## Saurashtra University, Rajkot

### COURSE STRUCTURE of M. A. Economics

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**Note:-**

OCT = Core Course  
ECT = Elective Course (Two courses to be taken in each of First and Second Semesters)  
ICT = Elective / Inter / Multi Disciplinary Course (Two courses to be taken in each of Third and Fourth Semesters)
Syllabus for M. A. Economics, Faculty of Arts, Saurashtra University

Semester –I

COR-I_01 : Micro Economics-I

PREMBLE:
This course analyses the economic behaviour of individuals, firms and markets. It is mainly concerned with the objective of equipping the students in a rigorous and comprehensive manner with the various aspects of consumer behaviour and demand analysis, production theory and behaviour of costs, the theory of traditional markets and equilibrium of firm in modern non-profit maximizing framework.

Sem-1 (Core): COR-I_01 :Micro Economics-I

Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper

- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus:

Unit – I

Unit – II
Production function-Isoquants, returns to factor and returns to scale, factor substitution, multiproduct firm, Cobb-Douglas production functions and its properties. Theories of cost, Short-run and Long run Cost Curves. Derivation of cost functions from production functions. Derived demand for factors.

Unit – III

Unit – IV
Alternative Theories of the firm :- Models of Baumol, Marris, Williamson, Bain, Full Cost Pricing Models and Behavioral models of Cyert and March.

Suggested Readings
3. Heathfield & Wibe : An Introduction to Cost and Production Functions.
4. Layard & Walters: Microeconomics Theory
8. Ahuja, H L : Advance Economic Theory, S Chand & Co, New Delhi
COR-I_ 01 : Macro Economics-1

PREMBLE:
Macroeconomic or aggregative economic analyses have great importance in the days of new economic reforms. So macroeconomics is very important to understand macroeconomic policies to the students of this subject. Because it establishes the functional relationship between the large aggregates. It is essential to analyze the macroeconomic theoretical structure, which is considered for the proper comprehension of the different issues and policies. Macroeconomics now is not only a scientific method of analysis, but also a body of empirical economic knowledge. This paper equips the students at the postgraduate level to understand systemic facts and latest theoretical developments for empirical analysis.

Sem-1 (Core): COR-I_ 01 :Macro Economics-1
Teaching Hours: 60
Marks: 100: External: 70 and Internal: 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus:


Unit-4 : Demand for Money and Supply of Money: The concept- The Transaction demand- The Asset demand for money: Keynesian and Classical approaches- Wealth approach- Post-Keynesian theories of demand for money: Friedman's Restatement of Quantity theory, Modigliani's approach- Recent development in the theory. Supply of Money The concept and constituents- Bank money and bank multiplier- Money multiplier Exogenous and endogenous variations- Liquid assets and potential money supply- Interest rates- Financial intermediaries and money supply- Money supply and income expansion RBI approach- Effects of money
supply- High powered money- Inside and outside money- Control of money supply- Money market and money market assets / instruments- Recent developments.

**Reading List**


**COR-I_03 : Public Economics-1**

**PREMBLE:**

There is specific role of the state in economic development. It has changed over time. The Public finance is very important subject to analyze the role of the Government in the context of fiscal behavior. It has been applied to the package of those policies and operations which involve the use of tax and expenditure measures while budgetary policy is an important part to understand the basic problems of use of resources, distribution of income etc. There is wide and vast area of the subject. It analyzes the public revenue and expenditure trends and programmes, budgetary procedures, stabilization instruments debt issue levels of government etc., which raise a spectrum of issues arising from the operation of these institutions. Further the existence of externalities concern from adjustment in the distribution of income and wealth etc. require political processes for their solution in a manner combines individual freedom and justice. This paper combines thorough understanding of fiscal institutions with a careful analysis of the issues, which underline budgetary policies in general, and Indian experience in particular.

**Sem-1 (Core): COR-I_03 : Public Economics-1**

Teaching Hours: 60

Marks: 100: External: 70 and Internal: 30

Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

**Structure of Question Paper**

- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
• Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

**Syllabus:**

**Unit-1: Introduction:** Meaning and Definition of Public finance- Scope of Public Finance-Similarities and dissimilarities of Public and private finance- Market failure-imperfection-indivisibility- spill over benefit and spill over cost –Externalities. Role of government in Economic Activity.

**Unit-2: Inter-sectoral Allocation and Public Choices:** Private & public mechanism for allocating resources; types of goods and their characteristics -Private, Public and Merit goods –Principle of maximum social advantage. Public choice-Unanimity-Relative Unanimity-the medium voter theorem-Arrow’s impossibility Theorem.


**Basic reading list:**


**ECT-I _1.1 : Managerial Economics: Theory**

**PREMBLE:**
This Course is essential for a student who aspires for management of a firm or company or any enterprises. this age is age of management. So managerial economics is very important to learn the art of management for achieving predetermined goals. The management means in each measure was as much a response to immediate economic problems and policy issues as much as it was a self-conscious attempt to refine earlier analysis by correcting mistakes and filling in
the gaps in management. Managerial analysis did not evolve in isolation. But were in integral and important part of the evolution of modern economic thought. Prevailing ideas of science, scientific thought and measurement played a significant role in the shaping of economic science at each stage of its evolution.

**Semester-II (Elective) : ECT-I_1.1: Managerial Economics: Theory**

Teaching Hours : 60  
Marks : 100: External : 70 and Internal : 30  
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

**Structure of Question Paper**

- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

**Syllabus:**

**Unit 1**: Definition, nature and scope of Managerial Economics - Managerial Economics and Micro-economics - Managerial Economics and Macro-economics - Applications of Economics in Managerial decisions making. Types of Business Organizations - Proprietary Firms, Partnership Firms, Joint Stock Companies, Public Sector Undertakings, Cooperative Societies, Non-profit Organizations,

**Unit 2**: Demand and Production Analysis - Determinants of Market Demand - Law of Demand - Elasticity of Demand - Measurement and its use - Demand Forecasting - Techniques of Demand Forecasting. Meaning of Production Function - Law of variable proportions - Law of Supply and Elasticity of Supply -

**Unit 3**: Costs and Pricing and output determination - Costs and Cost Functions - Short Terms Costs and their use on decision making - Determinants of costs - Break Even Analysis - Cost Forecasting. Pricing decisions under different market forms like perfect competition, monopoly, oligopoly - Pricing Methods - Pricing in Public Sector Undertakings and Cooperative Societies

**Unit 4**: Business Organizations in New Millennium - Organizational Goals - Profit Maximization, Sales Maximization, Satisfying Theory - Enhancing value of the firm and its goals. Cost Benefit Analysis - Steps in cost benefit analysis - Justification for the use of cost benefit analysis

**Books Recommended**
1. Managerial Economics - D.Salvatore  
2. Managerial Economics - Mote, Paul and Gupta  
3. Managerial Economics - Varshney and Maheshwari  
4. A study of Managerial Economics - D.Gopalkrishna  
5. Managerial Economics - D.C.Hauge  
6. Managerial Economics - Reckie and Crooke  
7. Managerial Economics - Gupta  
8. Managerial Economics, 4th Ed. - Craig Peterson

**ECT-I_1.2: Monetary Economics: Theory and Policy**

**PREAMBULE:** -

Money and banking constitute important components towards understanding of economics. A clear understanding of the operations of money and banking and their interaction with the rest
of the economy is essential to realize how monetary forces operate through a multitude of channels – market, non-market, institutions and among others, the state. The operation of financial markets and their regulations are to be studied to appreciate their key-role in an economy, especially after the far reaching banking and financial sector reforms in India and elsewhere. The present course is designed to acquaint the students fully with the changing role of financial institutions in the process of growth and development. Accordingly, the paper on ‘Economics of Money and Banking’ is an optimal integration of monetary theory, banking and non-banking financial institutions, which combine with itself a systematic discussion of the theory, institutions and policy with special reference to India.

Sem.-1 (Elective) ECT-I.1.2 : Monetary Economics : Theory and Policy

Teaching Hours: 60
Marks: 100: External: 70 and Internal: 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper

- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

Syllabus


Recommended Readings:

7. The Economics of Money, Banking and Finance, Prentice Hall, Pearson Education Ltd.
13. Reserve Bank of India : Various Reports

ECT-I_1.3 : Industrial Economics-1

PREAMBLE: -
In the contemporary world with globalization and liberalization more and more attention is being given to industry. This course intends to provide knowledge to the students on the basic issues such as productivity, efficiency, capacity utilization and debates involved in the industrial development of India. The objective is to provide a thorough knowledge about the economics of industry in a cogent and analytical manner, particularly in the Indian context. Paper of Industrial Economics structure conduct and performance paper of Industrial Economics of India both cover all the objectives and importance of the study of Industrial Development of India.

