माँ शाकुम्भरी विश्वविद्यालय, सहारनपुर
Maa Shakumbhari University, Saharanpur

Post-Graduation in Economics

& Pre. Ph.D. Course- Work PROGRAMME
CURRICULUM & SYLLABUS

For

School of Arts-Economics

Maa Shakumbhari University, Saharanpur

And

Department of Economics, Affiliated Colleges

Maa Shakumbhari University, Saharanpur

Members, Board of Studies (Economics)

S.N.	Name	Designation	College/University	signature
1.	Mrs. Seema Mishra	Associate Professor, Convener of the team	J. V Jain College, Saharanpur	
2.	Dr. Manju Magan	Associate Professor, Member	V.V (PG) College, Shamali	
3.	Dr. Khalid Anwar	Associate Professor, Member	J. V Jain College, Saharanpur	
4.	Dr. Sushma Saini	Professor, Member	D.A.V College, Muzaffarnagar	
5.	Prof. M.L Maurya	External Expert	Bundelkhand University	
6.	Prof. Atveer Singh	External Expert	C.C.S University, Meerut	

SCHOOL OF ARTS (ECONOMICS)

MAA SHAKUMBHARI UNIVERSITY, SAHARANPUR

VISION OF THE SCHOOL

To produce such academicians with morality, global competence, vision and skilled as are necessary to meet the challenges of emerging global knowledge, economy by the power of innovation, creativity and efficient learning ability.

MISSION OF THE SCHOOL

To emerge among the top institution in India within next ten years through applicability, humanity, implementing and operating dynamic-academic, administrative and functional process, for optimal use of available resources.

ABOUT THE SCHOOL OF ARTS – ECONOMICS

The department supports Undergraduate and Postgraduate Programmes (BA, MA and Ph.D. in Economics, Which draw a huge number of applicants from all over the country these programmes have a strong cortical and quantitative focus with an emphasis on empirical applications. Current faculty members of the all departments are contributing in the areas of emerging areas of economics in terms of teaching and research activities.

VISION

- Vision of the School of Arts (Economics) University Campus and affiliated Colleges is to create a community of Learners in the field of global, National and Regional Economics by promoting outstanding teaching, Indian knowledge system(IKS), deep understanding and creating global centre of excellence in research for the growth of the Nation and Humanity.
- To achieve high standards of excellence in generating and propagating knowledge in Economics.
- To provide sustainable environment to the students and researchers who can learn, teach, become innovator and use of Economics for humanity.

MISSION

- To provide an effective teaching-learning process.
- To impart world-class education in an environment of fundamental and applied research in Economics.
- To emerge as a global centre of digital learning, academic excellence and innovative research.
- To include innovative skills, teamwork and ethical practices among students so as to meet societal expectations.
- To provide quality education for higher studies and competitive Examinations like ICSSR-UGC JRF/NET, GATE, SLET, IES, Civil Services.

Programme Out Comes (PO's)

PO 1. Apply knowledge of Economics in all the field of learning consumer's behavior, producer behavior and price determination in different types of markets.

PO2. Provide knowledge of National Income, Employment theories, Investment multiples and accelerator principle.

PO3. Apply knowledge of research methodology higher research work and innovations.

PO4. Understanding the basic reasoning of Economics and able to apply mathematical tools and techniques to study the behaviors of economic agents.

PO5. Provide knowledge of theories of distribution and welfare Economics.

PO6. Enable the students to understand theory, practice of money and banking and analysis the interaction between the monetary forces, their development, their role in the development of Economy.

PO7. Apply knowledge of various concepts and theories of growth and development through HDI, GDI, HCI.

PO8. Enable students in getting employment in different areas such as industry, banks and Insurance sector educational research institutions.

PO9. Provide knowledge of Economics of govt. Expenditure, revenue, taxation and Public Borrowing, Fiscal policy and its implication.

PO10. Impart knowledge regarding money and capital market, a Indian Financial system.

PO11. Aware the students with the current problems and future challenges of Indian Economy.

Programme Specific Out Comes (PSO's)

PSO1. The students would be able to apply theories and models of Economics in all fields of learning.

PSO2. Demonstrate competence in using Economic theories in real life applications.

PSO 3. Undertake specific enquiry and research using quantitative and qualitative methods to resolve socio economic problems.

PSO 4. Use appropriate techniques to solve the problems with calculus and linear algebra.

PSO 5. To provide students deeper knowledge about distribution and welfare aspect of economic activities.

PSO 6. Gain knowledge of recent developments in growth and development and carry out development work as well as take up challenges in the emerging areas of the country.

PSO 7. To Provide students deeper knowledge of industry computer and Insurance sector etc. to improve their own learning and performance.

PSO 8. Apply the Principles of Public Economics in analyzing various government Policies.

PSO 9. Apply the trade theories tariff theories and BOP's for the development of country.

PSO 10. Familiar the students about controller of Financial system e.g. RBI, SEBI, IRDA.

PSO 11. To provide students' knowledge, ability and computational techniques so that they will be able to work as professionals.

PSO 12. Understanding various concepts of population both qualitative and quantitative with various demographic techniques.

PSO 13. Apply appropriate Economic techniques to solve environmental problems and measure value of eco nonmetal goods.

Syllabus M.A. (Economics)

(M.A. and Research Work - Economics) as per NEP2020

Year	Semester	Course Code	Core/Elective/Value Added	Paper Title	Theory/ Practical/ Research	Credits	Internal Marks	External Marks (MinMarks)	Total Marks	Minimum Marks (INT+EXT)	Teaching Hours Theory
Year-4 as per NEP/Year -1	Semester-VII as per NEP2020/Semester-I	**0710801**	Core Compulsory	Micro Economics I	Theory	5	25	75(25)	100	40	5x15=75
		0710802	Core Compulsory	Macro Economics I	Theory	5	25	75(25)	100	40	5x15=75
		0710803	Core Compulsory	Quantitative Methods	Theory	5	25	75(25)	100	40	5x15=75
		Opt. any one of Three(Optional paper)									
		0710804	Elective	Economics of Health and Education	Theory	5	25	75(25)	100	40	5x15=75
		0710805	Elective	Labour Economics	Theory	5	25	75(25)	100	40	5x15=75
		0710806	Elective	Economics of Infrastructure	Theory	5	25	75(25)	100	40	5x15=75
		0710865	Core (Research)	Project on Local Problems	Research	4	25	75(30)	100	40	**60**
		0710850	Minor Elective (for other faculty)	Introduction of Economic Concepts	Theory	4	25	75(25)	100	40	4x15=60

	Semester VIII as per NEP2020/Semester -II	**0810801**	Core Compulsory	Micro Economics II	Theory	5	25	75(25)	100	40	5x15=75
		0810802	Core Compulsory	Macro Economics II	Theory	5	25	75(25)	100	40	5x15=75
		0810803	Core Compulsory	Economics of Growth and Development	Theory	5	25	75(25)	100	40	5x15=75
		Opt. any One of Three(Optional Paper)									
		0810804	Elective	Econometrics	Theory	5	25	75(25)	100	40	5x15=75
		0810805	Elective	Gender Economics	Theory	5	25	75(25)	100	40	5x15=75
		0810806	Elective	Industrial Economics and Entrepreneurship	Theory	5	25	75(25)	100	40	5x15=75
		0810865	Core (Research)	Summer Internship/Project	Research	4	25	75(25)	100	40	**60**
		M.A. in Economics as per NEP2020									
Year -5 as per NEP2020/Year - 2	Semester IX as per NEP2020/Semester -III	**0910801**	Core Compulsory	Public Economics	Theory	5	25	75(25)	100	40	5x15=75
		0910802	Core Compulsory	Research Methodology	Theory	5	25	75(25)	100	40	5x15=75
		0910803	Core Compulsory	International Economics	Theory	5	25	75(25)	100	40	5x15=75
		Opt. any One of Three(Optional Paper)									
		0910804	Elective	Financial Institutional and Markets	Theory	5	25	75(25)	100	40	5x15=75
		0910805	Elective	Computer Applications in Economics	Theory	5	25	75(25)	100	40	5x15=75

	0910806	Elective	Environmental Economics	Theory	5	25	75(25)	100	40	5x15=75
	0910865	Core (Research)	Project	Research	4	25	75(30)	100	48	**60**
Semester X as per NEP2020/Semester -IV	**1010801**	Core Compulsory	Indian Economics	Theory	5	25	75(25)	100	50	5x15=75
	1010802	Core Compulsory	Demography	Theory	5	25	75(25)	100	50	5x15=75
	1010803	Core Compulsory	Indian Public Finance	Theory	5	25	75(25)	100	50	5x15=75
	Opt. any One of Two(Optional Paper)									
	1010804	Elective	Resource Economics	Theory	5	25	75(25)	100	50	5x15=75
	1010805	Elective	Agriculture Economics	Theory	5	25	75(25)	100	50	5x15=75
	1010865	Core (Research)	Project	Research	4	25	75(30)	100	50	**60**

Examination Pattern

Internal Examination:

1. One written Test of 20 Marks.(5 Marks Quiz + 15 Marks (Very Short + Short + Long Question))

2. Five Marks for Class performance/Attendance.

External Examination: Written Exam of 75 marks 3Hrs Duration.

External Exam Pattern:

Unit-I : Attempt all five question . Each question carry 3 marks.

Unit- II : Attempt Any Two out of three. Each Question carry 7.5 marks each.

Unit-III : Attempt Any Three out of Five. Each Question carry 15 marks each.

Minimum Marks:

1. In each individual paper Forty Marks i.e. 40% with aggregate of 50% in all courses.

2. Division: First Division - CGPA 6.5 and Less than 10, Second division - CGPA 5.0 and less than 6.5. There is no provision of Third division.

Equivalent Percentage = CGPA x 9.5

Note: Percentage and Grading system applicable as per NEP2020 GO 1032/Sattar-2022-08(35)/2020, Higher Education Division -3, Lucknow Dated 20.04.2022

Detailed Syllabus

For

M.A. (ECONOMICS)

Programme/ Class: M.A	Year: First	Semester: 1/7
Subject: Economics		
Course Code: 0710801	**Course Title: Micro Economics I**	**(Theory)**
Course Objectives- This paper analyses the economics behaviour of individuals, firms and markets. It is mainly concerned with the objective of equipping the students with various aspects of consumer behaviour and demand analysis, production theory, product pricing and market behaviour, welfare economics, general equilibrium and analysis of economic behaviour under uncertainly and game theory.		
Credits: 5	Core	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	Introduction- Basic Economic problem choice and Scarcity: Deductive and inductive methods, Positive and Normative Economics, Economic models.	12
II	Consumer Behavior: Properties of indifference curve: Price and income Substitution Effects, Hicks and Slutsky Approach and Applications, Derivation of demand curves and income Consumption curves from indifference curves, Applications of Elasticity of demand, relation between elasticity, Marginal revenue, Average revenue and Total revenue, Revealed Preference theory.	14
III	Theory of Production and Cost- Theory of Production and Cost Production function short period and long period: law of variable proportions and returns to scale, Isoquants least cost combination of inputs; Expansion path, Concepts of product line Isoclines and ridge line, Multiproduct firm; Elasticity of substitution; Cobb- Douglas and CES Production Functions. Theories of cost derivation of cost functions from production functions; derived demand for factors.	17
IV	Market Structure (a): Price and output determination under Perfect Competition short run & long run equilibrium, Monopoly- Short run & long run equilibrium, Price Discrimination, Monopolistic Competition.	15
V	Market Structure (b): Price and output determination under Oligopoly- non collusive (Cournot, Bertrand, Edgeworth, Chamberlin, Kinked demand curve and stackelbert's solution) and collusive (Cartles and mergers, price leadership and basing point price system) models: Productive and allocative efficiency in the markets.	17
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		
Suggested Reading: (Please refer to the latest editions) 1. Koutsobiannis, A, 1979, Modern Economics, (2nd Edition), Macmillan Press, London. 2. Samuelson and Nordhaus, Economics, Tata McGraw Hill Publishing Compaly Ltd, New Delhi		

3. Mas Colell, Andreu, Michael D. Whinston and |Jerry R. Green (1995), Microeconomic theory, Oup, New York.
4. Jehle & Renne, Advanced Microeconomic theory, Pearson Education, India
5. Varian, Hall R. (1992), Microeconomic analysis (Third Edition), W.W. Norton & Company, New York, London
6. Varlan, Hall R (1990), Intermediate Microeconomics, W.W. Nortan & Company, New York, London
7. Paul A. Samulson, Economics
8. J.R. Hicks, Value and capital
9. Hildenbra, W. and Kirnam .A.P (1976), Introduction of equilibrium analysis.
10. T, (2012), Annie theory; an introduction, Princeton University Press.
11. Arrow, K.J (1974), General Economic Equilibrium, Purpose, Analytic Techniques, collective choice, American Economic Review Vol 64 PP 253- 273
12. Arrow, K.J. (1968), Economic equilibrium 'in international enclopedia of the social nolences, David Sills, Vol 4, pp 376- 386, Reprinted in collected papers of K.J. Arrow, vol. 2, Chapter 6.
13. Arrow, K.J. "An explanation of the basic theorems of classical welfare economics" in Peter Newman (ed) readling in mathematical economics, Vol. I
14. I Illler, Brhan (1997), The economics of anymmetric information, palgrave macmillan.
15. Arrow, K.J. (1963), Social choice and individual values, cowls foundation (Yale Universalty Press; New Delhi.
16. H.L. Ahuja Advance Micro Eco theory, S. Chand Publication, New Delhi.

