

NATIONAL EDUCATION POLICY-2020
Common Minimum Syllabus for all
Uttarakhand State Universities and
Colleges



Syllabus Proposed
2023-24

Sri Dev Suman Uttarakhand University
Badshahithol, Tehri (Garhwal)

पाठ्यक्रम निर्माण समिति, उत्तराखण्ड
Curriculum Design Committee, Uttarakhand

क्र० सं०	नाम एवं पद	
1	प्रो० एन० के० जोशी कुलपति, श्रीदेव सुमन उत्तराखण्ड विश्वविद्यालय, टिहरी	अध्यक्ष
2	कुलपति, कुमाऊँ विश्वविद्यालय, नैनीताल	सदस्य
3	प्रो० जगत सिंह बिष्ट कुलपति, सोबन सिंह जीना विश्वविद्यालय, अल्मोड़ा	सदस्य
4	प्रो० सुरेखा डंगवाल कुलपति, दून विश्वविद्यालय, देहरादून	सदस्य
5	प्रो० ओ० पी० एस० नेगी कुलपति, उत्तराखण्ड मुक्त विश्वविद्यालय, हल्द्वानी	सदस्य
6	प्रो. एम० एस० एम० रावत सलाहकार—रुसा, रुसा निदेशालय, देहरादून	सदस्य
7	प्रो० के० डी० पुरोहित सलाहकार—रुसा, रुसा निदेशालय, देहरादून	सदस्य

National Education Policy-2020

Common Minimum Syllabus of Higher Education

SYLLABUS

**Bachelor Research in Economics [4th Year] / Master
in Economics [1st Year & 2nd Year]**

Prepared by –

Department of Economics

KUMAUN UNIVERSITY, NAINITAL

COURSE INTRODUCTION

The Course is designed for the students to pursue either 1 year Bachelor Research and 1 year Master or 2 years Post-Graduation with Economics in regular mode. The programme aims to inculcate economic thinking in students and help them in economic decision making. It aims to develop analytical view point in the students about the economic behavior of the people. The objective is to nurture the students as socially responsible and ethically aware citizens. Keeping in the spirit of the National Education Policy 2020 to introduce research at the Graduation and Post-Graduation level, the students will have to complete a **Research Project** in each semester in this course.

Programme Outcomes (Pos) :	
PO 1	Economics subject enables the learners to build up professional carrier as economists, financial advisors, economics planners and policy makers. It prepares them to cope up with the stress and strain involved in the process of economic development.

Programme Specific Outcomes (PSOs) :	
Bachelor Research in Economics (4th Year)/ Master in Economics (1st Year)	
PSO1	To understand the Advanced concepts of Microeconomics.
PSO2	To understand the Advanced concepts of Public Finance.
PSO3	To understand the concepts of Research Methodology.
PSO4	To understand the Advanced concepts of Quantitative Techniques in Economics.
PSO5	To understand the concepts of Economics of Education and Health
PSO6	To understand the concepts of Rural Economics
PSO7	To understand the concepts of Economic Systems
PSO8	To understand the concepts of Cooperation
PSO9	To understand the concepts of Migration and Urbanisation
PSO10	To understand the concepts of Environmental Economics
PSO11	To understand the concepts of Financial Institution and Markets
PSO12	To understand the concepts of Regional Economics

Programme Specific Outcomes (PSOs) :	
Master in Economics (2nd Year)	
PSO1	To understand the Advanced concepts of Macroeconomics.
PSO2	To understand the Advanced concepts of Economics of Growth and Development.
PSO3	To understand the concepts of Advanced International Trade
PSO4	To understand the concepts of Population Theories and Demographic Analysis
PSO5	To understand the concepts of Economics of Infrastructure
PSO6	To understand the concepts of Econometric Analysis
PSO7	To understand the concepts of Agriculture Economics and Farm Management
PSO8	To understand the concepts of Industrial Economics and Entrepreneurship
PSO9	To understand the concepts of Economics of Informal Sector
PSO10	To understand the concepts of Gender and Development
PSO11	To understand the concepts of Advanced Computer Applications in Economics

ABBREVIATION –

[BRE]	-	Bachelor Research in Economics
[ME]	-	Master in Economics
[ECOMJ]	-	Economics Major Core
[ECOMJE]	-	Economics Major Elective
[ECORP]	-	Economics Research Project
[ECOMIE]	-	Economics Minor Elective

Bachelor Research in Economics /

Master in Economics

B.A.-4 Year/ P.G. -1 Year	SEM 7 [BRE] / SEM 1 [ME]	Advanced Micro Economics- I	[5 CREDITS]
		Advanced Public Finance- I	[5 CREDITS]
		Research Methodology	[5 CREDITS]
		Select any one – (a) Economics of Education & Health (b) Rural Economics (c) Economic Systems (d) Cooperation	[5 CREDITS]
		Research Project	[4 CREDITS]
	SEM 8 [BRE] / SEM 2 [ME]	Advanced Micro Economics- II	[5 CREDITS]
		Advanced Public Finance- II	[5 CREDITS]
		Advanced Quantitative Techniques in Economics	[5 CREDITS]
		Select any one – (a) Financial Institution and Markets (b) Migration and Urbanization (c) Environmental Economics (d) Regional Economics	[5 CREDITS]
		Research Project	[4 CREDITS]

CORE COMPULSORY PAPER

[SEMESTER 7] – Bachelor Research in
Economics

[SEMESTER 1] – Master in Economics

- **Advanced Microeconomics-I**
- **Advanced Public Finance-I**
- **Research Methodology**

Bachelor Research in Economics/Master in Economics			
Programme : Bachelor Research in Economics/ Master in Economics		Year 4/ Year 1	Semester 7 [BRE] Semester 1 [ME] Paper I
Subject : Economics			
Course Code : ECOMJ701 [BRE] ECOMJ101 [ME]		Course Title : Advanced Microeconomics-I	
Course Outcomes: The course will help in:			
<ul style="list-style-type: none">• Study of Advanced Micro-economics enables the students to have an understanding of theoretical and practical aspects of the subject.• Students will be able to understand consumer behavior, production, demand and supply analysis.• Students will learn about production, cost and revenue analysis.			
Credits : 5 Credits		Core Compulsory	
Max. Marks : 75		Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0			
Unit	Topic		No. of Lectures
I	Microeconomics & Macroeconomics; The Concept of Equilibrium; Introduction to Economic Modeling - Types and Techniques; Economic Static and Dynamic Analysis.		10
II	Significance of Demand function, Individual Demand & Market Demand, Law of Demand, Relation between Demand Function & Demand Curve, Factor Determining Demand, Demand for Durable Goods, Engel Curve, Giffin Goods, Derived Demand, Bandwagon Effect and Snob Effect. Elasticity of Demand: Various Concepts of Elasticity of Demand - Measure of Price Elasticity, Income Elasticity & Cross Elasticity of Demand.		18
III	Cardinal Utility Analysis; Indifference Curve Analysis; Revealed Preference Analysis; Consumer’s Surplus; Attribute Theory of Demand; Consumer Behaviour Under uncertainty & risky situation (Neumann-Morgenstern Method of Constructing Utility Index under conditions of risk).		17
IV	Returns to a Variable Factor; Isoquant Analysis, Production Function with Two Variable Inputs; Returns to Scale (Constant, Increasing & Decreasing); Cobb-Douglas Production Function, CES Production Function; Optimum Factor Combination;		15
V	Concept of cost. Theory of cost in short and long Run. Envelope curve. Economics of scale. Learning curve. Concept of Revenue. Total, Average and Marginal revenue.		15

Suggested Reading:

1. Ahuja, H.L., Advanced Economic Theory, S. Chand & Co., New Delhi.
2. Koutsoyiannis, A., Modern Microeconomics, Macmillan, London.
3. Roy Choudhary, K., Modern Micro Economics, Theory and Application, Vols. I, II & III, Dominant Publishers and Distributors, New Delhi.

4. Lipsey, R.G., Introduction to Positive Economics, ELBS, London.
5. Baumol, W., Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
6. Weintraub, E.R., General Equilibrium Theory, Macmillan, London.
7. Da Costa, G.C., Production, Prices and Distribution, Tata McGraw Hill, New Delhi.
8. Henderson, J.M. and R.E. Quandt, Microeconomic Theory: A Mathematical Analysis, McGraw Hill, Singapore.
9. Mishan, E.J., Welfare Economics: An Assessment, North Holland, Amsterdam.
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Suggested online link:

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www.swayam

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This course can be opted by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Degree as Economics one Major Paper.

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Degree as Economics one Major Paper.

Bachelor Research in Economics/Master in Economics			
Programme : Bachelor Research in Economics/ Master in Economics		Year 4 /Year 1	Semester 7 [BRE] Semester 1 [ME] Paper II
Subject : Economics			
Course Code : ECOMJ702 [BRE] ECOMJ102 [ME]		Course Title : Advanced Public Finance-I	
Course Outcomes: The course will help in: <ul style="list-style-type: none">This course will help the students to understand and analyze the impact of public finance on allocation of resources and the distribution of income.The students will be able to learn public expenditure, taxation and debt issues in economy.			
Credits : 5 Credits		Core Compulsory	
Max. Marks : 75		Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0			
Unit	Topic		No. of Lectures
I	Meaning, Scope & importance of public finance, The principle of Maximum Social Advantage, View of Mrs. Hicks: Production Optimum, Utility Optimum.		12
II	Major Fiscal Functions- Allocation, Distribution and Stabilization. Public goods, Private goods & Merit goods and Externalities. Functional and Activating finance.		13
III	Theories of Public Expenditure: Wagner’s law of Increasing State Activities; Wiseman- Peacock’s Hypothesis; Canons of public expenditure, Reason for an increasing in Public Expenditure, Effects of Public Expenditure on production, distribution and economic stability.		20
IV	Public Revenue: Financing of the Fiscal Economy: Structure of Government Income. Canons of Taxation. Incidences of taxation, Impact, Effects and shifting of a Tax, Direct Vs Indirect Taxes, Incidence under Perfect Competition, Monopoly, Income Tax (individual and corporation), wealth tax, Death Duty, Law of returns. Taxable Capacity.		15
V	Public Debt: Source, Composition and Ownership of Public Debt. Objectives of Public Debt, Debt Vs Tax, Debt Burden, Effects of Public Debt, Types of Public Debt, Repayment and Debt Management.		15

Suggested Reading:

1. Musgrave, R.A. and Musgrave P.B., Public Finance in Theory and Practice, McGraw Hill, New York.
2. Prest, A.R. and Barr, N.A., Public Finance in Theory and Practice, ELBS, London.
3. Buchanan, J.M., Public Finance, Irwin, New Y.
4. Prest, A. R., Public Finance in Under-developed Countries, Vikas, New Delhi.
5. Buchanan, J.M., Public Principles of Public Debt, Irwin, Homewood. Ill., USA.
6. Singh, S. K., Public Finance in Theory and Practice, S. Chand, New Delhi.

7. Bhatia, H.L., Public Finance, Vikas Publishing House, New Delhi.
8. Herber, B.P., Modern Public Finance, AITBS, New Delhi.
9. Reserve Bank of India, Monthly Bulletins.
10. Budget Papers of the Government of India.

This course can be opted by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Degree as Economics one Major Paper.

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Degree as Economics one Major Paper.

