Veer Bahadur Singh Purvanchal University, Jaunpur

Master of Art in Economics

Under Choice Based Credit System (CBCS)
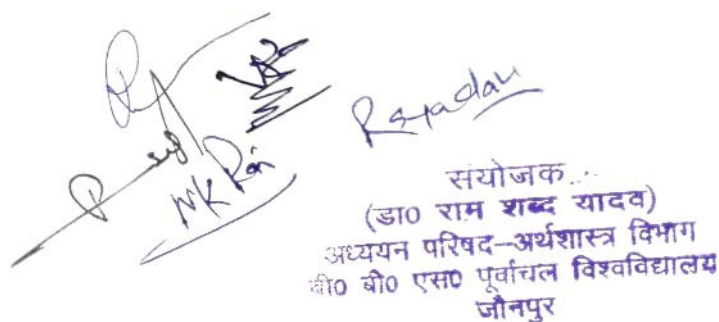
Syllabus Developed by –

S.No.	Name	Designation	Department	College/University
1	Dr. Ram Shabd Yadav	Asso. Prof. Convener of Study Council	Economics	R.A.Y.G.K.P.G. College, Takha, Shahganj, Jaunpur (UP)
2	Prof. R.P. Singh, Retired	Profesor Member-PG	Economics	M.G.Kashi Vidyapeeth Varanasi, (UP) R/o SH.10/30-1-K, Mahesh Nagar Colony, Mahesh Nagar, Shivpur, Varanasi (UP)
3	Prof. M.K. Agrawal	Profesor (HOD) Member-PG	Economics	University of Lucknow, Luckow, (UP)
4	Dr. Pratibha Singh	Asso. Prof. Member-UG	Economics	Bayalsi Mahavidyala, Jalalpur, Jaunpur, (UP)
5	Dr. Nitin Kumar Rai	Asso. Prof. Member-UG	Economics	Swami Sahajanand P.G. College, Gazipur, (UP)
6	Dr. Vijay Kumar Singh	Asso. Prof. Member-UG	Economics	T.D.P.G. College, Jaunpur, (UP)

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M.A. ECONOMICS SYLLABUS
National Education Policy-2020
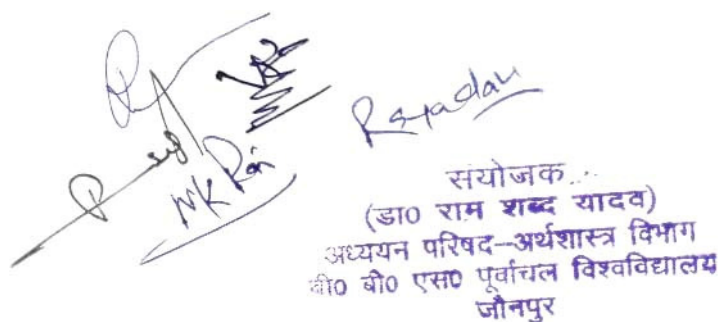## Semester-wise Titles of the Papers in M.A. (Economics)

Year	Sem.	Course Code	Paper Title	Theory/ Practical	Credits
SEMESTER – VII					
4	VII	A080701T	Micro Economic Theory(Compulsory)	Theory	5
4	VII	A080702T	Public Economics (Compulsory)	Theory	5
4	VII	A080703T	History Of Economic Thought (Compulsory)	Theory	5
4	VII	A080704T	Indian Economic Policy (Compulsory)	Theory	5
4	VII	A080705R	Dissertation (Compulsory)	Project	4
SEMESTER – VIII					
4	VIII	A080801T	Macro Economics (Compulsory)	Theory	5
4	VIII	A080802T	Economics Of Growth And Development Compulsory)	Theory	5
4	VIII	A080803R	Dissertation (Compulsory)	Project	4
			Note-Take any **Two (2)** from Optional Paper		
4	VIII	A080804T	Agriculture Economics (Optional)	Theory	5
4	VIII	A080805T	Industrial Economics (Optional)	Theory	5
4	VIII	A080806T	Mathematical Economics (Optional)	Theory	5
4	VIII	A080807T	Computer Application In Economic Analysis (Optional)	Theory	5
SEMESTER – IX					
5	IX	A080901T	Monetary Economics (Compulsory)	Theory	5
5	IX	A080902T	International Economics(Compulsory)	Theory	5
5	IX	A080903R	Dissertation (Compulsory)	Project	4
			Note-Take Any **Two (2)** from Optional Paper		
5	IX	A080904T	Statistics (Optional)	Theory	5
5	IX	A080905T	Environmental Economics (Optional)	Theory	5
5	IX	A080906T	Economic Planning (Optional)	Theory	5
5	IX	A080907T	Econometrics (Optional)	Theory	5
SEMESTER – X					
5	X	A081001R	Master Dissertation (Compulsory)	Project	4
5	X	A081002R	Viva-Voce (Compulsory)	Viva	4
			Note-Take Any **Four (4)** from Optional Paper		
5	X	A081003T	Demography (Optional)	Theory	4
5	X	A081004T	Co-Operation (Optional)	Theory	4
5	X	A081005T	Economics of Infrastructure (Optional)	Theory	4
5	X	A081006T	Research Methodology (Optional)	Theory	4
5	X	A081007T	Quantitative Methods (Optional)	Theory	4
5	X	A081008T	Labour Economics (Optional)	Theory	4
5	X	A081009T	Advance Indian Economy (Optional)	Theory	4
SEMESTER – XI (Ph.D. Course Work)					
6	XI	A081101T	Research Methodology	Theory	4
6	XI	A081102T	Contemporary Economic Issues	Theory	6
6	XI	A081103T	Computer Application In Research	Theory	6

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Veer Bahadur Singh Purvanchal University, Jaunpur
M.A. ECONOMICS
Paper I (Compulsory)

Programme/Class PG/M.A.	Year-Fourth	Semester - VII
Subject-Economics		

Programme/Class PG/M.A.	Year-Fourth	Semester - VII
Subject-Economics		
Course Code - A080701T	Course Title - MICRO ECONOMIC THEORY	

Course outcomes-

- 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 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 decision-making process in different market situations such as perfect competition, monopolistic competition, monopoly and oligopoly markets.
- The students are familiarized with welfare Economics.

Credit-5	Compulsory
Max. Marks – 25+75	Min. Passing Marks-33

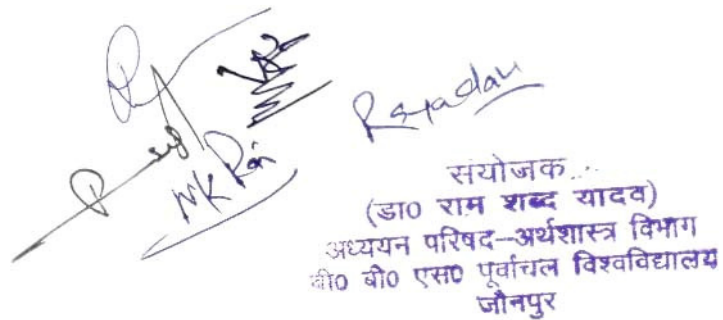| Unit	Topics	No. of Lectures

I	**Demand Analysis:**
	        Elasticities (price, cross, income) of demand-Theoretical aspects and empirical estimation.
	        Theories of Demand indifference curves (income, substitutions and price effects, slut sky theorem, compensated demand curve) and their applications. Revealed preference Theory. Revision of Demand Theory by Hicks.
	        Consumer's surplus-Hick's approach, cobweb theorem.
		18

II	**Theory of Production and cost:** Production function short and long period Law of variable proportions and Returns to scale, Isoquants least cost combination of inputs. Elasticity of substitution, Euter's Theorem, Cobb Douglas production function and its properties. Derivation of cost functions from productions functions.	18
III	**Price and Output Determination:** Price determinations under perfect competition, Monopoly discriminating monopoly, oligopoly (Kinked demand curve, price Leadership, cartels and mergers), monopolistic competition.	18
IV	**Welfare Economics:** Pareto optimal conditions, value judgment. Social welfare function.	21

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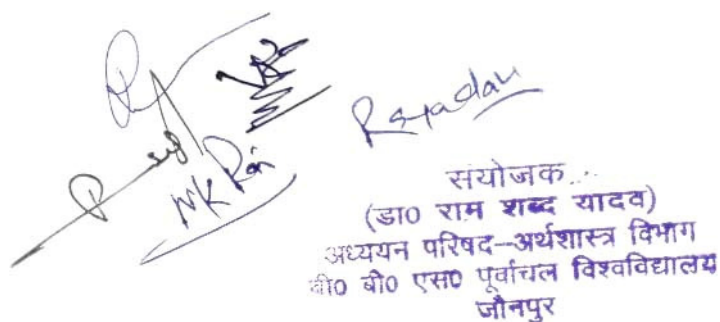| | | Theory of second best-Arrow's impossibility Theorem. | |

Books Recommended:

1. Hicks - Value and Capital
2. Koutsoyiannis, A - Modern Micro Economics.
3. Sen. A - Microeconomics: Theory and Application
4. Keynes, J.M. - General Theory of Employment Interest and Money.
5. Baumol W.J. - Economic Theory and operations Analysis.
6. Green HAG - Consumer Theory.
7. Da Costa, GC - Production, Prices and Distribution.
8. Broadway, R.W. and N. Bruce - Welfare Economics
9. Hisshleifer, 3 and A. Glazer - Price Theory and Applications.
10. Ackley, G. - Macro Economics: Theory and Policy
11. Shapiro, E - Macro Economic Analysis
12. Mueller, M.G. - Readings in Macro Economics
13. आहूजा एच0एल0 — उच्चतर आर्थिक सिद्धांत
14. झिंगन एम0एल0 — उच्च आर्थिक सिद्धांत
15. मिश्र–जय प्रकाश — उच्च आर्थिक सिद्धांत

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M.A. ECONOMICS
Paper II (Compulsory)

Programme/Class PG/M.A.	Year-Fourth	Semester - VII
Subject-Economics	
Course Code - A080702T	Course Title - PUBLIC ECONOMICS	

Course outcomes-
- Understand the sources of finance both public and private.
- Demonstrate the role of government to correct market failures and possible advantage of public flowing.
- Understand the possible burden, beef 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.
- Objective of the course is to provide the students with a thorough knowledge of the economics functions of Government on economy.

Credit-5	Compulsory
Max. Marks - 25+75	Min. Passing Marks-33

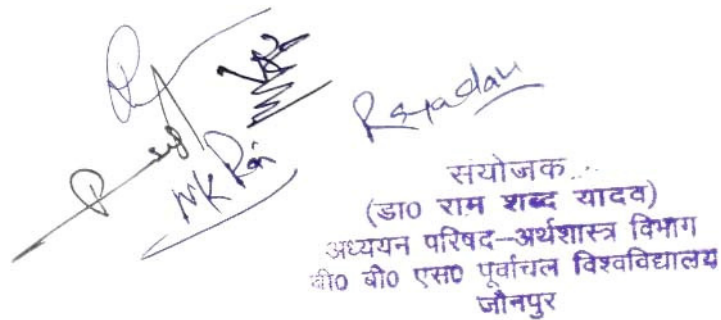| Unit	Topics	No. of Lectures
I	**Public Expenditure :** Nature, objective and importance, Wagner's law of increasing state activities: Wiesmann Peacock Hypothesis, Pure theory of Public expenditure. Structure and growth of public expenditure. Merit Criteria for public investment, social cost benefit analysis Project evaluation, Estimation of cost, discount rate Effects of public expenditure. Structure and classification of budget zero base budgeting.	18
II	**Taxation:** Objective, principles, classification of Taxes Theory of incidence, Benefit and ability to pay approach, Theory of optimal taxation, Taxable capacity The problem of double taxation Effects of taxation.	18
III	**Public Debt:** Classical view of public debt, compensatory aspect of debt policy, Burden of public debt, sources of public debt, principles of debt. debt management and repayment Effects of Public borrowing. **Fiscal Policy:** Objectives of fiscal policy-Full employment anti-inflation, economic growth, redistribution of income and wealth, interdependence of fiscal and monetary policies, tools of fiscal policy, Fiscal policy for stabilization, balanced budget multiplier.	18
IV	**Fiscal Federalism:** Theory of federal finance, Fiscal federation in India, vertical and horizontal unbalance Assignment of function and source of revenue,	21

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finance commission, Resource transfer from union to states-criteria for transfer of resources: central-state financial relations in India state and local finance in India.