This Course can opt as an elective/ value-added course by the students of the following subject: Open to all

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: First	Semester: 1/7
Subject: Economics		
Course Code: 0710802	Course Title: Macro Economics I	(Theory)

Course Objectives- Macroeconomics analyse and establishes the functional relationship between the large aggregates, macroeconomic analysis has assumed such a great significance in recent times that a prior understanding of macroeconomic theoretical structure is considered necessary for the proper comprehension of the different issues and policies.

Credits: 5	Core
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40

Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0

Unit	Topic	No. of Lectures = 75
I	Nature & Technique of Macro Economics, Macro statics & Macro dynamics:- National Income Output and Employment: National Income: Concepts and Measurement, Social Accounting Concept and Techniques, Net Economic Welfare (NEW), Measures of Economic Welfare (MEW) Income Determination in three and four sector model including foreign spending.	17
II	Classical Theory of Income and Employment- Say's law, Price-wage flexibility of full Employment, Keynes, Theory of Employment, Concept of effective demand, Aggregate demand function, aggregate supply function, applicability of Keynes theory of employment in developing economics.	15
III	Consumption and Investment: The Consumption function, absolute and relative, permanent income hypothesis, life cycle theory of consumption; Factors affecting consumption, consumption under uncertainly- the modern approach. Investment function- Neoclassical and Keynesian versions, Concept of MEC, Determination of investment, Saving-investment equilibrium.	15
IV	Multiplier and acceleration principle: Foreign trade multiplies, The Multiplier Acceleration Interaction. Inflation- Concept and types, demand pull and cost push inflation, deflation, Philips curve and concept of stagflation, Methods of inflation control- monetary and Keynesian approach.	15
V	Fiscal Policy- Objective and its instruments, fiscal policy in developed and developing economics, mundell fleming open economy model.	13

Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.

Suggested Reading: (Please refer to the latest editions)

1. Shapiro, E. 2005. Macroeconomic Analysis (5th Edition|), Galgotia Publication, New Delhi.
2. Froyen R.T. 2005, Macroeconomics (7th Edition), Pearson Education, Delhi
3. Mankiw, N.G. 2006, Macroeconomics, (5th Edition), Worth publications, New York.
4. Carlin, W and Soskice, D. 2007, Macroeconomics (Indian Edition)

5. Levacic, R. and Rebman, A. 1982 Macroeconomics- An introduction to Keynesian neoclassical controversies, (2nd Edition), Macmillan, London. 6. Hall, R.E. and Taylor, J.B. 1997, Macroeconomics (5th Edition), W.W. Norton and Company, New York, London 7. Sebold, V. Macroeconomics Models and Policy, WIE Viley. 8. Hajela. T.N. Macroeconomics theory, Ane Books Pvt. Ltd. Delhi 9. Ahuja, H.L. Advanced Macroeconomics theory, S. Chand publication, New Delhi 10.http://www.journals.elsevier.com/journalofmacroeconomics 11.http://onlinelibrary.wiley.com 12. http://www.ccsenet.org 13. http://journals.cambridge.org 14.http://www.oxfordijournals.org 15.http://www.economist.com 16.http://www.macrobasics.com 17. http://econ.worldbank.org
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
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Programme/ Class: M.A	Year: First	Semester: 1/7
Subject: Economics		
Course Code: 0710803	**Course Title: Quantitative Methods**	**(Theory)**
Course Objectives- The main objective of this paper is to equip the students to use the techniques of mathematics and statistical analysis to understand and analyse economic problem. The Paper deals with simple tools and techniques of that will help a students to analyse data and draw inferences of various statistical hypothesis.		
Credits: 5	Core	
Max. Marks: 25+75 {Internal + External)}	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	Integration- Determinants and matrix- Integration concepts, simple rules, application of integration in Economics, consumer's surplus and producer's surplus, determinant, basic properties, solution of simultaneous equation through cramer's rule, concept of Matrix their types, simple operations on matrices.	12
II	Index Number- Meaning and Definition main characteristics of Index Number, use and importance of Index Number, Types of Index Number, Simple and weighted Index number, Laspeyre's method, Paash's method, Marshal Edgeworth method, Fisher's method, cost and living Index, Test of reversibility, Time and factor, Splicing and deflating.	14
III	Correlation and Regression- Correlation meaning and scope Karl Pearson's coefficient of correlation, rank correlation, least square method, the lines of regression, standard error of estimate; partial and multiple correlation and regression.	17
IV	Sampling and Probability- Elementary sampling theory- Basic concept of sampling, random and Non random sampling, Probability- definition and Importance; simple numerical exercises based on the addition theorem, the multiple theorem.	15
V	Distribution and Hypothesis testing: theoritical frequency distribution- Properties of binomial, normal and poisson distribution, Simple Numerical, Exercises Test of significance, Problems based on t chi square and z test.	17
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		

Suggested Reading: (Please refer to the latest editions)

1. Monga, G.S (1972) Mathematics and Statistics for Economist, Vikas Publishing House, New Delhi.
2.Allen, R.G.D (1974) Mathematical Analysis for economists, Macmillan press and ELBS, London
3. Chiang, A.C (1986) fundamental Methods of Mathematical Economics, Mcgraw Hill, New York.
4. Yamane, Teru (1975) Mathematics for Economists, Prentice Hall of India, New Delhi.
5. Yule & Kendall An Introduction to the Theory of Statistics.

6. A.L. Bowley Elements of Statistics. 7. Dixon and Massey Introduction to Statistical Methods. 8. Nagar, A. L. and Basic Statistics, Oxford University Press, New Delhi R.K. Das (1993). 9. D.N. Elhance Fundamentals of Statistics. 10. S.P. Gupta Statistical Methods (Sultan Chand & sons) 11. Grewal, P.S. 1990, Methods of Statistical Analysis sterling publishing house, New Delhi.
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
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Programme/ Class: M.A	Year: First	Semester: 1/7
Subject: Economics		
Course Code: 0710804	**Course Title: ECONOMICS OF EDUCATION AND HEALTH**	**(Theory)**
Course Objectives- Economics of education and health is the application of micro economics theories in the field of education and health. To convert a population into human capital education and health are the two important factors. This paper gives an insight into basic concepts of these theories that can be applied in the field of education and health to develop the country.		
Credits: 5	Elective (a)	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	Economics of education: Concept and Importance, Education as an instrument of Growth, Demand for education private and social demand, Cost of education Private and Social cost, Waste and Stagnation, Benefits of Education Direct and Indirect Private and Social benefits, Cost benefit model, Education Production function, Education Productivity and Income, Educational Indicators.	15
II	India's Educational System: Problems and suggestion Primary, Secondary and higher level, Education and Earnings, Human Development concept and measurement, Human Development Index of India, Human capital in India, New National policy of Education financing of Education in India, Expenditure on Education during post reform period.	15
III	Health Economics: Concept, Scope and Importance, Health Indicators, Determinates of Health status, Economic Dimensions of Health care Demand and Supply of Health Care Disease burden and its Measurement, Economics Appraisal in Health Care Cost benefit, Cost effectiveness and cost minimization approaches, Environment and Health, Poverty and Health.	15
IV	India's Health Care System: Public Health Scenario in India- Burden of Diseases Unfant and Child Mortality Rates, Maternal Health, Infections and Parasitic Diseases, Life Style Diseases, Morbidity and Physical Disability, Health Care Infrastructure in India Primary, Community and Apex level, Health Care Expenditure in India, New National Policy on Health.	15
V	Health Care Markets: Concept Types and Importance Health Insurance, Information Asymmetries in Health Insurance Market, Externalities in Health Care markets, Hospitals and the Theory of Non profits, Technological Change and Health Care, International Health Organization WHO and other UN Agencies.	15
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		
Suggested Reading: (Please refer to the latest editions) 1.Blaug, M- Introduction to Economics of Education, Penguin, London.		

2. Ainyemi, Samuel The Economics of Education (2013) 3. Brewer. D.J. & Patrick, J.M Economics of Education Elsevler publication. 4.Glied, S. & Smith, P.c. The osrord handbook of health economics. 5. Henderson, J.W. Health economics and policy. 6. Human Development index report (latest) 7. Human Capital Index Report (2018) “The Changing Nature of Work” by World Bank. 8. Economics Survey, Government of India (Latest) 9. Government of India Budget (Latest) 10. National Human Development Report (Latest) 11. India Development Report (Latest) 12. WHO Reports on Health 13. National family health survey (NFHS) Survey
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Note- if any student is doing any practical work in the field of education health (e.g. providing free education in any government school or at any other place, participating in health awareness delivery programmes with District official/NGO/Individual level etc) to improve status of health and education of the people/society. Assignment in international examination can be on it and marks can be given by internal teacher and it may be included in best practices of the college. Viva- voice presentation can also be made on it.