Sem.-1 (Elective) ECT-I_1.3- : Industrial Economics-1

Teaching Hours: 60
Marks: 100: External: 70 and Internal: 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
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- Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

Syllabus
Unit- 1: Industrial Economics framework and its problem Concept of firm, types of firm, main objectives of the firm. Firm behavior active and passive, profit maximization, scope of Industrial Economics.
Unit – 2: Market Structure: -Main components of the market sellers concentration, product differentiation, entry condition, exit from the market, economies of scale market structure and profitability, market structure and innovation.
Unit – 4 : Market Performance: -Growth of the firm, size of the firm, profitability of the firm, its constraints, productivity efficiency and capacity utilization, its concept and measurement more in context of Indian situation.

Basic Reading List:

ECT-I_1.4 : Economics of Regional Development

PREMBLE:
In a federal set up like India, balanced regional development is desirable. It involves policy intervention. Success or failure of such interventions depends on regional characteristics. Hence, for the post graduate students of economics it is of significance to understand functioning of regional economies and regional development per se. The course aims at providing basic conceptual understanding.

Sem.-1 (Elective) ECT-I_1.4 : Economics of Regional Development
Teaching Hours: 60
Marks: 100: External: 70 and Internal: 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus
Unit 1 : Concept of Region and Regional Development Policy Efforts: Type of region-homogeneous, nodal, programming, administrative and natural regions. Evaluation of balanced regional development efforts since independence in India.
Unit 2 : Regional Allocation of resources: Balanced regional development; Regional linkage-spread and backwash effects; Convergence and divergence.
Unit 3 : Transport costs and location; Weber’s theory of location; Locational and weight triangles; Locational interdependence.
Unit 4 : Urban Development: Regional imbalance in India; Regional planning; Rural urban inequality; Growth poles and development process.

References:
ECT-I_2.1: Economics of Demography-1

PREMBLE:
The main objective of this paper is to make the students aware of the importance of population economic development and the various theories that explain the growth of population in country. The Paper also enlightens the student on the quantitative and the qualitative aspects and characteristics of the population though various demographic techniques. In recent time gender characteristics of the population have acquired importance and these have also been included in the framework of study. Migration and urbanization are the characteristics of structural change taking place in a society. Their study is essential to understand the dynamics of this change. The paper exposes the students to sources of population and related characteristics as also to the rationale, need and evolution of population policy.

Sem.-1 (Elective) ECT-I_2.1: Economics of Demography-1
Teaching Hours: 60
Marks: 100: External: 70 and Internal: 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
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- Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

Syllabus
**Unit- 1 Population and Development** Meaning and scope of demography; Components of population growth and their inter-dependence; Measures of population change; Structure, distribution and sources of population data.

**Unit- 2 Structure of Population** Population trends in the twentieth century; Population explosion – Threatened or real, distant or imminent; International aspects of population growth and distribution; Pattern of age and sex structure in more developed and less developed countries.

**Unit- 3 Fertility, Nuptiality and Mortality** Importance of study of fertility – Total fertility rate, gross reproduction rate and net reproduction rate; Levels and trends of fertility in more and less developed countries; Factors affecting fertility – Socioeconomic factors, economic status, health, education, nutrition, caste, religion, race, region, rural-urban and status of husband and wife; Nuptiality – Concept and analysis of marital status, single mean age at marriage; Synthetic cohort methods; Trends in age at marriage.

**Unit- 4 Urbanization and Demographic Data Base in India** Urbanization – Growth and distribution of rural–urban population in developed and developing countries. Study of census

**Basic Reading List:**

8. www.censusindia.gov.in for the latest Census data reports

**Additional Reading**

- Baud, I.S.A. (1992), Form of Production and Women’s Labour, Gender Aspects of Industrialization in India and Mexico, Sage, New Delhi.
- King M. and M.A. Hill (Eds.) (1993), Women’s Education in Developing Countries: Barriers, Benefits and Politics, John Hopkins, Baltimore.
• Seth M. (2000), Women and Development: The Indian Experience, Sage, New Delhi.

ECT-I_2.2: Theories of Economic Growth

PREMBLE:
Post war period has witnessed emergence of ‘growth economic’. Economists have tried to capture process of economic growth in form of economic models. Neo-classical economists popularized this process. Students must understand process of economic growth well. This course familiarizes them with different types of growth models.

Sem.-1 (Elective) ECT-I_2.2: Theories of Economic Growth
Teaching Hours: 60
Marks: 100: External: 70 and Internal: 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
• In all 4 questions are to be asked.
• Two Essay type questions, each with internal option, carrying 20 marks each
• One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
• Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus
Unit-1 Nature of Economic Growth : Meaning and definition of economic growth, Distinction between Growth and Development; Importance of economic growth; Role of Institutions in Growth and Development; Role of education, research and knowledge; Factors affecting economic growth - Capital and Labor; Impediment to Economic Growth - Capital Deficiency, Market Imperfections, Lack of (Skilled Labor, Capable Entrepreneurs, Adequate Means of Transport & Communication, Political Factors, Natural Factors and External Factors.

Unit-2 Classical Growth Theories : Classical theories of Growth; Explanation and evaluation of growth theories of Adam Smith, Ricardo and Malthus; Role of Technology in Economic Growth.

Unit-3: Growth Models : Meaning, nature and scope of growth models; Growth models and its characteristics; Growth Models of Harrod and Domar, instability of equilibrium; Neoclassical Growth Models –Solow’s model, Mrs. Robinson’s and Kaldor’s Growth Models, Requirement of Steady Growth; Limitation of these Models ; Applicability of growth models to underdeveloped countries.

Unit-4 Other Growth Models : Technical progress – Hicks and Harrod; and learning by doing; Production Function approach to determinants of growth; Endogenous growth –role of research, education and knowledge. Schumpeter’s Theory of Growth. Explanation of cross country development and growth differentials

Reading List:
1. Clark C., "The Condition of Economic Progress"
2. Chakravarty S. 1998, Writings on Development, OUP(I),
3. Das Gupta A.K. "Planning and Economic Growth"
4. Datta A. "Paths of Economic Growth"
5. Dewett, Verma and Wadhwa, "Economics of Growth and Development"
ECT-I_2.3: Economics of Infrastructure-1

PREMBLE:
It is necessary to know costing and price of infrastructure services for students of economics. The Present course is theoretical showing economic aspects of development and investment in infrastructure. It is showing public and private sector contribution in infrastructure growth. This paper exposes students to issues involved in Infrastructure in developing countries like India.

Semester-II (Elective) : ECT-I_2.3 : Economics of Infrastructure-1
Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus

Unit-1: Theories of Economics of Infrastructure: Infrastructure in economic development - public good, social good and physical infrastructure - special characteristics of public utilities. The peak load, off load problem. Dual principal controversy - Economics of scale in joint supply - Managing cost pricing and other methods of pricing utilities, cross-subsidization - free prices equity and efficiency.

Unit-2: Transportation Economic: The structure of transport costs and location of economic activities - Demand for Transport cost function in transport sector - Principle of pricing - Special problems of individual Modes of transport.

Unit-3: Communication Economics: Rate Making in Telephone utilities, principle of decreasing cost in economics - Characteristics of postal services - criteria for fixed postal rates - Measurement of standard of services in Telephone and Postal utilities.

Unit-4: Energy Economics: Energy & Economic development - Factors determining demand for energy - Effect of energy shortage costing and pricing of energy - energy conservative renewable and non-conventional sources of energy optimal energy policy in India - Public private partnership in energy investment and energy development. Infrastructure is a pre-requisite of growth.

Basic Reading List:
4. Govt. of India (1968) Interim Report on P & T Enquiry Committee, Govt. of India, New Delhi.
10. World Development Reports, Washington, D.C.

ECT-I_2.4: History of Economic Thought

PREMBLE:
This course is essential for a student who aspires for advanced training in economics. Contemporary economic science has evolved over many centuries. The evolution of economic ideas in each instance was as much a response to immediate economic problems and policy issues as much as it was a self-conscious attempt to refine earlier analysis. Economic ideas did not evolve in isolation, but were an integral and important part of the evolution of modern social thought. Prevailing ideas of science, scientific rigor and measurement played a significant role in the shaping of economic science at each stage of its evolution. This course, tracing the history of economic thought, would enable the student to understand how contemporary economics came to what it is.

Sem.-1 (Elective) ECT-I_2.4 : History of Economic Thought
Teaching Hours: 60
Marks: 100: External: 70 and Internal: 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
• In all 4 questions are to be asked.
• Two Essay type questions, each with internal option, carrying 20 marks each
• One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
• Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus

Unit-2 :Classical Period: Adam Smith - division of labour, theory of value, capital accumulation, distribution ideas on economic development and international trade. Thomas R. Malthus - theory of population, theory of gluts; Karl Marx - dynamics of change, theory of value, surplus value, profit, and crisis of capitalism; Economic ideas of J.B. Say, J.S. Mill;

Unit-4 : Post War Developments : Development Economists and evolution of growth and development theories- Myrdal, Kuznets, Paul Streeteen, Harrod, Domar-Development Indicators, HDI, Development debates, Sustainable development, Institutional Economists-Douglas North; Development and Welfare: A K Sen

Basic Reading List:

Semester –II

COR-II_04 : Micro Economics-2

PREMBLE:
This course deals with the micro and macro theories of distribution and welfare economics. It equips students for policy evaluation tools and concepts. It gives micro and macro perspectives of income distribution and helps in developing insight into working of economy with reference to welfare of individual and its implications.