Bachelor Research in Economics/Master in Economics		
Programme : Bachelor Research in Economics/ Master in Economics	Year 4 /Year 1	Semester 7 [BRE] Semester 1 [ME] Paper III
Subject : Economics		
Course Code : ECOMJ703 [BRE] ECOMJ103 [ME]	Course Title : Research Methodology	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• The students will learn about research, its methods and its use in Economics• This course will help students to learn research design, data collection method, sampling and hypothesis.• The students will learn about interpretation of data.		
Credits : 5 Credits		Core Compulsory
Max. Marks : 75		Min. Passing Marks: 25
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Research – Definition, Meaning, Objectives, Types, Approaches, Motive, Significance. Methods of Research. Research Methodology Selection and Formulation of Research Problem.	14
II	Research Design – Meaning, Importance, Types, Characteristics, Significance and Methods. Formulation of Research Proposal – Illustration, Literature Review & Reference collection.	14
III	Data Collection Methods – Observation, Interview, Case Study, Survey, Preparation of Questionnaire & Schedules. Primary and Secondary Data. Basics of Sampling – Methods & Sampling Design, Measurement & Scales. Classification & Presentation of data.	17
IV	Formulation of Hypothesis – Meaning, definition, Characteristics, Need & Problems. Testing of Significance of Data (Large & Small Samples) – Parametric & Non-Parametric test (z, t, f & Chi-square). Analysis of Variance (ANOVA). Errors in hypothesis testing.	20
V	Interpretation of Data – Meaning, Need, Techniques. Report Writing – Principles of Good Report Writing, Steps, Presentation, Important Components. Different Referencing Styles & Plagiarism.	10

Suggested Reading:

1. R.N.Trivedi & D.P.Shukla : Research Methodology (in Hindi).
2. Kumar : Research Methodology.
3. ikjlukFk jk;] vuqla/kku ifjp;A
4. ,p0 ds dfiy] vu la/kkuq fof/k;akA
5. Tandon : Research Methodology in Social Sciences.
6. Kothari, D.S. : Research Methodology.
7. Economic Times, Financial Express and other Newspapers.

8. Economic Magazines.
9. Reports of various agencies.
10. Cauvery, R., ed.al., Research Methodology, S. Chand, New Delhi.
11. Sharma, Manoj, Research Methodology, Anmol Publications, New Delhi, 2004.

This course can be opted by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Degree as Economics one Major Paper.

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Degree as Economics one Major Paper.

CORE ELECTIVE PAPER

[SEMESTER 7] – Bachelor in Research

[SEMESTER 1] – Master in Economics

(SELECT ANY ONE)

- **Economics of Education and Health**
- **Rural Economics**
- **Economic Systems**
- **Cooperation**

Bachelor Research in Economics/Master in Economics		
Programme : Bachelor Research in Economics/ Master in Economics	Year 4 / Year 1	Semester 7 [BRE] Semester 1 [ME] Paper IV(a)
Subject : Economics		
Course Code : ECOMJE701 [BRE] ECOMJE101 [ME]	Course Title : Economics of Education and Health	
Course Outcomes: The course will help: <ul style="list-style-type: none">• The students to learn about economics of education and India's education system• The students to learn about health economics and health care system in India.		
Credits : 5 Credits	Core Elective	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
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, Benefits of Education- Direct and Indirect, Private and Social Benefits, Cost-benefit Model, Educational Indicators.	10
II	India's Educational System: Primary, Secondary and higher level, Problems and Suggestions for India's Education System, Human Development- concept and Measurement, Human Development Index of India, Human Capital in India, New National Policy on Education, Financing of Education in India, Expenditure on Education during Post-reform Period	15
III	Health Economics: Concept, Scope and Importance, Health Indicators, Determinants of Health Status, Economic Dimensions of Health Care-Demand and Supply of Health Care, Economic Appraisal in Health Care- Cost benefit, Cost effectiveness and cost minimization Approaches, Environment and Health, Poverty and Health	17
IV	India's Health Care System: Public Health Scenario in India- Burden of Diseases, Infant and Child Mortality Rates, Maternal Health, Infectious 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	18
V	Health Care Markets: Concept, Types and Importance, Health Insurance, Information Asymmetries in Health Insurance Markets, Externalities in Health Care Markets, Hospitals and the Theory of Non-Profits, Technological Change and Health Care, International Health Organizations- WHO and other UN Agencies	15

Suggested Readings

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, Elsevier publication
4. Klarman, H.E. The Economics of Health, Columbia University Press, New York
5. Glied, S. & Smith, P.C. The Oxford Handbook of Health Economics
6. Henderson, J.W. Health Economics and Policy
7. Anand, N.K. & Goel, Shikha Health Economics
8. J.B.G. Tilak, Various writings on India's Education
9. जय प्रकाश मिश्रा कल्पना म हिंमशक्षा एविस्वस्य का अर्थशास्त्र ामहत्य भवन पमलिकेशन

This course can be opted by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Degree as Economics one Major Paper.

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Degree as Economics one Major Paper.

Bachelor Research in Economics/Master in Economics		
Programme : Bachelor Research in Economics/ Master in Economics	Year 4 / Year 1	Semester 7 [BRE] Semester 1 [ME] Paper IV(b)
Subject : Economics		
Course Code : ECOMJE702 [BRE] ECOMJE102 [ME]	Course Title : Rural Economics	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• The students will be able to understand the concepts of rural economics, rural development and agriculture and will be able to understand the issues prevailing in rural areas.• The students will be able to understand the rural local self-governance namely Panchayat Raj Institution and its role in planning and development of rural areas.		
Credits : 5 Credits	Core Elective	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Rural Economics and Rural Development- Meaning, Scope and Importance, Difference between RE and RD, Characteristics of Rural Economy	12
II	Rural Poverty- Nature, trend, Causes and Consequences, Poverty Alleviation. Rural Unemployment- Types, Factors affecting Unemployment. Rural Indebtedness- Meaning and Causes, Rural finance- Formal and Informal sector	17
III	Agriculture and Industries in rural areas, Rural Non-farm sector, Rural Entrepreneurship, Rural Tourism, Sustainable Rural Economy,	13
IV	Decentralization and Community Participation- Panchayati Raj Institutions. Rural Development Planning and Management. Rural Infrastructure. Rural-rural and Rural-urban migration	15
V	Rural Development in India and Uttarakhand, Rural Development Programmes of Centre and State- Vidhyak Nidhi, ICDS. Rural Development and Migration Commission of Uttarakhand- Reports.	18

Suggested Reading:

1. B.S. Khanna: Rural Development in South Asia, Deep and Deep Pub. New, Delhi.
2. M.C. Chand and V.K. Puri: Regional Planning in India, S. Chand Publication.
3. R.H. Dholakia: Regional Disparity in Economic Growth, Himalaya Publishing House.
4. Sheo Kumar Lal and Umed Rajnagar : Rural Social Transformation.
5. C. T. Kurian: Community Development and Panchayat Raj in India.
6. T.S. Sundaram: Anti-poverty Rural Development in India.
7. Laxman and Mauryan: Rural Development in India.
8. A.K. Dende: Studies in Rural Development.
9. Brahmananda: Dimensions of Rural Development in India.
10. Satyasundaram: Rural Development, Himalayan Publishing House, New Delhi.
11. Katar Singh: Rural Development, Principles, Policies and Management, Sage Publication, New Delhi.

12. Venkata Reddy k: Rural Development in India, Poverty and Development, Himalayan Publishing House, New Delhi.
13. Laxmidevi: Planning for employment and rural development, Anmol Publications Pvt. Ltd., New Delhi.

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Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Degree as Economics one Major Paper.

Master in Economics		
Programme : Bachelor Research in Economics/ Master in Economics	Year 4/ Year 1	Semester 7 [BRE] Semester 1[ME] Paper IV (c)
Subject : Economics		
Course Code : ECOMJE703[BRE] ECOMJE103[ME]	Course Title : Economic Systems	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• The student will be able to understand the different types of economic system.• The students will come to know about role of the state in decision making.		
Credits : 5 Credits	Core Elective	
Max. Marks : 75	Min. Passing Marks: 75	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Economic System – Definition, Nature, Scope and Importance. Types, Features of various economic systems. Role of state process in decision making in various economic systems. Causes of evolution of various economic systems. Functions and Efficiency of Economic Systems.	15
II	Capitalist System: Characteristics, Prime movers in Capitalist System, Role of Profit, Free Enterprise, Sovereignty of the Consumer. Advantages and Disadvantages. Dynamism in Capitalist system. Challenges to Capitalist Systems.	15
III	Communist System: Features, Types of Planning Mechanism, ownership and distribution patterns. Means and relations of production. Challenges to Communist Systems. Price Fixation in Communist System.	15
IV	Cooperative Systems – Organization of Cooperative enterprises in Capitalist and Communist systems. Distinguishing features of cooperative system. Cooperative movement in Israel & Denmark. Features & Evolution of Indian Cooperative system.	15
V	Concept of Mixed Economy: Planning under mixed economy, Working of Mixed Economy in India, Role of Public and Private Sectors in India. Gandhian Economic System and Panchayati Raj.	15

Suggested Reading :

1. S.K. Mishra, Economic Systems & Micro Economics, D.K. Publishers, New Delhi.
2. S.S.M Desai: Economic Systems, Himalaya Publishing House, New Delhi.
3. George Halm, Economic Systems.
4. Vinod Mehta; The Solvent & Chinese Economy : A Comparative Study; D.K. Publishers
5. Pillai & Sarangsharan; Economic Systems, Himalaya Publishing House, Bombay.
6. Amritananda; Foundations of Gandhian Economics, D.K. Publishers, New Delhi.

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Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Degree as Economics one Major Paper.

Bachelor Research in Economics/Master in Economics		
Programme : Bachelor Research in Economics/ Master in Economics	Year 4/ Year 1	Semester 7 [BRE] Semester 1 [ME] Paper IV(d)
Subject : Economics		
Course Code : ECOMJE704 [BRE] Course Title : Cooperation ECOMJE104 [ME]		
Course Outcomes: The course will help in: <ul style="list-style-type: none"> • This course will help the students in learning the concept of Cooperation and Cooperative Institutions. • This course will also help the students to learn about cooperative management and cooperative law. 		
Credits : 5 Credits		Core Elective
Max. Marks : 75		Min. Passing Marks: 25
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Definition, Scope and Importance of Cooperation, Principles of Cooperation, Types of Cooperatives-Marketing, Dairy, Industrial Processing, Housing, Labour Cooperatives and Farming Cooperative. Cooperative Movement in India and Abroad, Cooperation and rural Development	18
II	Cooperative Banking - Meaning, Structure and Need for Cooperative Banks, Functions of Cooperative Banks, Rural and Urban Cooperative Banking, NABARD.	17
III	Cooperative Credit Societies -Agricultural and Non-Agricultural Credit Cooperative, Constitution, Objectives, Functions and Management. Cooperation and Women- Self Help Groups.	15
IV	Concept of Cooperative Management, Principles, Functions and Problems of Cooperative Management, Financial Management under Cooperatives, Cooperative training and Education.	13
V	Cooperative Law - Cooperative law in India- Model Bill 1957, Model Cooperative Act 1991. Cooperative Society Act, Registration of Cooperatives, Cooperative Policy at Centre and State, Important Committees.	12

Suggested Reading :

1. T.N. Hajela: Cooperation Principles, problems and Practice, Ane Book Pvt. Ltd.
2. Dr. Nakkiran.S A Treatise on Cooperative Managements- Rainbow Publication: Coimbatore.
3. Dr.Nakkiran.S – Cooperative Management-principles & techniques – Himalaya Publishing House, Mumbai.
4. Ram Krishna Y- Management of Cooperatives, Jaico Publishing Home-New-Delhi
5. R.D.Bedi, Theory, History and practice of Cooperation, International Publishing House, Meerut.
6. B.S.Mathur, Cooperation in India, Sahitya Bhavan, Agra.
7. T.N.Hajela, Cooperation – Principles, Problems and practice, Konark Publishers, Delhi.
8. O.R.Krishnaswami & V.Kulandaisamy, Theory of Cooperation, Shanma publications, Coimbatore.