Programme/ Class: M.A	Year: First	Semester: 1/7
	Subject: Economics	
Course Code: 0710805	**Course Title: LABOUR ECONOMICS**	**(Theory)**
Course Objectives- This paper exposes students to theoretical as well as empirical issues relating to the labour market with special references to India. Its main objective is to develop students abilities in acquiring a better understanding of function of labour market.		
Credits: 5	Elective (b)	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	Labour and productivity Labour: Characteristics of labour, role of labour in economics development employment and unemployment mobility of labour. Methods of recruitment and placement; the role of Employment service organization. Productivity: Meaning and measurement; factors affecting productivity. Rationalization.	15
II	Wages: Theories of wage rate determination; methods of wage payment minimum wage living wage and fair wage, wage differentials, wage and wage boards, bonus systems. profit sharing. National wage policy, co-ordination of price, incomes and wage policy in India.	15
III	Industrial Relation: Industrial disputes and industrial peace, methods of settlement and prevention of industrial disputes; Industrial relation in India, workers participation in management.	15
IV	Trade Unions and Social Security: Trade Unions; collective bargaining and wage theory. Trade union movement in India, problems and limitation. Social security: Meaning and evolution, social assistance and social insurance, social security and labour welfare in India.	15
V	Labour policy: Labour policy in India and need for manpower planning.	15
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		
Suggested Reading: (Please refer to the latest editions) 1. R.A. Lester : Economics of Labour 2. J.T. Dunlop (ed.) : The Theory of Wage Rate Deternination 3. J.R. Hicks : The Theory of Wages. 4. G.C. Hallen : Dynamics of Social Security 5. I.I.O. : Approaches to social security		

6. I.I.O. : Problems of wage policying Asia 7. T.N. Bhagoliwala : Economics of Labour and social welfare 8. S.C. Pant : Indian labour Problems. 9. Report of the National Commission on Labour (1969). 10. Indian Labour Journal (Monthly)
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
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Programme/ Class: M.A	Year: First	Semester: 1
	Subject: Economics	
Course Code: 0710806	**Course Title: ECONOMICS OF INFRASTRUCTURE**	**(Theory)**
Course Objectives- The main objective of this course is to familiarize the students with role of infrastructure in Economic development and growth and key issues in financing governance and interregional disparities.		
Credits: 5	Elective (c)	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**Introduction**: Infrastructure and economic development- Infrastructure as a public good; Social and physical infrastructure; Economics of scale of joint supply; Marginal Coat pricing vs. other methods of pricing in public utilities, Cross subsidization free prices, equity and efficiency issues in privatization of infrastructure, Infrastructure Finance, Public Private Partnership (PPP), Models and Examples in PPP.	15
II	**Physical Infrastructure-** Transport Infrastructure: Demand for transport infrastructure, Principle of Pricing Railways, roadways, airways and waterways, Progress, Pricing Technological Advancement and Challenges. New policies/programmes related to each mode of transportation intermodal condition in the Indian Situations.	15
III	**Economics Infrastructure Energy:** Primacy of energy in the process of Economics Development. Factors Determining Demand for Energy. Effects of Energy Shortages Energy Conservation Renewable and Non conventional Sources of Energy. **Electricity, Gas and Water Supply-** Bulk supply and Pricing of Electricity. The Relative Economics of Thermal, Hydel and Nuclear Power Plants. The case for a National Power Grid, Financing Water Utilities Urban and Rural Water Supply. The Exploitation of Natural Gas, Pricing Problem.	15
IV	**Social Infrastructure** Education: Concept scope and relevance of Human Resource and Human Capital Development Education and Economic Development, Rate of Return and Manpower Balance Approaches, Progress on Universalisation of Primary Education Performance of Secondary Technical Professional and Higher Education New Education Policy.	15

	Health: Health Dimension of Development Health Facilities in India, State and Provision of Health Issues in Privatization of Health Services.	
V	**Latest Issues in Infrastructure**: Urban Infrastructure, Smart Cities Components, Performance and Challenges, Science and Technology infrastructure in India, Recent debate about the fixation of prices of social services.	15

Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.

Suggested Reading: (Please refer to the latest editions)

1. Crew, M.A. and P.R. Public Utility economics, Mcmillan, London.
2. Parikh, K.S. (Ed.) (1999): India development report 1999-2000, Oxford, New Delhi.
3. Nelson, J.R. (1964): Marginal Cost Pricing in Practice, Prentice - Hall, Englewood Cliff.
4. Goel. M.M. (2011), Economics of Human Resource Management in India, V.K. Global Publication, New Delhi.
5. Morris, S. (2007), Infrastructure, in Kaushik Basu (Ed.). The Oxford Companion to Economics in India, Oxford University Press, New Delhi.
6. Panchamukh, P.R. (1980), Economics of Health: A trend report in ICSSR, A Survey of Research in Economics, Vol. VI, Infrastructure, Allied, Delhi.
7. Raghunam, G.R. Jain S. Morris, P. Pangotra and S. Sinha (Eds.) 1999, Infrastructure development and financing: publishing private partnership, Macmillan India Ltd. New Delhi.
8. Philips, A. and O.E. Prices: Issues in theory, practive and public Williamson (Eds.) (1967) Policy, University of Pennsylvania Press, Philadelphia.
9. Pachauri, R and D (Ed.) (1980) : Energy policy for India, Macmillan Co. of India, New Delhi.
10. Government of India (1997), The India Infrastructure Report, Vols, I, II and III NCAER and Government of India, New Delhi (Chairman, Rakesh Mohan).

This Course can opt as an elective/ value-added course by the students of the following subject: Open to all

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	**Year: First**	**Semester: 1**
	Subject: Economics	
Course Code:	**Course Title: Project on Local Problems (Regarding Agriculture, Industry, Bank etc)**	**(Practical)**
Course Objective with outcomes- The objective of this course is to provide exposure with industry. The industrial visit is designed for the students who want to engage in real economic analysis outside the classroom		
Credits: 4	Core (Research)	
Max. Marks: 100 (Report Presentation)	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
	General Outlines	
	The course will be evaluated on the basis of report submitted and presented by the student before the examiners.	
Teaching Learning Process: Internship, Exposure with reputed industry		
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all		
Suggested Continuous Evaluation Methods: Assignment, Report, PPT presentation, and Viva-Voice.		
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.		

Programme/ Class: M.A	Year: First	Semester: 1/7
Subject: Economics		
Course Code: 0710850	**Course Title: Introduction of Economic Concepts**	**(Theory)**
Course Objectives- This paper provides the understanding of Economics concepts to the students of other department		
Credits: 4	Minor Elective (For Other Faculty Students)	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 3-1-0		
Unit	Topic	No. of Lectures = 60
I	Utility Analysis, Marginal and total utility cardinal and ordinal approach, Demand and law of demand.	15
II	National Income, different concepts of National Income, Employment programs by central and state government, Make in India, One District One Product (ODOP) Inflation and Deflation.	15
III	LPG (Liberalization, Privatization and Globalization) Monetary and Fiscal Policy, Budget and objectives of Budgeting.	15
IV	Environment and sustainable development- Common pool resources, environmental externalities and state regulation of the environment, Renuable and None renuable resources Ozone layer, Green Audit.	15
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		
Suggested Reading: (Please refer to the latest editions) 1. Micro Eco- H.L. Ahuja (Hindi & English) 2.Macro Eco- K.P. Jain, Hajela T.N. 3.Indian Economy- Rudra Dutt and Sunderram- Indian Economy Misra and Puri Indian Economy, Himalaya Publication 4.Tara Singh Environmental Eco- Mittal Publication, New Delhi		
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all		
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.		
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx		
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.		

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Programme/ Class: M.A	Year: First	Semester: II / VIII
Subject: Economics		
Course Code: 0810801	**Course Title: MICRO ECONOMICS II**	**(Theory)**
Course Objectives- The paper deals with the Micro and Macro theories of Distribution, Welfare Economics, General Equilibrium in closed and open systems and analysis of Economic Behavior Under Uncertainly.		
Credits: 5	Core	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	Theory of Distribution- Determination of rent, wages, interest and profit; Neoclassical approach Marginal productivity theory; Elasticity of technical substitution, technical progress and factor shares; Theory of distribution in imperfect product and factor markets;	15
II	General equilibrium- Partial and General equilibrium, Walrasian excess demand and input output approaches to general equilibrium, existence, stability and uniqueness of equilibrium and general equilibrium, coalitions and monopolies.	15
III	Welfare economics- Classical approach: The principle of Compensating Variation, Hicksain types of consumer's surplus, Slutsky's approach to measurement of consumer's surplus. The concept and the conditions of Pareto Optimality, Pareto optimality in the General Equilibrium system, compensation criteria, contributions of barone, Hicks and Kaldar, Scitovsky's criterion.	15
IV	New Welfare Economics: Social Optimum, Community indifference map, Samuelson's utility possibility curve, Begrson's Concept of Welfare and its measurement, Social Welfare Function, the theory of second best, Social Choice, Arrow Impossibility Theorem.	15
V	Problems of non market interdependence, externalities in production and consumption, external economics and diseconomics, Problems of Public Goods and negative spillovers. The problem of market failure, uncertainly and non existent and incomplete markets:	15
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		
Suggested Reading: (Please refer to the latest editions) 1. Glould & Lagear micro economics. 2. Richard A. B|Las Micro economic theory. 3. Paul, A. Samuelson economics. 4. J.R. Hicks value and capital 5. R.H. Lelftwich the price system and resource allocation 6. W.I Baumol economics Theory & operations analysis.		

7. John robinson the economics of imperfect competition. 8. A.E.A. Readings in price theory. 9. E.H.Chamberlin the theory of Monopolistic competition. 10. J.M. Joshi theory of value, distribution and welfare economics. **Additional reading list:** 1. Milton rriendoman price theory- a provisional text. 2. W.J.L. Ryan |Price theory. 3. K.E. boulding economic analysis, volume |I 4. A. Koutsoyiannis modern micro economics. 5. Choudhary, Kalyanjit modern Micro economic theory, pragati publication Delhi Roy |(1999) 6. Joseph E. Stiglitz economics, W.W. Norton |& Company, New York. London
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: First	Semester: II / VIII
Subject: Economics		
Course Code: 0810802	**Course Title: MACRO ECONOMICS -II**	**(Theory)**
Course Objectives- The objective of this paper is to enable to students to understand theory. practice of money and banking and analysis the interconnection between the monetary forces and real forces, their developmental role and limitations in shaping the economy.		
Credits: 5	Core	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**Evaluation of Money-** Types and classification of money, monetary standards and functions of money.	15
II	**Demand for money**- Classical and Keynesian approach, fisher and Cambridge approach, Miltom Frienman, Patinkin, Baumol and Tobin theory. Supply of money- Compositions and Determinants, high powered money, concepts of money supply in India,	15
III	**Commercial banking**- Origin functions and types of banks, credit creation. Functions of central banks, Credit control, monetary policy- objective and its instruments, Banking sector reforms in India.	15
IV	**Economic Fluctuation and Stabilizations-** Business cycles concepts, characteristics and classification of business cycle. Theories of business cycle- Keynes, Hicks, Samuelsons and Kalder, control of business cycles.	15
V	Recent developments in Macro economics, Rational Expectations, random walk of GDP theory, real business cycle theory. Neo- Keynesioan Economics- Sticky Price model, efficiency wage model and insider outsider model.	15
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		
Suggested Reading: (Please refer to the latest editions) 1. Khan, M.Y. 1996, Indian financial system, Tata McGraw Hll, New Dlehi. 2. Machiraju, M.R. 1999, Indian financial system. Vikas publishing house, New Delhi. 3. D. Muralidharan 2009 Modern banking theory and practice; PHI learning Pvt. Ltd. New Delhi.		

4. Jhingan, M.L. Monetary economics, Vrinda publications New Delhi 5.Gupta Suraj B. 2016, Monetary economics Institutions, Theory and policy S. Chand and company private ltd. New Delhi. 6. Jadgish Handa, 2009: Monetary Economics 2nd Edition Routledge, London
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: First	Semester: II / VIII
Subject: Economics		
Course Code: 0810803	**Course Title: ECONOMICS OF GROWTH AND DEVELOPMENT**	**(Theory)**
Course Objectives- Growth and development is the first requisite of any underdeveloped economy. The objective of this paper is to familiar the students with various concepts and theories of Growth and Development and also various measurement of development at world level with special reference to India.		
Credits: 5	Core	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**Introduction**- Concepts of Economics Growth & Economic Development Measurement Of Economic growth; Stationary State and Steady State Growth; Determinants of Economic Growth, Basic Requirements for Economic Growth; Vicious Circle of Poverty, circular causation, changing notions of development.	15
II	**Theories of economics growth**- Classical Growth theory- Adam Smith Ricardo, Marxian model: Schumpeter's theory. The Harrod Domar analysis and mahalonobis growth model. |(4 Sector) **Neo classical growth theories**: Models of Solow, Meade, Mrs |John Robinson and N. Kaldar; Rostow's stages of Economic Growth, Balanced verses unbalanced growth.	15
III	**Theories of development**: Lewis theory of Unlimited supply of labour, Ranis fie model Nelson's lowlevel Equilibrium trap; Rosenstien Rodan's Theory of Big push; Leibenstein's Critical Minimum Effort Thesis dependency theories, Models with Endogenous Growth; One sector growth models- The AK model learning by doing and knowledge spillover.	15
IV	Measuring development- Physical Quality life Index (PQLI) Human Development Index (HDI), Inequality Adjusted HDI, Gender Inequality index, Human Capital Index, Human happiness index; Sustainable, Development Goals (SDG)	15
V	**Poverty, Income Inequality and Sustainable development:** Poverty- Concept, Measurement, Head count, poverty gap, poverty line, Multi dimensional poverty index; Inequality- Concept, measurement Gini Coefficient, Lorenz Curve, decile ratios. Sustainable Development Meaning objectives and issue, environmental natural resources and other related issues; Natural capital and equity.	15
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		
Suggested Reading: (Please refer to the latest editions) 1. Debraj Ray. 1998, Development economics oxford university press.		