Syllabus:


Suggested Readings
5. Taylor & Vernon: Microeconomics and Decision Models of the Firm.
10. Ahuja H L: Principles of micro Economics, S. Chand & Co, Delhi, 2011

COR-II_05 : Macro Economics-2

Preamble:
Macroeconomics or aggregative economic analysis establishes the functional relationship between the large aggregates. The aggregate analysis has assumed such a great significance in recent times that a prior understanding of macroeconomic theoretical structure is considered essential for the proper comprehension of the different issues and policies. Macroeconomics now is not only a scientific method of analysis; but also a body of empirical economic knowledge.

Semester-II (Core): COR-II_05 : Macro Economics-2
Teaching Hours: 60
Marks: 100: External: 70 and Internal: 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam
Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
• Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

**Syllabus**

**Unit-1: Consumption Function and investment function:**
Keynes psychological law of consumption - implications of the function: income - consumption relationship - absolute income, relative income, and life cycle and permanent income hypotheses. -- Marginal efficiency of investment and level of investment; Marginal efficiency of capital investment - long run, The accelerator and investment behavior, impact of inflation.

**Unit-2: Neo-classical and Keynesian Synthesis:**
Neo-classical and Keynesian views on interest and income; The IS-LM model, Derivation of IS and LM curves, and stability; Extension of IS-LM model with government sector; Relative effectiveness of monetary and fiscal policies, Extension of IS-LM models with labor market and flexible prices.

**Unit-3: Theory of Inflation:**
Classical, Keynesian and Monetarist approaches to inflation, Structuralism theory of inflation; Philips curve analysis - Short run and long run Philips curve; Samuelson and Solow - the natural rate of unemployment hypothesis; Tobin's modified Philips curve; Adaptive expectations and rational expectations; Policies to control inflation.

**Unit-4: New Macroeconomics:**

**Basic Reading List:**

**COR-II_06 : Public Economics-2**

**PREMBLE:**
Role and functions of the Government in an economy have been changing with passage of time. It is necessary for post-graduate students to know principals of public finance and package of policy executed by the State Government and Central Government. Budgetary policy is an important part to understand the basic problems of use of resources, distribution of income, etc. This paper aims to well-equipped P.G. students of Economics about tax system, public expenditure, public debt and budgetary procedure as stabilization instrument. This paper also explain through understanding of fiscal institutions.

**Sem:2 COR-II_06 : Public Economics-2**
Teaching Hours: 60
Marks: 100: External: 70 and Internal: 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

**Structure of Question Paper**
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

**Syllabus:**
**Unit-1 Public Debt:** Meaning and Definition Public debt- Objective of Public debt- Difference between Public debt and private debt -Classification of Public debt –Sources of Public debt – Redemption of Public debt –Effects of Public debt - Principles of of Public debt - Burden of Public debt – Trends of Public debt in India.
**Unit-2 Fiscal Policy:** Meaning and definition of Fiscal policy- Objective of Fiscal policy – Instruments of Fiscal policy – role of fiscal policy in controlling inflation - fiscal policy for full employment – limitations of fiscal policy – fiscal reforms in India.
**Unit:3 Budget:** Concept of budget- Kinds of Budgets-Components of the Government Budget- Zero-base budgeting - different concepts of budget deficits - Budgets of the Union Government in India.
Basic Reading List:

ECT-II_3.1: Managerial Economics: Business Environment

PREMBLE:
The objective of the course is to provide the student with a background of various environment factors that have major repercussions on business and sharpen their mind to watch and update the changes that occur constantly in this sphere. Managerial analysis did not evolve in isolation. But were in integral and important part of the evolution of modern economic thought and policy. Prevailing ideas of science, scientific thought and measurement played a significant role in the shaping of economic science at each stage of its evolution. This course, would enable the student to understand how contemporary society, polity and business interact with each other. Teaching pedagogy b for this course be based on illustrating ‘cases’ and not mere description.

Semester-II (Elective) : ECT-II_3.1 : Managerial Economics: Business Environment

Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

Syllabus
Unit: I : Government industry interface – market intervention, need for regulation and promotion monitory and fiscal policies. Analysis of business environment social, political, economic and technological – PEST, SWOT analysis - Demography, Market, Polity and Society


References:
1. Dutt and Sundaram, Indian Economy, S. Chand, New Delhi, 2007.
3. Justin Paul: Business Environment, 1e 2006, Tata MH

ECT-II_3.2: Economics of Financial Markets and Institutions

PREMBLE:
The positive and significant role of financial institutions in the process of growth and development has been very well recognized in the literature and indeed has become more important during the last two decades as the financial systems of different countries have become integrated in the process of globalization. India is no exception and has taken far reaching measures since 1991 in this direction. It is, therefore, essential that the students of economics should be well conversant with the theory and practice of different financial institutions and markets to understand and analyze the interconnection between the monetary forces and real forces, their developmental role and limitations in shaping and influencing the monetary and related policies both at the national and international levels.

Semester-II(Elective): ECT-II_3.2 : Economics of Financial Markets and Institutions

Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30

Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

Syllabus


Recommended Readings:
6. Reserve Bank of India: Various Reports.

ECT-II_3.3: Industrial Economics-2

PREAMBLE: This paper aims at application of economic theories for industrial development. It is necessary for M.A students to know various theories and practices for industrial location and development. Moreover, students interested to start his own industry must know locational factors, regional factors, industrial finance and problems of industrial management. Therefore this paper is very useful as applied knowledge to M.A economics students.

Semester-II (Elective): ECT-II_3.3: Industrial Economics-2

Teaching Hours: 60
Marks: 100: External: 70 and Internal: 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

Syllabus
Module – 1: Industrial Location:-Factors affecting industrial location, Theories of Industrial location Weber, Sergeant Florence, recent theories of industrial location. Movement of industries in developed and developing countries.
Module – 2: Indian Industrial Growth:-Classification of Indian Industries, growth of industries and role of industrial policy in India. Role of public and private sectors in growth of industries. Recent trends in industrial growth and role of private sector MNCs role, transfer of technology, Liberalization and Privatization in Indian context.
Module – 3: Regional Industrial growth in India:-Regional Industrial growth in India. Causes of industrial imbalances, Industrial economic concentration, its remedies, industrial poliferation and environmental preservation, pollution control and government policies.
Module – 4: Industrial Finance:-Sources of Industrial finance, owned and external and other sources, role, nature volume and types of institutional finance. Different institutions of finance
(IDBI, IFCI, SFCS, SIDC etc) Balance Sheet and financial statement, profit and loss account. Assessment of financial soundness.

**Basic Reading List:**
6. Government of Indian, Economics Survey (Annual)

ECT-II_3.4: Economics of Urbanisation

**PREMBLE:**
Urbanization is fast spreading in India. Critical analysis of the economics of cities and urban regions is gaining importance day after day. The post graduate students can persue a bright career as an urban analyst. The course will cover a wide range of theoretical approaches and policy options such as the existence and growth of cities, land use theories, urban transportation, pollution, poverty, crime, and housing.

Semester-II (Elective) : ECT-II_3.3: Industrial Economics-2

Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

**Structure of Question Paper**
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

**Syllabus**

**Unit-1 : Market Forces in Development of Cities and Land Use**

**Unit-2 : Local Government Expenditures and Taxes**
Finances for local governance:-trends-policy and problems. Sources of Income and Expenditure for local government. Revenue and Expenditure Efficiency.
Unit-3: Supply of Urban amenities: Problems and Public Policy
- Creation of Urban Amenities and Cost effective deliverance – Issue of cost recovery and quality of services-Indian experience of JnURM. Urban Transportation: - congestion and policy options - deficit of transit authorities - efficiency of bus vs. train system (rail/subway) - light rail systems – parking-JnURM & urban Transportation in India

Unit-4: Housing and Public Policy
- Urban Housing policy for poor – Institutional structure for housing – problems of urban slums - redevelopment of urban slums

Readings:

ECT-II_4.1: Economics of Demography-2

PREMBLE:
The main objective of this paper is to make the students aware of the importance of population in economic development and the various theories that explain the growth of population in a country. The paper also enlightens the student on the quantitative and the qualitative aspects and characteristics of the population through various demographic techniques. In recent times, gender characteristics of the population have acquired importance and these have also been included in the framework of study. Migration and urbanization are the characteristics of structural change taking place in a society. Their study is essential to understand the dynamics of this change. The paper exposes the students to sources of population and related characteristics as also to the rationale, need and evolution of population policy.