9. V.Saradha, Theory of Cooperation, Himalaya Publishing House, Bombay.
10. D.Jha, In search of Cooperative values, Vikash Publishing House, Delhi.
11. G.R.Madan, Cooperative movement in India, Mittal Publications, Delhi.
12. वी. पी. मित्तल: सहकारिता देशतथा मवदेशी, संजीवप्रकाशन, िेठ

Suggested online link:

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Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Degree as Economics one Major Paper.

CORE MAJOR PAPER

[SEMESTER 7] – Bachelor in Research

[SEMESTER 1] – Master in Economics

Research Project

Bachelor Research in Economics/Master in Economics		
Programme : Bachelor Research in Economics/ Master in Economics	Year 4/ Year 1	Semester 7 [BRE] Semester 1 [ME] Paper V
Subject : Economics		
Course Code : ECORP701	Course Title : Research Project	
Credits : 4 Credits	Core Compulsory	
Max. Marks : 100	Min. Passing Marks: 33	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Note: The Research Project will be based on Primary /Secondary Data.		

Note :-The students are required to prepare a research project of 30-50 pages based on Primary / Secondary data on the topic allotted by the concerned teacher.

This course can be opted by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Degree as Economics one Major Paper.

Course Prerequisites: Successfully completion of Bachelor Degree as Economics one Major Paper.

CORE COMPULSORY PAPER

[SEMESTER 8] – Bachelor Research in
Economics

[SEMESTER 2] – Master in Economics

- **Advanced Microeconomics-II**
- **Advanced Public Finance-II**
- **Advanced Quantitative Techniques in Economics**

Bachelor Research in Economics/Master in Economics		
Programme : Bachelor Research in Economics/ Master in Economics	Year 4/ Year 1	Semester 8 [BRE] Semester 2 [ME] Paper I
Subject : Economics		
Course Code : ECOMJ801 [BRE] ECOMJ201 [ME]	Course Title : Advanced Microeconomics-II	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• Students will learn about the advanced concepts of the firm and industry under different market forms.• Students will learn Factor pricing and distribution theories.• Students will learn about the Welfare concept in modern Economics.		
Credits : 5 Credits	Core Compulsory	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Classification and equilibrium of Market Structure, Profit Maximization Hypothesis, Sales Maximization Hypothesis; Satisfying Behavior Hypothesis, Staff Maximization Hypothesis, Growth Maximization Hypothesis. Condition for equilibrium of a firm.	10
II	Perfect Competition, Monopoly - Price Discrimination; Degree of Monopoly Power; Bilateral Monopoly; Monopolistic Competition, Excess Capacity Under Imperfect Competition; Selling Costs and Advertisement; Non-Collusive and Collusive Models of Oligopoly; Average Cost Pricing Theory.	18
III	Marginal Productivity Theory-Controversy and Critical evaluation, Product Exhaustion Problem – <i>Wicksteed's, (Wicksell, Walrus and Baron') Solutions</i> ; Pricing of Factors in Competitive and Imperfectly Competitive Markets; Collective Bargaining and Wages; Demand and Supply of labour, <i>Wage Determination</i> ; Theories of Rent, Interest and Profits.	17
IV	General and Partial Equilibrium Analysis, Edgeworth Box diagram Analysis, Contract curve and Product Transformation curve.	15
V	Welfare Economics - Positive, Normative and Welfare, Individual and Social Welfare, Role of value judgement in welfare economics. Pigouvian Welfare Economics; Pareto Optimality condition; Compensation Principle; Grand Utility Possibility Frontier and Welfare Maximization; Social Welfare Function.	15

Suggested Reading:

1. Ahuja, H.L., Advanced Economic Theory, S. Chand & Co., New Delhi.
2. Koutsoyiannis, A., Modern Microeconomics, Macmillan, London.

3. Roy Choudhary, K., Modern Micro Economics, Theory and Application, Vols. I, II & III, Dominant Publishers and Distributors, New Delhi.
4. Lipsey, R.G., Introduction to Positive Economics, ELBS, London.
5. Baumol, W., Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
6. Weintraub, E.R., General Equilibrium Theory, Macmillan, London.
7. Da Costa, G.C., Production, Prices and Distribution, Tata McGraw Hill, New Delhi.
8. Henderson, J.M. and R.E. Quandt, Microeconomic Theory: A Mathematical Analysis, McGraw Hill, Singapore.
9. Mishan, E.J., Welfare Economics: An Assessment, North Holland, Amsterdam.
10. ,e0 ,y0 f>axu] mPpvkfFkZdfl)kUr] o`UnkifCyds'ku] ubZfnYyhA
11. vkgtwk],p0 ,y0] mPprjvkfFkZdfl)kUr] ,l0 pk;n] ubZfnYyhss

This course can be opted by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Bachelor Research in Economics/Master in Economics		
Programme : Bachelor Research in Economics/ Master in Economics	Year 4/ Year 1	Semester 8 [BRE] Semester 2 [ME] Paper II
Subject : Economics		
Course Code : ECOMJ802 [BRE] ECOMJ202 [ME]	Course Title : Advanced Public Finance-II	
Course Outcomes: The course will help in: <ul style="list-style-type: none">Students will be able to understand fiscal policy, fiscal federalism, budget preparation and deficit financing.The students will be able to understand the Indian tax structure.		
Credits : 5 Credits	Core Compulsory	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Fiscal Policy: Meaning, short and long respective, Full employment and Fiscal policy, Objectives of Fiscal Policy in a Developing Economy, Items of development finance programmes.	15
II	Fiscal Federalism: Basic principles of multi-level finance, Fiscal federalism in India – constitutional division of income, constitutional provision for Finance Commissions, Division of resources and grant, Transfer of resources from Union to states.	15
III	Indian Tax System: Revenue of Union, States and Local Bodies. Major Taxes in India: Direct and Indirect Taxes, Issue of Taxation of Agriculture, Expenditure Tax, Goods and Service Tax (GST). Tax Reforms in India. Non-Tax Revenue sources of the Central, States and Local Bodies.	20
IV	Budget preparation, presentation and execution of budget of Union government, Current Union Budget, Trends of Public expenditure and Public Debt.	13
V	Types of Deficits in Indian Budget: Revenue Deficit, Primary Deficit, Budgetary Deficit and Fiscal Deficit. Deficit Financing, Fiscal Sector reforms in India, Recent Finance Commission.	12

Suggested Reading:

1. Musgrave, R.A. and Musgrave P.B., Public Finance in Theory and Practice, McGraw Hill, New York.
2. Prest, A.R. and Barr, N.A., Public Finance in Theory and Practice, ELBS, London.
3. Buchanan, J.M., Public Finance, Irwin, New Y.
4. Prest, A. R., Public Finance in Under-developed Countries, Vikas, New Delhi.
5. Buchanan, J.M., Public Principles of Public Debt, Irwin, Homewood. Ill., USA.
6. Singh, S. K., Public Finance in Theory and Practice, S. Chand, New Delhi.
7. Bhatia, H.L., Public Finance, Vikas Publishing House, New Delhi.
8. Herber, B.P., Modern Public Finance, AITBS, New Delhi.

9. Reserve Bank of India, Monthly Bulletins.
10. Budget Papers of the Government of India.

This course can be opted by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Bachelor Research in Economics/Master in Economics		
Programme : Bachelor Research in Economics/ Master in Economics	Year 4/ Year 1	Semester 8 [BRE] Semester 2 [ME] Paper III
Subject : Economics		
Course Code : ECOMJ803 [BRE] ECOMJ203 [ME]	Course Title : Advanced Quantitative Techniques in Economics	
Course Outcomes: The course will help in: <ul style="list-style-type: none">Students will be able to understand the concept of Mathematical Economics.Students will be able to use the mathematical tools and methods in Economics.		
Credits : 5 Credits	Core Compulsory	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Quantitative Techniques in Modern Economics: Scope, importance and limitations. Theory of Numbers. Equations and their Solutions. Various Types of Functions. Elementary Set Theory.	10
II	Differentiation of Functions of two or more Variables: Main Basic Rules of differentiation, Methods of differentiation. Maxima and Minima. Elementary Integration, Definite Integration, Application of Differentiation & Integration in Economics.	15
III	Matrices: Definition, Types and Matrix Operations, Transpose, Adjoint and Inverse Matrix. Determinants: Properties and their expansion. Cramer’s Rule. Application of Matrix Operations in Economics. Probability: Meaning & Definition, Addition and Multiplication Theorem.	17
IV	Elementary Linear Programming: Objectives, Basic Assumptions & Advantages. Graphical Methods of solving Linear Programming Problems.	10
V	Measure of Central Tendency – Arithmetic Mean, Harmonic Mean & Geometric Mean in Continuous Series. Measure of Dispersion – Standard Deviation, COV, Lorenz Curve in Continuous Series. Skewness & Kurtosis. Simple Correlation – Karl Pearson Method. Simple Regression, Regression Lines, Equations & Regression Coefficients. Time Series Analysis – Moving Average & Least Square Method.	23

Suggested Reading:

1. Bose, D., An Introduction to Mathematical Economics, Himalaya Publishing House, New Delhi.
2. Yamane, T., Mathematics for Economists- An Elementary Survey, Prentice Hall of India, New Delhi.
3. Allen, R.G.D., Mathematical Analysis for Economists, A.I.T.B.S., Publishers and Distributors, Delhi.
4. Chiang, A.C., Fundamental Methods of Mathematical Economics, McGraw Hill.

5. Monga, G.S., Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.
6. Gupta, S.P., Statistical Methods, Sultan Chand, New Delhi.
7. Agrawal, D.R., Quantitative Methods, Vrinda Publications, Delhi.
8. Gupta, K.L., Parimanatmak Takniken, Navyug Sahity Sadan, Agra.
9. Aggarwal, D.R., Prarambhik Ganitiy Arthshastra, Vrinda Publication, New Delhi.
10. Gupta, K.L., ParimanatmakTakniken, NavyugSahitySadan, Agra.
11. Gupta, K.L. & S.K. Gupta, UcchatarSankhiyiki, Navneet Prakashan, Agra.
12. Singh, S.P., Sankhiyiki Ke Mool Tatva, S. Chand, New Delhi.
13. Gupta, S.P., SankhiyikiKe Siddhant, New Delhi.
14. Lohani, Jitendra Kumar & Padam S. Bisht, Arthashastra Mei Ganitiy Evm Sankhikiya Vidhiyan, Kunal Books, New Delhi. [In Hindi]

This course can be opted by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

CORE ELECTIVE PAPER

[SEMESTER 8]- Bachelor Research in
Economics

[SEMESTER 2] – Master in Economics

(SELECT ANY ONE)

- **Migration and Urbanisation**
- **Environmental Economics**
- **Financial Institution & Markets**
- **Regional Economics**

Bachelor Research in Economics/Master in Economics		
Programme : Bachelor Research in Economics/ Master in Economics	Year 4/ Year 1	Semester 8 [BRE] Semester 2 [ME] Paper IV (a)
Subject : Economics		
Course Code : ECOMJE801 [BRE] ECOMJE201 [ME]	Course Title : Migration and Urbanisation	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• Study of Urban Economic issues and migration.• Students will be able to understand the growth of Urban Economy and theories of migration.• The students will understand about the growth strategies of Urban development and migration.		
Credits : 5 Credits	Core Elective	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Concepts of Mobility and Migration; Types of Migration; Sources of Migration Data; Internal Migration: Patterns and Characteristics with Special Focus on India. Determinants of Internal Migration. Causes and Consequences of Migration at the Place of Origin and Destination- Demographic, Economic, Social and Political Consequences at the Individual, Household and Community Level.	10
II	International Migration: Sources of Data and Types. Labour Migration, Brain Drain, Refugee and Illegal Migration; Determinants of International Migration; Consequences upon Demography, Economy and Society;	18
III	Direct Measures of Internal Migration: Estimation of Lifetime and Inter-censal Migration from Place of Birth; Duration of Residence and Place of Last Residence Data; Indirect Measures of Internal Migration: National Growth Rate Method; Survival Ratio Methods; Problems of Base Population	17
IV	Theories of Internal and International Migration – Ravenstein’s Laws of Migration, Everett Lee’s Theory of Migration, Zelinsky Theory , Todaro’s Model of Rural-Urban Migration, Lewis-Fei-Ranis, New Household Economic Theory, Dual Labour Market Theory, World System Theory, Social Network Theory, Cumulative Causation Theory.	15
V	Urbanization: Concept and Importance. Urban and Related Concepts used in Indian Census; Factors affecting Urbanisation, Stages of Urbanisation, Classification of Urban areas – Demographic, Geographic & Economic. Urbanisation in India. Urban Environment & Ecology.	15

Suggested Reading:

1. G.F. Bussars; Repid Problmes of Urbanisation in India.
2. Asok Owtra john: An Approach to urban Studies in India.

3. John D. Herbert and Alfrad P. Van: Urban Planning in the Developing Countries.
4. Ashish Bose ; Studies in India's Urbanization.
5. R.K. Bharadwaj ; Urban Development in India.
6. NCAER; Market Towns and Spatial Development.
7. Richard F. Muth : Urban Economic Problems.
8. Harry, S. Perloff; Issues in Urban economics.
9. Harry, W. Richardson; Urban Economics.

