25)		

Comprehensive and continuous Evaluation Method (Total Marks-25).

Suggested Reading:

1. H. G , Mannur : International Economics.
2. Sodersten , B. O : International Economics .

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Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fifth	Semester: Ninth
Subject: Economics		
Course Code: RA080902T	Course Title: P2- Economics of Growth and Development-I	
Course Learning Outcomes		
Credits: 5	Elective	
Max. Marks: -75+25	Min. Passing Marks:	
Total No. of Lectures-Tutorials (in hours per week): L15		
Unit	Topics	No. of Lectures
I	Economic Growth and Development – Factors Affecting Economic Growth, Capital, Labour, and Technology; Growth Models – Harrod – Domar, Instability and Equilibrium, Neo- Classica Growth Models – Solow and Meade, Mrs. Joan Robinson ‘s Growth Model,	15
II	Concept Of Golden Age and Golden Rule of Accumulation, Absolute and Conditional Convergence, Technological Progress- Embodied and Dis-Embodied Technical Progress, Growth Accounting; Neo – Keynesian Models of Growth, - N- Kaldor, L. Pasinetti; Two Sector _Models of Growth, Models of Endogenous Growth – AK Model, Romer’s Model, Mahalanobis Model.	15
III	Growth and Development: Relationship between Growth and Income Distribution, Income Distribution in Developing Countries , Concept and Measurement of Poverty , Functional Impact of Poverty , Project Appraisal; Social -Cost Benefit Analysis , Shadow Prices , Social Rate of Discount , Project Criterion , Little Mirrlees and UNIDO Approaches- A Comparison	15
IV	Development and Underdevelopment – Perpetuation of Underdevelopment , Poverty – Absolute and Relative, Measuring Development and Development Gap , Per Capita Income , Inequality of Income , HDI and Other Indices of Development and Quality of Life – Food Security , Education , Health and Nutrition, Population Problem Development .	15

Suggested Comprehensive and Continuous Evaluation Method (Total Marks-25)

Suggested Reading: 1. Mishra and Puri ; Development and Planning.

1. Todaro; Growth and Development.
2. A. P. Thirlwal : Growth and Development.

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Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fourth	Semester: Ninth
Subject: Economics		
Course Code: RA080903T	Course Title- P3- Financial Institutions and Markets	
Course Learning Outcomes		
Credits: 4	Compulsory	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical (in hours per week): 4		
Unit	Topics	No. of Lectures
I	Structure Of Financial Systems ; Functions of financial Sector ,Financial System and Economic Development , Financial Intermediation and Financial Intermediaries , Indicators of Financial Development , Regulatory Financial Institutions , RBI- Role and Functions , SEBI- Objectives , Functions and its Performance in The Working of Capital Markets India .	15
II	NBFI's – Definition, Types , Growth and Their Impact on India's Economic Development ; Small savings – Growth and Composition; Provident Funds , Pension Funds , Hire Purchase Finanaces ,Lease Financing , Merchant Banking , Venture Capital Funds	15
III	UTI and Mutual Funds – Organisation and Schemes ; Insurance Companies – Types and Structure; Insurance Regulatory and Development Authority (IRDA)- Objectives, Functions and Performance , Credit Rating Agencies in India – Objectives and Functions	15
IV	Structure and Functions of Financial Markets ; Money Market and its Constituents- Call Money Market , Treasury Bill Market , Commercial Bill Market , Repo Market ,Commercial Paper Market . Capital Market- Government Securities , Corporate securities Markets , Primary and secondary Market for Securities , Discount market , Unregulated Credit Markets Foreign Exchange Market- Nature , Organisation and Participants ; Fixed and Flexible Exchange Rates, Devaluation , and Depreciation , , Markets For Futures – Options and Other Financial Derivatives ; Theories Of Optimum Currency Areas.	15

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Evaluation Method (Total Marks-100, Internal Assessment - 25, Main Exam-75)

Suggested Reading :

1. **Bhole, L.M : Financial Institution and Markets .**
2. **Avadhani V. A : Investment and Securities Markets in India.**
3. **Avadhani, V. A : Financial Economics , Theory and Practice.**
4. **Gupta , S. B : Monetary Economics : Institutions , Theory and Policy.**