Semester-II (Elective): ECT-II_4.1: Economics of Demography-2
Teaching Hours: 60
Marks: 100: External: 70 and Internal: 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper:
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

Syllabus
Unit 1: Theories of population – Malthus, Optimum theory of population; Theory of demographic transition Views of Meadows, Enke and Simon; Population and development.
Unit 2: Determinates of age and sex structure; Demographic effects of sex and age structure; economics and social implications; age pyramids and projections – Individual aging and
population aging; Mortality – Death rates, crude and age-specific; Mortality at birth and infant mortality rate; levels and trends in more and less developed countries; Sex and age pattern of mortality; Factors for decline in mortality in recent past.

**Unit 3** Life Table – Construction and uses; Concepts of stable population; Methods of population projection. Migration: Concept and types – Temporary, internal and international; International migration- its effects on population growth and pattern; Factors affecting migration; Theories of migration related to internal migration

**Unit 4** Evolution of population policy in India- The shift in policy from population control to family welfare, to women empowerment; Family planning strategies and their outcomes; Reproductive health, maternal nutrition and child health policies; Population and strategies for human development of different social groups; Social impact of new reproductive technologies and their regulation; The new population policy; Tasks before the National Population Commission.

**Basic Reading List:**

8. [www.censusindia.gov.in](http://www.censusindia.gov.in) for the latest Census data reports

**Additional Reading**

- Baud, I.S.A. (1992), Form of Production and Women’s Labour, Gender Aspects of Industrialization in India and Mexico, Sage, New Delhi.
• King M. and M.A. Hill (Eds.) (1993), Women’s Education in Developing Countries: Barriers, Benefits and Politics, John Hopkins, Baltimore.
• Lewis (Ed.) (1989), Strengthening the Poor: What Have We Learnt, OECD, Paris.
• Sudarshan and A. Shariff (1999), Gender Population and Development, Oxford University Press, New Delhi.
• Seth M. (2000), Women and Development: The Indian Experience, Sage, New Delhi.

ECT-II_4.2 : Theories of Economic Development

PREMBLE:
Economic development is a process under which economics go for several changes. It is necessary for P.G. students in economics to know theories, practices and policies. Most of the development theories reveal process to manage development process in developing countries. A student of developing countries like India can be benefited the knowledge of such process.

Semester-II (Elective) : ECT-II_4.2 : Theories of Economic Development

Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
• In all 4 questions are to be asked.
• Two Essay type questions, each with internal option, carrying 20 marks each
• One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
• Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

Syllabus
Unit-1 : Concept of Development and Underdevelopment; Role of Government and Markets; Perpetuation of underdevelopment; Vicious circle of poverty; Structural view of underdevelopment; Measuring Development : Per Capita Income, Human Development Index, Physical Quality of Life Index; Population problem.
Unit-3 : Indicators and measurement of poverty; Importance of agriculture and industry in economic development; Choice of techniques and appropriate technology; Investment Criteria, Elementary Cost benefit Analysis; Role of fiscal and monetary policies in economic development.
Unit-4 : Theories of development- Classical, Marx and Schumpeter; Imperfect Market Paradigm; Ranis-Fei model of development; Dependency Theory of Development; Factors in development of economy - Natural resources, Population, Capital, Human resource development and Infrastructure;
Basic Reading List
1. Kindleberger C.P. "Economics Development"
2. Meier and Baldwin : "Economic Development"
5. Sen A.K "Choice of Techniques:
8. Meier and Baldwin “Economic Development”
11. Chakravarty S. 1998, Writings on Development, OUP(I),
15. Krishnamurty, (ed) 2009 Towards Development Economics, OUP(I)

ECT-II_4.3 : Economics of Infrastructure-2

PREMBLE:
This course highlights basic problem of infrastructural development. It is necessary for students to know economic problems and record policies for infrastructure growth in India. Economic policy requires under reform to boost infrastructure growth in developing country like India. Development issues and policies for infrastructure appear equally important for postgraduate students of Economics. This paper has greater operational utility in consultancy services by an economist and hence detail case-study approach is required while teaching at postgraduate level.

Semester-II (Elective) : ECT-II_4.3 : Economics of Infrastructure-2
Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam
Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

Syllabus
Unit-1: Electricity and Water Resources: Developmental problems of Thermal, hydel and Nuclear power plants, Financing of water utilities. Publicly for water development problems of urban and rural water supply pricing of water, gas and electricity.
Unit-2: Transport growth in India: Problem of road development in India, pattern of Road development and its financing in India, Development of Railway, ticket and freight charges determination. Five year plans - and growth of railways. Airport development and privatization, port development and shipping in India
Unit-3: **Social Infrastructure:** Education & Economic growth - Approaches of Educational Planning - Return and Manpower Approaches. Human Resources and Human Capital development Health Dimension and Development, Economic Dimensions of health care - Financing of healthcare - Institutional issue in health care delivery.

Unit-4: **Economic Policy for Infrastructure growth:** Rakesh Mohan Committee report on Infrastructure development in India. BOOT - Public Private Partnership growth in India - Five year plan & infrastructure investment - NRI & FDI in infrastructure growth in India.

**Basic Reading List:**

ECT—II_4.4: Indian Economic Thoughts and Thinkers

**PREMBLE:**
The objective of this course is to expose students to Indian Economic thoughts. India is one of the ancient civilizations of the world. India has rich heritage of culture and ethos reflecting economic thought of relevant time. Since ancient time India has produced economic thinkers whose ideas have shaped destiny of this nation. Students shall enrich their understanding of the contemporary economic policies and practices better by familiarizing themselves with works and economic ideas of these great thinkers from India.

**Semester-II(Elective): ECT-II_4.4 : Indian Economic Thoughts and Thinkers**
Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ type or any innovative questions based on all units and will carry 10 marks

**Syllabus**

**Unit I :** Ancient Economic Thought. Economic Ideas During Vedic Period; Manu’s *Varnashram Pratha*, Kautilya’s *Arthashastra*;

**Unit II :** Earlier Economic Thinkers: Dadabhai Naoroji, Mahdev Govind Rande, Romesh Chandra Dutt, J.K. Mehta

**Unit III :** Gandhian Economic Thought : Economic Ideas of Gandhi in *Hindswarj; Swadeshi, Khadi and Cottage Industry, Antyodya*

References:

- Ratan Lal Basu and Raj Kumar Sen ; 2008 ; ANCIENT INDIAN ECONOMIC THOUGHT Relevance for Today, ISBN81-316-0125-0Rawat publications

Semester –III

COR-III_07 : International Economics-1

PREMBLE:
International trade acts as an engine of growth. It is necessary for P.G. students in economics to know International trade theories, practices and policies, It will help them to examine impact of trade policies followed by welfare implications.

Semester-III (Core): COR-III-07: International Economics-1
Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper

- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus

Unit-1 :Concept of Inter-regional and International Trade; Theory of Comparative Advantage, Heckscher-Ohlin Theory of trade, Factor Endowment and Factor Price, Leontief Paradox. Empirical verification and relevance of theories; International Trade under Imperfect Competition.

Unit-2 : Terms of Trade and Economic Growth; Secular deterioration of terms of trade hypothesis : a critical review; International trade as an engine of growth; Gains from Trade and LDCs ; Foreign Trade Multiplier: Trade and Labour Skills Theory by Donald Kessing; Research and Development factor and Structure of Commodity Trade (By Gruber, Mehta and Vernon)
**Unit-3:** Measurement of Gains from Trade; Concepts of Terms of trade, their uses and limitation; Factors affecting Terms of Trade. Impact of Tariffs; Political economy of Non-tariff Barriers; Trade and Development; Trade as engine of growth: Two Gap analysis- views of Prebisch, Singer and Myrdal.

**Unit-4:** Meaning and concepts of Balance of Trade and Balance of Payment - Equilibrium and Disequilibria in Balance of Payment - The process of adjustment under systems of Gold Standard - Steps to correct imbalance of payments, traditional and monetary approaches for adjustment in the Balance of Payment- Theory of international reserves- Theory of Foreign Exchange Rate

**Basic Reading List:**

**COR-III_08 : Contemporary Issues in Indian Economy-1**

**PREAMBLE:** The objective of this paper at the post-graduate level would be to sharpen the analytical ability of the student by highlighting, and integrated approach to the functioning aspects of the Indian economy. Keeping in view the scope for alternative approaches, such an analysis is essential because the Indian economy is a unique amalgam of alternative competing and often conflicting theories and a proper understanding of its working is imperative if the student is to comprehend the ramification that underline most of the observed phenomena in the Indian economic set-up. The emphasis of the paper is an overall social, political and economic environment influencing policy decisions. To develop all the themes, the course is divided into specific modules. Paper of planning and development and paper of policies for sectoral development fulfill above objectives.