Suggested online link:

[www.ignou](http://www.ignou.ac.in)

[www.swayam](http://www.swayam.in)

[www.inflibnet](http://www.inflibnet.org)

This course can be opted by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Bachelor Research in Economics/Master in Economics		
Programme : Bachelor Research in Economics/ Master in Economics	Year 4/ Year 1	Semester 8 [BRE] Semester 2 [ME] Paper IV (b)
Subject : Economics		
Course Code : ECOMJE802 [BRE] ECOMJE202 [ME]	Course Title : Environmental Economics	
<ul style="list-style-type: none">This course will help the students to understand the concept of environmental economics.The students will also learn about the direct linkage between human, environment and development.		
Credits : 5 Credits	Core Elective	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Environmental Economics – Meaning, Nature, Scope and Significance. Economy-Environment Interaction. Material Balance Principle. Entropy Law.	15
II	Economic Development and Environment. Environmental Quality and Economic Development. Future of Economic Development and Environment. Economics of Recycling and Waste Management. Sustainable use of Resources.	17
III	Welfare Criteria of Environmental Analysis: Pareto criterion. Pigouvian Analysis of Externalities, Compensation Criterion, Social Choice and Justice, Environmental Quality as a Public Good, Market Failure.	13
IV	Environmental Problems – Causes. Issues of Climate Change, global warming, Green House Effect, Ozone Layer Depletion, Land Degradation, Various type of pollutions. Policies – Environmental Regulations, Pigouvian Taxes, Market based Instruments.	16
V	Sustainable Development – Basic concept, sustainable approaches to sustainability and development indicators. Green Economy. Green Tourism. Green Bonus. Sustainable Development in Indian Perspective.	14

Suggested Reading :

1. Jhingan, M.L., Environmental Economics: Theory, Management and Policy, Vrinda Publication, New Delhi.
2. Anthony, C.Fisher, Environment and Resource Economics, 1995.
3. Sharma, Environmental Economics, National Publication, New Delhi.
4. Awasthi, N.M. and P.R.Pande, Environmental Studies, Laxmi Narayan Agarwal Pub, Agra.
5. Awasthi, N.M., Paryawarniya Adhhyan, Laxmi Narayan Agarwal Pub, Agra.
6. Rao, V.K. & R.S.Reddy, Environment Education, Commonwealth Publishers, New Delhi.
7. Murthi, M.N., Economic Evaluation of Environmental Programmes, Commonwealth Publishers, New Delhi.
8. Vohra, P. & R.Mehta, Environmental Economics, Commonwealth Publishers, New Delhi.
9. Sankar, Ulaganthan ed., Environmental Economics, OUP, New Delhi, 2001.
10. Perman, R.Ma and J. McGilvary: Natural Resource and Environmental Economics.

11. Mehta, S., S. Mundle and U. Sankar: Controlling Pollution: Incentives and Regulation, SAGE, New Delhi.
12. Dasgupta, P.S. and G.M. Heal: Economic Theory and Exhaustible Resources, Cambridge University Press, Cambridge.
13. ESCAP: Accounting and Valuation of Environment – A Primer for Developing Countries, Vol. I, United Nations, New York.
14. Sengupta, R.P.: Ecology and Economics: An Approach to Sustainable Development, OUP, New Delhi. SEMESTER III
15. Chopra, Kanchan et.al. (eds.), Ecological Economics for Sustainable Development, Academic Foundation, New Delhi.
16. Eugmi, T., Environmental Economics, Vrinda Publications, Delhi, 2004.
17. Das Gupta, N., Environmental Accounting, S. Chand, New Delhi.
18. Karpagam, M., Environmental Economics A Textbook, Sterling Publishers Pvt. Ltd., New Delhi.
19. Kolshad, Charles D., Environmental Economics, Oxford University Press, New York

Suggested online link:

[www.ignou](http://www.ignou.ac.in)

[www.swayam](http://www.swayam.in)

[www.inflibnet](http://www.inflibnet.org)

This course can be opted by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Bachelor Research in Economics/Master in Economics		
Programme : Bachelor Research in Economics/ Master in Economics	Year 4/ Year 1	Semester 8 Semester 2 Paper IV (c)
Subject : Economics		
Course Code : ECOMJE803 [BRE] ECOMJE203 [ME]	Course Title : Financial Institutions and Markets	
Course Outcomes: The course will help in: <ul style="list-style-type: none">This course will help the students to learn about money and capital market.The students will learn about different financial institutions in India and abroad like RBI, NABARD, NBFIs and ADB.		
Credits : 5 Credits	Core Elective	
Max. Marks : 75	Min. Passing Marks: 75	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Role & Structure of Money Market and Capital Market. Features of a Developed Money and Capital Market. Structure of the Financial System. Functions of the Financial Sector. Functions, Types and Objectives of Commercial Banks. Mechanism of Credit Creation by the Commercial Banks. Purpose and Limitations.	20
II	Functions of Central Bank. Instruments of Credit Control. Aims and Objectives of Monetary Policy in Developed and Developing Countries. Instruments of Monetary Policy. Role and Functions of the Reserve Bank of India. Development and Regulatory Role of the RBI. NABARD.	15
III	Non-Bank Financial Institutions – Definition and Types, Their Role, Importance, Growth, Functions and Effects. Role of Non-Banking Financial Institutions in Indian Perspective.	15
IV	Cooperatives and Regional Rural Bank -Their Objectives, Role and Limitations. Definition, Types, Functions.	12
V	Nature and Organization of International Financial Markets. Operations of the World Bank and its Affiliates. Growth of Regional Financial Institutions. Asian Development Bank and its Lending Activities with reference to India	13

Suggested Reading :

1. Bhole, L.M.: Financial Institutions and Markets, Tata McGraw Hill, New Delhi.
2. Bhole, L.M.: Indian Financial System, Chugh Publications, Allahabad.
3. Hanson, J.A. and S. Kathuria : India : A Financial Sector for the Twenty First Century, OUP, New Delhi.
4. Khan, M.Y.: Indian Financial System, Tata McGraw Hill, New Delhi.
5. Machiraju, M.R.: Indian Financial Systems, Vikas Publishing House, New Delhi.
6. Prasad, K.N.: Development of India's Financial System, Sarup and Sons, New Delhi.
7. Johnson, H.J.: Financial Institutions and Markets, Mc Graw Hill, New York.

Suggested online link:

www.ignou
www.swayam
www.inflibnet

This course can be opted by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Bachelor Research in Economics/Master in Economics			
Programme : Bachelor Research in Economics/ Master in Economics s		Year 4/ Year 1	Semester 8 Semester 2 Paper IV (d)
Subject : Economics			
Course Code : ECOMJE804 ECOMJE204		Course Title : Regional Economics	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• The students will be able to analyze the regional problems of growth and development.• The students will come to know about the economy of Uttarakhand, its features, and various social welfare and employment generation programs in Uttarakhand.			
Credits : 5 Credits		Core Elective	
Max. Marks : 75		Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0			
Unit	Topic		No. of Lectures
I	Regional Economics: Concept, Definition, Scope and Importance. Types of Regions. Indicators of Regional Development. Approaches to Regionalization, Globalization and Regionalization		15
II	Regional Development Theories and Growth Models-The Economic Base Theory, Industrial Structure and Sector/Stage Theory. Cumulative Causation Models.		15
III	Regional Economic Policy and Problems: Regional Development Policy--Objectives. Strategies and Issues. Priorities and Programmes for Balanced Regional Development- Channelization Approach Towards Backward Region.		15
IV	Economy of Uttarakhand: Role of Agriculture, Energy, Industry and Tourism in Uttarakhand economy. Economic, Non-economic and Human Resource in Uttarakhand. Role of women in Uttarakhand economy, Health and other infrastructural facilities, Unemployment and migration.		20
V	Economic development and regional disparities, Indicators of regional disparities, Backwardness and regional imbalances with special reference to Uttarakhand. Various social welfare and Employment Generation Programs in Uttarakhand.		10

Suggested Reading :

1. Hoover, E.M. (1975) : An Introduction to Regional Economics, Alfred A. Knopf, New York.
2. Richardson, H.W. (1969) : Elements of Regional Economics, Penguin, Harmondsworth.
3. McKee, D.L. et. al. (eds.) (1970) : Regional Economics, Theory and Practice, Free Press, New York.
4. Needleman, I. (ed.) (1968) : Regional Analysis, Penguin, Harmondsworth.
5. Richardson, H.W. (1969) : Regional Economics Weidenfield and Nicholson, London.
6. Dean, R.D. et. al. (1970) : Regional Economics, Theory, Free press, New York.
7. Isard, W. (1956) : Location and Space Economy, John Wiley, New York.
8. Isard, W. and J.H. Cumverland (eds.) (1960) : Regional Economic Planning, OECD, Paris.

9. Siebert, H. (1969) : Regional Economic Growth : Theory and Policy, International Textbook Company, Sorcenton.
10. Bhadouria, B.P.S. (1986) : Regional Economic Development : Theory and Policy, Anmol Publications, New Delhi.
11. Friedman, J. and Walonso (eds.)(1975) : Regional Development Planning - A reader, MIT Press, Cambridge, Mass.
12. Isard, W. (1960) : Methods of Regional Analysis, MIT Press, Westmead.
13. Paelinck, J.H. and P. Nijkamp (1976) : Operational Theory and Methods in Regional Economics, Saxon House, Westmead.
14. Lefeber, L. and M. Dutta- Chaudhuri (1971) : Regional Development Experience and Prospects in South and South-East Asia, Mouton, The Hague.
15. Misra, R.P. et. al. (1978) : Regional development Planning in India, Vikas Publishing House, New Delhi.
16. Nair, K.R.G. (1986) : Regional Disparities in India, Agricole Publishing Academy, New Delhi

Suggested online link:

www.ignou

www.swayam

www.inflibnet

This course can be opted by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

CORE MAJOR PAPER

[SEMESTER 8] – Bachelor in Research
[SEMESTER 2] – Master in Economics

Research Project

Bachelor Research in Economics/Master in Economics		
Programme : Bachelor Research in Economics/ Master in Economics	Year4/ Year 1	Semester 8 [BRE] Semester 2 [ME] Paper V
Subject : Economics		
Course Code : ECORP801	Course Title : Research Project	
Credits : 4 Credits	Core Compulsory	
Max. Marks : 100	Min. Passing Marks: 33	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Note: The Research Project will be based on Primary /Secondary Data.		