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Program/Class: Certificate -Bachelor Degree with Research and MA Economics	Year: Fifth	Semester: Ninth
Subject: Economics		
Course Code: A081004T	Course Title: P4- Advance Statistics	
Course Learning Outcomes		
Credits: 4	Elective	
Max. Marks: -	Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical (in hours per week): -4		
Unit	Topics	No. of Lectures
I	Elementary Probability Theory. Addition and Multiplication Theorems , Conditional Probability and Concept of Interdependence , Bay's Theorem , Random Variables , Mathematical Expectation , Probability Distribution : Binomial , Poisson and Normal .	15
II	Theory of Sampling : Types of Sampling , Small and Large Samples, Sampling Distribution: Distribution of Sample Mean , Central Limit Theorem.	10
III	Estimation- Point and Interval Estimates of Mean , Characteristics of Good Estimator , Small and Large Sample Properties , Multiple Regression (Introductory) , Standard Error of an Estimate.	15
IV	Testing Of Hypothesis : Type I and Type II Errors ;Level of Significance ; Interpretation of P Value , Good ness of Fit , Confidence Intervals and Level of Significance , One tail and Two Tail Tests ; Hypothesis Testing of Means and Variance based on t and Z Tests. Association of Attributes , Definition ,Properties and uses of Chi Square Test , Conditions of Applying Chi Square Test. Analysis Of Variance and F Test ,	20

Suggested Comprehensive and continuous Evaluation Method (Total Internal Marks-25, Theory Exam -75)

Suggested Reading: 1. S. P Gupta : Statistical Methods .
2-Shukla and Sahai : Advance Statistics.
3-K. L Gupta : Advance Statistics.

Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fifth	Semester: Ninth
Subject: Economics		
Course Code: RA080905T	Course Title: P5- Industrial Economics	
Course Learning Outcomes		
Credits: 4	Elective	
Max. Marks: -75+25	Min. Passing Marks: .	
Total No. of Lectures-Tutorials (in hours per week): L-4		
Unit	Topics	No. of Lectures
I	Scope and Methodology of Industrial Economics Market Structure and Behaviour of a Firm ,Concept and Organization of a Firm – Ownership , Control and Objectives of The Firm , Passive and Active Behaviour of The Firm. Productivity ; Efficiency and Capacity Utilisation, Methods of Measuring Efficiency of a Firm , diversification, Integration and Merger.	15
II	Elasticity of Demand and Business Decision- Making .Demand Forecasting , Pricing Procedures- Theoretical and Pricing in Practice ; Investment Decisions ;Financial Statement and Ratio Analysis, Economics of Patents , Adaption and Diffusion of Innovation.	15
III	Theories of Industrial Location – Weber , and Sargent Florence; Factors Affecting Location. Economies of Scale ; Market Structure and Profitability	15
IV	Industrial Finance- - Sources, Nature , Volume and types of Institutional Finance – IDBI,IFCI, SFCs, SIDC, SIDBI , Commercial Banks ,Capital Structure , Separation of Ownership and Control. Financial Statement- Balance Sheet, Profit and Loss Account , Assessment of Financial Soundness	15

Suggested Comprehensive and continuous Evaluation Method (Total Marks-25)

Suggested Reading:

1. R. R. Barthwal : Industrial Economics .

1. Mishra and Puri : Economics of Development and Planning.

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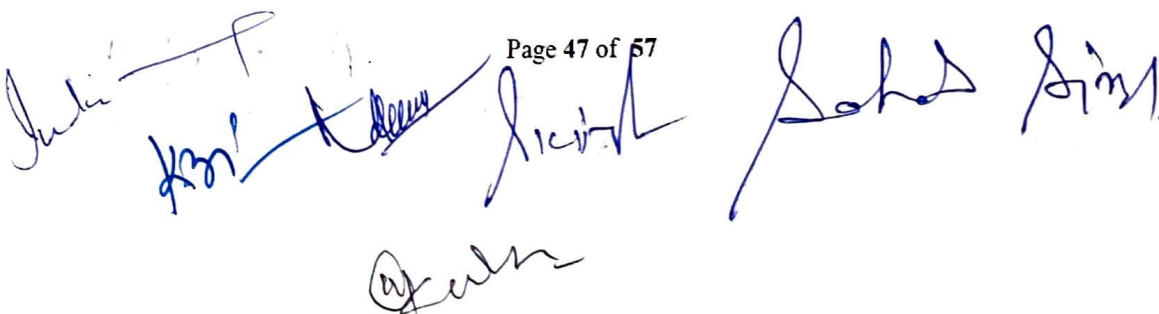
Program/Class: Bachelor Degree with Research and M.A. Economics		Year: Fifth	Semester: Ninth
Subject: Economics			
Course Code: RA080906T		Course Title: P6- Mathematical Economics	
Course Learning Outcomes			
Credits: 4		Elective	
Max. Marks: -75+25		Min. Passing Marks:	
Total No. of Lectures-Tutorials(in hours per week): L-4			
Unit	Topics	No. of Lectures	
I	Concept of Function and Types of Functions , Limit , Continuity and Derivatives ,Rules of Differentiation , Interpretation of revenue , Supply Functions , Cardinal and Ordinal Utility; Ordinal Utility Maximisation; Slutsky Equation ,Compensated Demand Functions, Income , Substitution and Price Effects; Concept of Elasticities , Consumer surplus , Theory of Revealed Preference.	15	
II	Production Function-Homogeneous Non Homogeneous , Properties of Cobb- Douglas and CEs Production Functions, Simple Derivative of Short Run and Long Run Production Functions ,Modern Approach to Theory of Cost , Cost Functions , Producers Equilibrium – Law of Returns and Returns to Scale , Adding Up Theorem , Technical Progress Through Production Function , Production Possibility Curve ,	15	
III	Price Determination in Perfect Competition , Monopoly , Duopoly, Monopolistic and Oligopoly Competition. Price of Factors of Production ;Single Market Equilibrium – Marshallian and Walrasian Equilibrium Conditions , Lagged market Equilibrium.	15	

IV	Game Theory- some Useful Terminology and Useful Concepts, Strategic Form Games , dominant strategy , pure Strategies , Locating a Saddle Point .Mixed Strategies – arithmetic Method and graphic Method , Nash equilibrium , Pareto Optimality and Competitive Equilibrium- Partial Equilibrium Competitive Analysis – The Fundamental welfare Theorems in Partial Equilibrium Context ;Edgeworth Box, pareto optimality Criteria.	15
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Suggested Comprehensive and Continuous Evaluation Method (Total Marks-100- Internal Assessment – 25, Exam - 75)

Suggested Reading

1. Mehta , B. c and GMK Madnani : Mathematics for Economics .
2. Chiang, A.C : Fundamental Methods of Mathematical Economics .
3. Allen , R. G. D : Macro – Economic Theory : a Mathematical Treatment.



Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fifth	Semester: Ninth
Subject: Economics		
Course Code: RA080906T	Course Title: P7- Labour Economics	
Course Learning Outcomes		
On completion of this course, learners will be able to:		
Credits:	Core Compulsory	
Max. Marks: -75+25	Min. Passing Marks:	
Total No. of Lectures-Tutorials (in hours per week): L -4		
Unit	Topics	No. of Lectures
I	Nature and characteristics of Labour Market In India, Demand for Labour in Relation to Size and Pattern of Investment, Supply of Labour in Relation to The Growth of Labour Force, Mobility of Labour, Methods of Recruitment and Placement, Employment Services Organization In India.	15
II	Poverty and Unemployment in India , Unemployment – Concept, Types and Measurements ,Impact of Rationalization , Technological Change, Modern Employment in Organised Private Industry, Labour Employment in Public, Service and Agricultural Sector.	15
III	Theories of Wage Determination- Concept of Minimum Wage, Subsistence and Fare Wages,, Wage Determination in Various Sectors- Rural, Urban , Organized, Unorganized and Formal Sectors, Productivity and Wage Relationship,.	15
IV	Social Security of Labour in Different Sectors -Concept of Social Security and Evaluation, Social Assistance and Social Insurance policies, Child and Female Labour, Globalisation and Labour Markets. Labour Legislation in India- Current Labour Laws.	15