**Semester-III (Core): COR-III-08: Contemporary Issues in Indian Economy-1**

**Teaching Hours : 60**
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

**Structure of Question Paper**
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

**Syllabus**

**Module – 1:** Economic Development:- Concept and approaches to economic development and its measurements (determinants) – sustainable development. Role of state and market in
economic development. Other institutions. Indicators of development PGLI, HDI, gender development indices and other indicators.

**Module – 2**: Planning in India:-Importance and objectives of planning, planning strategy, its failure and achievements, current five year plan, developing grass-root organization for development. NGOs, Panchayati Raj and pressure groups.


**Module – 4**: Public Finance:-Fiscal federalism, Role of State and centre its financial relations, Finances of central government, finances of state governments, parallel economy, problems relating to fiscal policy, fiscal sector reforms in India.

**Basic Reading List:**


**COR-III_09 : Environmental Economics: Theories**

**PREMBLE:**
This course in meant to acquaint student with the basic theories of environment economics so that they can develop and use appropriate theoretical frame to analyze and understand important environmental issues.

**Semester-III (Core): OCT-9 : Environmental Economics: Theories**
Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam
Structure of Question Paper

- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus

Unit-1 : Environmental Economics : Meaning, Nature and Scope: Meaning of environment economic; various definitions; relationship between mainstream economics and environment economics: nature of environmental economics: its positive and normative aspects: interdisciplinary nature of environmental economics: relationship of environmental economics with other disciplines.

Unit-2 : Market Failure Decision making: Market efficiency and Parato-optimality; Market failure possibilities with reference to environmental resources; the reasons for market failure: externalities and problem of cost-internalization; public goods and common-property type nature of environmental resources. Unclear property right, informational asymmetries and possibilities of missing markets.

Unit-3 : Environment and Development: Relationship between environment and development: Theory of sustainable development and problems of operational sing this theory; indictors and rules of sustainability methods of environmental valuation; integration of national and environmental accounting.

Unit-4 : Optimal Use of Environmental Resources: Application of Capital Theory for the optimal use of environmental resources, theories for the use of non-renewable resource; Theories for the use of renewable resources.

Basic Reading List:

1. Ayres, R.U. and Leslie Ayres, (1998), Accounting of Resources Vol-1, Edward Elgar,
ICT-III_1.1 : Agricultural Economics: Theories

PREMBLE:
The Objective of the course is to familiarize student with policy issue that are relevant to Indian Agricultural Economics sand enable them to analyze the issues. Using basic micro economic concepts.

Semester-III(Elective/Inter/Multi disciplinary): ICT-III_1.1 : Agricultural Economics: Theories
Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus
Unit-1 : Agricultural and Economics Development : Nature and scope of agricultural and rural economics - Traditional agriculture and its modernization - Role of agriculture in economic development - Interdependence between agricultural and Industry - Role of agricultural in Economic development.

Unit-2 : Land Use policy and Social Infrastructure: : Land Use Policy - Land distribution - Problems of small and marginal farmers, Rural Social infrastructure - Land, water, energy, education and health.


Basic Reading List:
ICT-III_1.2 : Basic Mathematics for Economists

PREAMBLE: Mathematics has found its applications in economics in the form of model building for planning and development. Mathematical transformation of the economic theory provides precision to the logic and understanding of economics. This paper intends to train and equip student with the basic understanding of Mathematics, which they may use in advance courses of this subject.

Semester-III(Elective/Inter/Multi disciplinary) ICT-III_1.2 : Basic Mathematics for Economists

Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus:
Unit 1: Basics of Mathematics-I: Variables, Types of variables, Relations, Cartesian Product, Function, Inverse Function, power function, exponential function, logarithm function, linear function; Number system, Theory of set.
Unit 2: Basics of Mathematics-II: Concepts of Limit, Continuity and differentiation of a function; Rules of differentiation of function; Concept of Integration, Economic application of Differential and Integral calculus-Consumer’s Surplus, Elasticity of Demand and Marginal Revenue.
Unit 4: Economic Models: Construction of a Mathematical Model for Economic Applications, Endogenous and Exogenous Variables, Parameters, Constants; Structural and Reduced forms of Equations; Single Market Model, Multiple Market model, National income model.

REFERENCES:
3. Deshpande V D , A R Chanderkar and M. L. Vaidya, A New Course in College Algebra, S.Chand and Co. Delhi
5. Madnani G M K. 2003, Mathematical Economics, oxford and IBH, Delhi

ICT-III_1.3 : Economics of Financial Management

PREMBLE:
Finance is heart of all commercial activity. Mangers of enterprises today have to deal with financial aspects of commerce. So those who intent to apply knowledge of theory of finance need to get aquatinted with applied aspect of theory. This course aims to fulfill this aspect. This course is Inter /Multi disciplinary in nature as this could taken as an applied course by any post graduate student.
Semester-III(Elective/Inter/Multi disciplinary): ICT-III_1.3 : Economics of Financial Management

Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper

- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus


Unit – IV : Economics of Cash- Cash Budgeting and its Simulation, Optimal Cash balance, Baumol Model, Miller and Orr Model; Economics of Receivables; Discriminate Analysis and Customer Classification; Economics of Inventory – EOQ Mode, Pricing of Raw materials, Monitoring and Control of Inventories.


Reading List:
ICT-III_1.4 : Economics of Gender and Development

PREMBLE:
Gender biases in societal practices and development polices have resulted in persistent gender inequalities. It is increasingly being realized that mitigating such inequalities and enhancing women’s capabilities and entitlements are crucial to the overall development of the country. This course, Economics of Gender and Development will provide students understanding of nature of the economic role of women and their contribution to the national economy and economic development on the basis of scientific and non-sexist analysis. Specificity of issues pertaining to India be highlighted while teaching.

Semester-III(Elective/Inter/Multi disciplinary): ICT-III_1.4 : Economics of Gender and Development
Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus
Unit-I: Importance and Concepts of Women Studies — Women in Patriarchal and Matriarchal Societies and Structures, Patriaical and Matrilineal Systems and Relevance to Present Day Society in India; Economic Basis and Functioning of Patriarchy in Developed and LDCs, Particularly India; Gender Bias in the Theories of Value, Distribution, and Population.


Unit-III: Factors Affecting Decision Making by Women; Property Rights, Access to and Control over Economic Resources, Assets; Power of Decision Making at Household, Class, Community Level; Economic Status of Women and its Effect on Work-participation Rate, Income Level, Health, and Education in Developing Countries and India; Role of Kinship in Allocating Domestic and Social Resources. Factors Affecting Female Entry in labour Market; Supply and Demand for Female Labour in Developed and Developing Countries, particularly India; Studies of Female
Work Participation in Agriculture, Non-agricultural Rural Activities, Informal Sector, Cottage and Small-scale Industries, Organized Industry, and Services Sector; Wage Differentials in Female Activities; Determinants of Wage Differentials; Gender, Education, Skill, Productivity, Efficiency, Opportunity; Structures of Wages Across Regions and Economic Sectors.

**Unit-IV:** 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 — Economic Status, Private Property, and Participation of women in Pre-industrial and Industrial Societies — Female Contribution to National Income.

**READING LIST:**

12. Papola, T.S. and A.N. Sharma (Eds.): Gender and Employment in India.

**ICT-III_2.1 : Labour Economics : Theories**

**PREMIBLE:**

Labour sector is very vast and wide. It included white collar and blue collar jobs. As a post-graduate student of student Economics, it is necessary to study Labour Economics. It is also important to know the labour theories, approaches etc. for analyzing labouring problems. In India most of the labour are in unorganized sector and their problems are specific. The study of labour economic should be systemic, scientific and analytical. The syllabus is structured accordingly for this. Here the subject is divided in two parts, namely, Labour Theories and Labour problems. In this section, the theories of labour are analyze. In these theories of labour,
the main theories are theories of labour market, theories of wages, theories migration, productivity theory, etc

**Semester-III(Elective/Inter/Multi disciplinary): ICT-III_2.1 : Labour Economics : Theories**

Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

**Structure of Question Paper**
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

**Syllabus**

**Unit-1: Introductory Outlook of Labour Economics:** Meaning and definition of Labour Economics - scope and nature of Labour Economics- peculiarities of Labour, Labour problems in India, Labour policy of government of India.

**Unit-2 : Labour Market Analysis:** Meaning and definition of Labour Market - characteristics of Labour market, difference between commodity market and labour market - nature of Labour market in developing countries like India - demand of labour and supply of labour - factors affected to demand of labour and supply of labour

**Unit-3 : Wage Analysis:** Meaning and definition of wages, components of wages - wage theories of marginal productivity, demand-supply theory, collective bargaining theory, concepts of wages - minimum age - fair wage - living wage - wage differentiation - wage determination in various sectors.

**Unit-4 : The Migration and Mobility Analysis:** Meaning and definition of migration - types of migration, causes and of migration consequences of Migration – meaning of mobility – types of mobility – difference between migration and mobility.