Books Recommended:

1. Taylor, P.E.   -   The Economics of Public Finance
2. Mehta, J.K.   -   Public Finance
3. Musgrave, R.A.   -   The Theory of Public Finance
4. Mysgrave, R.A. and PB Musgrave   -   Public Finance in Theory and Practice
5. At kinson, A.B. and TE. Siglitz   -   Lecturer Lectures on Public Economics
6. Aure bach, A.J. and M. Feldsleri   -   Hand Book of Public Economics, Vol. I
7. Jha, R.   -   Modern Public Economic
1. Houghton, I.M.   -   The Public Finance Selected Readings
2. Chelliah, R.J.   -   Fiscal Policy in under developed countries.
3. Bhargava, R.N.   -   Indian Public Finances.
4. Lakdawala, D.T.   -   Union State Financial Relations
5. Mundle, S.   -   Public Finance Policy, Issues for India
6. मिश्र, जे0पी0   -   लोकवित्त
7. शर्मा, प्रेम प्रकाश   -   सार्वजनिक वित्त के सिद्धान्त
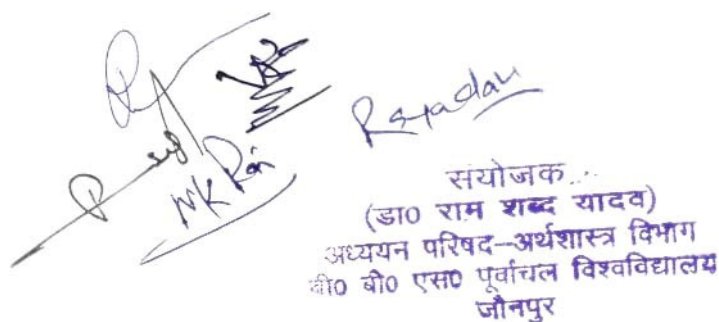8. एण्डले, सुंदरम्   -   लोक अर्थशास्त्र

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M.A. ECONOMICS
Paper III (Compulsory)

Programme/Class PG/M.A.	Year-Fourth	Semester - VII
Subject-Economics		
Course Code - A080703T	Course Title - HISTORY OF ECONOMIC THOUGHT	

Course outcomes-

- To learn and discuss, at an advanced, 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 macro economic debate between the neo-classical and the Keynesian school.

Credit-5	Compulsory
Max. Marks - 25+75	Min. Passing Marks-33

Unit	Topics	No. of Lectures
I	**Mercantilism and Physiocracy** **Classical Political Economists -** Adam Smith, David Ricardo, Malthus, Say and J.S. Mill with life Introduction and Theory.	18
II	**The Socialist Reaction –** The utopians, Sismondi, St. Simon, Robert Own, Charles Fourier, Scientific u Socialism-contribution of Karl Marx. **Nationalist Critic -** List, The Historical school, Institutionalists and marginalize a (Von Thunen, Jevons, Menger, Walras, Wieser, Bohm-Bawerk, Gossen and J.B. Clark).	18
III	**Neo Classical Economists -** Marshall, Welfare Economist Pigou and Pareto, General Equilibrium-Walras Mathematical School, Austrian School, New Economics - J.M. Keynes, Economics thought in 20th Century (USA) Irving Fisher, J.A. Schumpeter, Ragner Nurkse, 1.R. Hicks	18
IV	**Indian Economic Thought,** Kautilya. Dada Bhat Naoroji, Mahadeu Goving Ranade, 1K Mehta, Mahatma Gandhi.	21

Books Recommended:

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1. Enc Roll   -   History of Economic Thought
2. Gide and Rist   -   History of Economic Doctrines
3. JA Schumpeter   -   History of Economic Analysis
4. Haney L.H.   -   History of Economic thought
5. Joan Robinson   -   An Essay on Marxian Economics
6. Klien   -   The keynesian Revolution
7. KT. Shah   -   Ancient Foundations of Economics in India
8. एरिक रोल (अनु0)   -   आर्थिक विचारों का इतिहास
9. हजेला तिलक नारायण -   आर्थिक विचारों का इतिहास
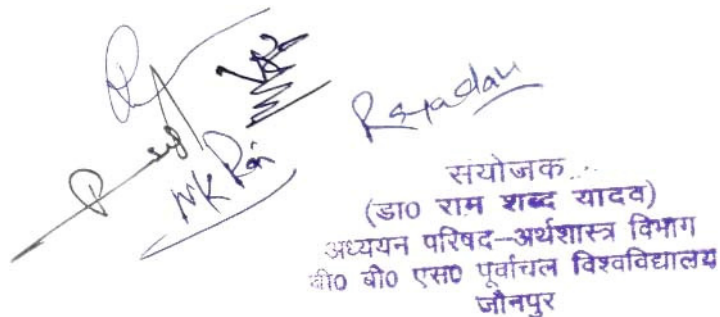10. गुप्त, शिवनारायण   -   आर्थिक चिंतन का इतिहास

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M.A. ECONOMICS
Paper IV (Compulsory)

Programme/Class PG/M.A.	Year-Fourth	Semester - VII
Subject-Economics		
Course Code - A080704T	Course Title - INDIAN ECONOMIC POLICY	
Course outcomes- • The students shall be familiar with the agricultural sector, the industrial sector, public finance, money banking and prices economic reforms.		
Credit-5	Compulsory	
Max. Marks - 25+75	Min. Passing Marks-33	

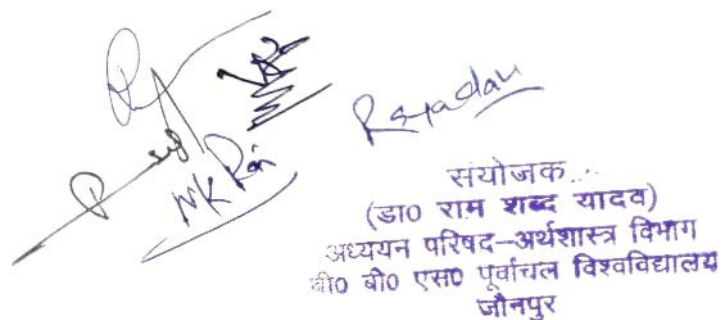| Unit	Topics	No. of Lectures
I	**The Agricultural Sector-** Institutional Structure- land reform in India, Technological change in agriculture pricing of agricultural inputs and output. Terms of trade between agriculture and industry, Agricultural finance policy Agricultural Marketing and Warehousing, Issues in food security Policies for sustainable agriculture.	18
II	**The industrial Sector**- Industrial Policy: Public Sector enterprises and their performance Problem of sick units in India; Privatization and disinvestment debut Growth and pattern of industrialization: Small-scale sector. Productive in sector, Exit Policy issues in labour market reforms, Approaches for employment generation.	18
III	**Public Finances** Fiscal federalism Centre state finances relation Finances of central government, Finances of state governments, Parallel economy: Problems relating to fiscal policy, Fiscal sector reforms in India. **Money, Banking and Prices** Analysis of price behaviour in India, Financial sector reforms, Interest rate policy. Review of monetary policy of RBI Money and capital markets, Working of SEBI in India.	18
IV	**Economic Reforms** Rationale of internal and external reforms; Globalization of Indian economy, W.T.O. and its impact on the different sectors of the economy, Need for and issues in good governance; Issues in competition and safety nets in Indian economy.	21

Books Recommended:

Ahluwalia, LJ. and IMD. Little (Eds.) (1999), India's Economic Reforms and Development (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.
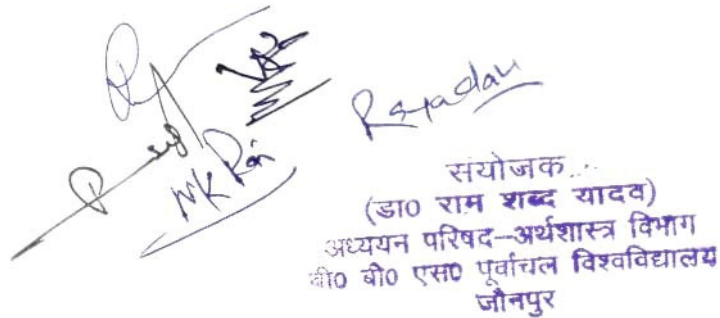
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Bardhan, PK. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.

Bawa, R.S. and P.S. Raikhy (Ed.) (1997), Structural Changes in Indian Economy Guru Nanak Dev University Press, Amritsar.

Brahmananda, P.R. and VR Panchmukhi (Eds.) (2001) Development Experience in the Indian Economy: Inter-State Perspectives. Bookwell, Delhi.

Chakravarty, S. (1987) Development Planning The bid Expertise Oxford University Press, New Delhi.

Dantwala, M.L. (1996), Dilemma of Growth The India Experience Sage Publications New Delhi.

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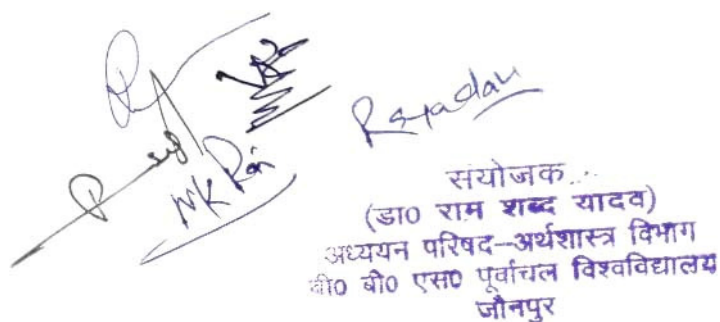जौनपुर

M.A. ECONOMICS
Paper V (Compulsory)

Programme/Class PG/M.A.	Year-Fourth	Semester - VII
Subject-Economics		
Course Code - A080705R	Course Title – DISSERTATION	

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

Credit-4	Compulsory
Max. Marks – 50	Min. Passing Marks-17

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.	60

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M.A. ECONOMICS
Paper I (Compulsory)

Programme/Class PG/M.A.	Year-Fourth	Semester - VIII
	Subject-Economics	
Course Code - A080801T	Course Title - MACRO ECONOMICS	

Course 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.