Suggested Comprehensive and Continuous Evaluation Method (Total Marks-25 Internal + 75 Exam)

Suggested Reading:1. Indian Economy- Dutta and Sundaram

2. Labour Economics- R K Mukherjee.

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P-7 RA080908R -RESEARCH PROJECT (Submission and Evaluation)-8 Credit

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Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fifth	Semester: Tenth
Subject: Economics		
Course Code: RA081001T	Course Title: P1- International Economics-II CREDIT-4	
Course Learning Outcomes		
On completion of this course, learners will be able to:		
	Core Compulsory	
Max. Marks: -75+25	Min. Passing Marks:	
Total No. of Lectures-Tutorials- (in hours per week): L-20, T-4		
Unit	Topics	No. of Lectures
I	BOP Adjustment Under Fixed and Flexible Exchange Rates-, Elasticity , Absorption , Monetary and portfolio Balance Approach to BOP Adjustment Mechanism . Role of Expenditure Reducing and Expenditure Switching Policies in Open Economy .	15
II	Tariff's Classification, Measurement and effects of under partial and General Equilibrium, Optimum Tariffs , Retaliation of Tariffs; Quotas – Types and Effects	10
III	Free Trade vs Protections , Dumping , Terms of Trade , Concept , Types , Factor Determining and Importance , Causes of Deterioration In Terms of Trade.	15
IV	World Trade in The 19 th and 20 th Centuries, GATT and trade Rounds , Multilateral Trading Systems and The WTO , - TRIMS, International Trade in Services , UNCTAD, IMF , and World Bank- Functions , Achievements and Failures. Regional Blocks , SAARC, ASEAN and NAFTA .Trade Problems and Trade Policies in India during the last seven Decades ;Recent Changes in Composition and Direction of Trade and Their Implications; Trade Reforms Since 1991;Working and Regulations of MNC's in India. Recent Export and Import Policies of Government of India.	20

Suggested Comprehensive and Continuous Evaluation Method (Total Marks-25 Internal+ 75 External)

Suggested Reading:

1. H. G , Mannur : International Economics.
2. Sodersten , B. O : International Economics .

Program/Class: Certificate- Bachelor Degree with Research and MA Economics		Year: Fifth	Semester: Tenth
Subject: Economics			
Course Code: RA081002T		Course Title: P2- Economics of Growth and Development- II.	
Course Learning Outcomes			
Credits: 4		CORE COMPULSORY	
Max. Marks: -		Min. Passing Marks:	
Total No. of Lectures-Tutorials (in hours per week): L-4			
Unit	Topics	No. of Lectures	
I	Classical Theory of Development -Contributions of Adam Smith, Ricardo ,Malthus , and James Mill , Karl Marks and Development of Capitalistic Economy – Theory of Social Change ,Surplus Value and Profit ,Crisis in Capitalism – Schumpeter and Capitalistic Development , Structural Analysis of Development .	15	
II	Partial Theories of Growth and Development , -Vicious Circle of Poverty , Circular Causation , Unlimited Supply of Labour , BIG Push , Balanced Growth , Unbalanced Growth , Critical Minimum Effort Thesis , Low Level Equilibrium Trap , Dualism- , Technical , Social , Geographical and Financial , Gunar Myrdal's Cumulative Causes Theory ,, Ranis and FEI Model , Rostow and Stages of Growth.	15	
III	Role Of Agriculture in Economic Development ; Efficiency and Productivity in Agriculture , New Technology and Sustainable Agriculture , Globalisation and Agricultural Growth ; Rationale and pattern of Industrialisation in Developing Countries The Choice of Techniques and Appropriate Technology and Employment; Terms of Trade Between agriculture and Industry.	15	
IV	International Trade as Engine of Growth , Static and Dynamic Gains From Trade ; Prebisch , Singer and Myrdal Thesis vs Free Trade; Export Led Growth ; Dual gap Analysis ;Post GATT International Economic Order.	15	

Suggested Comprehensive and continuous Evaluation Method (Total Marks-25)

Suggested Reading:

1. Mishra and Puri ; Development and Planning.
2. Todaro; Growth and Development.
3. A. P. Thirlwal : Growth and Development.