2. Simon Kuznets, 1966 economics growth, rate structure and spread, yale university press.
3. Robert Barro and Xavier Sala-i-Matin 2003, economics growth, PHI, New Delhi.
4. Todaro, Mecheal P. and Stephen c. Smith 2012 economics development 11th Edition. Pearson India.
5. Behrman, S. and T.N. Srinivasan 1995, Handbook of development economics vol. 3, Elsevier, Amsterdam
6. Chakarvarti, S. 1982 Alternative Approaches to A theory of economic growth, oxford university press. New Delhi
7. Mcier, G.M. 1971 Leading issues in economics development oxford university press, New Delhi.
8. Myrdal. G 1968 Asian Drama an enquiry into the poverty of nationas, Polican, London
9. A.K. Sen 1970, Growth economics penguin Harmondsworth, penguin books.
10. Thirawal A. 1978 Growth and development, Macmillan, London.
11. chakarvarti S. 1981 development planning the Indian Experience Oxford university press, New Delhi.
12. Chenery ct al 1987: Handbook of development economics Vol I and II. North Holland.
13. Haq. M. Reflection on human development, oxford university press, New Delhi.
14. Human Development report.

This Course can opt as an elective/ value-added course by the students of the following subject: Open to all

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: First	Semester: II / VIII
	Subject: Economics	
Course Code: 0810804	**Course Title: ECONOMETRICS**	**(Theory)**
Course Objectives- The main aim of this paper is to equip the students with basic theory of econometrics and relevant applications of the methods. The course also covers various econometric methods applicable to different topics in economics and those needed for applied economic research.		
Credits: 5	Elective (a)	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**Introduction to Econometrics:** Meaning, Objectives, Nature and scope of econometrics, Relationship with Mathematical Economics, Economics and Statistics. The raw material of Econometrics time series and cross section data. Methodology of econometrics simple and multiple linear regression model- assumptions.	15
II	**Two Variables and multiple regression analysis:** The basic two variable regression models estimation- statistical inference and prediction- extensions of two variable regression model regression through origin sealing and units of measurement functional forms of regression model, Multiple Regression Analysis. The problem of estimation rotation and assumptions meaning of partial regression coefficients, the multiple coefficient of determination R2 and the multiple coefficient of correlation R - R2 and adjusted R2- partial correlation coefficients- Interpretation of multiple regression equation.	15
III	**The classical Linear Regression Model:** Assumptions estimation Ordinary least Square Method, Properties of OLS estimator, Grassmarkov Theorem (BLUE): Hypothesis Testing; t- test for individual regression coefficient. Goodness of Fit; Prediction: Mean and Individual prediction; Maximum Likelihood Estimation.	15
IV	**Simultaneous Equation models:** Simultaneous equations model- structural and reduced form, Simultaneous equation bias and inconsistency of OLD estimator: The Identification problems. Rules for identification order and rank conditions; Indirect Least square; Two stage least square (2SLS); Dummy variables.	15
V	**Time series and forecasting-** Stationary and non stationary, Detection of non stationary correlogram, unit roots; Dickey Fuller test; Co integration; spurious regression; While	15

	noise process Random walk model; Approaches to economic forecasting, forecasting with ARIMA modeling Box Jenkins methodology.	
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		
Suggested Reading: (Please refer to the latest editions) 1.Gujrati, D.N. 2004, Basic econometrics, 4th edition, Tata McGraw Hill publishing company Ltd. New Delhi. 2. Koutsoyiannis, A. 2006, Theory of economics 2nd edition palgrave, New York. 3. Dougherry, C. 2002 Introduction to economics 2nd edition oxford university press, New York. 4. Wooldridge, J.M. 2007, Introductory econometrics, 3rd edition, Thomson South western, New Delhi. 5. Ramanathan R. 2002, Introductory econometrics with application 5th edition Cengage India Learning Pvt, Ltd. New Delhi. 6. Theil, H. 1981 Introduction to econometrics. prentice hall of India, New Delhi. 7. Kennedy. P 1998. A Guide to econometrics MIT press New York. 8. Baltagi, B.H. 1998 Econometrics springer. New Yorki. 9. Johnson, J and J. Dinardo, econometric methods fouirth edition McGraw Hill. latest edition. 10. Maddala. G.S. K. Lahiri 2009, Introduction to econometrics, John Wiley & Sons. 11. Stewart, J. and L Gill. Econometrics second edition prentice Hall, 1998.		
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all		
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.		
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx		
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.		

Programme/ Class: M.A	Year: First	Semester: II / VIII
Subject: Economics		
Course Code: 0810805	Course Title: GENDER ECONOMICS	(Theory)
Course Objectives- This course is motivated to familiarize students with the key theoretical concepts, approaches and views related to the role of women in the achievement of development.		
Credits: 5	Elective (b)	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**Concepts and Theoretical Approaches in Gender Economics:** Gender economics concept, Importance and Methods of Gender Economics, Gender Statistics, Gender issues in economic theory, Gender division of work, Approaches to Women Development Women in development (WID), Women and development (WAD), Gender and development (GAD); Neoliberal approaches; Women Empowerment- Approaches in Indian Context.	15
II	**Women as Workers:** Concept and Analysis of women's work- Valuation of production and Unproductive work- Visible and Invisible work- Paid And Unpaid Work- Economically Productive And Socially Productive Work- Invisibility Of Women's Work- Problems in Measurement Classification of Work in Indian Census and NSSO - Main Workers, Marginal Workers, Nor Workers, Non Recognition of Women's in National Income Accounting Measuring Women's Contribution to National Income.	15
III	**Gender Indicators, Policy and Budgets:** Gender Inequality indicators, Gender related development indices; Measuring gender empowerment; Gender dimensions of International trade. **Demographic Change and Gender Status**; Mainstreaming Gender into development politics; Gender planning techniques; Gender budgets; Gender Audit; Gender sensitive governance, Gender Policy, National, regional and Global level, Gender Review.	15
IV	**Gender and social sector:** Application of theories of capability and human capital for studying gender and education, Significance of Women's education, Gender gaps in educational achievements, Policics and Programmes for promoting women's education Impact of technological development On Women Empowerment, Emergence and Growth of Women Entrepreneurs, Gender And Health, life style approach to gender specific health needs, gender dimension of national health policies and programmes	15
V	**Women, Poverty and environment:** Women's rights, Deprivation and marginalization of Women, feminization of poverty extent, causes and consequences, women and environment, Paradigm shifts from Welfare- Oriented Programmes to empowerment oriented programmes, Need for gender	15

	concerns in designing social security policy, Role of new technologies for Empowering women, Gender Issues in Sustainable Development Goals.	

Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.

Suggested Reading: (Please refer to the latest editions)

1. Anupama 2007, Gender discrimination in quality of employment and wages in unorganized manufacturing sector of India, Indian Journal of Labour Economics, 50(4) pp. 10074-1119.
2. Arputhamurthy, S. 1990, women work and discrimination, New Delhi Ashish Publishing House,
3. Bosarup Ester, 1970 Women's Role in economic development, Goere Allen and Unwin, London.
4. Devasialeelamma 1994, Empowering women for sustainable development, Ashish Publishing House, New Delhi.
5. Eswaran, M. 2014, Why gender matters in economics Princeton University press.
6. Jacobsen, J. 2007, the economics of gender, Wiley- Blackwell.
7. Jose, S. 2008, paid employment and female autonomy in India, issues and evidence, Indian Journal of Labour Economics, 51(3), pp. 397- 408.
8. Mazumdar, I, and N. Neetha 2011, Gender dimensions, employment trends in India 1993- 94 to 2009- 10 Economic and political weekly, 46(3) pp. 118-126.
9. Nirmala. V and K.S. Bhat 1999, female work participation in the emerging labour market in India , Indian journal of labour economics, 42(4), pp. 613- 639
10. Pal, M.P. Bharati, B. Ghosh, and T.S. Vasulu (eds.) 2011, gender and discrimination health, nutritional status and role of women in India, New Delhi, Oxford University Press.
11. Pellissery, S. and S.K. Jalan 2011, Towards transformative social protection, a gendered analysis of the employment guarantee Act of India (MGNAREGA) Gender and development 19(2) , p.p 283-294.
12. Sen. A and J. Dreze 1995, India, Economics development and social opportunity oxford university press.
13. Murthy, K.R. (ed.) 2001, Building women's capacities.
14. Desai, N. and M.K. Raj (Eds.) 1979, Women and Society in India, research centre for women studies, SNDT University, Mumbai.
15. Ahmed, I. Technology and Feminization of work, EPW. 29(18), WS 34-38.

This Course can opt as an elective/ value-added course by the students of the following subject: Open to all

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

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Programme/ Class: M.A	Year: First	Semester: II / VIII
Subject: Economics		
Course Code: 0810806	**Course Title: INDUSTRIAL ECONOMICS AND ENTRPRENEURSHIP**	**(Theory)**
Course Objectives- The objective of this course is to provide basic knowledge to the students on the issues related to market structure, firms motivations and conducts, productivity, and efficiency. It also provides a detailed understanding of policy debates involved in industrial development in India.		
Credits: 5	Elective (c)	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**Industrial Economics and Industrialization:** Nature, Scope and Growth of Industrial Economics, Industrialization- Concept, Rationale, Factors Promoting and Hindering Industrialization, Implications, Theoretical Justification for Industrialization, Arguments against Industrialization, Industry and Sectoral Linkages.	15
II	**Forms of Industrial Organization:-** Different Form of Industrial Organization, Economics of Scale Economics of Scope, Industrial Combinations, Pools, Trust and Cartels, Mergers and Acquisitions and Take Overs & Amalgamations- MNCs Corporate Governance.	15
III	**Market and Industrial Efficiency-** Market structure and market conduct, Industrial Efficiency, concepts determinants, measurement and decision making process market concentration, its measurement and Effects on market performance, Product differentiation and advertisement, Diversification, Integration and Merger, Research & Development and Innovation, Theories of Growth of Firm Constrained on Growth..	15
IV	**Industrialization in India:-** Trends in Industrial growth and diversification, Globalization and its impacts on Industries, New Industrial Polity in India, Industrial Finance, Policy Initiatives to Liberalize Indian Industries and its effects, labour issues and reforms, SSIs and cottage industries in India policy issues and performances, Multinational Corporations (MNCs) in India- Advantages & Disadvantages- Technology Transfer.	15
V	Entrepreneurship Definition, Features, Problems, Theories, Entrepreneurship and Economic Development, Characteristics, Types and Functions of an Entrepreneur, Role of an Entrepreneur, Entrepreneurship Emergence and Development in India, Women Entrepreneurship and Economic Development, Funding of a new Enterprise, Sources, Problems and Prospects, Entrepreneurship Development Programmes and Institute in India,	15
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		

Suggested Reading: (Please refer to the latest editions)

1. Bhartwal R. Industrial Economics, an Introductory, text book, new age international Pvt. Ltd. Bangalore.
2. Cherumilaum F. Industrial economy of India, Himalaya publishing house, Mumbai.
3. Dennis Carlton, Jeffrey Perloff, Modern Industrial organization, Global edition.
4. Divine, P.J. and R.M Jones, An Introduction to Industrial Economics, George Allen and Unwin Ltd. London
5. Hay D.A. and Morris D.J. industrial economics, theory and evidence, oxford university press.
6. Kuchaal, Industrial Economy of India, Chaltanya, Allahabad.
7. Singh A and A.N Sandhu, industrial economics, Himalaya publication House, Mumbai.
8. Sivayya K.V and V.B.M. Das, Indian industrial
9. Ahluwalia, I.J Industrial growth in India, Oxford University Press, Oxford.
10. Desai, B. Industrial economy of India, Himalaya publication house, Mumbai.
11. Desai, S.S.M. and Nirmal Balerao, Industrial economy of Indian Himalaya pub. house , Mumbai.
12. Dilip Mukherjee, Indian Industry; Policies and performance, Oxford University press, Delhi.
13. Hashim S.R. Suri K.B. (Ed.) Small scale enterprises in industrial development, The Indian experience, Sage publications, New Delhi.
14. Kyoko Inone, Industrial development policy in India, Institute of developing economics Tokyo.
15. Nagesh Kumar, MNCs and industrial organization, Sage pub. New Delhi.
16. Ram Shanker Singh, Industrialization in India, Deep and Deep, New Delhi
17. Singh A and A.N. Sandhu, Industrial Economics, Himalaya publishing House, Mumbai.
18. Tendulkar S.D (ed.) India, Industrialisation in a Reforming Economy, Academic foundation, New Delhi.
19. Udai Pareek and T. Venkateshwara Rao, Developing entre preneurship- A hand book learning systems. New Delhi.
20. Deshpande, M.U. Entrepreneurship of Small Scale Industries, Deep and Deep publication, New Delhi.
21. D.L. Narayana, 1972, Entrepreneurship and Economic development, Madurai University Press, Madurai.
22. Dilip S. Swamy, 1994, The political economy of industrialization form self reliance to Globalization, Sage publication India, New Delhi.