Credit-5	Compulsory
Max. Marks - 25+75	Min. Passing Marks-33

Unit	Topics	No. of Lectures
I	**Macro Economics** Meaning and significance, Macroeconomic Development: An Overview, Inflation, Unemployment, output and growth, measures of national income and related concepts, methods of measuring national income Macroeconomic fluctuations depending of GDP, characteristics of macroeconomic fluctuations: Persistence and Coherence: Macroeconomic framework interdependence among different sectors and circular flow of income.	18
II	**Theories of Employment** Classical theory of employment as a Barter and Monetary Framework Neo Classical theory of employment. relevance of classical theory and Keynes criticism Keynes theory of employment, policies to curtail unemployment in Keynes theory.	18
III	**Neo-classical and Keynesian Approaches to Macro-Economics** One sector Neo-Classical Model, Simple Keynesian model, Economic implication of these models & essential differences between the two. Two sector IS-LM model: Both Neo-classical & Keynesian versions.	18
IV	Role and relative effectiveness of fiscal and monetary policy. IS-LM model in an open economy, case of small and large economies. Effects of change in monetary and fiscal policy on income and exchange rate. A Comparison of IS LM model in closed and open economies.	21

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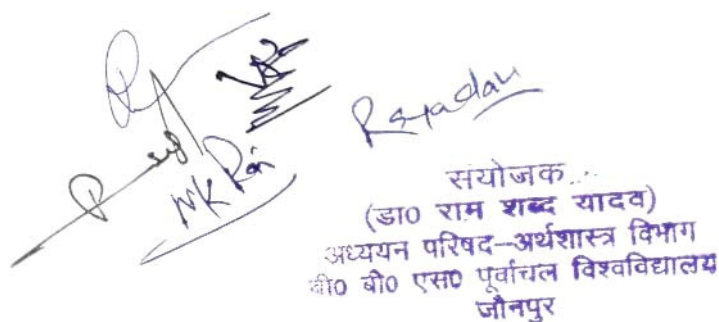वी0 बी0 एस0 पूर्वांचल विश्वविद्यालय
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1. Abel and Bernanke. Macroeconomics, Pearson Education.
2. Blanchard and Johnson, Macroeconomics, Pearson.
3. David King, An Introduction to National Income Accounting, Edward Arnold.
4. Dombusch, Fischer, Startz, Macroeconomics, McGraw-Hill.
5. G Ackley, Macroeconomics: Theory and Policy, MacMillan.
6. N. Gregory Mankiw-Macroeconomics, Macmillan Worth Publishers.
7. Richard T.Froyen, Macroeconomics, Pearson.
8. Roggles and Ruggles, National Accounting and Economic Policy, Edward Elgar.
9. Soumen Sikdar, Principles of Macroeconomics, OUP

Rajadav

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M.A. ECONOMICS
Paper II (Compulsory)

Programme/Class PG/M.A.	Year-Fourth	Semester - VIII
Subject-Economics		
Course Code - A080802T	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.

Credit-5	Compulsory
Max. Marks - 25+75	Min. Passing Marks-33

Unit	Topics	No. of Lectures
I	**Economic growth and development** Factors affecting economic growth, obstacles to growth in underdeveloped economy, vicious circles. Methods to measure economic growth, Growth models Harrod and Domar, Neoclassical Model solo, Mrs. Joan Robinson's growth model. Samuelson, Hicks and Mahala-nobis.	18
II	**Theories of Development** Classical Theory of development Contributions of Adam Smith, Ricardo, Malthus and JS Mile, Karl Marks and development of capitalistic economy Theory of social change Surplus value and profit. Crisis in capitalism, schuropeter's Theory of development Rostow's Theory of stages of growth.	18
III	**Approaches to Development** Partial Theories of growth and development, vicious circle of poverty, unlimited supply of labour, Big Push, Balance growth and unbalanced growth. Critical Minimum effort theory, low income equilibrium trap - Ranis and Fes Model.	18
IV	**Sectoral Aspects of Development** Role of agriculture in economic development, Efficiency and	21

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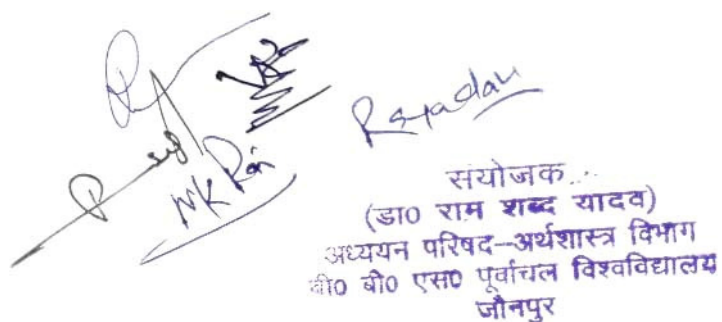| | productivity in A agriculture, New technology and sustainable agriculture, Globalization and agricultural growth Rationale and pattern of industrialization in developing countries, choice of techniques and appropriate technology and employment Efficiency of small scale vs large scale production. | |

Books Recommended:

Kas S.   : Modern Economic Growth

Agrawal, A.N. and SP Singh : Economics of underdevelopment

Beng Higgins   : Economic Development

Adelman, I.   : Theories of Economic Growth and Development

Ghatak S.   : As Introduction to Development Economics.

Hogendom, J.   : Economic Development

Todaro, M.P.   : Economic Development

Thirwal, A.P.   : Growth and Development

गुप्ता एस0 एन0   : विकास का अर्थशास्त्र एवं नियोजन

झिंगन, एम0एल0   : विकास का अर्थशास्त्र एवं नियोजन

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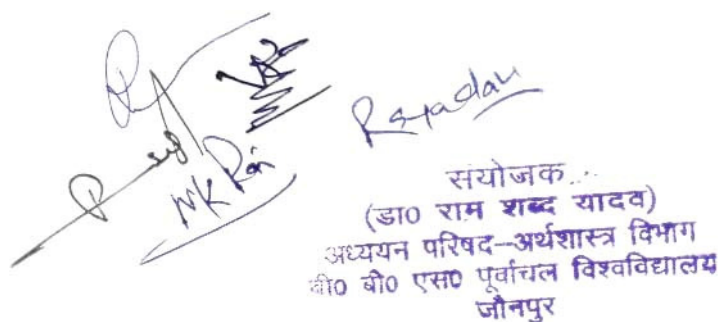जौनपुर

M.A. ECONOMICS
Paper III (Compulsory)

Programme/Class PG/M.A.	Year-Fourth	Semester - VIII
Subject-Economics		
Course Code - A080803R	Course Title – DISSERTATION	

Course outcomes-

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

Credit-4	Compulsory
Max. Marks – 50	Min. Passing Marks-17

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.	60

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M.A. ECONOMICS
Paper IV (Optional)

Programme/Class PG/M.A.	Year-Fourth	Semester - VIII
Subject-Economics	
Course Code - A080804T	Course Title - AGRICULTURE ECONOMICS	

Course outcomes-
- 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 in case of Indian Economy.
- Students should be familiar with land reforms, land policy and agricultural prices.

Credit-5	Optional
Max. Marks - 25+75	Min. Passing Marks-33

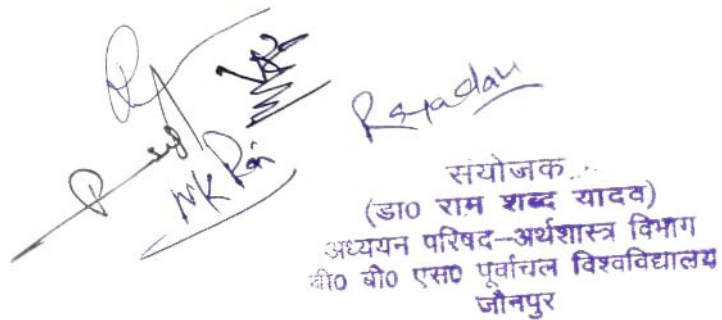| Unit	Topics	No. of Lectures
I	**Agriculture and Economic Development-** Nature and scope of Agricultural and rural economics. Difference between agricultural economics and industrial economics. Traditional agriculture and its modernization, problems of agriculture in developing countries. Role of agriculture in economic development. Interdependence between agriculture and industry-some empirical evidence, Models of interaction between agriculture and rest of the economy Levis model, Nelson Model, Lesbenstein, Ranis-Fei Model Cobweb Model.	18
II	**Agricultural Production and Productivity**- Agricultural production-Resources use and efficiency, Production function analysis in agriculture, Economics of farm size, returns to scale in agriculture, Agricultural productivity in developing countries.	18
III	**Land Reforms and Land Policy -** Economics of land reforms, Land reforms and economic development, Land reforms measures and performance, Technological reforms Problems of marginal and small farmers. **Rural Finance** Saving and capital formation in agriculture, characteristics and sources of rural credit-Institution and non institutional. Reorganization of rural credit-cooperatives, commercial Banks, Regional rural banks, role of NABARD	18
IV	**Agricultural prices-**	21

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| | Agricultural Marketing in India, Objectives of agricultural price policy, price stabilization measures Agricultural price policy in India. **Agricultural Growth in India-** Recent trends in agricultural growth in India, Agricultural productivity and cropping pattern. Strategy of agricultural Development and technological progress. Mechanization of India agriculture in India. | |

Books Recommended:

1. Bilgrami, SAR   -   Agricultural Economics
2. Rudra, A.   -   Indian Agricultural Economics, Myths and Reality
3. Chaudhary, P   -   Readings in A India Agricultural Development
4. Son RN   -   Leading ISSUES in Agricultural Economics.
5. Dantwala, M.L.   -   Indian Agricultural Development since Independence
6. Gulati, a and T. Kelly -   Trade liberalization and Indian agriculture
7. मिश्र, जे0पी0   -   कृषि अर्थशास्त्र

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M.A. ECONOMICS
Paper V (Optional)

Programme/Class PG/M.A.	Year-Fourth	Semester - VIII
Subject-Economics		
Course Code - A080805T	Course Title - INDUSTRIAL ECONOMICS	

Course outcomes-
- The course provides a foundation for the study of theoretical models of industrial.
- The students should be familiar with market structure.
- The students should be familiar with industrial Finance and his utility.

Credit-5	Optional	
Max. Marks - 25+75	Min. Passing Marks-33	

Unit	Topics	No. of Lectures
I	**Framework and Problems of Industrial Economics** Concept and organization of a firm ownership, control and objectives of the firm: Passive and active behaviour of the firm.	18
II	**Market Structure-** Sellers concentration, Product differentiation, Entry conditions, economies of scale; Market structure and profitability: Market structure and innovation. Theories of industrial location - Wober and Sargent Florence, Factors affecting location.	18
III	**Market Conduct-** Product pricing - Theories and evidence, Investment expenditure Methods of evaluating investment expenditure. Theories and empirical evidence on Mergers and acquisitions (M & As) and diversification.	18
IV	**Industrial Finance-** Owned, External and other components of India: Role, nature, volume and types of institutional finance IDBI, IFCI, SFCS, SIDC. commercial banks, etc., Financial statement Balance sheet, Profit and loss account, assessment of financial soundness, ratio analysis.	21

Books Recommended:

Ahluwalia, L.J. (1985), Industrial Growth in India, Oxford University Press, New Delhi

Barthwal, R.R. (1985), Industrial Economics, Wiley Eastern Ltd., New Delhi.

Cherunilam, F. (1994), Industrial Economics Indian Perspective (3rd Edition), himalaya Publishing house, Mumbai.

Desai, B. (1999), Industrial Economy in India (3rd Edition). Himalaya Publishing House, Mumbai.

Divine. PJ. and RM. Jones et al. (1976). An Introduction to Industrial Economics, George Alien and Unwin Ltd, London.