Note :-The students are required to prepare a research project of 30-50 pages based on Primary / Secondary data on the topic allotted by the concerned teacher.

This course can be opted by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Course Prerequisites: Must have cleared their Bachelor Research in Economics (7th Semester) / Master in Economics (1st Semester).

Master in Economics

5th Year	SEM 3	Advanced Macro Economics- I	[5 CREDITS]
		Advanced Economics of Growth and Development- I	[5 CREDITS]
		Advanced International Economics-I	[5 CREDITS]
		<u>Core Elective Paper</u> Select any one of the following: - (a) Population Theories and Demographic Analysis (b) Economics of Infrastructure (c) Econometric Analysis (d) Agricultural Economics and Farm Management	[5 CREDITS]
		Research Project	[4 CREDITS]
	SEM 4	Advanced Macro Economics- II	[5 CREDITS]
		Advanced Economics of Growth and Development- II	[5 CREDITS]
		Advanced International Economics-II	[5 CREDITS]
		<u>Core Elective Paper</u> Select any one of the following: - (a) Industrial Economics and Entrepreneurship (b) Economics of Informal Sector (c) Gender and Development Studies (d) Advanced Computer Application in Economics	[5 CREDITS]
		Research Project	[4 CREDITS]

CORE COMPULSORY PAPER

[Master in Economics]

[SEMESTER 3]

- **Advanced Macroeconomics-I**
- **Advanced Economics of Growth and Development-I**
- **Advanced International Economics-I**

Master in Economics		
Programme : Master in Economics	Year 2	Semester 3 [ME] Paper I
Subject : Economics		
Course Code : ECOMJ301[ME]	Course Title : Advanced Macroeconomics I	
Course Outcomes: The course will help in: <ul style="list-style-type: none">Students will learn about national income and different theories regarding the determination of income and employment.Students will learn about the consumption and investment functions. And also, about the functioning of multiplier.		
Credits : 5 Credits	Core Compulsory	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Macroeconomics: Meaning, Types and Importance of Macroeconomics. National Income and Related Concepts. Circular flow of Income, three sector model and four sector model of income flow, Measurement of National Income. Problems in the Measurement of National Income.	18
II	Say’s Law of Market, Determination of the level of output and Employment, Criticism of Say’s Law, Classical, Keynesian Economics.	17
III	Post-Keynesian Approaches, Theory of Output and Employment. Consumption Function & Theories (Keynes, Duesenberry, Milton-Friedman), Saving and Investment Function - Keynesian approach, Keynesian Psychological Law of Consumption, Paradox of Thrift, Friedman’s approach.	18
IV	Investment Function- Determinants of Investment. Concept of Multiplier, Acceleration Principle.	12
V	Keynesian Economics and Developing Countries. Unemployment and full employment policies.	10

Suggested Readings :

1. Ackley, G., Macroeconomics : Theory and Policy, Macmillan, New York.
2. Dornbusch, R. and F. Stanley , Macroeconomics, Mc Graw Hill, New York.
3. Jha, R., Contemporary Macroeconomic Theory and Policy, Wiley Eastern, New Delhi.
4. Vaish, M.C., Macroeconomic Theory, Vikas, New Delhi.
5. Romer, D.L., Advanced Macroeconomics, Mc Graw Hill, New York.
6. Gupta, S.B., Monetary Planning in India, OUP, New Delhi.
7. Reddy, Y.V., A Review of Monetary and Financial Sector Reforms in India, UBSPD, New Delhi.
8. Frisch, H., Theories of Inflation, Cambridge University Press.
9. Rakshit, M., Studies in the Macroeconomics of Developing Countries, OUP, New Delhi.

10. Vasudevan, A., Central Banking for Emerging Market Economies, Academic Foundation, New Delhi.
11. Rana K.C. and K.N. Verma, Macro Economic Analysis, Vishal Publishing Co., Jalandhar.
12. e0 ,y0 f>axu] lef'VvFk Z''kkL=] o`UnkifCyds''ku] ubZfnYyhA
13. p0 ,y0 vkg wtk] mPprjlef'VvFkZ''kkL=],l0 Pkk;n] ubZfnYyhA

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This course can be opted as an elective by the students of following subjects: The course can be opted by those students who have cleared their 4th Year of Bachelor in Research /Master in Economics (1st & 2nd Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have completed Bachelor in Research Master in Economics (1st & 2nd Semester).

Master in Economics		
Programme : Master in Economics	Year 2	Semester 3 [ME] Paper II
Subject : Economics		
Course Code : ECOMJ302[ME]	Course Title : Advanced Economics of Growth and Development- I	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• The students will be able to understand the conceptual issues in growth and development.• The students will be able to understand the growth and development theories.		
Credits : 5 Credits	Core Compulsory	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Meaning and Measurement of Economic Growth and Development. Characteristics of Under Development. Measuring Development and Development Gap. Human Development Index and Other Indices of Development and Quality of Life.	20
II	Poverty, Inequality and Development. Structural Analysis of Development. Development Policies and Perspectives. Economic and Non-Economic Factors, Sectoral Priorities and development Policies,	13
III	Adam Smith, Ricardo, Malthus. Marxian Theory of Capitalist Development. Schumpeterian View of Dynamic Evolution of Economy.	12
IV	Partial Theories of Underdevelopment: Vicious Circle Theory, Development in Historical Perspective - The Rostow’s Stages of Growth.	16
V	Social and Technological Dualism. Models of a Dual Economy: Balanced and Unbalanced Growth, Nurkse, Lewis, Theory of the Big Push, Theory of Critical Minimum Effort.	14

Suggested Reading :

1. Ghatak, S., (1986), An Introduction to Development Economics, Allen and Unwin, London.
2. Thriwall, A. P., (1978), Growth and Development, McMillan, London.
3. Meier, G.M., (1984) : Leading Issues in Economic Development, Oxford University Press, New York.
4. Higgins, B. (1959) : Economic Development, Norton , New York
5. Kindlerberger, C.P. and B. Harrik (1983) : Economic Development, McGraw-Hill, Tokyo.
6. Salvatore, D. and E. Dowling (1977) : Development Economics, Schuam's Outline Series in Economics, McGraw
7. Agarwal, A. N. and S.P. Singh, (Eds.) (1985) : Economics of Underdevelopment O.U.P., London.
8. Adelman I (1969) : Theories of Economic Growth and Development, Stanford University Press, Stanford
9. Sen, A.K. (ed.) (1971) : Growth Economics, Penguin, Harmondsworth.
10. Sundaram, R.M. (1984) : Development Economics : A Framework for Analysis and Policy.
11. Chenery, H. : Redistribution with Growth, Oxford University Press.

12. Todaro, M.P. : Economic Development, Longman, London.
13. United Nations : Human Development Report.
14. Mishra, S.K.&V.K. Puri, Economics of Growth and Development, Himalaya Publishing House, Mumbai.

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This course can be opted as an elective by the students of following subjects: The course can be opted by those students who have cleared their 4th Year of Bachelor in Research Master in Economics (1st & 2nd Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have completed Bachelor in Research or equivalent.

Bachelor Research in Economics/Master in Economics		
Programme : Master in Economics	Year 2	Semester 3 [ME] Paper III
Subject : Economics		
Course Code : ECOMJ303[ME]	Course Title : Advanced International Economics I	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• The students will learn about theories of International Trade.• The students will learn about Terms of Trade, Gains from Trade, Trade Policy and Custom Union.		
Credits : 5 Credits	Core Compulsory	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	The Theories of International Trade: Classical theory. Haberler’s theory, The Heckscher-Ohlin Theory. Extension of Heckscher-Ohlin Theorem. Factor Price Equalization Theorem. Leontief Paradox, The Rybcznyski theorem, Linder’s Representative Demand Hypothesis.	18
II	Trade as an engine of Growth Shifts in Demand: Economic Growth and International Trade: The Concept of Immiserizing Growth. Welfare Implications, Policy issues.	15
III	Gains from Trade, and Terms of Trade- Reciprocal Demand and Supply Curves, Concepts of Terms of Trade their Uses and Limitations, Hypothesis of Secular Deterioration of Terms of Trade.	15
IV	Trade Policy-Free Trade and Protectionism Methods of Trade Interventions: - Tariffs, Import Quota and Non-Tariff Barriers, Optimum and Effective tariff rates. Economic Effects of Tariffs and Non-tariff Barriers.	14
V	Theory of custom Union, Trade under Imperfect Competition. International Economic Integration, GATT/Globalization and New International Economic order under WTO, Functions and Objectives of WTO.	13

Suggested Reading:

1. Sodersten, Bo., International Economics, MacMillan, London.
2. Salvatore, D., International Economics, John Wiley, New York.
3. Krugman, P.R., International Economics, Add Wesley Longman, Delhi.
4. Mannur, H.G., International Economics, Vikas Publishing House, New Delhi.
5. Bhatia, H.L., International Economics, Vikas Publishing House, New Delhi.
6. Meier G. M., Leading Issues in Economic Development, OUP, Mumbai.
7. Caves, R.E., et.al., World Trade and Payments, Harper Collins, U.
8. Chacholiades, M., International Trade Theory and Policy, McGraw Hill, New York.

9. Pearce, I.J., International Trade, Vols. I & II, Macmillan, London.
10. Bhagwati, J. and T.N. Srinivasan, Lectures on International Trade, MIT Press, Cambridge.
11. Bhagwati, J., ed., International Economics, OUP, New D.
12. Rana K.C. and K.N. Verma, International Economics, Vishal Publishing Co., Jalandhar.
13. ,e0 ,y0 f>axuj vUrkZ'Vh; vFkZkkL=] o`UnkifCydku] ub ZfnYyhA
14. Jajal R.S. & Bisht, N.S., Emerging Dimensions of Global Trade.
15. Jalal R.S., Trade Policy and Global Participation: Indian Experience, Swaroop & Sons, New Delhi.

This course can be opted as an elective by the students of following subjects: The course can be opted by those students who have cleared their 4th Year of Bachelor in Research Master in Economics (1st & 2nd Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)

] Course Prerequisites: Must have completed Bachelor in Research or equivalent.