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Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fifth	Semester: Tenth
Subject: Economics		
Course Code-RA081003T	Course Title: P3-Rural Economics	
Course Learning Outcomes		
Credits: 4	Core Compulsory	
Max. Marks: -75+25	Min. Passing Marks:	
Total No. of Lectures-Tutorials-Tutorials (in hours per week-L-4		
Unit	Topics	No. of Lectures
I	Rural Economics: Concepts and Approaches Rural economics: Concept, Scope, Objectives and importance of rural economics; Features of rural economy; Rural-urban linkages; Characteristics of rural economy of India; Size and structure of rural economy; Approaches to rural development; Regional approach, Gandhian approach and local level planning for rural development.	15
II	Rural Development and Basic Problems India's economic growth vs growth of rural economy; Factors affecting rural development; Structural changes in India's rural economy; Problems of rural economy; Poverty, Unemployment, Inequality, Rural indebtedness and farmers suicide; Infrastructure and rural development.	15
III	Strategies for Rural Development and Policies Strategies for rural development: Growth-oriented strategy, Welfare strategy, Responsive strategy, Holistic strategy, Right-based strategy; MGNREGS and rural development, Deen Dayal Upadhyay Grameen Kaushal Yojna and rural development; Diversification as strategy of development.	15
IV	Rural Cottage. Industries- Role and Importance, Role of Jan – Dhan Yojna, Mudra yojana and Rural Development. Role of Co- Operation, Co-Operative Credit Societies, Panchayati Raj and Rural Development, Rural Finance.	15
Comprehensive and continuous Evaluation Method (Total Marks: 100)		

Comprehensive and continuous Evaluation Method (Total Marks-25).

Suggested Reading:

Dandekar V.M. and Rath . N.-Poverty in India, Indian School of Political Economics, Bombay
Sharma Anju- Dynamics of Agriculture Development, Concept Pub, New Delhi
Government of India-Evolution of Community Development Programme in India
Desai, Vasant-Study of Rural Economics, Himalaya Publishing Company, New Delhi.
Krishnamurthy V.T.-Community Development in India
Krishnaswamy D.R.- Fundamentals of Co-operation
Mathur B.S.-Co-operation in India
Parthasarathy-Green Revolution in India

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Jain P.C.-Agricultural Reforms in India Jain S.P.-Indian Rural Economics Vikas, New Delhi Wadhawa C.D.-
Regional Rural Banks R.B.I. Report on SFDA-R.B.I. Mumbai Report on MFDL-R.B.I. Mumbai Maheshwari
S.-Rural Development in India Shakuntala Devi-Rural Credit and Agricultural Development, Scrap & Sons,
New Delhi 1996. Patodiya Mohan S.-Rural Economics for C.A.I.I.B Part-I

Jain P.C. Jain S.P. Wadhawa C.D. Maheshwari S. Shakuntala Devi Patodiya Mohan S.

Program/Class: Certificate		Year: Fifth	Semester: Tenth
Subject: Economics			
Course Code: RA081004T		Course Title- P4- Econometrics	
Course Learning Outcomes			
Credits: 4		Elective	
Max. Marks: -		Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-4			
Unit	Topics		No. of Lectures
I	Basic Econometrics -Nature , Meaning and Scope of Econometrics ; Simple and Linear Regression Model , - Assumptions ,Estimation (Through OLS Approach) , and Properties of OLS Estimators , Gauss – Markov Theorem ; Concepts and Derivation of R2 and Adjusted R2		15
II	Problems in Regression Analysis – Heteroscedasticity; Nature , Test , Consequences and Remedial Measures . Problems of Multicollinearity and Auto- Correlation- Nature , Tests ,Consequences and Remedial Measures. Specification Errors and Errors of Measurement.		15
III	Regression with Qualitative Independent Variables- Dummy Variable Technique- Structural Stability of Regression Models comparing to Regressions , Interaction Effects , Seasonal Analysis , Piecewise Linear Regression , Use of Dummy Variables , Regression With Dummy Dependent Variables; The LPM , Logit , Probit , and Tobit Models.		15
IV	Simultaneous Equation Models – Introduction and Examples , The Simultaneous Equation Bias and Inconsistency of OLS Estimators ; The Identification Problem- Order and Rank Conditions ; Methods of Estimation of Simultaneous Equation System ; Recursive Methods and OLS ; Indirect Least Squares (ILS) , 2SLS , 3SLS and Maximum Likelihood Methods – Applications , Panel data Techniques; Forecasting.		15