Government of India, Economic Survey (Annual)

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Hay, D: and D.J. Morris (1979). Industrial Economics, Theory and Evidence, Oxford University Press, New Delhi

Kuchhal, S.C. (1980), Industrial Economy of India (5th Edition), Chaitanya Publishing House, Allahabad.

Reserve Bank of India. Report on Currency and Finance (Annual), Singh, A. and A.N. Sadhu (1988), Industrial Economics, Himalaya Publishing House, Bombai.

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Programme/Class PG/M.A.	Year-Fourth	Semester - VIII
	Subject-Economics	
Course Code - A080806T	Course Title - MATHEMATICAL ECONOMICS	

Course outcomes-
• The students shall be familiar with theory of consumer behaviors, theory of production, price determination in various markets, market equilibrium.

Credit-5	Optional
Max. Marks - 25+75	Min. Passing Marks-33

Unit	Topics	No. of Lectures
I	**Theory of Consumer Behaviour** Cardinal and ordinal utility: Ordinal Utility maximization, Slut sky equation, compensated demand Functions, income, substitution, and price effects: Concept of elasticities generalizations to variable case Separable and additive utility functions, homogeneous and homothetic utility functions; constant elasticity of substitution (CES) and transcendental logarithmic utility functions, Indirect utility functions duality theorem, consumers surplus: Theory of revealed preference and index numbers, Linear expenditure systems; Treatment of demand for durable goods; Empirical demand functions, Consumer behaviour under risk and uncertainty.	18
II	**Theory of Production** Production function homogeneous and non-homogeneous: Properties of Cobb-Douglas production function, CES; VES and trans log production function, Simple derivation of short and long run cost functions; Modern approach to theory of costs, Cost function; Producer's equilibrium-Laws of return and returns to scale, Constrained optimization of a producer; Generalization to variable case; Input demand functions: Adding up theorem; Technical progress through production function; Analysis of joint profit maximization and multi product firm: Production Possibility curve, Empirical uses of production function analysis.	18
III	**Price Determination in Various Markets** Price determination in perfect competition, monopoly, monopolistic competition, duopoly, oligopoly and monopoly, Pricing of factors of production, Bilateral monopoly.	18
IV	**Market Equilibrium** Single market equilibrium Marshallian and Walrasian equillbrlum conditions. Lagged market equilibrium. Muln-market equilibrium	21

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General equilibrium systems of Walras and Dabreu: Conditions of stability of equilibrium.	

Books Recommended

Allen, R.G.D. (1976). Mathematical Economics London.

Arrow, KJ, and M. Intrillligator (Eds) (1982). Handbook of Mathematical Economics. Volumes I, II and III, North Holland, Amsterdam.
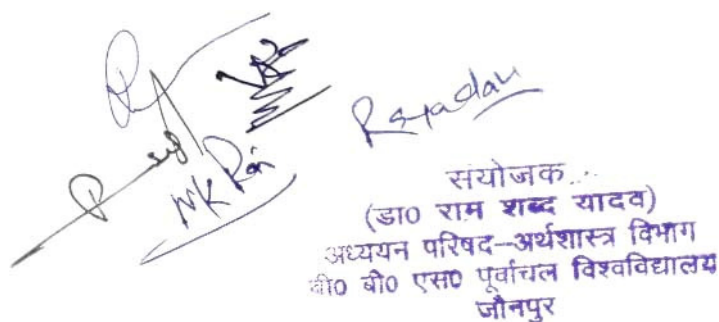
Henderson, J.M. and R.E. Quandt (1980), Microeconomic Theory A Mathematical Approach. McGraw Hill, New Delhi

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M.A. ECONOMICS
Paper VII (Optional)

Programme/Class PG/M.A.	Year-Fourth	Semester - VIII
Subject-Economics		
Course Code - A080807T	Course Title - COMPUTER APPLICATION IN ECONOMIC ANALYSIS	

Course outcomes-

- This course will develop an interest among students regarding use of computer in Economic. The usage of statistical tools, software and preparation of data files will make the student industry ready. On satisfying the requirements of this course, students will be able to critically evaluate economic problems of developing countries.

Credit-5	Optional
Max. Marks - 25+75	Min. Passing Marks-33

Unit	Topics	No. of Lectures
I	**Introduction to Computers and Peripherals:** Basic components of computer CPU, Input-output devices, keyboard, mouse and scanner, video display, printers and plotters, data storage and retrieval, hard disk, floppy disk and CD ROM; Types of computers and their applications, Computer networking and resource sharing, hardware, software and firmware, examples and techniques in programming languages like C. C, Visual, Basic and Jawa.	18
II	**Data Processing, Techniques and Algorithms:** Concept of data, record and file. Types of data and data structures, data analysis; File handing and operations like opening, appending and cascading, closing and attribute control; Data storage and retrieval; Data operations; Algorithms like sorting, merging, joining and bifurcation: Database concepts and operation on database; DBMS and RDBMS.	18
III	**Statistical Processing Techniques and Methods:** Series, group, tables, graphs and objects, Time and frequency series, regression methods and techniques; Regression analysis, Data validation, Trends and cycle city forecasting System modeling and description System equation. Specification: Error and correction strategies, Statistical modeling and descriptive statistics, Distribution functions, Regression statistics.	18
IV	**IT Application to Finance:** On line banking ATM's Electronic stock exchange. Electronic wading: Data sharing and decimation Electronic transaction: Document delivery; Authentication and validation transaction processing. IT Application to Commerce:	21

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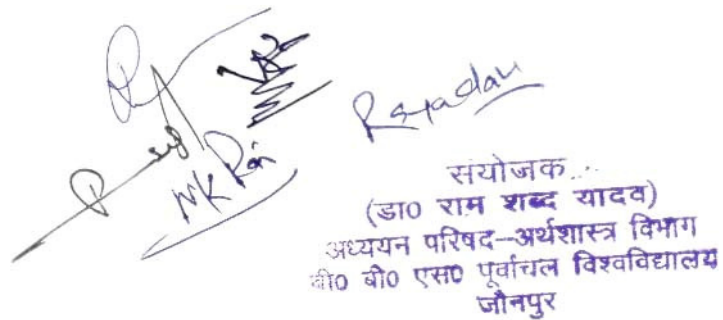वी0 बी0 एस0 पूर्वांचल विश्वविद्यालय
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| | Electronic trading and marketing: On line shopping and malls, B2B, B2C, C2B and G2B models and their application, Document and transaction security and digital signature, Integrated transaction on mobile platforms. | |

Books Recommended:

Rajasekaran, S. (1986), Numerical Methods in Science and Engineering A.H. Wheeler, Allahabad

Sanders, D.H. (1988), Computers Today, McGraw Hill (3rd Edition), New York

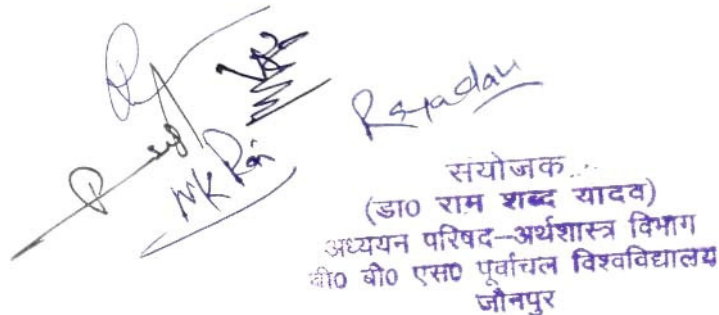Sinha, P.K. (1992), Computer Fundamentals, BPB Publications, New Delhi

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M.A. ECONOMICS
Paper I (Compulsory)

Programme/Class PG/M.A.	Year-Fifth	Semester - IX
Subject-Economics		
Course Code - A080901T	Course Title - MONETARY ECONOMICS	

Course outcomes-
- The students should be familiar Monetary theory, Quantity theory of money, monetary institutions. and monetary policy, International monetary Economics, monetary policy in India.

Credit-5	Compulsory
Max. Marks - 25+75	Min. Passing Marks-33

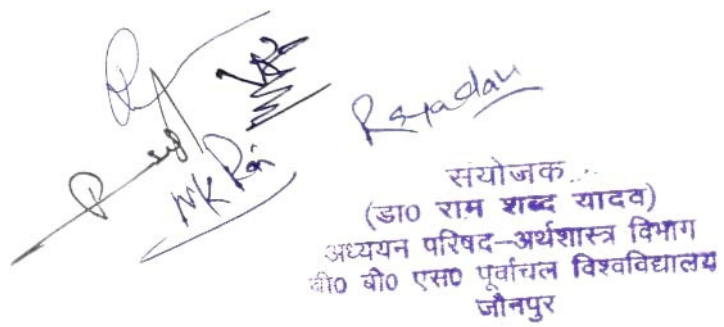| Unit	Topics	No. of Lectures
I	Monetary theory Significance of money monetary and real Analysis Value of money and its measurement Pre-keynesian monetary theory The quantity theory of Money, Wickesell's approach, The Fundamental Equation's of the Treatise Money, Keynesian monetary theory Patinkin's and Friedman's contribution Inflation and economic growth. The trade cycle.	18
II	Monetary Institutions and monetary policy, credit agencies and their functions Commercial Banking Central bank and its operations Objectives and tools of Monetary policy, Monetary policy and economic Stabilization. Monetary policy and economic growth.	18
III	International monetary Economics Balance of payments Theories of exchange rate determination. The equilibrium rate of exchange International currency experience.	18
IV	Monetary policy in India. Working of the Reserve Bank of India. Factors affecting monetary situations and monetary policy since 1935. Monetary policy in the planned Economy of India.	21

Book Recommended:

1. Keynes, J.M.   :   Treatise on Money (Vols. I & II)
2. Keynes, J.M.   :   General Theory of Employment, Interest and Money
3. Haim, G.N.   :   Monetary Theory.
4. Kurihara, K   :   Monetary Theory and Public Policy
5. De Cock, M.H.   :   Central Banking
6. Basu, S.K.   :   Reserve Bank of India and Monetary Management
7. Sethi, J.D.   :   Problems of Monetary Policy in an Under Developed Countries
8. Hanse, B.   :   A Study in the Theory of Inflation
9. Mance, A.H.   :   Monetary Theory and Fiscal Policy
10. Hansen, A. H.   :   A Guide to Keynes

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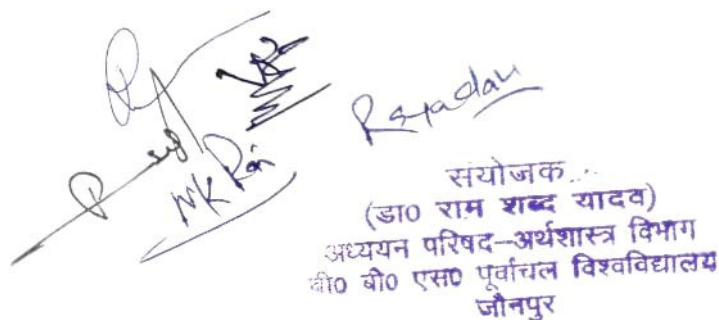
11. 12 Dillard, D.   :   The Economics of JM. Keynes

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M.A. ECONOMICS
Paper II (Compulsory)

Programme/Class PG/M.A.	Year-Fifth	Semester - IX
	Subject-Economics	
Course Code - A080902T	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 analyze the importance and relevance of these international organizations.