CORE ELECTIVE PAPER

[Master in Economics]

[SEMESTER 3]

(SELECT ANY ONE)

- **Population Theories and Demographic Analysis**
- **Economics of Infrastructure**
- **Econometric Analysis**
- **Agricultural Economics and Farm Management**

Master in Economics		
Programme : Master in Economics	Year 2	Semester 3[ME] Paper IV(a)
Subject : Economics		
Course Code : ECOMJE301[ME]	Course Title : Population Theory and Demographic Analysis	
Course Outcomes: <ul style="list-style-type: none">The course will help the students in learning about demography and population theories.The students will learn about the relation between population and environment.The students will learn about demographic database in India and Population policy.		
Credits : 5 Credits	Core Compulsory	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Demography- Meaning, Scope and Importance. Demographic structure in developed and developing countries. Rural, urban, tribal and women population structure in India	10
II	Population Theories: Malthus, Optimum and Demographic Transition Theory, Leibenstein theory of Population, Population Cycle,	10
III	Population and Environment: Introduction to linkages between population and environment, Population growth: environment degradation and poverty, Implication of population growth on food supply, water, sanitation, housing, employment, health and education. Sustainable Development issues and population growth.	20
IV	Demographic Database in India: Study of census in India – Methodology and Characteristics of Census. Recent Population Census. National Family Health Survey 1 and 2 and rapid household survey. Changing characteristics of population in India; Population growth rates, trends and regional variations in sex ratio; Age structure population, foetal, infant and child mortality rates; Life expectancy	20
V	Population Policy: Population and strategies for human development. The New population policy. Evolution of Population policy in India. Human Development Issue, Human Capital Formation.	15

Suggested Reading:

1. Agarwala, S.N.: India's Population Problem., Tata McGraw Hill, Bombay.
2. Agarwal, U.D.: Population Projections and Their Accuracy, B.R.Publishing Corporation, New Delhi.
3. Bhende,A.A. and T.R.Kanitkar: Principles of Population Studies, Himalaya Publishing House, Bombay.
4. Bogue, D.J.: Principles of Demography, John Wiley, New York.
5. Bose, A.:India's Basic Demographic Statistics, B.R.Publishing Corporation, New Delhi.
6. Census of India: Various Reports.
7. Choubey,P.K.: Population Policy in India, Kanishka Publications, New Delhi.
8. Misra, B.D.: An Introduction to the Study of Population, South Asia Publishers, New Delhi.
9. Srinivasan, K.: Basic Demographic Techniques and Applications, Sage Publications, New Delhi.
10. Krishnaji,M., R.M.Sudrashan and A.Shariff: Gender Population and Development, OUP, New Delhi.
11. Ramakumar, R., Technical Demography, New Age International, New Delhi.
12. JhokLro] ,l0lh0] tukafddh; v;;u ds izk:lk] fgeky;kifCyf"kaXgkAl] eqEcbZA
13. fo0 d qekj ,oax qlrk] tukafddh] ,l0 ch0 ih0 Mh0 ifCyd s" kuvxjkA
14. ,l0 ch0 xqlrk] vk S]k sfxdvFkZ"kkL=],l0 ch0 ih0 Mh0 ifCyd s" kuvxjkA
15. R.S.Jalal, "RURAL DEVELOPMENT IN INDIA : ISSUES AND POLICY" (Vol. I & II), Anmol Publication, New Delhi

This course can be opted as an elective by the students of following subjects: The course can be opted by those students who have cleared their 4th Year of Bachelor in Research Master in Economics (1st & 2nd Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)

] Course Prerequisites: Must have completed Bachelor in Research or equivalent.

Bachelor Research in Economics/Master in Economics		
Programme : Master in Economics	Year 2	Semester 3 [ME] Paper IV(b)
Subject : Economics		
Course Code : ECOMJE302 [ME]	Course Title : Economics of Infrastructure	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• Learning about infrastructure and economic development, transport infrastructure and energy infrastructure.• Learning about health and education infrastructure and recent advances in the infrastructure sector.		
Credits : 5 Credits	Core Elective	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Introduction: Infrastructure and economic development, Economic and social infrastructure, Infrastructure as a public good; Public Utilities: Meaning, characteristics and pricing. Economies of scale of Joint supply; Cross-subsidization — free prices, equity and efficiency. Issues in Privatisation of Infrastructure; Infrastructure Finance; Public-Private Partnership (PPP).	15
II	Transport Infrastructure: Railways, Roadways, Airways and Waterways: Pricing; Progress, Technological Advancement and Challenges. Demand for transport infrastructure, New policies/programmes related to each mode of transportation; Inter-modal condition in the Indian Situation.	10
III	Energy Infrastructure: Energy and Economic Development. Factors Determining Demand for Energy; Effects of Energy Shortages. Energy Conservation. Renewable and Non-conventional Sources of Energy. Electricity, Gas and Water Supply and Pricing of Electricity. The Case for a National Power Grid. Financing Water Utilities. The Exploitation of Natural Gas.	20
IV	Education and Health Infrastructure: Concept, scope and relevance of Human Resource and Human Capital Development; Education and Economic Development; Progress on Universalisation of Primary Education; Performance of Secondary, Technical, Professional and Higher Education; New Education Policy Health: Health Dimension of Development; Health Facilities in India; State Provision of Health; Issues in Privatisation of Health Services	20
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	10

Suggested Readings

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, VK Global Publications, 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. Raghuram, G., R. Jain, S. Morris, P. Pangotra and S. Sinha (Eds.) (1999), Infrastructure Development and Financing: Public Private Partnership, Macmillan India Ltd, New Delhi
8. Philips, A. and O.E: Prices: Issues in Theory, Practice and Public Williamson (Eds.) (1967) Policy, University of Pennsylvania Press, Philadelphia.
9. Pachauri, R.K. (Ed.) (1980): Energy Policy for India, Macmillan Co. of India, New Delhi.
10. Turvey, R. and D. Anderson: Electricity Economics, John Hopkins University (1977) Press, Baltimore.
11. Government of India (1997), The India Infrastructure Report, Vols. I, II and III, NCAER and Government of India, New Delhi. (Chairman: Rakesh Mohan).
11. Tilak, J.B.G. (1994), Education for Development in Asia, Sage Publications, New Delhi
12. P. Lokanathan and Dr. R. Asokan "Economics of Infrastructure" Mangalam Publication

This course can be opted as an elective by the students of following subjects: The course can be opted by those students who have cleared their 4th Year of Bachelor in Research Master in Economics (1st & 2nd Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)

] Course Prerequisites: Must have completed Bachelor in Research or equivalent.

Master in Economics		
Programme : Master in Economics	Year 2	Semester 3 [ME] Paper IV (c)
Subject : Economics		
Course Code : ECOMJE303[ME]	Course Title : Econometric Analysis	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• The students will learn about basics of Econometrics.• The students will learn about the basis regression models.		
Credits : 5 Credits	Core Elective	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Correlation & Regression Analysis: What is correlation, insights into correlation, basics of regression, Regression Models, Test of Goodness of fit and Correlation	15
II	Simple Regression : The two-variable model, The Ordinary Least Square (OLS), Test of significance of parameter estimates, Property of Ordinary Least Square Estimators	15
III	Multiple Regression Analysis: The Three Variable Linear Model, Test of significance of parameter estimates, The coefficient of Multiple Determinations, Test of the overall significance of the regression, Partial – Correlation Coefficients, Matrix notation.	15
IV	Techniques and Applications in Regression Analysis: Functional Form, Dummy Variables, Distributed Lag Model, Forecasting.	15
V	Problems in Regression Analysis: Multicollinearity, Heteroscedasticity, Autocorrelation, Errors in Variables	15

Suggested Reading:

1. Gujarathu D.N. (2004); Basic Econometrics; Fourth Edition, New Delhi; Tata McGraw Hills.
2. L.R.Klein: A Textbook of Econometrics., 2.J.Johnston: Econometric Methods.; 3.P.Schmidt: Econometrics.
3. Rao and Miller: Applied Econometrics.; 5.Carl F. Christ: Econometric Methods.; 6.G.Tintner: Econometrics.
4. M.D.Intriligator: Econometric Models: Techniques and Applications.
5. G.S.Maddala: Econometrics.; 8.G.C.Judge,et al.: Theory and Practice of Econometrics.; 9.R.Stone: The Role of Measurement in Economics; 10Apte: Textbook of Econometric

This course can be opted as an elective by the students of following subjects: The course can be opted by those students who have cleared their 4th Year of Bachelor in Research Master in Economics (1st & 2nd Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)

] Course Prerequisites: Must have completed Bachelor in Research or equivalent.

Master in Economics			
Programme : Master in Economics		Year 2	Semester 3 [ME] Paper IV(d)
Subject : Economics			
Course Code : ECOMJE304[ME]		Course Title : Agriculture Economics and Farm Management	
Course Outcomes: <ul style="list-style-type: none">• The students will learn about meaning of agriculture economics, types of agriculture and agriculture finance.• The students will learn about farm management and farm business analysis.			
Credits : 5 Credits		Core Compulsory	
Max. Marks : 75		Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0			
Unit	Topic	No. of Lectures	
I	Agriculture Economics: Nature and Scope, Role of Agriculture in Economic Development. Interrelationship between Agriculture and Industry. Interaction between Agriculture and Rest of the Economy. Diversification of Agriculture.	15	
II	Demand, Supply and Allocation of Basic Inputs- Labour, Land, Irrigation, Fertilizer, HYV Seeds, Livestock Energy, Machinery and Equipment, Form of farming- Organic Farming, Sustainable Farming, Sustainable Agriculture, Vertical Farming and Dry Land Farming	15	
III	Agricultural Finance: Importance, Types of Requirements, Sources; Institutional and Non-institutional. Existing Credit Delivery System (Multi Agency Approach), Agricultural Marketing: Marketing Functions and Costs. Market Structure and Imperfections. Regulated Markets. Marketable and Marketed Surplus,	15	
IV	Farm Management: Meaning, concept and objectives. Principles of farm management, Meaning and definition of farms, its types and characteristics, factor determining types and size of farms, factor-product, factor-factor and product-product relationship	15	
V	Farm business analysis: meaning and concept of farm income and profitability, technical and economic efficiency, Meaning and importance of farm planning and budgeting, partial and complete budgeting, steps in farm planning, Important Issues in Farm Management in India	15	

Suggested Reading:

1. Heady, E.O. : (ed.) Economic Development of Agriculture.
2. Snodgrass, Milton M. and L.T. Wallace : Agricultural Economic and Resource Management, Prentice Hall of India Pvt. Ltd., 1977.
3. Eicher, Earl and Lawrence Witt (ed.): Agriculture in Economic Development: Vora Co. Pub. Pvt. Ltd. 1970.
4. Shah, C.H. and C.N. Vakil (ed.) : Agriculture Development of India : Policy and Problems, Orient Longman, 1979.
5. Southworth N. and A. Johnston : Agriculture Development and Economic Growth, Cornell University Press.
6. ,l0 ch0 xqlrk] d`f`k vFkZ"kkL +=] ,l0 ch0 ih0 Mh0 ifCyds"ku vkxkjkA
7. R.S.Jalal, "RURAL DEVELOPMENT IN INDIA : ISSUES AND POLICY" (Vol. I & II), Anmol Publication, New Delhi

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Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have completed Bachelor in Research or equivalent.

CORE MAJOR PAPER

[SEMESTER 3] – Master in Economics

Research Project

Master in Economics		
Programme : Master in Economics	Year 2	Semester 3 [ME] Paper V
Subject : Economics		
Course Code : ECORP301 [ME]	Course Title : Research Project	
Credits : 4 Credits	Core Compulsory	
Max. Marks : 100	Min. Passing Marks: 33	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Note: The Research Project will be based on Primary /Secondary Data.		

Note :-The students are required to prepare a research project of 30-50 pages based on Primary / Secondary data on the topic allotted by the concerned teacher.

This course can be opted per by the students of following subjects: The course can be opted by those students who have cleared their Bachelor Research in Economics / Master in Economics (1st & 2nd Semester).

Course Prerequisites: Must have completed Bachelor in Research or equivalent.

CORE COMPULSORY PAPER

[Master in Economics]

[SEMESTER 4]

- **Advanced Macroeconomics - II**
- **Advanced Economics of Growth and Development- II**
- **Advanced International Trade - II**

Master in Economics		
Programme : Master in Economics	Year 2	Semester 4 [ME] Paper I
Subject : Economics		
Course Code : ECOMJ401 [ME]	Course Title : Advanced Macroeconomics II	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• The students will learn about demand and supply of money and theories of money.• The students will learn about theories of Interest and trade cycle.• The students will learn about banking system and credit creation.		
Credits : 5 Credits	Core Compulsory	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Supply of Money-Different Concepts, High Powered Money, Money Multiplier, Determinants of Money supply. Demand for Money—Classical view of Demand for Money, Total Demand for Money, Post Keynesian Approach, Baumol’s Approach, Fisher and Cambridge Versions. Keynesian Approach. Approach of Friedman, Patkinson. Value of Money and It’s measurements.	20
II	Theory of Interest - Classical, Neo-Classical, Keynesian. The Modern Theory of Interest. IS & LM Functions: General Equilibrium of Product and Money Markets, Extensions of IS-LM Models.	15
III	Keynes’ Theory of Money and Prices. Keynesians versus Monetarism. Theories of Inflation. Effects and Control of Inflation. Inflationary and Deflationary Gaps. Phillips Curve.	17
IV	Credit Creation by Commercial Banks, Central Banking -- Functions and Role. Reserve Bank of India - Role and Performance.	13
V	Theories of Trade Cycles –Hawtrey & Hayek, Keynes, Hicks, Samuelson.	10

Suggested Readings :

1. Ackley, G., Macroeconomics : Theory and Policy, Macmillan, New York.
2. Dornbusch, R. and F. Stanley , Macroeconomics, Mc Graw Hill, New York.
3. Jha, R., Contemporary Macroeconomic Theory and Policy, Wiley Eastern, New Delhi.
4. Vaish, M.C., Macroeconomic Theory, Vikas, New Delhi.
5. Romer, D.L., Advanced Macroeconomics, Mc Graw Hill, New York.
6. Gupta, S.B., Monetary Planning in India, OUP, New Delhi.
7. Reddy, Y.V., A Review of Monetary and Financial Sector Reforms in India, UBSPD, New Delhi.
8. Frisch, H., Theories of Inflation, Cambridge University Press.
9. Rakshit, M., Studies in the Macroeconomics of Developing Countries, OUP, New Delhi.