Comprehensive and continuous Evaluation Method (Total Marks- 25 Internal)

Suggested Reading :

1. Koutsoyiannis , A : Theory of Econometrics .
2. Gujarati , D. N – Basic Econometrics .
3. Dongherty , C.: Introduction to Econometrics

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Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fifth	Semester: Tenth
Subject: Economics		
Course Code: RA081004T	Course Title: P5- Regional Economics	
Course Learning Outcomes		
Credits: 4	Elective	
Max. Marks: -75+25	Min. Passing Marks:	
Total No. of Lectures-Tutorials (in hours per week): L-4		
Unit	Topics	No. of Lectures
I	Regional Development Concept of region, Region and regional development, Nature and scope of regional economics; Theories of regional development: E.Hoover, G.Myrdal, A.O.Hirschman.	15
II	Methods and Techniques of Regional Planning Regional planning: Components and determinants; Magnitude of regional disparity in India; Regional growth; The export base model and growth as an internal process, Multi-level planning and regional development; Regional planning and sustainable development; Analyzing relationship between regional development and politics.	15
III	Technology and Regional Planning Remote sensing (RS): Concept and tools; Concept and components of geographical information system (GIS); Role and importance of global positioning system (GPS); Information and communication technology (ICT); Application of technologies in regional planning; Technology based integrated system of resource management; Technology based urban planning.	15
IV	Balanced Regional Development- Economic Policies for Developed and Underdeveloped Regions, Infrastructural and Industrial Development.	15

Suggested Comprehensive and continuous Evaluation Method (Total Marks-25)

Suggested Reading:

Readings: Richardson, H.W (1969): Regional Economics, Praeger Publishers, Inc., New York.

Bhat,L.S (1972): Regional Planning in India, Statistical Publishing Society, Calcutta.

R.P.Mishra and R.N. Achyutha (edited): Micro-level Rural Planning; Principles, Methods and Case Studies, Concept Publishing Co. New Delhi. 1990.

Robert J. Stimson, Roger R. Stough Regional Economic Development: Analysis and Practice, (2ndedt. 2006), Springer Publication.

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Chand, M. and V.K.Puri (1983), Regional Planning in India, Allied Publishers, New Delhi.
Hoover, E.M. (1974), An introduction to Regional Economics, Alfred A. Knopf, New York. Isard, W. (1960), Methods Regional Analysis, MIT Press, Cambridge, Mass. Nair, K.R.G. (1982), Regional Experience in a Developing Economy, Wiley-Eastern, New Delhi. Richardson, H.W. (1969), Regional Economics, Weidenfield and Nicolson, London. Brahmananda, P.R. Pachmukhi (Eds.) (2001). Development experience in the Indian economy: Inter-State Perspectives, Bookwell, Delhi.

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Program/Class: Bachelor Degree with Research and M.A. Economics	Year: Fifth	Semester: Tenth
Subject: Economics		
Course Code: RA081006R	Course Title: P- 6, Research Project (Submission and Evaluation)	
Course Learning Outcomes		
On completion of this course, learners will be able to:		
● To understand the process of complete research projects. ● Students will be able to understand the process of research in Economics. ● Students will understand the fundamentals of research process in social sciences.		
Credits: 8	Core Compulsory	
Max. Marks: -50+50	Min. Passing Marks:	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-4		
	Topics	No. of Lectures
	The student will prepare a Research Project under The Supervision of a Teacher on a relevant Topic in The Field of Economics.	60

Suggested Evaluation Method (Total Marks-100, Project-50, viva-voce-50)

Internal – 50 (25+25)

External – 50(25+25)

[Handwritten signatures and marks]