Credit-5	Compulsory
Max. Marks - 25+75	Min. Passing Marks-33

Unit	Topics	No. of Lectures
I	Trade Theory: Classical the (Ricardo and Mill) Neo-classical Theories (Marshall and Haberler) and the general Equilibrium theory (ohlin), H. theroem, factor equalization theorem. The Foreign Exchange Rate Balance of payments and the purchasing power parity theory Fixed and freely fluctuating rates of exchange. Terms of trade and gains from trade.	18
II	Balance of Payments : Conditions for equilibrium. Types of disequilibrium and methods of adjustment. Commercial Policy : Free trade and protection. Bilateral and Multilateral agreements : most favoured nation clause. Tariffs and quotas, Dumping exchange control.	18
III	International Institutions : International liquidity and LMF International Monetary reforms, Secular trends in terms of trade of developing countries Export instability and stabilization of commodity prices. G.A.T.T. Movements of International Capital, Private and public International aid for economic growth, I.B.R.D. and its affiliates Asian Development Bank Foreign trade in India : Recent history and present position.	18
IV	Commodity composition : Value and direction. Export Promotion and import substitution in recent years. India's trade agreements, State trading.	21

Books Recommended
1. Ellsworth, P.T. : International Economics

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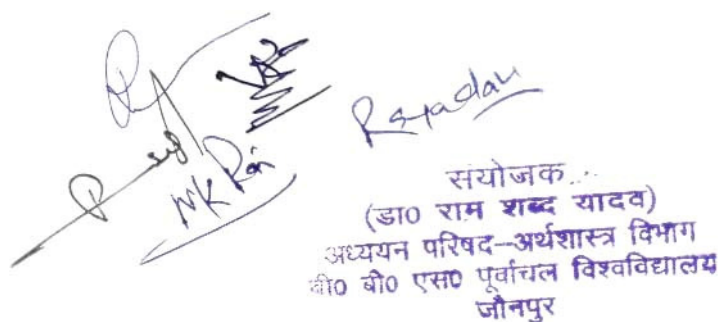जौनपुर

2. Harrod, R.   : International Economics
3. Mead, J.E.   : The Theory of International Economic Policy
4. Morsh, D.B.   : Inter Regional and International Trade
5. Viner, J.   : International Trade and Economic Development
6. A.E.R.   : Reading in the Theory of International Trade
7. Kindleberger, CP   : International Economics
8. Marshall, A.   : The Pure Theory of Foreign Trade, Journal of Industry and Trade
9. Reserve Bank of India: Annual Report on Currency and Finance
10. Allen, W.R. and Allen, CL: Foreign Trade and Finance

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M.A. ECONOMICS
Paper III (Compulsory)

Programme/Class PG/M.A.	Year-Fifth	Semester - IX
	Subject-Economics	
Course Code - A080903R	Course Title – DISSERTATION	

Course outcomes-

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

Credit-4	Compulsory
Max. Marks – 50	Min. Passing Marks-17

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.	60

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M.A. ECONOMICS
Paper IV (Optional)

Programme/Class PG/M.A.	Year-Fifth	Semester - IX
Subject-Economics		

Programme/Class PG/M.A.	Year-Fifth	Semester - IX

Subject-Economics		
Course Code - A080904T	Course Title - STATISTICS	

Course outcomes-
- 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 measure of central tendency.
- The students become familiar with skewness correlation and regression.
- 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-a-vis given real life situation.

Credit-5	Optional
Max. Marks - 25+75	Min. Passing Marks-33

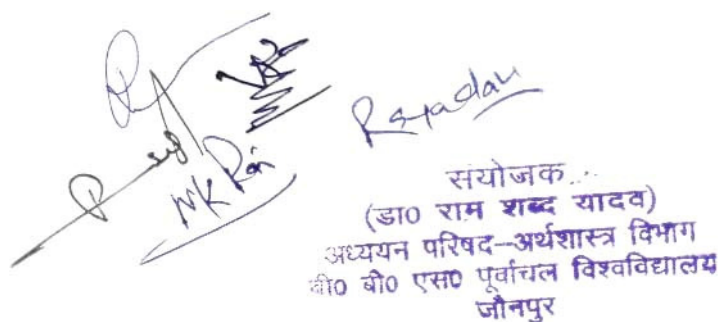| Unit	Topics	No. of Lectures
I	**Measures of Central Tendency-** Mean, Median and Mode, Measures of dispersion-Standard Deviation, shepherd's correction for grouping Mean deviation Co efficient of variation.	18
II	**Skewness-** Measures of skewness. Limits of the measures of skewness, Bowley's Coefficient of skewness, Coefficients of skewness based on moments. Kurtosis	18
III	**Correlation and Regression-** Meaning, assumptions and limitations of simple correlation and regression analysis. Karl Pearson's coefficient of linear correlation, spearman's Rank Correlations Partial and Multiple correlation regression Equation, coefficient of Regression, Method of Least squares and the lines of R. regressions standard Error of Estimate.	18
IV	**Association of Attributes-** Independence, Measurement of intensity of association, Coefficient of association. Partial associations, Association in contingency tables, Pearson's coefficients of mean square contingency, Tschuprow's coefficient, complete independence in contingency tables. **Index Number-** Concept, price relative, quantity relative, value relative, Laspeyer's Paasche's and Fisher's ideal index number Family budget Method, problems in the construction and limitations of Index numbers. Tests for ideal index number.	21

Books Recommended:

1. Elhane, DN.   -   Fundamentals Statistics
2. Bowley, A.C.   -   Elements of Statistics
3. Gupta S.C. and V.K. Kapoor   -Fundamentals of Applied Statistics
4. Speigal, M.R.   -   Theory and Problems of Statistics.
5. Croxton and Cowten   -   Applied General Statistics
6. शुक्ला एवं सहाय   -   सांख्यिकी के सिद्धांत
7. एस0पी0 सिंह   -   सांख्यिकी सिद्धांत एवं व्यवहार
8. एलहंस   -   सांख्यिकी के सिद्धांत
9. नागर कैलाशनाथ   -   सांख्यिकी के सिद्धांत

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M.A. ECONOMICS
Paper V (Optional)

Programme/Class PG/M.A.	Year-Fifth	Semester - IX
Subject-Economics		
Course Code - A080905T	Course Title - ENVIRONMENTAL ECONOMICS	

Course outcomes-
* Students will come to know about the relevance of environmental economics and how market allocate goods & how sometimes market fail to allocate environmental resources optimally and they will come to know how sustainable development of the economy can be attained.

Credit-5	Optional
Max. Marks - 25+75	Min. Passing Marks-33

Unit	Topics	No. of Lectures
I	**Welfare Economics, Social Sector and Environment** Pareto optimality and competitive equilibrium; Fundamental theorems of welfare economics: Externalities and market Inefficiency. externalities as missing markets, property rights and externalities, non-convexities and externalities; Pareto optimal provision of public goods-Lindahl's equilibrtum, preference revelation problem and impure and mixed public goods, common property resources.	18
II	**The Theory of Environmental Policy** Environmental externalities Pigouvian taxes and subsidies marketable pollution permits and mixed Instruments (the charges and standards approach), Coase's bargaining solution and collective action Informal regulation and the new model of pollution control, Monitoring and enforcements, of environmental regulation, Environmental institution and grass root movements, Global environmental externalities and climatic change - Tradable pollution permits and international carbon tax. Trade and environment in WTO regime.	18
III	**Economics of Natural Resource Management and Sustainable Development -** Theories of optimal use of exhaustible and renewable resource Environmental and development trade off and the concept of sustainable development, Integrated environmental and economic accounting and the measurement of environmentally corrected GDP; Macroeconomic policies and environment.	18
IV	**Environmental and Natural Resource Problems in India** Mechanism for environment regulation in India, Environmental laws and their implementation, Policy instruments for controlling water and air pollution and forestry policy. People's participation in the	21

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| | management of common and forest land. The institution of joint forest management and the joint protected area management, Social forestry rationale and benefits. | |

Books Recommended:

Baumol, WJ and WE Oates (1988). The Theory of Environmental Policy (2nd Edition), Cambridge University Press cambridge.

Berman, P. (Ed.) (1995), Health Sector Reform in Developing Countries Making Health Development Sustainable, Boston. Harvard Series on population and International Health.

Blaug, M (1972), Introduction to Economic of Education Penguin, London,

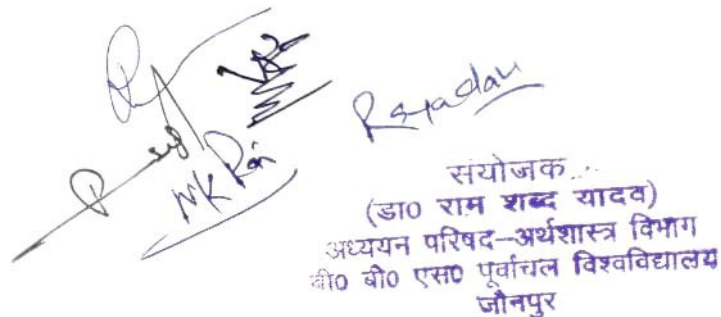Bromely, D W. (Ed.) (1995) Handbook of Environmental Economics, Blackwell, London.

Cohn, E. and T. Gaske (1989), Economics of Education, Progamon Press, London.

Fisher, A.C. (1981), Resource and Environmental Economics Cambridge University Prase, Cambridge.

Hanley, N. IF Shogern and B. While (1997), Environmental Economies in Theory and Practice, Macmillan.

Hussen, A.M. (1999), Principles of Environmental Economics Routledge. London

Jeroen, CJM. van den Bergh (1999), Handbook of Environmental and Resource Economics. Edward Elgar Publishing Ltd., U.K.
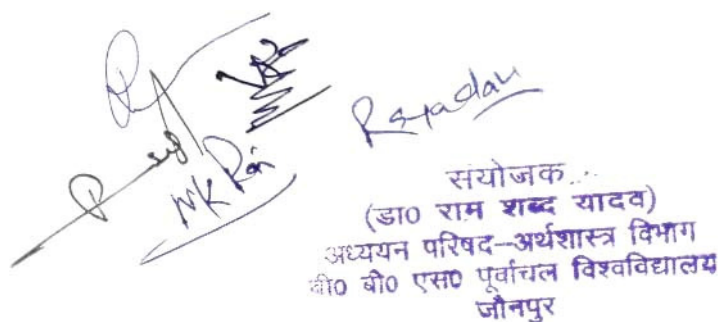
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M.A. ECONOMICS
Paper VI (Optional)

Programme/Class PG/M.A.	Year-Fifth	Semester - IX
Subject-Economics	
Course Code - A080906T	Course Title - ECONOMIC PLANNING	

Course outcomes-
- The students should be familiar with concept of economic planning, allocation of resources in a planned and mixed economy, models in Indian Planning, deficit financing, Technological process progress, investment, criteria. It is very useful for students.