10. Vasudevan, A., Central Banking for Emerging Market Economies, Academic Foundation, New Delhi.
11. Rana K.C. and K.N. Verma, Macro Economic Analysis, Vishal Publishing Co., Jalandhar.
12. e0 ,y0 f>axu] lefVvFk Z"kkL=] o'UnkifCyds"ku] ubZfnYyhA
13. p0 ,y0 vkg wtk] mPprjlefVvFkZ"kkL=],l0 Pkk;n] ubZfnYyhA

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This course can be opted per by the students of following subjects: The course can be opted by those students who have cleared their Master in Economics (3rd Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have completed Master in Economics (1st , 2nd & 3rd Semester).

Master in Economics		
Programme : Master in Economics	Year 2	Semester 4 [ME] Paper II
Subject : Economics		
Course Code : ECOMJ402[ME]	Course Title : Advanced Economics of Growth and Development- II	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• The students will learn about models of growth by different economists.• The students will learn about the role of international aid, finance, agriculture and industry in development.		
Credits : 5 Credits	Core Compulsory	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Conceptual Framework and Methodology of Modern Growth Theories. Growth Model. Harrod-Domar, Joan Robinson.	15
II	Models of Technical Progress – Hicks, Harrod. Optimal Savings and Ramsay’s Rule. Golden Rule of Accumulation. Money in Economic Growth. Endogenous Growth.	15
III	Neo-Classical Growth Theory. Growth Models of Solow, Meade and Swan. Cambridge Theories of Growth-Kaldor, Kahn.	20
IV	International Trade, Aid, Finance in Development. Technology Transfer and Multinational Corporations. Problems of Unemployment Developing Economies.	13
V	Role of Agriculture and Industry in Economic Development. Environment and Development- Sustainable Development in India.	12

Suggested Reading :

1. Ghatak, S., (1986), An Introduction to Development Economics, Allen and Unwin, London.
2. Thriwall, A. P., (1978), Growth and Development, McMillan, London.
3. Meier, G.M., (1984) : Leading Issues in Economic Development, Oxford University Press, New York.
4. Higgins, B. (1959) : Economic Development, Norton , New York
5. Kindlerberger, C.P. and B. Harrik (1983) : Economic Development, McGraw-Hill, Tokyo.
6. Salvatore, D. and E. Dowling (1977) : Development Economics, Schum's Outline Series in Economics, McGraw
7. Agarwal, A. N. and S.P. Singh, (Eds.) (1985) : Economics of Underdevelopment O.U.P., London.
8. Adelman I (1969) : Theories of Economic Growth and Development, Stanford University Press, Stanford
9. Sen, A.K. (ed.) (1971) : Growth Economics, Penguin, Harmondsworth.
10. Sundaram, R.M. (1984) : Development Economics : A Framework for Analysis and Policy.
11. Chenery, H. : Redistribution with Growth, Oxford University Press.
12. Todaro, M.P. : Economic Development, Longman, London.
13. United Nations : Human Development Report.

14. Mishra, S.K.&V.K. Puri, Economics of Growth and Development, Himalaya Publishing House, Mumbai.

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This course can be opted per by the students of following subjects: The course can be opted by those students who have cleared their Master in Economics (1st, 2nd & 3rd Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have completed Master in Economics (1st, 2nd & 3rd Semester).

Master in Economics

Programme : Master in Economics		Year 2	Semester 4 [ME] Paper III
Subject : Economics			
Course Code : ECOMJ403 [ME]		Course Title : Advanced International Economics II	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• The students will learn about the Balance of payment, Devaluation, Foreign exchange and Exchange control.• The students will also understand the role and functions of international financial institutions.			
Credits : 5 Credits		Core Compulsory	
Max. Marks : 75		Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0			
Unit	Topic		No. of Lectures
I	Meaning and Components of the Balance of Payments. Equilibrium and Disequilibria in the Balance of Payments. The Balance of Payments Accounts and the Foreign Exchange Market. Types of Disequilibrium, Causes, and Correction of a Disequilibria in the Balance of Payments.		13
II	Devaluations- Elasticity Approach and Income Absorption Approach, Adjustment Mechanism: Monetary Policy. Foreign Trade Multiplier Fixed and Flexible Exchange Rates. Floating Exchange Rates, Exchange Control.		13
III	Forms of Economic Cooperation. Emergence of Trading Blocks. Effects of a Customs Union and Free Trade Areas. Regionalism- SAARC/SAPTA, ASEAN, EU, BRICS. Multilateralism-WTO (TRIPS & TRIMS, Patent, GATS, Subsidies), I.M.F., I.B.R.D and A.D.B. with Special Reference to India. International Liquidity, Special Drawing Rights (SDRs).		20
IV	Trade Problems and Trade Policies of India since1991- Recent Changes in the Direction and Composition of Foreign Trade of India. Trade Reforms since 1991 and impact on Indian Economy. Problems of India’s Foreign Debt.		15
V	International Investment in India: Foreign Direct Investment FDI, Issues and Policies. Recent Export and Import Policies of India – India’s Foreign Trade: Trends & Trade Policies. Role of Multinational Enterprises in India, FERA and FEMA.		14

Suggested Reading:

1. Sodersten, Bo., International Economics, MacMillan, London.
2. Salvatore, D., International Economics, John Wiley, New York.
3. Krugman, P.R., International Economics, Add Wesley Longman, Delhi.
4. Mannur, H.G., International Economics, Vikas Publishing House, New Delhi.
5. Bhatia, H.L., International Economics, Vikas Publishing House, New Delhi.
6. Meier G. M., Leading Issues in Economic Development, OUP, Mumbai.
7. Caves, R.E., et.al., World Trade and Payments, Harper Collins, U.
8. Chacholiades, M., International Trade Theory and Policy, McGraw Hill, New York.
9. Pearce, I.J., International Trade, Vols. I & II, Macmillan, London.

10. Bhagwati, J. and T.N. Srinivasan, Lectures on International Trade, MIT Press, Cambr
11. Bhagwati, J., ed., International Economics, OUP, New D.
12. Rana K.C. and K.N. Verma, International Economics, Vishal Publishing Co., Jalandhar.
13. ,e0 ,y0 f>axuj vUrjkZ'Vh; vFkZkkL=] o' UnkifCydku] ubZfnYyhA
14. Jajal R.S. & Bisht, N.S., Emerging Dimensions of Global Trade.
15. Jalal R.S., Trade Policy and Global Participation : Indian Experience, Swaroop & Sons, New Delhi.

This course can be opted per by the students of following subjects: The course can be opted by those students who have cleared their Master in Economics (1st , 2nd & 3rd Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have completed Master in Economics (1st , 2nd & 3rd Semester).

CORE ELECTIVE PAPER

[Master in Economics]

[SEMESTER 4]

(SELECT ANY ONE)

- **Industrial Economics and Entrepreneurship**
- **Economics of Informal Sector**
- **Gender and Development**
- **Advanced Computer Applications in Economics**

Master in Economics			
Programme : Master in Economics		Year 2	Semester 4 [ME] Paper IV(a)
Subject : Economics			
Course Code : ECOMJE401 [ME]		Course Title : Industrial Economics and Entrepreneurship	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• Learning about industrial economics and industrialization, forms of industrial economics and market and industrial efficiency.• Learning about entrepreneurship and its role in economic development.			
Credits : 5 Credits		Core Compulsory	
Max. Marks : 75		Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0			
Unit	Topic		No. of Lectures
I	Industrial Economics and industrialization: Nature and Scope of Industrial Economics. Industrialization- Concept, Rationale and Factors affecting industrialization. Arguments against Industrialization. Industry and Sectoral Linkages.		10
II	Industrial Organization: Forms of Industrial Organization. Economies of Scale - Industrial Combinations. Growth of the firm. Pricing Decisions and pricing procedures.		10
III	Market and Industrial Efficiency: Market structure and market conduct; Industrial Efficiency: concept, 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		20
IV	Industrialization in India: Trends in Industrial growth and diversification; LPG and its impacts on industries; New Industrial Policy in India, Industrial Finance, Labour issues and reforms; SSIs and Cottage industries in India-Policy issues and performances; Multinational Corporations (MNCs) in India - Advantages & Disadvantages		20
V	Entrepreneurship: Definition, Features and Problems. Entrepreneurship and Economic Development; Characteristics, Types and Functions of an Entrepreneur; Role of an Entrepreneur; Women Entrepreneurship, Funding of a new Enterprise: Sources, Problems and Prospects; Entrepreneurship Development Programmes and Institutes in India;		15

Suggested Reading:

1. Bhartwal R, Industrial Economics - An Introductory Text Book, New Age International Pvt. Ltd, Bangalore.
2. Cherumilam F, Industrial Economy of India, Himalaya Publishing House, Mumbai.
3. Dennis Carlton, Jeffrey Perloff, Modern Industrial Organisation, Global Edition.
4. Divine P. J and R.M Jones (et.al), An Introduction to Industrial Economics, George Allen and Unwin Ltd. London.
5. Kuchaal, Industrial Economy of India, Chaitanya, Allahabad.
6. Singh A and A.N Sandhu, Industrial Economics, Himalaya Publication House, Mumbai.
7. Sivayya K. V and V.B.M Das, Indian Industrial Economy, S. Chand and Company.
8. Ahluwalia I J, Industrial Growth in India, Oxford University Press, Oxford.
9. Desai B, Industrial Economy of India, Himalaya Pub. House, Mumbai.
10. Desai. S.S.M and Nirmal Balerao, Industrial Economy of Indian, Himalaya Pub., House, Mumbai.
11. Dilip Mookerjee, Indian Industry: Policies and Performance, Oxford University Press, Delhi.
12. Hashim S.R, Suri K. B., (ed), Small Scale Enterprises in Industrial Development, The Indian Experience, Sage Publication, New Delhi.
13. Kyoko Inone, Industrial Development Policy in India, Institute of Developing Economies, Tokyo.
15. Nagesh Kumar, MNCs and Industrial Organization, Sage pub. New Delhi.
14. Ram Shankar Singh, Industrialization in India, Deep and Deep, New Delhi.
15. Singh A and A. N. Sandhu, Industrial Economics, Himalaya Publishing House, Mumbai.
16. Tendulkar S.D.(ed), India: Industrialisation in a Reforming Economy, Academic Foundation, New Delhi.
17. UDAI PAREEK and T. Venkateswara Rao, Developing Entre-preneurship - A Hand Book Learning Systems, New Delhi.
18. Deshpande, M.U., Entrepreneurship of Small Scale Industries, Deep and Deep Publications, New Delhi.
19. D.L. Narayana, 1972, Entrepreneurship and Economic Development, Madurai University Press, Madurai.
20. Dilip S. Swamy, 1994, The Political Economy of Industrialization from Self Reliance to Globalisation, Sage Publication India, New Delhi.