**Basic Reading List:**
2. Ghose, Ajit K. (2003), Job and Income in Globalizing World II O.

**ICT-III_2.2 : Econometrics**

**Preamble:**
Applications of economic theory need a reasonable understanding of economic relationships and relevant statistical methods. The econometric theory thus becomes a very powerful tool for understanding of applied economic relationships and for meaningful research
in economics. This paper accordingly is devoted to equip the students with basic theory of econometrics and relevant applications of the methods. The topics covered in the course include various problems faced in estimation of both single equations and simultaneous equations models. The course also covers various econometric methods applicable to different topics in economics and those needed for applied economic research. An introductory module on multivariate methods has also been included in the course which constitutes an important tool for analysis in multivariable data in development-related studies.

**Semester-III (Elective/Inter/Multi disciplinary): ICT-III_2.2 : Econometrics**

Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

**Structure of Question Paper**
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

**Syllabus :**

**Unit – I:** Definition and scope of Econometrics - methodology of econometrics - nature and sources of data for econometric analysis - contribution of econometric methods to the development of Economics - limitations of econometric methods.

**Unit - II :** Two-variable regression analysis : Stochastic and non-stochastic relations - the concept of 'population regression function' and its stochastic specifications - the 'sample regression function' - 'ordinary least-squares' (OLS) method of constructing 'sample regression function' - estimation of regression parameters - assumptions underlying classical linear regression model - properties of least-squares estimators - coefficient of determination r2 as a measure of 'goodness of fit'.

**Unit –III:** Violation of the assumptions of classical linear regression model : Autocorrelation and heteroscedasticity - meaning, sources, methods of detection, consequences and remedial measures. Dummy (or binary) variables : Nature of dummy variables - regression on dummy variables (one quantitative variable and one qualitative variable) - Uses of dummy variables - dummy variables and heteroscedasticity - dummy variables and autocorrelation - dummy variable trap.

**Unit -IV :** Further problems of regression analysis : Multiple regression model and multicollinearity - consequences of multicollinearity - remedial measures - specification bias - lagged variables and distributed lag models (general form only)

**REFERENCES :**

ICT-III_2.3 : Economics of Insurance Services

Preamble:
The vital role of insurance in the task of risk-bearung and risk-elimination in the economic affairs has not been appreciated adequately in our country. Given that the element of risk or uncertainly is a universal and fundamental phenomenon in our economic life, the importance of insurance as a means of reducing uncertainly and risk in regard personal and business activities cannot be overemphasized. The role of insurance sector in mobilizing a country’s saving for channeling them into capital formation and thus contribute to a country’s economic development is also documented. There is a wide spread recognition that insurance, particularly life insurance, is a prominent segment of applied economics. Insurance industry is an important constituent of financial services industry in India and is a major investment institution and prominent player in the capital market. However, in our country, study of the subject of insurance has largely remained neglected. With the opening of the insurance for private Indians and foreign players, the interest in the subject has been kindled. The course on Insurance Economics attempts to give a fairly comprehensive view of the subject to the postgraduate students in Economics and pave the way for possible future expansion of the teaching of an important branch of economics.

Semester-III (Elective/Interdisciplinary Multidisciplinary): ICT-III_2.3 : Economics of Insurance Services
Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus
Unit- 1: Economic Security: Human quest for economic security through time; Exposure to losses; Role and definition of insurance; Risk pooling and risk transfer; Economic and legal perspectives, Social vs. private insurance; Life vs. non-life insurance; Classification of life, health and general insurance policies.

Unit- 2: Fundamentals of life & health insurance: Functions of life & health insurance; Mathematical basis of life insurance; Plans of life insurance; Legal aspects of life insurance; Provisions of policies; Individual health insurance; Uses and types of evaluation; Principles of underwriting of life & health insurance; Group insurance and superannuation (pension) schemes.


References :
• Insurance Institute of India, Life Assurance Underwriting, (IC-22), Mumbai.
• Insurance Institute of India, General Insurance Underwriting, (IC-22), Mumbai.
• Insurance Regulation and Development Authority (2001), IRDA Regulations, New Delhi.

ICT-III_2.4 : Computer Applications in Economic Analysis - 1

Preamble:
The growth and spread of computer and its invasive presence in every sphere of intelligent human activity is forcing every educational system and discipline to adopt and integrate its fundamentals into course curricula. It is to produce computer literate and well-educated post-graduates who can get not only employment but also create work and produce value added output in the society, for which present syllabus is being designed. We believe this will make our new graduates more proficient, suitable and fit to face the future challenges in society.

Semester-III (Elective/Interdisciplinary Multidisciplinary): ICT-III_2.4 : Computer Applications in Economic Analysis – 1

Prerequisite for Introduction of this Course: (i) To be offered by regular students only, (II) To be run by the University PG Departments where exclusive Computer Lab Facilities are available.

Teaching Hours: 30 Theory and 45 Hours Practical

Marks: 100: (Internal Evaluation: 30 marks and Semester End Exam : 70 marks).

Mode of Evaluation: (i) Internal Evaluation of 30 marks shall consist of – 10 marks for Assignment; 10 marks for Presentation and 10 marks for Internal Test. (ii) Semester End Examination of 70 marks- 40 marks for written Theory Exam of 90 minutes and 30 marks for Practical Exam of Three Practical each of 10 marks and of 60 minutes duration.

Structure of Question Paper for Sem End Exam

• 40 marks Theory and 30 Marks for Practical
• Theory must have descriptive, short and MCQ type of questions.
• Three practical to be set for Semester End Practical Exam each of 10 marks.
Syllabus

Unit-I : Basics of Computers: Computer fundamentals; Organization and components of a computer; Computer hardware — CPU; Memory; Disk drives; Input and output devices; Keyboard; Mouse and VDU; Computer peripherals like printer, scanner, digitizer, etc.; Computer software — Operating system, application software and packages.

Unit-II : WORD PROCESSING: Understanding Word Processing; Creating Documents In Word; Starting Microsoft Word; Using The Blank Document Template; Typing Text Into A Document; Saving Your New Document; Typing Numbers Into Your Document; Inserting A Date Into Your Document; Making Basic Changes To Your Document; Checking The Spelling In Your Document; Saving Changes To An Existing Document; Printing Your Document; Safely Closing Your Document; Word Processing Quick Reference.

Unit-III : SPREADSHEETS: How Spreadsheets Work; Spreadsheet Functionality; Starting Microsoft Excel; Understanding Workbooks; Using The Blank Workbook Template; Typing Text Into A Worksheet; Saving Your New Workbook; Typing Numbers Into A Worksheet; Typing Simple Formulas In a Worksheet; Easy Formulas; Typing Dates In A Worksheet; Easy Formatting; Checking Spelling In A Worksheet; Making And Saving Changes; Printing A Worksheet; Charting Your Data; Safely Closing A Workbook; Spreadsheets Quick Reference.

Unit-IV : PRESENTATIONS: Understanding Electronic Presentations; Starting Microsoft PowerPoint; The PowerPoint Screen; Creating A New Presentation; Adding Text To Your Presentation; Saving Your New Presentation; Adding More Slides Using The Ribbon; Typing Directly Into A Slide; Inserting Clip Art Images; Safely Closing A Presentation; Opening An Existing Presentation; Running A Presentation Slide Show; Printing Audience Handouts; Presentations Quick Reference.

Books Recommended:
- 2007 Microsoft Office System Step by Step, Microsoft Press
- Office 2013 in easy steps, McGraw Hill Education

Semester –IV

COR-IV_10 : International Economics-2

PREMBLE:
It is necessary to for P.G. student in economics international trade finance and trade finance and trade managing institutions in era of globalization of national economics. Economic health of a nation is known by positive balance of payment situation of a nation.

Semester-IV (Core): COR-IV_10 : International Economics-2
Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus
Unit-1 : Trade policy (Past and Recent) and reforms in India's Trade Policy; Problems relating Foreign Trade in India; International Capital Flows in India-FDI, FII etc; Changes in the Volume, Direction and Composition of India’s Foreign Trade & their implication; Export promotion, Free Trade Vs. Protection and their advantages and disadvantages.

Unit-2 : Theories of Regionalism at Global level; Regional blocs – Multilateralism and world trading system-International trade under conditions of imperfect competition in goods market-Theory of Optimum currency area and its impact in the developed and developing countries


Unit-4 :

Reading List
- Joshi Rakesh : Antar Rashtriya Arthashstra", Saurashtra Uni. Rajkot, 2004

COR-IV _11: Contemporary Issues in Indian Economy-2

PREMBLE:
The objective of this paper at the post-graduate level would be to sharpen the analytical of the student and functioning of Indian economy with various policies with alternative approaches for further growth. This means that P.G. Students need to be well aware about different policies utilized during planning period in India

Semester-IV (Core) : COR-IV _ 11: Contemporary Issues in Indian Economy-2

Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
• Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

**Syllabus**

**Unit-1 : The Agricultural Sector:** Institutional structure - land reforms in India, technological change in agriculture - pricing of agriculture inputs and output term of trade between agriculture and industry, Agricultural Finance Policy, Agricultural Marketing and Warehousing, Issues in food securities - Policies for sustainable agricultural.