This Course can opt as an elective/ value-added course by the students of the following subject: Open to all

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: First	Semester: II / VIII
	Subject: Economics	
Course Code: 0810865	**Course Title: SUMMER INTERNSHIP**	**(Practical)**
Course Objective with outcomes- The 4 Credit internship is designed to expose students enable the students to work in different sectors, in higher Education public sector and private agencies.		
Credits: 4	Core (Research)	
Max. Marks: 100 (Report Presentation)	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 0.04		
	General Outlines	
1	The course should make the students learn how to make a report on the basis of Internship and the student must provide the certificate of completion from the company.	
2	The course should make the students learn how to make a report on the basis of Internship and the student must provide the certificate of completion from the company.	
3	The internship project will be of 50 marks and there will be a viva of 50 marks.	
Teaching Learning Process: Internship and exposure of working with industry.		
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all		
Suggested Continuous Evaluation Methods: Assignment, Report, PPT presentation, and Viva-Voice.		
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.		

Programme/ Class: M.A	Year: Second	Semester: III / IX
Subject: Economics		
Course Code: 0910801	**Course Title: PUBLIC ECONOMICS**	**(Theory)**
Course Objectives- The objective of the course is to provide the students with a through knowledge and understanding of economics functions of government in an economy.		
Credits: 5	Core	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**Public Economics:** Nature, Scope and Significance of public finance, public, private and merit goods, role of Government in economic activities- A locative, distributive and stabilization functions, market failure and remedial measures: Asymmetric Information, public goods, externality, regulation of market, collusion and consumer's welfare, modern trends in public finance- functional finance, compensatory finance.	15
II	**Public Expenditure:** Objective and Principles of Public Expenditure, Wagner's Hypothesis, Peacock Wiseman Hypothesis, Reasons for Growth of Public Expenditure in Modern Times; Effects of Public Expenditure. **Public Revenue:** Sources Of Public Revenue, Efficiency and Enquiry in Taxes Benefit and Ability to Pay Approaches in Taxation, Incidence of Taxation: The Concentration, Diffusion and Modern Theories of Incidence and Musgrave's Concept of Incidence, Effects of Taxation, Taxable Capacity.	15
III	**Budget, Debt And Fiscal Policies:** Budget and Budget Processes: Significance, Techniques of Budgeting, Zero Base Budgeting: Government Debt: Source, Effects, Burden, Management; Deficit Financing: Objectives, Advantage, Risks, Modes; Fiscal Policy: Objectives, Instruments, Implications And Limitations.	15
IV	**Indian public finances:** Indian Tax System: structure and reforms; GST in India; Government expenditures- Centre and State (UP) government Budget- Latest Centre and State (UP); Its analysis and Implications; deficits and public debt of Centre And State (UP) government; Finances of Local Bodies, Deficit Financing Policy of India; Fiscal Policy of Indian Government.	15
V	**Federal Finance:** Fiscal federalism in India; NITI Aayog; Finance Commissions and Their Recommendations (Latest).	15
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		
Suggested Reading: (Please refer to the latest editions) 1. H. Dalton, Public Finance		

2. R.A. Musgrave, The Theory of Public Finance.
3. R.A. Musgrave &Peggy. B. Musgrave, Public Finance in Theory and Practice.
4. T.N. Hajels, Public Finance. Ane books, New Delhi
5. Prest. A.R. Public Finance in Theory and practice, Weidenfield and Nicholson, London, 10.
6. T.N. Hajela, Rajasvke Siddhani (Hindi edition) Ane Books Pvt. Ltd. Delhi
7. S.K. Singh, Public Finance, S. Chand Publishing, New Delhi
8. D. M. Mithani, Modern Public Finance: Theory and practice (Under Indian Perspective) Himalaya Publishing House, New Delhi
9. H.I. Bhatia, Public Finance
10. J.C. Pant, Lokvitt ¼yksdfoRr½
11. Report of 14th Finance Commission
12. Economic survey, Government of India available at Indian budget.nic.in
13. 'State Finance; A study of Budgets RBI, https://rbi.org.in and www.nipfp.org.in
14. Annual Report, Ministry of finance, Government of India available at dea-gov.in
15. RBI Handbook of Statistics on Indian Economy Available at https://rbi.org.in
16. RBI Handbook on State Government Finance at https://rbi.org.in
17. Central Budget, Government of India at www.indianbudget.nic.in
18. Public Finance Statistics, Government of India at dea.gov.in
19. State development monitor, monthly issues, Ph.D Chamber, New Delhi at www.phdcci.in.

This Course can opt as an elective/ value-added course by the students of the following subject: Open to all

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: Second	Semester: III / IX
Subject: Economics		
Course Code: 0910802	**Course Title: RESEARCH METHODOLOGY**	**(Theory)**
Course Objectives- This paper is designed to make the students well versed with entire process of research work. The main aim of this paper is to clarify the students with the concepts and steps of research and equip him/her to formulate a research proposal.		
Credits: 5	Core	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**Introduction to research:** Research Concept, Meaning, Objectives, Significance. Types, Approaches, Difference between Social Science Research and physical Science Research, Research problem- selection, Need, Techniques involved an illustration.	15
II	**Research Designs and Research Proposal:** Research Design Meaning, Need, Function types, techniques an illustration, formulation of a research proposal an illustration, literature Review and Reference Collection.	15
III	**Data Collection And Sample Design:** Data Collections Methods, Observation, Interview, Questionnaire, Schedules Sampling design, Criteria of Selecting a Sample, Characteristics of a Good Sample, Types of Sample design probability & non probability sampling, Random & non random sampling, Sample Size and its Determination, Various Approaches, collection of secondary Data, Case study.	15
IV	**Hypothesis:** Formulation of Hypothesis, Null and Alternative Hypothesis, Testing of Hypothesis Basic Concepts, Procedure for Hypothesis Testing, important parametric Test. Z.t.F and Chi-Square Test, Analysis of Variance and co-variance, Co-efficient of Determination.	15
V	**Report writing and Data Sources:** Report Writing Significance, Steps Involved, layout of Research Report, Ethical Issues in Research and plagiarism. **Data Sources-** National Sample Surveya (NSSO), National Account Statistics (NAS), Indian Public Finance Statistics, Government of India Statistics- Data on Agriculture, Annual Survey of Industries, Census of India, RBI Bulletin and publications, Data on International Trade, CMIE Data, Transport and other statistics, NFHS survey, Important International Data- UNO, WHO, IMF, World Bank, UNDP etc.	15
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		
Suggested Reading: (Please refer to the latest editions) 1. C.R. Kothari, Research methodology, New Age International publications, New Delhi.		

2. C. Murthy, Research methodology, Vrinda publications, Delhi, 3. L.N. Kohli, Research Methodology, Y.K. publications, Agra. 4. S.P. Gupta, Statistical Methods, S. chand & Sons, New Delhi.
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: Second	Semester: III / IX
Subject: Economics		
Course Code: 0910803	**Course Title: INTERNATIONAL ECONOMICS**	**(Theory)**
Course Objectives- This course has become more relevant with rising globalization and liberalization. This course will provide an understanding of principles and theories which tend to government the free flow of International trade and movement of capital.		
Credits: 5	Core	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**Introduction to International Economics-** International economics Importance, Subject matter; International trade and economic growth: Tools for analyzing international economics- production possibility, community indifference curve, box diagram, offer curve, reciprocal demand; current international economic problems.	15
II	**Theories of International Trade:** Distinguishing features of Internal and international trade; The pure theory of international trade; Theories of absolute advantage, comparative advantage and opportunity cost, Heckscher-Ohlin theory of trade, factor price equalization theory, Rybczynski Theorem. The Leontief Paradox; Modern Theory of International Trade: Vent for Surplus Approach, Availability Approach (I.B. Kravis)	15
III	**Trade Policies:** Free Trade Versus Protection, Trade Policies; concept and types; Tariff and non tariff barriers (quota, VERs Government procurement, safety, health, environmental and technical barriers), export subsidies; Theory of tariffs; types, welfare effects, effective protection; Theory of dumping, Anti dumping measures; A general theory of customs union, political economy of non tariff barrier.	15
IV	**The Foreign Exchange Market:** Concept Functions and types; Determination of rate of exchange under conditions of inconvertible paper currencies- purchasing power parity and balance of payment theories: Fixed versus Flexible exchange rates, fluctuations in exchange rates causes and consequences; foreign Trade Multiplier. Balance of payment: Composition, Equilibrium and Disequilibrium, Adjustment Mechanism.	15
V	**India's Foreign Trade:** Structure, Volume, Trends, Composition, Direction, etc, Expert performance and Export Competitiveness; India's Trade policy; Review of pre and post Liberalization, India and WTO; concerns of Advanced countries and Developing Countries, Concerns of India; Effects of Trade (Liberalization and Globalization) on poverty, inequality, Environment, Gender, Labour Standards, Technological Transfers etc.	15

Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.
Suggested Reading: (Please refer to the latest editions) 1. Salvatore D (1997). International Economics, PHI, New York. 2. Dana, M.S. (2000), International Economics, Routledge publications, London. 3. Carbough. R.J. (1999), International Economics, Ohio South- Western Cengage Learning Mason. 4. Bhagwati, J. (1981), International trade, Cambridge University press, London. 5. Mcade, James Edward (1952), A Geometry of International trade, George Allen and Unwin Ltd, London. 6. Roy, P.N. (1986), International Trade; Theory and Practice, Wiley Eastern Ltd, New Delhi. 7. Sodersten. Bo (1991), International economics, The Macmillan Press Ltd. London. 8. Kindlebarger, G.P. International Economics, R.D. Irwin, Homewood, King.
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: Second	Semester: III / IX
	Subject: Economics	
Course Code: 0910804	**Course Title: FINANCIAL INSTITUTIONS AND MARKETS**	**(Theory)**
Course Objectives- The objective of the course is to familiarize the students with Financial Institution and market.		
Credits: 5	Elective (a)	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**Nature and Role of Financial System:** Role of Financial sector in an economy, aboard view, Functions of financial system; Theories of financial development Credit Creation Theory, Financial Regulation and Financial Liberalization Theory, participants in FInancial sector, Role of Rate of interest, present value and future value of Income Internal Rate of Return, net Present Value- its application as an evaluation criterion.	15
II	**Financial institutions in India:** Depository Institutions and Non depository institutions; Banking in India; Commercial banks- growth and regional eswdistribution; co- operative banks- growth, structure and functions; Regional Rural Banks- role and functions, Development Banks- structure, working and role of NABARD and IDBI; Foreign banks in India and their impact on Indian banking sector, progress and present status of E- Banking in India, Current challenges faced by banking sector- Mergers and amalgamations, consolidations, Financial Inclusion, NPA.	15
III	**Non banking Financial Institutions in India:-** Definition, Nature, Significance and types provident funds, insurance companies, mutual funds, housing finance companies, merchant bank, venture capital funds, credit rating agencies and their growth in India, effects of NBFCs on the economy: Measures taken to promote and regulate their operations.	15
IV	**Financial Market in India:-** Structure of Financial Market in India, Functions of Financial Markets, Money Market and Capital Market, Debt Markets, Equity markets, Financial Service Markets, Financial Instruments- Money Market Instruments, Capital Market, Instruments And International Financial Instruments; Futures Markets- History, Hedgers, Speculators, Arbitrageurs; Market, Industrial Securities Market- Primary and Secondary Securities Markets, markets for shares, debentures, derivatives, futures and options, Regulations of Financial Markets; Important institutions- SEBI, IRDA, Stock Exchanges, etc.	15
V	**International Financial Markets:-** Nature and role of foreign exchange market, forms of foreign capital- Foreign Direct investment (FDI) pros and cons for FDI in India, Regulation of foreign investments- Foreign Investments Promotion Board; Working and role of IMF, IBRD, IDA, IFC; Role of Euro- Dollar and Euro Currency markets.	15

Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.
Suggested Reading: (Please refer to the latest editions) 1. Bhole, L.M. Financial Institutions and Markets. 2. Goldsmith. R.W. Financial Structure and Development. 3. Khan, M.Y. Indian Financial System 4. Prasad, K.N. Development of India's Financial System. 5. Machiraju. H.R. International Financial Markets in India. 6. Shaw. E.S. Financial Deepening in Economic Development. 7. Rangarajan, C. Indian Economics; Essays on Money and Finance. 8. Bhole, L.M, (2000), Indian Financial System, Chugh Publications, Allahabad. 9. Pathak, Bharati, (2009), The Indian Financial System, Pearson Educations Publication, New Delhi.
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: Second	Semester: III / IX
Subject: Economics		
Course Code: 0910805	**Course Title: COMPUTER APPLICATIONS IN ECONOMIC ANALYSIS**	**(Theory)**
Course Objectives- Economic being a dynamic subject and based on data analytics requires it more. This paper is to orient the students with the basic knowledge of the computers as well as the packages that are most useful in analysis of any data and their interpretation along with report writing and presentation. Emphasis will be more on practical part i.e. hands on experience of the students on the computers along with preparation and presentation of their report.		
Credits: 5	Elective (b)	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		

Unit	Topic	No. of Lectures = 75
I	**Computer Fundamentals:** Characteristics and components of computer (hardware and software both): Storage Devices; Other peripherals used with PC; Factors influencing PC Performance.	15
II	**Modern Information Technology:** Basic ideas of LAN, MAN, WAN, WWW, Internet and Email services, Internet technologies; Data protection on Internet; Ethical Issues in computing and Research.	15
III	**Introduction in Operating System:** Microsoft Word; creating, editing, formatting a document, Multimedia/power point presentation, Converting a word Document into various Formats.	15
IV	**Window Explorer:** Microsoft Excel; Preparing spreadsheet with entering and tabulating data in MS Excel; Basic Functions of Excel; Descriptive Statistics, Analysing Data and Obtaining Results, Regression statistics.	15
V	**Software Operation:** Orientation with different software used in statistics like SPSS, Strata, R, E-views, Mal lab etc, their characteristics, uses, advantages, weaknesses; Comparative Study of all software.	15

Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.

Suggested Reading: (Please refer to the latest editions)

1. Dhanasekaran, k, Computer Application in Economics, Vrinda Publication, New Delhi.
2. Sinha, P.K. Computer Fundamentals, BPB Pulications, New Delhi.
3. Parameswaran, R. Computer Applications in Business, S. Chand & Company Ltd. New Delhi.
4. Rajaraman, V. Fundamentals of Computers, Prentice Hall of India, New Delhi.
5. Sanders, D.H. Computers Today, McGraw Hill

This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: Second	Semester: III / IX
Subject: Economics		
Course Code: 0910806	**Course Title: ENVIRONMENTAL ECONOMICS**	**(Theory)**
Course Objectives- The Objective of the Environmental Economics is to provide students with the necessary training for the application of economic theory and analysis to natural resource and environmental management issues. The subject will impart understanding on the environmental regulatory approaches for correcting market failures, and making use of economic evaluation techniques to assess environmental issues and policies.		
Credits: 5	Elective (c)	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		

Unit	Topic	No. of Lectures = 75
I	**Environmental Economics: Meaning:** Nature, Scope and Significance, Economy- ecology and environment inter- linkages, environmental Costs of Economic Growth, Limits To Growth, Environmental Kuznets Curve; Natural Resources; Resources, Renewable and non renewable resources, Theories of Optional Use of Exhaustible And Renewable Resources, Resource, Taxonomy, Equitable use of resources for sustainable lifestyles.	15
II	**Welfare Economics and Environment Valuation:** Pareto Optimality and Competitive Equilibrium: Market Failures; Theories of Externality and Public Goods, Solution To Externality, Cease's Theorem, Property Rights And Transaction Costs; Free Rider's Problem, Optimal Provision Of Public Goods- Lindahl's Equilibrium; Common Property Resources- Tragedy Of Commons. **Environment Valuation:** Meaning And Types: Environmental Damages/ Benefits, Social Cost Benefit Analysis; Valuation Techniques- Market And Non Market; Scientific, Behavioral And Technological- Production Based, Contingent Valuation, Hedonic- pricing. Travel Cost Method, Risk Assessment.	15
III	**Environment Management Techniques:** Cost Benefit Analysis, Environmental Impact Assessment, Environmental Audit. Theory of Environmental Policy Environmental regulations- promoting Coasian markets; pigouvian taxes; command and control verses market based instruments; Effluent and emission taxes verses tradable permits; The tools in practice; Micro planning for environment and eco-preservation- water sheds, joint forest management and self- help groups.	15

IV	**Environment Pollution:** Definition Cause, effects and control measures, Climate change, global warming, acid rain, ozone layer depletion, Green House Effect, Nuclear accidents and holocaust; Consumerism and waste products, Role of an individual in prevention of pollution. **Sustainable Development:** Concept, indicators, Measurement and Strategies for Sustainable Development: current issues in sustainable Development; Green Economy; Green Manufacturing, Green Finance and Green Tourism.	15
V	**Environmental policy in India:** Mechanism for environment regulation in India; Environmental laws and their implementation; Global Environmental Governance: Ecological Footprint Analysis: policy instruments for controlling water and air pollution and forestry policy, Environment and human health, Poverty and Environment Degradation, people's participation in the protection of environment; Role of environmental education.	15

Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.

Suggested Reading: (Please refer to the latest editions)

1. Baumol, William J and Wallance E. Oates: The theory of environmental policy, Cambridge University press, 1988.
2. Fisher. A.C. Resource and Environmental Economics, Cambridge University Press, 1981.
3. Jadhav, H & Bhosale, V.M. 1995, Environmental protection and laws, Himalaya publication House, Delhi 284 p.
4. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental encyclopedia, Jaico publication house, Mumbai, 1196p.
5. Mhaskar, A.K. Mater Hazardous, Techno- Science Publication (TB)
6. Miller. T.G. Jr Environments Science, Wadsworth publishing Co. (TB)
7. Odum. E.P. 1971, Fundamentals of Ecology, W.B. Saunders Co. USA. 574p.
8. Rabindara, N.B. 2001, Environmental Economics- An Indian Perspective, Oxford University Press, New Delhi.
9. Charles, S.P. 2000, Economics and Global Environment Cambridge University press, Cambridge.
10. Barry, C.F. and Martha. K.F. Environmental Economics, McGraw Hills. Irwin.
11. Hussain, A.M. 1999, Principals of Environmental Economics. Rutledge London.
12. Kolstad, C.D. 1999, Environmental economics, Oxford University Press, New Delhi.
13. Sankar, U. (ed.) 2001. Environmental Economics Oxford University Press, New Delhi.
14. Rajlakshmi, N and Dhulasi B. 1994, Environomics, Allied publishers Ltd. New Delhi.
15. Tara Singh, G.N. (Ed.) 1991, Environmental Economics, Mittal publications, New Delhi.
16. Arrow, K.J. P. Dasgupta, I.H. Goulder, K.J. Mumford and K. Oleson (2012): "Sustainability and Measurement of Wealth" Environment and development economics, 17(3):317-53.

This Course can opt as an elective/ value-added course by the students of the following subject: Open to all

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: Second	Semester: III / IX
Subject: Economics		
Course Code: 0910865	Course Title: Field Survey	(Practical)
Course Objective with outcomes- The objective of this course will help the students to get practical experience of various economic activates of the economy.		
Credits: 4	Core (Research)	
Max. Marks: 100 (Report Presentation)	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 0-0-4		
	General Outlines	
	The course will be evaluated on the basis of report submitted by the student after completing the field survey before the board of examiners.	
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all		
Suggested Continuous Evaluation Methods: Assignment, Report, PPT presentation, and Viva-Voice.		
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.		

Programme/ Class: M.A	Year: Second	Semester: IV / X
Subject: Economics		
Course Code: 1010801	**Course Title: INDIAN ECONOMY**	**(Theory)**
Course Objectives- The basic objective of this paper is not only to orient the students about basic features and indicators of Indian Economy but to orient them with the current problems of the Indian Economy and also future challenges so that they may be able to find out the solutions to solve these problems.		
Credits: 5	Core	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**Structure of Indian Economy:** Basic Features of Indian Economy, Basic Economic indicators and their Importance, Economic Growth in India, Pattern and Structure Resource Utilization, Natural and Human, Infrastructure Development Physical- Energy, Transport, Communication; Social- Education, Health, Sanitation.	15
II	**Problems of Indian Economy:** Poverty and Income Inequalities in India Multi dimensional poverty index, Unemployment, Changing Nature and Dimensions, Current employment programmes of Government of India, Human development Index, Gender Development Index, Sustainable Development Goals 2030, Environment Degradation and Economic Development.	15
III	**Agriculture and Rural Development:-** Agriculture pattern and Structure Of Growth Major Challenged and policy Responses, New Agricultural policy, Evergreen Revolution, Concept and Strategies, New Age Farming, Doubling Income of Farmers, Major Challenges and Policies, Role of International agencies in Agriculture. Rural Development Issues, Challenges and policy Response, Recent Rural Development programmes of India.	15
IV	**Industry and Service Sector:** Industry; Structure and Pattern of Growth, Major Challenges, policy Responses, New industrial policy, Industrial Development programmes in India, Industrial Finance, private Sector Industries; their performance and problems. Service Sector: Structure, Contribution and pattern of Growth, Major Challenges and Policy Responses.	15
V	**Other Issues:** Urban Development Issues, Challenges and policy Responses, post-Liberalization Reforms of Indian Economy; Banking industrial, Labour and Capital	15

	Markets, MNCs and Their Impact on Various Sectors, Issue of Universal Basic Income (UBI), Regional Imbalances in India, Causes and Policy Measures.	

Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.