Credit-5	Optional
Max. Marks – 25+75	Min. Passing Marks-33

Unit	Topics	No. of Lectures
I	**Concept of Economic Planning-** Concept of Economic planning kinds of Economic planning structural functional Socialist and capitalist planning Physical and financial planning, An elementary study of theories of regional planning. Regional and National planning. Perspective planning. Pre requisites of planning in under developed countries, Freedom under planning Problem of allocation of resources in a planned and mixed Economy.	18
II	Models in Indian Planning. Foreign Aid and Economic Development. Deficit Financing and its role in planned development, Capital output radio and its place in planning. Technological Progress, Choice of Techniques and planned development.	18
III	Arithmetic of Planning: The rate of growth, Financial and physical Balances, Investment criteria, Capital output ratio, it has already been mentioned earlier, fixation of Targets and Determination of Instruments.	18
IV	A Short History of Economic planning in India. The Economic and Social objections of Indian plans. Poverty eradication, Re-distribution of wealth and income. Population control, sell Reliance, Approach to employment, critical evaluation of planned development in India.	21

Books Recommended:

Lewis, W.A.   : Principles of Economic Planning.
Durbin, E.FM.   : Problem of Economic Planning.
Seymon, or, F Harris : Economic Planning.
Meaden JF   : Planning and Price Mechanism.

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Dobb, M.H.	: Soviet Economic Development Since 1917
Nurke, R.	: Problems of Capital Formation in Underdeveloped Countries
Mason, E.S.	: Economic Planning in Underdeveloped Areas.
Lange and Taylor	: On the Economic Theory of Socialism.
Maurice Dobb	: Capitalism Development and Planning.
Gyan Chand	: Socialist Transformation of the Indian Economy.
Gadgil, D.R.	: Planning and Economic Policy in India.
Gyengar, Kesava	: Fifteen years of Democratic Planning (Vols I and II) Vakil, C.N. and Brahmanand, P.R. Planning in Expanding Economy

Sharma and Varshaneya : Vikas Ka Arthsastsvam Niyojan.
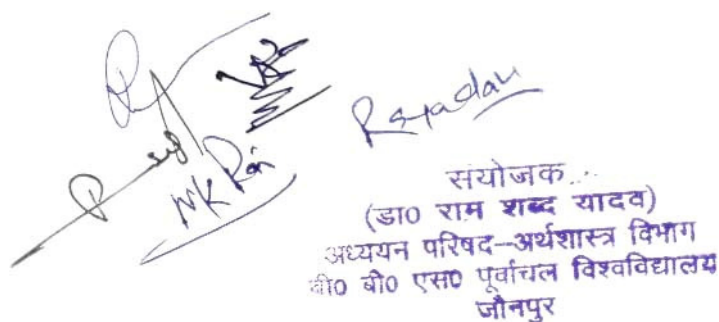
Sharma and Varshaneya : Bhart Me Arthik Niyojan.

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Programme/Class PG/M.A.	Year-Fifth	Semester - IX
	Subject-Economics	
Course Code - A080907T	Course Title - ECONOMETRICS	
Course outcomes- • The students should be familiar with the Basic Econometrics knowledge, Regressions with Qualitative independent variables, Dynamic Econometrics model time series Analysis.		
Credit-5	Optional	
Max. Marks – 25+75	Min. Passing Marks-33	

Unit	Topics	No. of Lectures
I	**Basic Econometrics** Nature meaning and scope of econometrics, Simple and general linear regression model Assumptions. Estimation (through OLS. approach) and properties of estimators Gauss Markov theorem, Concepts and derivation of R2 and adjusted R2, Concept and analysis of variance approach and its application in regression analysis; Estimation of non-linear equations- parabolic, exponential, geometric. hyperbolic, modified exponential, Gomertz and logistic functions.	18
II	**Regressions with Qualitative Independent Variables** Dummy variable technique-Testing 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-Applications.	18
III	**Dynamic Econometric Model** Autoregressive and distributed lag models Koyak model, Partial adjustment model, adaptive expectations; Instrumental variables, Problem of auto correlation Application: Almon approach to distributed lag mode is, Error correlation mechanism, Causality test, Granger test and Sim's test.	18
IV	**Time Series Analysis** Stationary, unit roots, co-integration spurious regression, Dickey Fuller test, Engle-Granger test, Random walk model. Forecasting with ARIMA modeling: Box-Jenkins methodology: Vector auto regression: Problems with VAR modeling Applications Time varying parameters and Kalman filter.	21

Books Recommended:

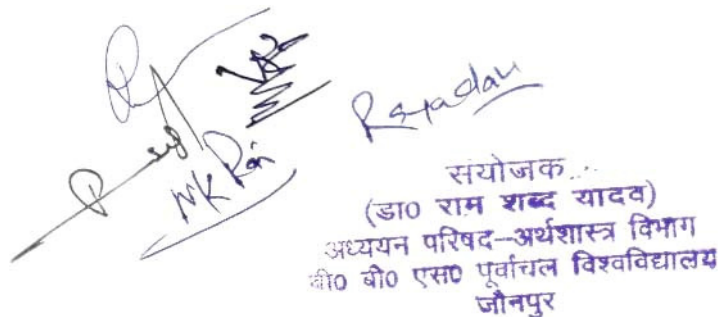Amemiya, T. (1985), Advanced Econometrics, Harvard University Press, Cambridge. Mass.

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Baltagi, B.H. (1998), Econometrics, Springar, New York.

Dongherty. C (1992). Introduction to Econometrics, Oxford University Press, New York.

Goldberger, AS. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass.

Gujarati, D.N. (1995), Basic Econometrics (2nd Edition), McGraw Hill, New Delhi.

Hill R.C., E.G. William and G.G. Judge (1997), Undergraduate Econometrics, Wiley, New York.

Kennedy P. (1998), A Guide to Econometrics (4th Edition), MIT Press, New York.

Kmenta, J. (1997), Elements of Econometrics (Reprint Edition)

University of Michign Press, New York.

Kotlysan, A (1977). Theory of Econometrics (2nd ed.). The Macmillas Press Led, London.

Krishna XL (Ed.) (1997), Econometric Applications in India, Oxford University Press. New Delhi

Maddala, GS. (Ed) (1993) Econometrics Methods and Application (2 Vola) Aldershot U K

Theit, H. (1981). Introduction to Econometrics. Prentice Hall of India, New Delhi

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M.A. ECONOMICS
Paper I (Compulsory)

Programme/Class PG/M.A.	Year-Fifth	Semester - X
Subject-Economics		
Course Code - A081001R	Course Title – MASTER DISSERTATION	

Course outcomes-

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

Credit-4	Compulsory
Max. Marks – 50	Min. Passing Marks-17

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.	60

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M.A. ECONOMICS
Paper II (Compulsory)

Programme/Class PG/M.A.	Year-Fifth	Semester - X
Subject-Economics		
Course Code - A081002R	Course Title – VIVA-VOCE	

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

Credit-4	Compulsory
Max. Marks - 100	Min. Passing Marks-33

Unit	Topics	No. of Lectures

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M.A. ECONOMICS
Paper III (Optional)

Programme/Class PG/M.A.	Year-Fifth	Semester - X
Subject-Economics	
Course Code - A081003T		Course Title - DEMOGRAPHY

Course outcomes-
- The main objective of this paper is to make the students aware of the importance of population in economic development and the various theories that explain the growth of population in a country. The paper also enlightens the students on the quantitative and the qualitative aspects and characteristics of the population through various demographic techniques.

Credit-4	Optional
Max. Marks – 25+75	Min. Passing Marks-33

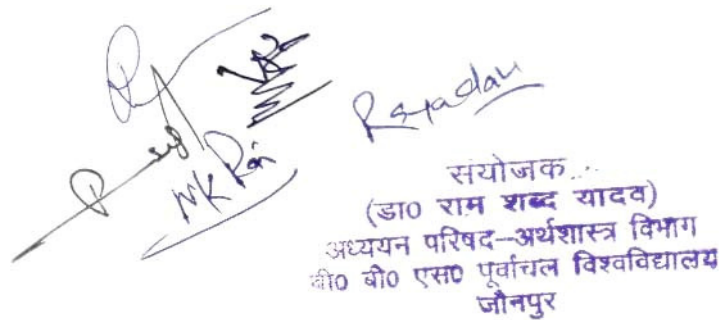| Unit	Topics	No. of Lectures
I	**Population and Development** Meaning and scope of demography, components of population gowth and inter-dependence, Measures of Population change, structure distribution and sources of population data. Theories of population Malthus, optimum and Demographic Transition theory, Population and Development.	15
II	**Structure of Population** Population trends in the 20th century, population explosion threatened real, distant or imminent international aspects of population growth and distribution, pattern of age and sex structure, determinants age and sex structure, Demographic effects of age and sex structure, age pyramids and projections. Child-woman ratio.	15
III	**Fertility, Nuptiality and Mortality** Importance of study of fertility-TFR, GRR. NRR Levels and of fertility, factors affecting fertility socioeconomic factors, economic statuss, health, education, nutrition, caste, religion, race, rural urban and status of husband and wife. Nuptiality-concept and analysis of marital status, age at marriage, cohort method. Trends in age at marriage. Mortality-Death rates, crude and age specific, mortality at birth and infant mortality rates, levels and trends in more and less developed countries; sex and age pattern of mortality, Factors for decline in mortality in recent past, Life Table construction and uses. Methods of population projection.	15
IV	**Migration and Urbanization** Concepts and types Temporary, internal and international;	15

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	International migration and its effect on population growth and pattern. factors affecting migration. urbanization growth and distribution of rural-urban population in developed and developing countries.	

Books Recommended:

Agrawal, S.N.   :   India's Population problem.
Bogue, D.I.   :   Principles of Demography
Chaubey P.K.   :   Population policy in India.
Gulati. S.C.   :   Fertility in India.
Srinivasan, K. :   :   Basic Demographic Techniques and Applications
Ashish Bose   :   Pattern Population change in India
Cox, P.R.   :   Demography
Barclay   :   Techniques of Population Analysis
Coale and Hoover   :   population growth and Economic Development is Low Income Countries.
मिश्र, जे0पी0   :   जनांकिकी

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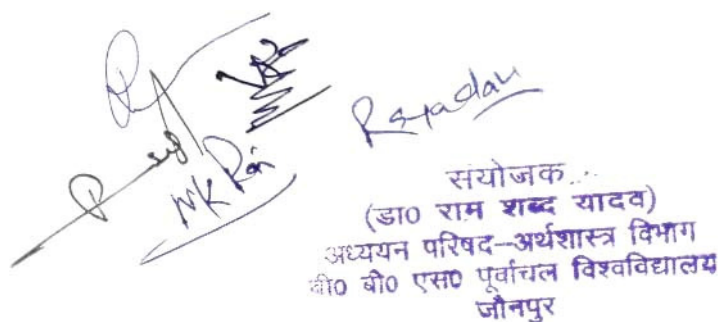अध्ययन परिषद–अर्थशास्त्र विभाग
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M.A. ECONOMICS
Paper IV (Optional)

Programme/Class PG/M.A.	Year-Fifth	Semester - X
Subject-Economics	
Course Code - A081004T	=Course Title - CO-OPERATION	

Course outcomes-	

- The students should be familiar with the co-operative movement in India, history of co-operatives, different types of co-operative societies, co-operative farming, milk supply societies and different problems in co-operation. Co-operative education importance.