This course can be opted per by the students of following subjects: The course can be opted by those students who have cleared their Master in Economics (1st, 2nd & 3rd Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have completed Master in Economics (1st, 2nd & 3rd Semester).

Master in Economics		
Programme : Master in Economics	Year 2	Semester 4 [ME] Paper IV(b)
Subject : Economics		
Course Code : ECOMJE402[ME]	Course Title : Economics of Informal Sector	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• Learning about the concept of informal sector and economic growth.• Learning about demand and supply of labour and role of informal sector in agriculture and manufacturing sector.		
Credits : 5 Credits	Core Compulsory	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Informal Sector- Concept, Definitions and Characteristics. Informal sector in rural and urban areas. Issues and challenges of informal sector, Types of Informal Labour, Migration and Urbanisation, Contribution of informal sector in income and employment	15
II	Labour supply and Demand: Concept and Measures, Composition and segmentation of informal sector, Types of Labour, Dimensions of unemployment and under-employment	15
III	Informal sector and economic growth, Poverty and challenges, informal poor, Children and Women workers- Wages and social protection	15
IV	Role of Informal sector in agriculture and manufacturing sector. Social Protection of Informal Workers- Labour laws, Factories Act, Decent work, Future of Work, Labour activism	15
V	Informal sector in India- Size, structure and growth. Development policies for informal sector, Role of NCEUS, ILO, WEIGO and World Bank	15

Suggested Readings

1. Kishor C. Samal: Informal Sector: Concept, Dynamics, Linkages and Migration, Concept Publishing Cop.

2. Pandya, Rameshwari and Patel, Sarika: Women in the unorganised sector of India. New Delhi: New Century Publications
3. Papola, T. Sharma, Alakh, Ed (1999) Gender and Employment. New Delhi: Vikas Publishing House.
4. D.P. Singh: Women workers in Unorganised Sector, Deep and Deep Publication Pvt. Ltd.
5. Manju Devi: अ गमिति क्षेत्र िेँकायथरत िमहिओ िंपर मह िंा एविउनका स्वास््य, मिहार महदींिग्रन् अकादि

This course can be opted per by the students of following subjects: The course can be opted by those students who have cleared their Master in Economics (1st, 2nd & 3rd Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have completed Master in Economics (1st, 2nd & 3rd Semester).

Master in Economics		
Programme : Master in Economics	Year 2	Semester 4 [ME] Paper IV (c)
Subject : Economics		
Course Code : ECOMJE403	Course Title : Gender and Development	
Course Outcomes: The course will help in: <ul style="list-style-type: none">The students will be able to understand the concepts of gender economics, and the role of gender in economic development.The students will learn about gender budgeting, women participation and policies and programs related to women empowerment.		
Credits : 5 Credits	Core Elective	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Importance of Women Studies. Women in Patriarchal and Matriarchal Societies and Structures. Patrilineal and Matrilineal Systems and their Present-Day Relevance. Economic Basis and Functioning of Patriarchy in Developed and Developing Countries with Special Reference to India.	18
II	Demography of Female Population – Age Structure, Mortality Rates and Sex Ratio. Causes of Declining Sex Ratios and Fertility Rates in India. Access of Women to Nutrition, Health, Education and Social & Community Resources and their Impact on Female Mortality, Fertility, Economic Status and Work Participation Rate.	15
III	Concept and Analysis of Women’s Work – Valuation of Productive and Unproductive Work, Visible and Invisible Work, Paid and Unpaid Work, Economically Productive and Socially Productive Work. Classification of work in Indian Census & NSSO. Women’s contribution to National Income.	15
IV	Indicators & Budget – Gender related Inequality Indicators, Gender development Indices, Gender Empowerment Measuring Tools. Gender Budgeting and Gender Policies at Regional & National Level.	12
V	Gender Empowerment in India: Women’s Education – Gender Gaps, Policies & Programmes, Women’s Health – Policies and Programmes, Women Entrepreneurship – Policies & Programmes	15

Suggested Reading :

1. Boserup, E. : Women's Role in Economic Development, George Allen and Unwin, London.

2. Desai, N. and M.K.Raj (eds): Women and Society in India, Research Centre for Women Studies, SNDT University, Bombay.
3. Govt. of India: Towards Equality – Report of the Committee on the Status of Women in India, Deptt. Of Social Welfare, Ministry of Education and Social Welfare, New Delhi.
4. Krishnaraj, M., R.M.Sudharshan and A.Shariff: Gender, Population and Development, OUP, New Delhi.
5. Seth, M.: Women and Development: The Indian Experience, Sage Publications, New Delhi.
6. Venkateswaran, S.: Environment, Development and the Gender Gap, Sage Publications, New Delhi.
7. Wazir, R.: The Gender Gap in Basic Education : NGOs as Change Agents, Sage Pub., New Delhi.
8. Kabeer, N.: Reversed Realities: Gender Hierarchies in Development Thought, Kali for Women, New Delhi.
9. Kabeer,N. and R.Subrahmanyam (ed): Institutions, Relations and Outcomes: A Framework and Case Studies for Gender-aware Planning, Kali for Women, New Delhi.
10. Agnihotri, S.B.: Sex Ratio in Indian Population: A Fresh Exploration, Sage Pub., New Delhi.

Suggested online link:

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www.swayam

www.inflibnet

This course can be opted per by the students of following subjects: The course can be opted by those students who have cleared their Master in Economics (1st , 2nd & 3rd Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have completed Master in Economics (1st , 2nd & 3rd Semester).

Master in Economics		
Programme : Master in Economics	Year 2	Semester 4 [ME] Paper IV (d)
Subject : Economics		
Course Code : ECOMJE404	Course Title : Advanced Computer Applications in Economics	
Course Outcomes: The course will help in: <ul style="list-style-type: none">• The students will come to know about various devices related to computer system.• The students will get familiar with various types of Basic Computer Application software's.• The students will come to know about word processing software and internet.		
Credits : 5 Credits	Core Elective	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Basic Components of Computer: Input-Output Devices, The CPU, VDU, Keyboard, Mouse and Scanner, Printers and Plotters, Data Storage and Retrieval, Hard Disk Drive, Floppy Disk Drive, CD ROM. Types of Computers and their Applications. Computer Networking and Resource Sharing. Hardware, Software and Firmware. Examples and Techniques in Programming Languages like C, C++, Visual, Basic and Java.	15
II	MS-DOS: Operating System, Internal Commands, External Commands, MS-Windows, MSOffice, MS-Word, MS-Excel. Fox Pro – Basic Commands, Application Programmes.	15
III	Concept of Data, Record and File. Types of Data and Data Structures. Data Analysis. File Handling and Operations like Opening, Appending and Cascading, Closing and Attribute Control. Data Storage and Retrieval. Data Operations. Algorithms like Sorting, Merging, Joining and Bifurcation. Database Concepts and Operations on Database. DBMS and RDBMS.	15
IV	Series, Groups, Tables, Graphs and Objects. Statistics and SPSS: Introduction, Nature of Data, Organisation and Presentation, Statistical Measures--Mean, Mode, Median, Mean Deviation, Standard Deviation, Variance, Correlation, Regression, Extrapolation, Interpolation. Testing of Reliability and Significance of Different Statistical Measures. Data Validation. Testing Experimental Hypothesis.	15
V	System Modelling and Description. System Equation. Specification. Error and Correction Strategies. Statistical Modelling and Descriptive Statistics. Distribution Functions. Computer Viruses.	15

Suggested Reading :

1. Sanders, D.H.: Computers Today, McGraw Hill, New York.

2. Sinha, P.K.: Computer Fundamentals, BPB Publications, New Delhi.
3. Rajaraman, V.: Fundamentals of Computers, Prentice Hall of India, New Delhi

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[www.ignou](http://www.ignou.ac.in)

[www.swayam](http://www.swayam.in)

[www.inflibnet](http://www.inflibnet.org)

This course can be opted per by the students of following subjects: The course can be opted by those students who have cleared their Master in Economics (1st, 2nd & 3rd Semester).

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have completed Master in Economics (1st, 2nd & 3rd Semester).

CORE MAJOR PAPER

[SEMESTER 4] – Master in Economics

Research Project

Master in Economics		
Programme : Master in Economics	Year 2	Semester 4 [ME] Paper V
Subject : Economics		
Course Code : ECORP401 [ME]	Course Title : Research Project	
Credits : 4 Credits	Core Compulsory	
Max. Marks : 100	Min. Passing Marks: 33	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Note: The Research Project will be based on Primary /Secondary Data.		

Note :-The students are required to prepare a research project of 30-50 pages based on Primary / Secondary data on the topic allotted by the concerned teacher.

This course can be opted per by the students of following subjects: The course can be opted by those students who have cleared their Master in Economics (1st , 2nd & 3rd Semester).

Course Prerequisites: Must have completed Master in Economics (1st , 2nd & 3rd Semester).

Minor Elective

[Only for the Students of Bachelor in Research]

- **Vital Statistics**

[Note :- Minor Elective Paper to be opted by students of another Subject / Faculty]

Bachelor Research in Economics		
Programme : Bachelor Research in Economics	Year 4	Semester 7 or 8
Subject : Economics		
Course Code : ECOMIE	Course Title : Vital Statistics	
Course Outcomes: The course will help in: 8. The students will study about the basic concepts of vital statistics 9. The students will study about population projection and statistical institutions involved in census study.		
Credits : 4 Credits	Minor Elective	
Max. Marks : 75	Min. Passing Marks: 25	
Total No. of Lectures – Practical (in hours per week) : 4-0-0		
Unit	Topic	No. of Lectures
I	Vital Statistics-Meaning, Scope, Importance, Uses and Types.	12
II	Fertility-Crude Birth Rate, General Fertility Rate, Total Fertility Rate, Reproduction Rate-Gross and Net.	15
III	Mortality- Crude Death Rate, Age Specific Death Rate, Cause Specific Death Rate, Infant Mortality Rate, Standardized Death Rate.	15
IV	Population Projection, Life table, Population Pyramid, Vital Registration, Census.	10
V	Statistical Institutions-CSO, NSSO.	08

Suggested Reading :

1. Agarwal, U.D.: Population Projections and Their Accuracy, B.R.Publishing Corporation, New Delhi.
2. Bhende,A.A. and T.R.Kanitkar: Principles of Population Studies, Himalaya Publishing House, Bombay.
3. Bogue, D.J.: Principles of Demography, John Wiley, New York.
4. Bose, A.:India's Basic Demographic Statistics, B.R.Publishing Corporation, New Delhi.
5. Census of India: Various Reports.
6. Choubey,P.K.: Population Policy in India, Kanishka Publications, New Delhi.
7. Misra, B.D.: An Introduction to the Study of Population, South Asia Publishers, New Delhi.
8. Srinivasan, K.: Basic Demographic Techniques and Applications, Sage Publications, New Delhi.
9. Krishnaji,M., R.M.Sudrashan and A.Shariff: Gender Population and Development, OUP, New Delhi.
10. Jay PrakshMisra: Demography, Sahitya Bhawan Publication, Agra
11. M.L., B.K. Bhatt and J.N. Desai: Demography, Vrinda Publication, Delhi
12. R. S. Jain and S.K. Jain: Population Studies, Research Publication, Jaipur 2

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www.inflibnet

This course can be opted as an elective by the students of following subjects: The course can be opted by those students who have cleared their 3rd Year of Graduation or Equivalent examination of other subject / faculty.

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria –

[Assignment (10 Marks) + Assignment Presentation (10 Marks) + Attendance (5 Marks)]

Course Prerequisites: Must have completed graduation or equivalent from other stream except Arts.