Suggested Reading: (Please refer to the latest editions)

1. Mishra & Puru, Indian Economy, Himalaya Publications (Latest Edition Both Hindi and English)
2. Dutt& Sundram, Indian Economy, S. Chand & Co. New Delhi (Latest Edition Both Hindi and English|)
3. Panagariya, Arvind, India: The Emerging Giant, Oxford University Press.
4. Kapila, Uma, Indian Economy: performance and policies (2018-19) 19th Edition.
5. Karuppiah, Sankarganesh, Indian Economy: Key Concepts (2018-19)
6. Sinha, Y & Srivastava, V.K, The future of Indian Economy: Past Reforms and Challenges Ahead (2017).
7. Dreze, J and A.K. Sen (2013), Uncertain Glory: Indian and Its Contradiction by Princeton University press.
8. Kapila, Uma (2015), Indian Economy; performance and policies; 2015-16, Academic Foundation.
9. Kapila, Uma (Ed.) (2014), Indian Economy since Independence, 25th edition, Academic Foundation, Delhi.
10. Nagaraj R. (Ed.) (2012), Growth Inequality and Social Development in India; Is Inclusive Growth possible, London, Palgrave Macmillan.
11. Panagariya, Arvind (2008), India: The Emerging Giant, Oxford University Press.
12. NITI Aayog, Strategy for New India @75 (2018)
13. Economies Survey (Annual), Government of India.
14. India Year Book (Annual), Government of India.
15. UNDP Report (Annual)
16 Report on Currency and Finance (Annual) RBI.
17. Central Budget (Annual) Government of India.
18. Indian Economy (Special Issue Annual), Pratiyogita Darpan.
19. SDG India Index- Baseline report 2018 available at https://niti.gov.in/content/org-india-index-baseline-report-2018-2.

This Course can opt as an elective/ value-added course by the students of the following subject: Open to all

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

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Programme/ Class: M.A	Year: Second	Semester: IV / X
Subject: Economics		
Course Code: 1010802	**Course Title: DEMOGRAPHY**	**(Theory)**
Course Objectives- Now-a-days population is considered to be a resource rather than a burden provided a country does appropriate man power planning converting its population into a human resource. For this it applies various techniques. The main objective of this paper is to orient the students with the positive aspect of the population how it can help economic development of a country provided it is converted into human resource. This paper not only orients the students with various concepts of population but the quantitative and qualitative aspect of population along with various demographic techniques. The paper exposes the students with the recent concepts and developments in demography.		
Credits: 5	Core	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**Demography:** Meaning, scope and Importance, Components of population growth and their inter dependence, Population and Economic Development, Theories of population; Malthusian Theory, Optimum Theory, stages of Demographic Transition.	15
II	**Demographic Measurements:** Concept, importance and measurement of Fertility, Mortality, Mobility and Nuptiality.	15
III	**Population projection:** Types and Methods, Concept Of Stationary, Stable and Quasi-Stationary Populations, Ageing of Population, Changes in Family Structure and Old age Security; population pyramids, life table, construction and uses, International aspects of population growth and distribution, migration; measures, types, causes and consequences, Urbanization in India.	15
IV	**Demographic profile of India:** Sources of Demographic data, Census 2011, Growth and Distribution of population in India, Fertility Patterns, Mortality Rates, Birth and Death Rates, Age Structure and Sex Structure, life expectancy, rural urban ratio, literacy rates, density, Migration trends, growth of population in India: Inter state variations, India's current population policy Family welfare programmes in India, Demographic profile of students City/ Village/ District.	15
V	**Latest Issues in Demography:** Qualitative Demography; Man Power Planning, Population and Human Capital Formation; Demographic Dividends; Population Environment and Economic Development, population Education and Health education.	15

Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.
Suggested Reading: (Please refer to the latest editions) 1. Barclay, G.W. Techniques of Population Analysis, New York. 2. Jhingan, Bhatt& Desai, Demography, Vrinda Publications, New Delhi. 3. Gupt, Shivnarayan, Fundamentals of Demography, Vrinda Publications, New Delhi (Hindi Edition) 4. Ghosh, B.N. A Dictionary of Demography, Arnold Heinemann publication, New Delhi 5. Thomas, R.K. Concepts, Methods and Practical Applications in Applied Demography, Springer (2018) 6. Poston, Jr. L.D & Bouvier, L.P. Population and society: An Introduction to Demography (2017) 7. Harper, Sarab, Demography, A very Short Introduction, Oxford University press (2018) 8. Mishra. J.P. Demography (Hindi Edition), Sahitya Bhawan publications. 9. Majumdar. P.K, India's Demography, Changing Demographic scenario in India. 10. Census of India publications. 11. United nations and world Bank Reports (Latest) 12. NSSO (National Sample Survey Organizations) Reports (Latest) 13. NFHS (National Family Health Survey) 3 & 4 Reports. 14. District census handbook (Latest) 15. Bhende, Asha. A. and Tara kanitakar, principles of population studies, Himalaya publishing house, Mumbai.
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: Second	Semester: IV / X
Subject: Economics		
Course Code: 1010803	**Course Title: INDIAN PUBLIC FINANCE**	**(Theory)**
Course Objectives- This paper combines a thorough understanding of fiscal institutions with a careful analysis of the issues which underline budgetary policies in general and Indian experience in particular.		
Credits: 5	Core	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**Public Expenditure: -** Expenditure on revenue account and capital account. Development and non-development expenditure; Plan and non-plan expenditure; General trend of Government of India expenditure; Expenditure of state Government; Fiscal Responsibility and Budget Management act 2003 (key features); Key features of State finances.	15
II	**(a) Union Government Taxes:** Direct and indirect Taxes; sufficiency issue, The problems of tax compliance and tax evasion, the effect of unaccounted money on social and economic system. **(b) State Government Taxes:** Sources of state revenue, Value Added Tax (VAT), Central Sales Tax (CST) and Goods and service tax (GST), Major trends of State revenue.	15
III	**Local Finance in India:** Local bodies in India. Powers of Municipal Corporation; Functions of municipal corporations; Powers and function of village panchayats, Panchayat Samitis and Zila Parishads; State Finance Commissions and local finance.	15
IV	**Deficit Financing:** Various concepts of deficits, Why deficit financing, Advantages and risk of deficit financing, Modes of deficit financing; and deficit financing in India- present policy.	15
V	**Indian Federal Finance:** Federal financial structure after independence, Division of functions, Division of resources between Centre and States; Financial imbalance mechanism of financial adjustments; Gadgil Formula; Pranab Formula; Finance Commissions (FCs) and their recommendations (last 3 FCs); Review of Centre- State financial relations in India.	15
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		

Suggested Reading: (Please refer to the latest editions)

1. Bagchi, A. 2006, Reading in public finance, Oxford University Press.
2. Srivastava, D.K. (ed.) (2000), Fiscal Federalism in India: Contemporary challenges; NIPFP, New Delhi.
3. Sury, M.M. (1998), Fiscal Federalism in India; Indian Tax Institute, Delhi.
4. Sury, M.M. (ed.) (2008), Taxation in India: 1925 to 2007, New Century, Delhi
5. Hajela, T.N. (2009), Public Finance, Ane Books Pvt. Ltd. New Delhi.

6. Srivastava, D.K. (ed.) (2004), State Level Fiscal Reforms in India, vol. I & Vol. II, Deep & Deep publications, New Delhi. 7. Sudipto Mundle (ed.), Public Finance, Oxford University press, New Delhi. 8. Vital, B.P.R. and Sastry, M.L. (2001), Fiscal federalism in India, Oxford University Press, New Delhi. 9. Edgardo, M. Favaro and Lahiri, Ashok K. (2004), Fiscal |Policies and sustainable growth in India; Oxford University Press, New Delhi. 10. Government of India, Economic Survey. 11. R.B.I. Bulletin, R.B.I. Mumbai. 12. Reports on currency and finance, R.B.I. Mumbai. 13. Public finance statistics, Govt. of India. 14. Economic survey of India.
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: Second	Semester: IV / X
Subject: Economics		
Course Code: 1010804	**Course Title: RESOURCE ECONOMICS**	**(Theory)**
Course Objectives- Students will come to know about market, students will learn to design regulation which corrects market failure and they will learn will learn how to regulate pollutions that travel across country boundaries and how environmental regulations affect trade flows.		
Credits: 5	Elective (a)	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	The theory of Externality and Public Goods: Concepts, Market Failure, Pigouvian Solution, Buchnan's Theory, Soase's Theorem and its Critique. Pigouvian vs. Coasian solution; Detrimental externality and non convexities in the production set.	15
II	Property rights, Collective action Measurement of Environmental Values. Use Values: Option Value and Non Use values Techniques of Valuation: Market and Not Market Valuation Physical Linkage Methods, Abtement Cost Methods; Behavior Linkage Method Revealed and Stated Preference, Social Cost Benefit Analysis.	15
III	Environmental impact assessment, Hedonic property values and house hold production models (Travels cost method and household health production function). Methods based response to hypothetical markets, Contingent Valuation Methods.	15
IV	Environmental and Natural resource policy and strategies, Evolution of Environmental Policy, Economics of Environmental Policy Protection, Conservation, Policy Instruments, Pigouvian Tax and Subsidies, Tradable Permits and Fees, Price vs. Quantity instruments, Mixed instruments, Monitoring and Enforcement Issues, India's Environmental Policy and Performance, International Environmental Policy, Environmental Planning and Management, Macroeconomic Policies and Environment, People's Participation.	15
V	Population and Environment, Poverty and Environment, Trade and Environment in the WTO regime, Ecolabeling, Economics of Climate Change, Causes and Consequences of Ozone Depletion and climate change. Rio and other than Rio Conference, Protocols and Treaties relating to climate change and Environmental Degradation, Ozone depletion and Bio diversity.	15
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		
Suggested Reading: (Please refer to the latest editions)		

1. C.D. Kolstad: Environmental Economics. 2. R.N. Bhattacharya: Environmental Economics. 3. U. Shankar: Environmental Economics. 4. N. Hanley, Shogren. B. White: Introduction to Environmental economics. 5. Haab and White head: Environmental and Natural Resource Economics. 6. Haab and Huang. Preference data for environmental valuation 7. Tom Tietenberg and Lynne Lewis: Environmental and Natural Resource Economics. 8. David A. Anderson: Environmental Economics and Natural Resource. 9. Down to Earth, Science and Environment Fortnightly. 10. Economic and Political Weekly.
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: Second	Semester: IV / X
Subject: Economics		
Course Code: 1010805	**Course Title: AGRICULTURAL ECONOMICS**	**(Theory)**
Course Objectives- The objective of this course is to provide a detailed understanding of issues in agricultural economics to those intending to specialize in this area. Its objective is to familiarize students with policy issues that are relevant to Indian agricultural economics and enable them to analyze the issue.		
Credits: 5	Elective (b)	
Max. Marks: 25+75 {Internal + External }	Min. Passing Marks: 40	
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of Lectures = 75
I	**(a) Agricultural Economics:** Meaning, Nature and Scope, Role of agriculture in economic development. **(b) Agricultural Inputs:** Seeds, Fertilizers, Irrigation, Agricultural Finance: sources of credit and Credit policies, Kisan Credit Card (KCC) & Primary agriculture co-operative societies.	15
II	**(a) Agricultural Production:** Laws of returns in relation to agriculture; Technological changes and green revolution, Mechanization of agriculture and green revolution in India, Blue revolution & white revolution in India. **(b) Supply Function:** Response of production to prices and non- price incentives; Cobweb models: Nature of supply curves.	15
III	**Agricultural Prices:** Relation between cost and price, Profit maximization in agricultural, Agricultural price policy in India and the role of Commission for Agricultural Cost& Prices, Dual Prices; Agricultural taxation and subsidies in India, Agriculture Marketing.	15
IV	**Farm Management:** Farm size and productivity- returns to scale and size of farm, small v/s lare farms, relationship between farm size and productivity. Pattern of holdings in India and Farm- size policy, Agri-business and Entrepreneurship.	15
V	**(a)** Changes in agriculture at international level, New Agricultural Policy, Capital Formation and Infrastructural changes in Indian agriculture. **(b)** Agriculture and External Sector: International trade in agricultural commodities. The World Trade Organization and its effects on Indian agriculture, issues in liberalization of domestic and international trade in agriculture, Role of MNCs.	15
Teaching Learning Process: Class discussion/ demonstrations, Power point presentation, Class activities/ assignment, Field visits, internship, etc.		
Suggested Reading: (Please refer to the latest editions)		

1. R.L. Cohon : Economics of Agriculture. 2. E.O. Heady : Economics of Agriculture 3. E.B. Marmoria: Agricultural |Problems in India 4. J.W. Mellor : The Economics of Agricultural Development 5. P.C. Joshi : Land Reforms in India- Trends and Perspectives. 6. R.N. Soni : Agricultural Economics.
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all
Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.
Suggested Equivalent online course: Suggestive digital platforms web links - ePG - Pathshala , IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.