Credit-4	Optional
Max. Marks – 25+75	Min. Passing Marks-33

Unit	Topics	No. of Lectures
I	**The co-operative movement in India.** History of the co-operative movement, Pre-independence development-early experiment -development of the movement causes of Slow growth. Post independence development Rural credit survey committee.	15
II	Programmes on co-operative development in the Five Year Plans Recent trends in co-operations policy. Different types of co-operative societies agricultural credit societies. Service co-operations. Financing banks-primary and central Land mortgage banks Marketing societies of the primary district and Apex level.	15
III	Co-operative processing societies, co-operative farming societies of different types, consumer's co-operation societies, immigration, dairy, poultry and milk supply societies, different types of industrial societies, housing cooperatives, Urban banks, Labour contract and transport cooperatives.	15
IV	Different problems in cooperation such as (a) single purpose and Multipurpose character of societies (b) Limited and unlimited liability c) Unitary, federal and coral organization. (d) Role of the Reserve Bank of India in the cooperative movement. (e) Co-operative Education Importance of cooperation education publicity and propaganda for the progress of cooperative moment various programmes of cooperative training and education in India.	15

Books Recommended:

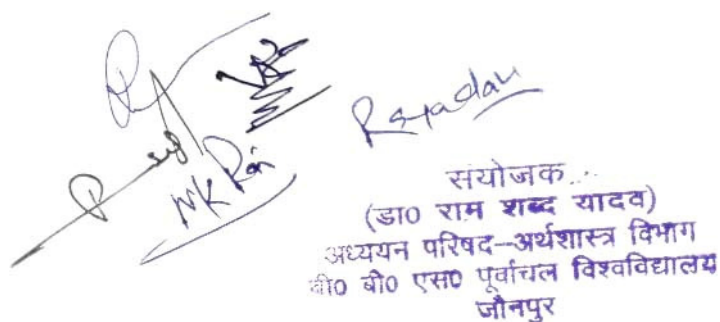Kulkarni. R. R. Theory and practice of Co-operative (Vols I, II and III)

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M.A. ECONOMICS
Paper V (Optional)

Programme/Class PG/M.A.	Year-Fifth	Semester - X
Subject-Economics		
Course Code - A081005T	Course Title - ECONOMICS OF INFRASTRUCTURE	

Course outcomes-
- The students should be families with the infrastructure and economic development, Transport Economics, Energy, Economics Educational and Health. It is important for Development.

Credit-4	Optional
Max. Marks – 25+75	Min. Passing Marks-33

Unit	Topics	No. of Lectures
I	**Introduction:** Infrastructure and economic development Infrastructure as a public good: Social and physical infrastructure, Special characteristics of public utilities. The peak load, Off-Load Problem. Dual Principle Controversy, Economies of scale of Joint supply, Marginal Cost Pricing vs. other methods of pricing in public utilities, Cross subsidization free prices, equity and efficiency.	15
II	**Transport Economics** The structure of Transport Costs and Location of Economic Activities. Demand for Transport. Models of Freight and Passenger Demand, Model Choice, Cost Functions in the Transport Sector Principles of Pricing. Special Problems of individuals Modes of Transport, Inter-modal condition in the Indian Situation.	15
III	**Energy Economics:** Primacy of Energy in the Process of Economic Development Factors Determining Demand for Energy: Effects of Energy Shortages Energy Conservation. Renewable and Non-conventional Sources Energy, Energy Modeling. The Search for and Optimal Energy Policy in the Indian Context.	15
IV	**Education And Health** Education and Economic Growth. Approaches to Educational Planning Social Demand. Rate of Return and Manpower Balance Approaches The Case for Universal, Free, Primary Education, Structure of higher education and problems of its financing in India: Human Resources and Human Capital Development. The issues in education policy Health dimensions of development. Determinants of Health - poverty, malnutrition, illiteracy and lack of information.	15

Books Recommended:

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Crew, M.A. and PR. Kleindorfer (1979), Public Utility Economics, Macmilian, London.

Indian Council of Social Sciences Research (ICSSR) (1976), Economics of Infrastructure. Vol. VI, New Delhi.

National Councif of Appiled Economic Research (NCAER) (1996), India Infrastructure Report; Policy Implications for Growth and Welfare, NCAER, New Delhi.

Parikh, K.S. (Ed.) (1997), India Development Report 1997, Oxford, New Delhi.

Parikh, K.S. (Ed.) (1999), India Development Report- 1999-2000. Oxford, New Delhi.

Turvey, R. (Ed.) (1968), Public Enterprises, Penguin, Harmondsworth.

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M.A. ECONOMICS
Paper VI (Optional)

Programme/Class PG/M.A.	Year-Fifth	Semester - X
Subject-Economics		
Course Code - A081006T	Course Title - RESEARCH METHODOLOGY	

Course outcomes-

- The students should be familiar with the Economic research Nature and scope, Economic Survey, sampling Techniques, Classification Tabulation, Correlations, Index Numbers. It is very useful for Research.

Credit-4	Optional
Max. Marks – 25+75	Min. Passing Marks-33

Unit	Topics	No. of Lectures
I	Economic research Nature and scope: Difference between the research methodologies of social and physical sciences. Methods of Economic Analysis and social studies. Research Design, Tools and techniques of data collection, Primary and secondary data, Schedule, questionnaire observation, interview and case study.	15
II	Economic survey, Sampling Techniques Simple random sampling, stratified sampling, cluster sampling and multistage sampling Classification, Tabulation and Analysis of data. Generalization and Reporting. Diagrammatic representation-Bar diagram, Pie diagram, Histogram etc.	15
III	Statistical Averages-Mean. Median, Mode. Dispersion, Skewness, Moments and Kurtosis.	15
IV	Correlation and Regression analysis. Index Number, Analysis of Time Series. Probable Error, Chi-square, t and Z tests.	15

Books Recommended:

Das Gupta AK Methodology in Economic Research

Sharma and Mukharji Research in Economics and Commerce Methodology and Sources.

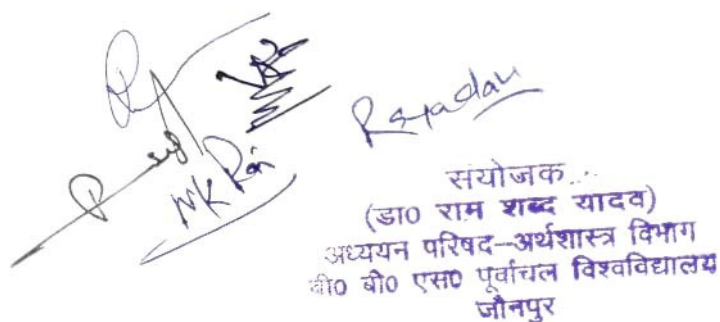Ghosh Scientific Method, Logic and Economic Analysis.

Croxton and Cowden: Applied General Statistics,

Gupta, S.C. and V.K. Kapoor: Funda mentals of Applied Statistics

चतुर्वेदी एवं सिन्हा   आर्थिक शोध के तत्व

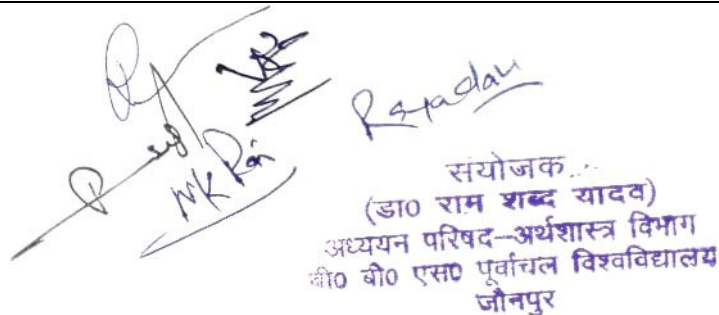चतुर्वेदी एवं मिश्रा   आर्थिक शोध एवं सांख्यिकी

एल0 हंस   सांख्यिकी के मूल तत्व

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M.A. ECONOMICS
Paper VII (Optional)

Programme/Class PG/M.A.	Year-Fifth	Semester - X

Programme/Class PG/M.A.	Year-Fifth	Semester - X
Subject-Economics		
Course Code - A081007T	Course Title - QUANTITATIVE METHODS	
Course outcomes- • The aim of the course is to equip the student with the fundamental understanding of quantitative methods and their usage in economics. • Students would acquire theoretical and practical knowledge of mathematical techniques used in the empirical analysis of economic relationships.		
Credit-4	Optional	
Max. Marks – 25+75	Min. Passing Marks-33	

Unit	Topics	No. of Lectures
I	**Mathematical Methods 1** Concept of function and types of functions; Limit, continuity and derivative: Rules of differentiation: Interpretation of revenue, cost, demand, supply functions; Elasticities and their types: Multivariable functions, concept and types of production functions: Rules of partial differentiation and interpretation of partial derivatives; Problems of maxima and minima in single and multivariable functions Unconstrained and constrained optimization In simple economic problems, Simple problems In market equilibrium, Concept of integration. Simple rules of integration; Application to consumer's surplus and producer's surplus, Growth rates and simple properties of time path of continuous variables.	15
II	**Mathematical Methods - 2** Determinants and their basic properties, Solution of simultaneous equations through Cramer's rule Concept of matrix – their types, sample operations on matrices, matrix version and rank of a matrix Concept of vector its properties, Matrices and vectors Concept of quadratic forms-Eigen roots and Eigen vectors: Introduction to Input-output analysis, Difference equations Solution of hart order and second order difference equation. Applications in Trade cycle models. Growth models and lagged market equilibrium models.	15
III	**Mathematical Methods - 3** Linear programming Basic concept, Formulation of a linear programming problem-its structure and variables; Nature of feasible, basic and optimal solution Solution of linear programming through graphical and simplex method: Statement of basic theorems of linear programming. Formulation of the dual of a programme and its interpretation, Shadow prices and their uses, Concept of duality and	15

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	statement of duality theorems, Concept of a game, Strategies - simple and mixed, Value of a game, Saddle point solution, Simple applications:		
IV	**Statistical Methods** Meaning, assumptions and limitations of simple correlation and regression analysis, person's product moment and spearman's rank correlation coefficients and their properties, Concept of the least squares and the lines of regression, Standard error of estimate, partial and multiple correlation and regression (applications only), Methods of estimation of non-linear equations- parabolic, exponential, geometric, modified exponential, Gompertz and logistic relationships.	15	

Books Recommended:

Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS. London..

Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill. New York.
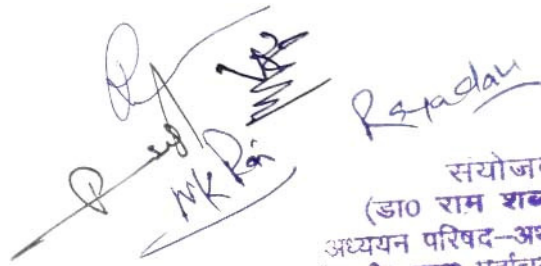
Gupta, S.C. (1993). Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi.

Handry, A.T. (1993), Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi.

Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill Book Co., London.

Taha, H.A. (1997), Operations Research: An Introduction (6th Edition), Prentice Hall of India Pvt. Ltd., New Delhi.
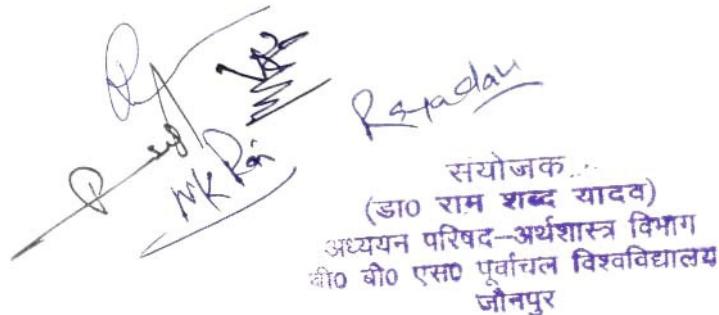
Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India, New Delhi.