**Unit-2 : The Industrial Sector:** Industrial policy, public sector enterprises and their performance, problems of sick units, in India, Privatization and disinvestments debate, growth and pattern of industrialization, small scale sector, productivity in industrial sector, Exit policy - issues in labour market reforms Approaches for employment generation.

**Unit-3 : External Sector:** Structure and direction of foreign trade, Balance of payments, Issues in export-import policy and FEMA, Exchange rate policy, foreign capital and MNCs in India, The progress of trade reforms in India, Rationale of Internal and External reforms, Globalisation of Indian economy, W.T.O. and its impact on the different sectors in the economy.

**Unit-4 : Money Banking and Price:** Analysis of Price behaviour in India. Financial sector reforms Interest rate policy, Review of monetary policy of RBI, Money and Capital Markets, working of SEBI in India.

**Basic Reading List:**

- Naik , Jyoti D. 'Udyog Ni Sthal Pasandgi' Vasuki Priting, Rajkot.


**PREMBLE:**
The main objective of this course is to appraise and sensitive student about major environment issues of India and develop skill to analyze them with the help of appropriate theoretical frames.

**Semester-IV (Core ): COR-IV_12: Environmental Economics: Issues and Policies**

Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam
Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus
Unit-1 : Environment Issues of Primary Sector: Changing land-use and cropping pattern and environmental issues; the problem of grazing-land, pasture and live stock management; The problem of conservation of forests and bio-diversity; supply and quality of ground-water and its management; the conservation and management of marine fish.
Unit-2 : Industrial Development and Environmental Issues: Change in growth and structure of industries in India; growth of pollutant industries, problem of air and water pollution, management of solid and liquid wasters.
Unit-3 : International Environment Issues: The problem of trans boundary pollution : global warming and acid rain: globalization, international trade and environmental issues : The problem of trade of hazardous waste endangered species and medicinal plants, the problem of patenting, trade and environment in WTO system.
Unit-4 : Environmental Policy in India: Growth of environmental policy in India; Important environmental laws, international environment agreements and India's approach: mechanism of implementation of environment laws in India.

Basic Reading List:

ICT-IV_3.1 : Agricultural Economics: Issues and Policies

PREMBLE: The objective of this course is to provide a detailed treatment of issues in agricultural economics to those who intend to specialize in agricultural economics. The course of the paper help to familiarize student with policy issues relevant to Indian agriculture and
enable student to analyze issue problems and policies of the important sector of Indian economy.

**Semester-IV (Elective/Inter/Multi Disciplinary): ICT-IV_3.1 : Agricultural Economics: Issues and Policies**

Teaching Hours : 60
Marks : 100; External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

**Structure of Question Paper**

- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

**Syllabus**

**Unit-1 : Rural Economics Activities and Labour Market:** Rural Industrialization scope and of agro-industries, economic condition of agricultural laborers – national Rural Employment Guarantee program, main characteristics, implementation mechanism, evaluation, lessons.- Rural and Agricultural programs and its evaluation in Gujarat, economic development and Social welfare oriented programs in Gujarat and its evaluation

**Unit-2 : Co-operation and Rural Finance:** Integrated rural credit scheme - Role of Co-operative sector in rural finance - Commercial banks - RRBS - NABARD and Rural finance - New challenges in rural finance.

**Unit-3 : Agricultural Marketing and Prices:** Agricultural Marketing - Defects in agricultural Marketing - Corrective measures - Regulated and Co-operative marketing - Agricultural Price Policy - Objective - Instrument Evaluation - Food security - Agricultural prices and Public distribution scheme (PDS) Terms of trade between agricultural and non-agricultural sector.

**Unit-4 : Agricultural and External Sector:** Foreign trade in agricultural commodities - Globalization WTO and Indian agriculture - Peasant farming system in developing countries farming system in developed countries - World Food Assistance.

**Basic Reading List:**

4. Govt. of India Economic Survey (Annual), New Delhi.
5. Govt. of India, 1976, Report of the National Commission on Agriculture, New Delhi.
ICT-IV_3.2 : Basic Statistics for Economists

PREAMBLE: Statistics has found its application in economic forecasting. This paper intends to prepare students with basic understanding of statistical concepts, which may be useful later on for choosing Econometrics.

Semester-IV (Elective/Inter/Multi Disciplinary): ICT-II : Basic Statistics for Economists

Teaching Hours: 60
Marks: 100: External: 70 and Internal: 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Three Essay type questions, each with internal option, carrying 20 marks each
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks.

Syllabus:
Unit 1: Basics of Statistics-I: Applications of Statistics in economics; Population and Sample; Frequency distributions-Discrete and Continuous; Different types of Charts and Graphs; Measures of Central Tendency: Mean, Median, Mode and Weighted Average
Unit 2: Basics of Statistics-II : Significance of measures of dispersion; Various measures of Dispersion: Range, Mean Deviation, Quartile Deviation, Standard Deviation, Coefficient of Variation, Skewness and Kurtosis.
Unit 3: Multivariate Analysis: Simple Correlation analysis; Its application in Economic study,; Regression Analysis, Relationship between Correlation and Regression Analyses, Use of Regression Analysis in Economic Research
Unit 4: Theory of Probability: Elementary Probability Theory; Random Variable, Events, Probability Distribution functions; - discrete and continuous; Various Laws of Probability; Conditional Probability; Binomial and Normal Distributions

References
2. Gupta S P, 2000, Statistical Methods, S. Chand and Co., Delhi

ICT-IV_3.3 : Economics of Regionalism

PREAMBLE: Post 1990s have witnessed a new global trend in international trade and relations. This order is to stay in coming years. Post Graduate students ought to get themselves familiarize with this new economic order and its implications. Besides, others who are practitioners of trade and commerce may benefit from this course.

Semester-IV (Elective/Inter/Multi Disciplinary): ICT-IV_3.3 : Economics of Regionalism

Teaching Hours: 60
Marks: 100: External: 70 and Internal: 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
In all 4 questions are to be asked.

Two Essay type questions, each with internal option, carrying 20 marks each

One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.

Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

**Syllabus:**

**Unit - I**
- Rationale behind Regionalism: Motivation; Multinational Trade Liberalization and RIAs; Regional VS Global Liberalization; RIAs and Domestic Policy Integration; Impact of RIA Creation; Choice of partners and their impact on Small Economies.

**Unit - II**
- Economics of Custom Unions (Viner), Economics of Scale and Custom Union. Unilateral tariff reduction & Custom Union; The GATT’s Article XXIV, Preferential Trading Areas and Multilateralism. Theories of New Regionalism; New Regionalism: Revisited; World Order Approach; Regionalism and World Order: The Changing Global Setting. New Regionalism and Economics Development.

**Unit - III**
- Building Blocs of Broader Regional Cooperation; ASEAN’s Role in Asian Economic Integration; India and the Asian Economic Integration; The European Case; Systemic Sources of variation in Regional Institutionalization in Europ;

**Unit - IV**
- WTO and RTAs; Rules on Regional Trade Agreements; The EU, ASEAN, MURCUR, NAFTA, SAARC; Asian Economics Community; RTAs and Multilateral Trading System (MTS).

**Reading List:**


15. “The Economics of International Integration”, by Peter Robson, Published by Regional Trade Agreement Section, WTO, Geneva, SWISS.
17. WTO Discussion Paper No. 12, the Changing Landscape of Regional Trade Agreement, 2006.

ICT –IV_3.4 : Economics of Transportation

PREMBLE: Transport is vital sector of a developing economy. Post Graduate students need to learn principles, policy and issues of transport economics. For a geographically huge economy like ours, this sector offers job opportunities. This course shall enhance job potential of learners.

Semester-IV (Elective/Inter/Multi Disciplinary): ICT-IV_ 3.4 : Economics of Transportation
Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam
Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus
Unit-I : Role of transport in Economic Development - environmental and sociological aspects of transportation - Transport and tourism.
Unit-II : The demand for transport - The problem -of the peak - Seasonal variation - Factors affecting demand for transport - The elasticity of demand - Demand measurement and market research - The supply of transport - The economics of market structures Economies of scale - the interaction of supply and demand.
Unit-IV : Performance of transport in India - Road, Railways, Air and Water - Urban transport Pattern of growth - issues associated with urban transport - issues related to private sector participation - Financing legal and regular aspects.

REFERENCES :
1. S.K. Srivasthava, The Economics of Transport, Sullhan C'hand and Company (Module I)
2. P.C Stubbs, W.J Tyson and M.Q Daivi, Transport Economics, George Alien and Unmun, Boston, 1986 (Module - II)

ICT-IV_4.1 : Labour Economics : Issues and Policies

PREMBLE: In labour economics we can explain various economics labour problems with the help of labour theories. Form the study of the whole subject student can know the basic Labour Theories Labour problems, specific problems of child and women labour and problems of unorganized labour, Indian trade union, its weakness, globalization and labour sector, etc. This type of study is very helpful to understand Indian labour problems and Indian labour market. Considering this approach security, in industrial relations and its problems, globalization and labour problems, labour reforms, etc.

Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

Structure of Question Paper
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus

Unit-1 : Unemployment Problem: Meaning of Unemployment - Concepts of Labour force, main worker, marginal worker , Labour force participation rate, work force participation rate and unemployment rate - types and measurement of Unemployment, unemployment in India – causes of unemployment -employment policy in current five year plan and its evaluation-

Unit-2 : Industrial Relation: Meaning and definition of industrial relation, importance of industrial relations, meaning of Industrial disputes- types of Industrial disputes ,various types of strikes, Impact of industrial disputes, settlement and preventive Mechanism of industrial disputes.

Unit-3 : Labour Movement India: Meaning, Definition of Labour union - functions of labour union, growth pattern and structure of Labour unions in India - weakness and failures of Labour unions in India.


**Basic Reading List:**
2. Uchikawa, Shuji, (2003), Labour Market and Institutions in India, Manohar Publ New Delhi.

**ICT-IV_4.2 : Econometrics Applications**

**PREMBLE:**
The aim of this course is to provide an overview of the state-of-the-art of econometric tools and techniques applicable empirical modeling in applied Micro- and Macroeconomics. The focus is on building, estimating and interpreting output from models using Actual data. The course intends to equip students with application skills, necessary to execute independent research projects.

**Semester-IV (Elective/Inter/Multi Disciplinary): ICT-IV_4.2 : Econometrics Applications**
Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam

**Structure of Question Paper**
- In all 4 questions are to be asked.
- Two Essay type questions, each with internal option, carrying 20 marks each
- One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
- Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

**Syllabus**

**UNIT-I : Forecasting-I**
- Introduction: Nature, Importance and Evaluation of forecast
- Short-and Long-Term Forecast
- Univariate Methods: Smoothing Methods and Box-Jenkins approach
- Multivariate Methods: Regression Models

**UNIT-II : Forecasting-II**
- Cointegration Analysis: Testing for Unit Roots and Cointegration
- Non-parametric Methods: Judgment Methods; Technological Forecasting
- Comparison of Forecasts: Combination of Forecasts-Techniques and Benefits

**UNIT-III : Macroeconometric Model-I**
• Introduction to Macroeconomic Modelling • Framework for Modelling • Development and Comparison of Models • Key components of Macroeconometric Models • Modeling Consumption, Saving, Finance, Investment, Inflation and Trade

UNIT-IV : Macroeconometric Model-II
• Some Macro-econometric Models of Indian Economy

Note: Student would be required to Undertake Econometric Projects[using Secondary data source] on Assigned Topic [from Syllabus] by the Teacher concerned. It would from the part of Internal Assessment.

Readings:

ICT-IV_4.3 : Law and Economics

PREMBLE: In present time Law has become an integral part of economic and commercial activity. Firm, Contract, Family, Government, International Trade/agreements etc are important aspects in study of economics which are related to law. Hence this course shall prepare students to understand intricacies of law in general and its economic aspects in particular.

Semester-IV (Elective/Inter/Multi Disciplinary): ICT-IV_4.3 : Law and Economics
Teaching Hours : 60
Marks : 100: External : 70 and Internal : 30
Exam Time Allowed: 3 Hours for 70 marks at Semester end Exam
Structure of Question Paper
• In all 4 questions are to be asked.
• Two Essay type questions, each with internal option, carrying 20 marks each
• One question of 20 marks covering all units, consisting of 15 questions for short answers from which 10 are to be attempted.
• Last question consisting of 10 MCQ or any innovative type questions based on all units and will carry 10 marks

Syllabus
UNIT – I : Introduction of Law and Economics :
1. Economic Analysis of Law- An Introduction :
(a) Why do economists need to be concerned about law?
(b) Relationship between law and Economics.

II. Economic Concepts and their relevance to Law.
III. Legal Concepts:
   (a) The Common Law and the Civil Law Traditions
   (b) Introduction to Judicial System in India
   (c) Economic Approach to Legal Rules
   (d) Methodological Aspects of Legal Rules
   (e) Efficiency, Justices and the Inherent Rationality of Private Law
   (f) Development of Efficient Rules: Selected Cases.

UNIT -II : Economics of Property Laws:
I. Introduction
II. An Economic Theory of Property
III. Economics of Property Law:
   (a) Market strategies
   (b) Non-market stratifies

IV. Allocation of Property Right: First come first served; Good faith purchase; Title to land; Establishment of entitlements : (i) Property Rule, (ii) Liability Rule, (iii) Inalienability Rule

V. Property Rights (a) Property, Social Discrimination and law: Need for Affirmative Action/ Protective Discrimination (b) Inequalities and Distributive Justice

VI. Intellectual Property Rights : Copy Rights, Patent rights, Trademark, Geographical Indicators

UNIT-III : Economic Analysis of Contract and Tort Laws
(A) Contract Law:
I. Introduction;
II. Economic Theory of Contract : (a) Perfect Contracts and (b) Imperfect Contracts.
III. Economics of Contract Law:
   (A) Unconscionable: (i) Distress (ii) Transactional Incapacity (iii) Unfair persuasion (iv) Price Ignorance
   (B) Fraud.
   (C) Monopoly: Sales (Standard Form) of Contracts and Warranties.

IV. Economics of Remedies for Breach of Contract.
(B) Tort Law:
I. Introduction
II. Economic Theory of Torts Law
   A. Accident Costs and their Minimization
   B. Liability Rules (i) Negligence (ii) Contributory Negligence (iii) Comparative Negligence (iv) Strict liability

III. Economic of Tort liability
   A. Liability v Regulation
   B. Causation in Torts
   C. Joint and multiple liabilities
   D. Product Liability: Products’ Responsibility

E. Immaterial Damages: Pain and Suffering

UNIT-IV : Economics of Criminal and Public laws
(A) Criminal Law and Economics
I. Introduction
II Principal Types of Crime
III Optimal Criminal Sanctions: Economics of Crime and Punishment
IV Criminal Intent
V The Defense of Necessity
VI The Economics of organized Crime

(B) Public law and Economics
I Introduction
II Maximisation of Social Welfare (Firms and Consumers): Legislative and Executive Participation and Discretion
III Economic Analysis of Judicial Review
IV General Applications to Indian Institutions

Suggested Readings:
ICT-IV_4.4 : Computer Applications in Economic Analysis -2

Preamble: The direction towards the knowledge society shall be resting on a healthy economics and proper use of Information Technology. Economics being an empirical science, computers have emerged as the pivotal instruments of economic analysis, research and forecasting. SPSS based computer applications are getting popular besides the MS Office Excel program for handling and analysis of data. Therefore, the future economists must be equipped with skills and tools based on computers, which this course shall provide to them. This will not only enhance their employability but also prepare them for the challenges of the future.

Semester-III (Elective/Interdisciplinary Multidisciplinary): ICT-IV_4.4 : Computer Applications in Economic Analysis -2

Prerequisite for Introduction of this Course: (i) To be offered by regular students only, (II) To be run by the University PG Departments where exclusive Computer Lab Facilities are available.

Teaching Hours: 30 Theory and 45 Hours Practical

Marks: 100: (Internal Evaluation: 30 marks and Semester End Exam : 70 marks).

Mode of Evaluation: (i) Internal Evaluation of 30 marks shall consist of – 10 marks for Assignment; 10 marks for Presentation and 10 marks for Internal Test. (ii) Semester End Examination of 70 marks- 40 marks for written Theory Exam of 90 minutes and 30 marks for Practical Exam of Three Practical each of 10 marks and of 60 minutes duration.

Structure of Question Paper for Sem End Exam

- 40 marks Theory and 30 Marks for Practical
- Theory must have descriptive, short and MCQ type of questions.
- Three practical to be set for Semester End Practical Exam each of 10 marks.

Syllabus

Unit-1: Data Handling - Reading (Opening) data set, Defining attributes of variable, creating a smaller dataset by Aggregating Over a Variable, Sorting. Reading SPSS data- from spread sheet, from simple data base format, from other statistical programmes like SAS, STATA etc.

Variables- variable type, missing values, column format, variable label, value label for Dummy and Categorical variables. Creating New Variables- creating dummy, categorical and semi-continuous variables.


Unit-3: Tables – for statistical attributes, tables of frequency distribution. Formatting Tables and Charts - Accessing window for formatting and editing tables-changing width of column, deleting column, transporting, finding appropriate width and height, deleting specific cells, editing data in specific cell, inserting footnotes, formatting footnotes, changing the font of specific components (data, Raw Headers etc.), Changing boarders and Gridlines. Accessing window for formatting / editing charts, making mixed Bar/Line/Area charts, converting into a Pie chart, colour of Bars, Lines, Area etc., changing format of the Text in Labels, Titles or Legends.

References:

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