Programme/ Class: M.A	Year: Second	Semester: IV / X
	Subject: Economics	
Course Code: 1010865	**Course Title: Research Project**	**(Practical)**
Course Objective with outcomes- The objective of the course is to make the students to learn the skills to choose the research problem, objectives hypothesis, data collection and analyse it.		
Credits: 4	Core (Research)	
Max. Marks: 100 (Report Presentation)	Min. Passing Marks: 40	
Total No. of Lecture- Practical (in hours per week): L-P: 1-4		
	General Outlines	
1	Each student has to submit a research project	
2	The Format of the Project (a) Introduction & Review of Literature. (b) Research and methodology (c) Theoretical description (d) Analysis & Interpretation (e) Conclusion, Suggestions& Scope for further research (f) References, Annexture	
3	The Project report would be evaluated in the form of report and viva-voce by the board of examiners.	
This Course can opt as an elective/ value-added course by the students of the following subject: Open to all		
Suggested Continuous Evaluation Methods: Assignment, Report, PPT presentation, and Viva-Voice.		
Further Suggestions: It widens the scope for MA Economics students to join Government and Non - Government organization up skilling the people at different levels as per their socio-economic structure.		

STRUCTURE OF THE PROGRAMME

Department of Economics
Syllabus Structure for Pre-Ph.D. Coursework (Economics)

PGDR(Post Graduate Diploma in Research) in Economics as per NEP2020 OR
Pre-Ph.D. Course Work in Economics
Effective From (2022-2023)

		Paper Code	Core/Elective/ Value Added	Title Paper	Theory/ Practical/ Project	Credits	Internal Marks	External Marks (MinMarks)	Total Marks	Minimum Marks (INT+EXT)	Teaching Hours Theory + Tutorial
Year-6 as per NEP2020/Year - 1	**Semester XI as per NEP2020/Semester -I**	1110801	Core Compulsory	Research Methodology and Computer Applications	Theory	4	25	75(25)	100	55	4x15=60
		1110802	Core Compulsory	Selected Issues In Indian Economy	Theory	6	25	75(25)	100	55	6x15=90
		1110803	Core Compulsory	Research Ethics, Plagiarism and Computer Applications	Theory	6	25	75(25)	100	55	6x15=90
			Core Compulsory	**Survey/Research Project**			**Qualifying**				

Examination Pattern

Internal Examination:

1. One written Test of 20 Marks.(5 Marks Quiz + 15 Marks (Very Short + Short + Long Question))

2. Five Marks for Class performance/Attendance.

External Examination: Written Exam of 75 marks 3Hrs Duration.

External Exam Pattern:

Unit-I : Attempt all five question . Each question carry 3 marks.

Unit- II : Attempt Any Two out of three. Each Question carry 7.5 marks each.

Unit-III : Attempt Any Three out of Five. Each Question carry 15 marks each.

Minimum Marks:

1. In each individual paper Forty Marks i.e. 40% with aggregate of 55% in all courses.

2. Division: First Division - CGPA 6.5 and Less than 10, Second division - CGPA 5.5 and less than 6.5. There is no provision of Third division.

Equivalent Percentage = CGPA x 9.5

Note: Percentage and Grading system applicable as per NEP2020 GO 1032/Sattar-2022-08(35)/2020, Higher Education Division -3, Lucknow Dated 20.04.2022

PROGRAMME OUTCOMES (PO's)

Economics as a subject is long-established discipline whose relevance to the world of business, government, international r-elations and academia is widely acknowledged. The Pre - Ph.D. course work exhibit new dimensions in the Economics and its allied disciplines. The curriculum has a strong theoretical and quantitative focus with hands - on the use of computers and statistical software that research students find useful in their research work and professional careers in academics, research institutions. Entry into the Ph.D. programme is based on Ph.D. entrance test / UGC - JRG / UGC - NET along with postgraduate degree in Economics and allied disciplines. After completing the Ph.D. in Economics the student may have career / employment opportunities in academic and research institutions in the fields of Economics, Business Administration, industrial organization, banking and non - banking financial institutions, etc.

PROGRAMME SPECIFIC OUTCOMES (PSO's)

PSO - 1: The students who undergo this programme would be able to understand the challenges, problems & issues prevailing in Indian economic matters, critically analyze policies and programmes of government.

PSO - 2: It is expected that after successfully completing the Pre - Ph.D. course - work a student would be well - equipped to identify research gaps and define a specific research problem.

PSO - 3: It enables a student to develop specific objectives of his / her research and frame research hypotheses.

PSO - 4: This programme develops skills of a student to compile the data, analysis and interpretation of data and draw statistical inference. It also trains a student for report and manuscript writing.

Programme/ Class: Ph.D.		PAPER I
Subject: Economics		
Course Code: 1110801	**Course Title: RESEARCH METHODOLOGY AND COMPUTER APPLICATIONS**	**Theory**
PREAMBLE This paper is designed to make the student well conversant with entire process of research work. The main aim is to clarify concepts like formulation of research proposal, research design and to equip the student with appropriate tools for correct interpretation. Learning utility of computer application in social research is also an essential component of the course.		
Credits: 4		
Max. Marks: 100		Min. Passing Marks: 55--
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of lecture - 60
I	Meaning and Significance of Social Research. Difficulties in Social Research, Difference between Social Research and Research in Physical Sciences, Scientific Methods, Ethics in Research.	10
II	Research process, Formulation of a Research Proposal and Research design.	10
III	**(a):** **Methods of Data collection:** Nature of data (primary & secondary data), Collection of primary data, observation methods, interview methods, Questionnaire & Interview Methods of Collecting Primary Data, Collection of secondary data, Case study. **(b):** **Data Sources:** National Sample Surveys, National Accounts Statistics, Indian Public Finance Statistics, Data on Agriculture and Agricultural production, R.B.I. publications, Annual Survey of Industries, Census of India, Data on International trade, Transport and other Statistics, Important government publication.	10
IV	**(a):** **Statistical Inference:** Formulation of Hypothesis: Null and Alternative Hypothesis, Testing of Hypothesis, Sampling Distribution and Standard Error, Confidence Interval and Level of Significance. Tests of Significance based on z, t, F, and Chi-square, Analysis of variance and covariance and Coefficient of determination. **(b):**	10

	Linear Regression Model – Estimation of parameters and tests of their significance and Second order tests.	
V	Interpretation and Report writing.	10
VI	**Use of Computers in Research and presentation**: MS Office application, Use of SPSS in Research; Working with MS Excel, Page-Maker, MS Power Point, Graphics, Tables and Charts, Converting a word document into various formats.	10

Suggested Reading: (Please refer to the latest editions)

Basic Reading List:

1. Lundberg, George A., Social Research, Long mans, Green and Co., New York, London.
2. Karmel and Polasek, Applied Statistics for Economics.
3. Kumar, Ranjeet, Research Methodology.
4. Young, P.V., Scientific Social Surveys and Research.
5. Gujrati, D. N., Basic Econometrics.
6. Best, J. W., Research in Education.
7. Sanders. D.H., Computers Today, McGraw Hill (3rd Edition), New York.
8. Sinha, P.K., Computer Fundamentals, BPB Publications, New Delhi.
9. Tandon, B. C, Social Research
10. Mishra, R. P., Research Methodology

Additional Reading List:

1. Anderson, T. W., An Introduction to Multivariate Statistical Analysis, John Wiley, Wiley, New York.
2. Dooley, David, Social Research methods, Prentic-Hall of India, New Delhi.
3. Goode, W.J. and Hatt. P.K., Methods in Social Research, New York: Mc Graw, International Students Edition.
4. Gupta, S.P., Statistical Methods, New Delhi: Sultan Chand and Sons Publication.
5. Kvale, Steiner, Inter Views: An Introduction to Qualitative Research Interviewing, Sage London.
6. Rajaraman, V., Fundamentals of Computers, Prentice Hall of India, New Delhi.
7. Mirsky, L., Introduction to linear Algebra, Oxford University Press.

Programme/ Class: Ph.D.		PAPER II
Subject: Economics		
Course Code: 1110802	**Course Title: SELECTED ISSUES IN INDIAN ECONOMY**	**Theory**
PREAMBLE The main objective of this paper is to include discussion on various exogenous and endogenous factors responsible for India's economic reforms. In the competitive global era different sectors of economy interact to perform for sustainable coexistence.		
Credits: 6		
Max. Marks: 100		Min. Passing Marks: 55
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	Total no. of lecture – 90
I	India's Economic Reforms.	10
II	Growth, Sectoral Composition, Poverty and Unemployment.	10
III	Agricultural Development: Technological change, Price Policy & Land Reforms.	10
IV	Industrial Development; its different phases.	10
V	Intellectual Property Rights TRIPs and their implications.	10
VI	Foreign Trade, Trade Policies and Balance of Payments.	10
VII	Foreign Trade, Trade Policies and Balance of Payments.	10
VIII	Fiscal Policy and Fiscal Reforms, Indian Financial System.	20

Suggested Reading: (Please refer to the latest editions)

Basic Reading List:

1. Ahluwalia, I. J. and I.M.D. Little (Eds.), India's Economic Reforms and Development.
2. Bawa, R. S. and P.S. Raikhy (Ed.), Structural Changes in Indian Economy.
3. Chakravarty S., Development Planning: The Indian Experience.
4. Dantwala, M. L., Dilemmas of Growth: The Indian Experience.
5. Byres, T. J. (Ed.), The Indian Economy: Major Debates Since Independence.
6. Ahluwalia, I. J., Industrial Growth in India.
7. Rangarajan, C., Indian Economy: Essays on Money and Finance.
8. Gupta, S. P., Post-Reform India: Emerging Trends.

Additional Reading List:

1. Brahmananda, P. R. and V. R. Panchmukhi (Eds.), Development Experience in the Indian Economy.
2. Jalan, B., India's Economic Policy-Preparing for the Twenty First Century.
3. Chelliah, Raja J. and R. Sudarshan, Income, Poverty and Beyond: Human Development in India.
4. Alternative Economics Survey (Annual Issue), Daanish Books, New Delhi.

Programme/ Class: Ph.D.		PAPER III
Subject: Economics		
Course Code: 1110803	**Course Title: Research Ethics, Plagiarism and Computer Applications**	**Theory**
PREAMBLE		
Credits: 4		
Max. Marks: 100		Min. Passing Marks: 55
Total No. of Lecture-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topic	No. of lecture - 90
I	Roles and Responsibility of a Researcher, Gradate Attributes, Systematic Review, Publishing Journal / Articles , Stress Management . Quantitative Research software, Qualitative Analysis software. Plagiarism, Open Educational Resources and Creative Commons, Intellectual Property Rights. Scholarships, Field Work, MOOCS .	45
II	Google Docs , Google Sites , Advanced Searching Through Google Scholar. The Art of Presenting . Safe Browsing, E - Content Development, Artificial Intelligence for Research, Reference Management Software's, Software's for Data Collection, Mind Map, Concept Mapping. SPSS , STATA .	45

Suggested Reading: (Please refer to the latest editions)

1. C.T. Kurien: A Guide to Research in Economics
2. C.R. Kothar: Research Methodology
3. J.W. Creswell: Research Design, Qualitative, Quantitative and Mixed Methods Approaches
4. Teacher's E - Content and Some Online Resources