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M.A. ECONOMICS
Paper VIII (Optional)

Programme/Class PG/M.A.	Year-Fifth	Semester - X
Subject-Economics		

Programme/Class PG/M.A.	Year-Fifth	Semester - X
Subject-Economics		
Course Code - A081008T	Course Title - LABOUR ECONOMICS	

Course outcomes-
- To develop students' abilities in acquiring a better understanding of the functioning of labour markets. The course will be taught using lectures, discussions. The students should be familiar with Labour Economies, Trade Union, Sources at Labour supply, Problem of wages.

Credit-4	Optional
Max. Marks – 25+75	Min. Passing Marks-33

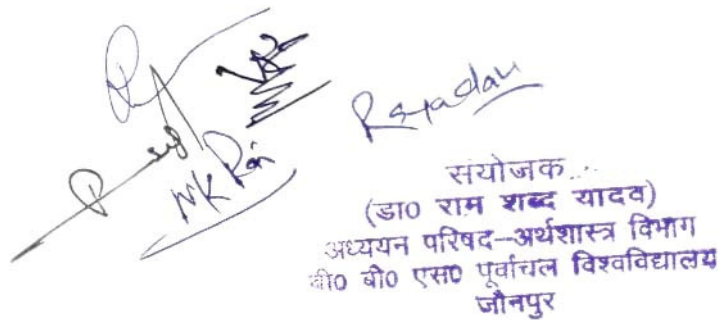| Unit	Topics	No. of Lectures
I	Content and scope of labour economics-Rise of labour problems; Importance of labour problems. Nature and Characteristics of labour markets in developing economics like India Paradigms of labour market. Classical Neo-classical and Dualistic, Analysis of Demand and supply forces. Demand for labour relation to size and pattern of investment, choice of technology and Government labour policies orientation, supply of labour in relation to growth of labour force, labour market policies.	15
II	Trade Unionism- organization structure, objectives and function A Brief History of Trade Union movement in Britain, Trade Union movement in India- Early difficulties stages of development, present position- Achievements, Draw backs of the movement. Sources of Labour supply-Village background, Migratory Character. Methods of recruitment-Employment exchanges, their present position; a National Employment Service.	15
III	Absenteeism and Turn over-causes, extent, consequences remedies Industrial Relations- Meaning and significance, different a species of industrial relations causes of industrial dispute and its consequences Right to strike and lock out Methods for the prevention and settlement of industrial disputes-Labour co-partnership- wate connittee, joint consolation Machinery for the settlement of industrial disputes in India.	15
IV	Problem of wages - importance for the wage problem, theories of wages concept of minimum, fair and living wages National wages policy State and wages. The minimum wages Act of 1948, wages policy under the five year plans, wages differentials- wage incentives- Bonus and profit sharing. Problem of labour welfare: Necessity and importance in India;	15

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welfare activities of the union and state governments.	

Book Recommended:

Phelps Broun	:	Economics of labour.
Bloom, Northrup and Rowen	:	Readings in labour Economics
Chorls Meyers	:	Industrial Relations in India.
R.R. Singh	:	Labour Economics.
H.S. Kirkaldy	:	The sprit of Industrial Relations.
S.D. Punckar	:	Trade unions in india
V.V. Girl	:	Labour in Indian industry
R.A. Lester	:	Economics of Labour
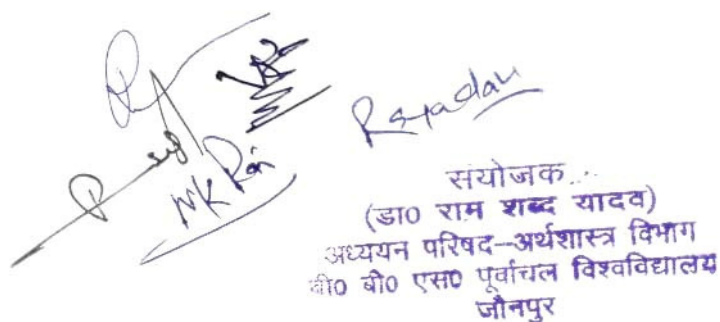
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M.A. ECONOMICS
Paper IX (Optional)

Programme/Class PG/M.A.	Year-Fifth	Semester - X
Subject-Economics	
Course Code - A081009T	Course Title - ADVANCE INDIAN ECONOMY	

Course outcomes-
- To provide the students with a critical understanding of the Indian economy so that they may be able to engage meaningfully with the issues regarding the country's economy. Moreover, student should be able to comprehend the issues at the macro level while using their theoretical understanding of the macroeconomics and development in the context of the Indian economy.

Credit-4	Optional
Max. Marks – 25+75	Min. Passing Marks-33

Unit	Topics	No. of Lectures
I	Growth and Structure of the Economy: Brief History of Indian Economy, Changing Structure of Indian Economy, Sectoral Behavior and Relationship; Growth Pattern at Sub National Level, Pattern of Consumption, Saving, Investment, Capital Structure.	15
II	Agriculture: Pattern and Growth of Farm Sector Development, Agricultural Price Policy, Food Security, Modernization and Diversification of the Farm Sector, Other Activities of the Primary Sector, Challenges of Farm sector.	15
III	Industry: Pattern and Growth of Industrial Growth and Policy Shifts; Industrial Policy. Capital goods industries, MSMEs.	15
IV	Services: Growth and Structure of Services Sector: Banking, Finance, Tourism, Science and Technology.	15

Suggested Readings:
- Agarwal A. N and M.K. Indian Economy, New Age Publications.
- Agarwal M.K. Uttar Pradesh Mein Arthik Vikas, New Royal.
- Banerjee Abhijit, What the Economy Needs Now, Juggernaut Publication.
- Dreze Jean, Social Policy (EPW), Orient Blackswan.
- Economic Survey, Ministry of Finance, Government of India.
- Human Development Reports, UNDP.
- Kapila Uma, Indian Economy: Performance and Policies, Academic Foundation.
- Kumar Sanjeev, Crop Diversification and Food Security in India, Mittal Publications.
- Piketty Thomas, Economics of Inequality, Harvard University Press.
- Stiglitz Joseph, Globalization and its Discontents, Penguin.
- Relevant Government Publications

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Veer Bahadur Singh Purvanchal University, Jaunpur
Syllabus for Ph.D. Course Work
Subject Economics
Paper I (Compulsory)

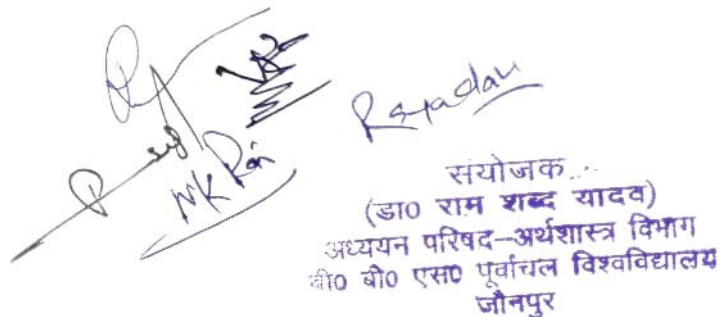| Programme/Class Ph.D. Course Work.	Year-Sixth	Semester - XI
Subject-Economics		
Course Code - A081101T	Course Title - RESEARCH METHODOLOGY	
Credit-4	Compulsory	
Max. Marks – 25+75	Min. Passing Marks-33	

Unit	Topics	No. of Lectures
I	• Introduction to the Research in Social Sciences. • Meaning, Objectives and Significance or Social Research. • Research Design-need and features of good research design different types of research design.	15
II	• Steps in Research Processes. • Identification of Board Research Area. • Review of Literature gaps in existing knowledge, defining specific research question from existing gaps in..................Construction of hypothesis. • Data Collection-Direct and Indirect. Primary and Secondary through questionnaires and schedules. • Data Processing Tabulation Interpretation of results Chapter Schemes, report writing bibliography.	15
III	• Sampling Procedure. • Census a is and survey methods and its applications. • Sampling Procedures, Stratified, Systematic multi-stage clusters quota and sequencing sampling.	15
IV	• Techniques of Research. • Statistical Techniques T-test F-test, Z-test X2-test of significance and their calculations with the help of statistical package-SPSS, EXCEL Time Series Analysis.	15

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Syllabus for Ph.D. Course Work
Subject Economics
Paper II (Compulsory)

Programme/Class Ph.D. Course Work.		Year-Sixth		Semester - XI	
Subject-Economics					
Course Code - A081102T		Course Title – CONTEMPORARY ECONOMIC ISSUES			
Credit-6			Compulsory		
Max. Marks – 25+75			Min. Passing Marks-33		
Unit	Topics				No. of Lectures
I	• Inclusive Growth in India. Concept, Measurement and Obstacles. • Human Development Index. Concept, Measurement and Dynamics of Measurement in India. • Structure of India's Population and its implications for economic growth.				22
II	• Poverty, Income Distributor and Justice. • Monetary and Fiscal Policies. • Global Recession and its impact on Indian Economy.				22
III	• Finance Commission Function and Recommend. • Financing of Infrastructure Development and Social Sectors. • Rural Poverty alleviation are employer end programmer.				23
IV	• Recent Five Year Plans in India, Strategies and Underlying Growth Models. • Issues in Balanced Gender Development. • Recent Agrarian Crisis-India's Food Security and World Food Economy.				23

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Syllabus for Ph.D. Course Work
Subject Economics
Paper III (Compulsory)

Programme/Class Ph.D. Course Work.	Year-Sixth	Semester - XI
Subject-Economics		
Course Code - A081103T	Course Title – COMPUTER APPLICATION IN RESEARCH	
Credit-6	Compulsory	
Max. Marks – 25+75	Min. Passing Marks-33	

Unit	Topics	No. of Lectures
I	• Introduction to Computer Components Computer Role of of Computer in Research. • Command User Interface, Operating Systems, MS DOS Disc Drives, DOS Internal Commands. • Internet-communicating through computers, creating an e mail and ftp POP and IMAP and SMTP for mail and the ftp protocol for file transfer. Using the World Wide Web, FTTP and Web viewers, Downloading interaction. Using Search. Engines, Configuring the Internet.	22
II	• MS-Word. • Word Processing, Editing Documents, Find and Replace Tab stops, Formatting the Document, Printing, Spell Check Inserting Graphics in Word Some Advanced Tools of Word, Mail Merge. • MS-EXCEL. • Basics of MS-EXCEL, Editing Cell Contents, Command for Worksheet Workbook, Some useful Functions, Formatting Data, Charts MS-EXCEL, Printing, Worksheets, Charts.	22
III	• MS-Power Point. • Introduction to Presentation Graphics, Steps to a Power Point Presentation. Presenting Tips, Physical Aspects of a Presentation, Creating New Presentation, Adding new Slides, Editing and Formatting a slide, Adding illustration to slides, Creating Side Skews. • Introduction to Data Base Functioning. How Data Base works Advantages of Data Base, Designing a Database. Starting MS-Access, MS-Access Window Components, Creating MS Access Database. Creating Database using Wizard, Creating a Database from Scratch, Designing Table, Contents and Properties, Creating Tables, Entering Data in a table. Editing Data in a	23

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	Table, Open an Existing Data Base, Navigating in Table, Table and Field Specifications, Record Validation Rules Sorting and Indexing.		
IV	- Introduction to Useful Statist cal Packages. - SPSS (Statistical Package for Social Science). - Masc Anova (5.5) - An interactive Programme for Statistical Analysis and Matrix Algebra. - G7 (7.38) Software for Regression Analysis.	23	