GURU NANAK COLLEGE (AUTONOMOUS)

(Affiliated to University of Madras and Re-Accredited at 'A' Grade by NAAC) Velachery Main Road, Velachery, Chennai – 600042.



M.A. Economics

(SEMESTER PATTERN WITH CHOICE BASED CREDIT SYSTEM)

Syllabus

(For the candidates admitted in the Academic year 2016-17 and thereafter)

VISION

- ❖ To uphold high standards of academic excellence in teaching and research.
- ❖ To grow to gain wide-spread recognition for Post-Graduate and Ph.D. programmes.
- ❖ To promote academic activities like research, internships, training, etc.
- ❖ To organize International/National Seminar/Workshop programmes to facilitate interaction with academicians and experts.
- To focus on a set of skills relevant to strengthening students' competency to gain employment.

MISSION

- ➤ To provide students with a strong theoretical foundation in Economics.
- > To train and equip students with the requisite skills to carry out Applied Economics Research.
- To promote experiential learning through the application of knowledge to new challenges.
- ➤ To provide the social capital necessary for establishing a healthy society by instilling values, ethics and confidence in young minds.
- To provide students with a strong foundation in economic theory, strengthened by critical thinking and sharp analytical skills required for policy analysts.

PROGRAMME OUTCOMES

PO1: To analyse different economic and environmental problems and provide solutions to improve our Green Growth

PO2: To critically analyse Keynesian and modern economic approach to solve all macroeconomic problems.

PO3: To develop employability and research skills identify more socio-economic problems and provide solutions through several research activities

PO4: To find out different ways by which improve the contribution of women in economic development

PO5: To maintain stability in exchange rate, examine different international trade policies.

PROGRAMME SPECIFIC OUTCOME

PSO1: To evaluate macroeconomic policies including fiscal, monetary and international trade to maintain stability and analyse different environmental policies to reduce global warming, improve sustainable development and Green GDP.

PSO2: Analyse central and state budget and plans to maintain strong and healthy fiscal federalism in India.

M.A. ECONOMICS COURSE STRUCTURE-2016-18 BATCH

Semester	Part	Course Component	Subject Name		Hours	Internal	External	Total
	I	Core - I	Micro Economics – I	4	6	50	50	100
	I	Core - II Indian Economic Development -I		4	6	50	50	100
	I	Core - III	Research Methodology	4	6	50	50	100
Semester - I	II	Elective - I	Energy Economics	3	6	50	50	100
me	II	Elective - II	Mathematics for Economists – I	3	6	50	50	100
Se	IV	Soft Skills-I	Essentials of Language andCommunications Skills	2			100	100
			Total Cred	lits -2	0, Tot	al Hou	rs/ wee	k-30
	I	Core - IV	Micro Economics - II	4	6	50	50	100
Semester - II	I	Core - V	Indian Economic Development -II	4	6	50	50	100
stei	I			4	6	50	50	100
me	II Elective -III Mathematics for Economists - II		3	6	50	50	100	
Se	III	Elective -IV	Environmental Economics	3	6	50	50	100
	IV	Soft Skills-II	Computing Skills	2			100	100
			Total Cred	lits -2	0, Tot	al Hou	rs/ wee	k-30
	I	Core - VII	Macro Economics - I	4	6	50	50	100
Ш	I	Core - VIII	Public Economics - I		6	50	50	100
Semester - III	I	Core - IX	International Economics - I	4	6	50	50	100
este	II	Elective -V	Economics of Development	3	6	50	50	100
- me	III	Elective -VI	Health Economics	3	6	50	50	100
Se	IV	Soft Skills- Internship	Internship	2			100	100
	IV	PIV PG Skill	Managerial Skills	2			100	100
			Total Cred	lits -2	2, Tot	al Hou	rs/ wee	k-30
	I	Core - X	Macro Economics - II	4	5	50	50	100
	I	Core - XI	Public Economics - II	4	5	50	50	100
	I	Core - XII	International Economics - II	4	5	50	50	100
 	I	Core - XIII	Monetary Economics	4	5	50	50	100
Semester - IV	II	Core -XIV	Financial Economics	4	3	50	50	100
	II	Core-XV	Gender Economics	4	3	50	50	100
S	II	Elective –VII	Computer Application for Economics	3	4	50	50	100
	II	Soft Skills-IV	Spoken and Presentations Skills	2			100	100
			Total Cred	lits -2	9, Tot	al Hou	rs/ wee	k-30
	Grand Total Credits -91, Total Hours/ week-120							

SEMESTER-I

CORE-I MICRO ECONOMICS – I

Subject Code: 16PECOC01	Theory	Marks: 100
Semester: I	Credits 4	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of micro economics and to solve the problems of micro economics and their related issues.

Unit I: Advances in Demand Theory

Modern utility analysis of choices involving risk or uncertainty – Bernoulli ,Neumann Morgenstern, Friedman Savage and Markowitz Hypotheses-Revealed preference theory and derivation of demand-indifference curve-Hicks revision of demand theory-Logical ordering-Recent developments in demand theory.

Unit II: Theory of Production

The production Function – Production Function – short and long run – Relation between returns to scale and returns to factor – Cobb-Douglas and CES Production Functions – Single and Multi-product Firms.

Unit III: Theory of Costs

Total Revenue, Marginal Revenue. Cost Functions – The Traditional Theory of Cost: Short-Run Costs; Long-Run Costs-'The Envelope Curve' – Modern Theory of Costs: Short-Run Costs; Long-Run Costs-'The L-Shaped' Scale Curve – The Relevance of the Shape of Cost Curves in Decision-making.

Unit IV: Theory of The Firm: Perfect Competition/ Monopoly

Market Structure – Perfect Competition – Assumptions – Short-Run Equilibrium – Long-Run Equilibrium – Dynamic Changes and Industry Equilibrium. Definition – Demand and Revenue – Equilibrium of the Monopolists: Short-Run Equilibrium – Long-Run Equilibrium – Comparison of Pure Competition and Monopoly – the Multi-plant Firm – Bilateral Monopoly – Price Discrimination.

Unit V: Theory of The Firm: Monopolistic Competition and Oligopoly

Monopolistic Competition – Equilibrium of the Firm – Excess Capacity – Selling Cost – Comparison with Pure Competition. Oligopoly: Non-Collusive Oligopoly – Cournot; The Kinked-Demand and Stackelberg Models. Collusive Oligopoly – Cartels – Price leadership.

Recommended Text:

1. Koutsoyiannis. A. : Modern Microeconomics 2nd edition, Macmillan

2. Hal. R. Varian : Intermediate Micro Economics- Modern Approach, 4th edn,

W.W. Narton & Company.

3. Dwivedi : Micro Economic theory and applications, Pearson.

Reference Books:

- 1. Baumol.W.J., (1978): Economic Theory and Operations Analysis, Prentice Hall of India.
- 2. Cohen. K.J. and Cyert. R.M. (1976): Theory of the Firm, Prentice Hall of India.

- 3. Ferguson, C.E., (1968): Micro Economic Theory, Cambridge, University Press, London.
- 4. Green, H.A.J (1974): Consumer Theory, 2nd Edition, Macmillan.

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

Cootion-	T Ina : 4 a	No. of	Questions
Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit – 2	2	
Section A	Unit – 3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit -3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit - 2	1	
Section C	Unit -3	2	
	Unit – 4	1	
	Unit - 5	1	

CORE- II INDIAN ECONOMIC DEVELOPMENT AND POLICY – I

Subject Code: 16PECOC02	Theory	Marks: 100
Semester: I	Credits 4	Total Hours : 90

Course Objective

This paper enables the students to understand the basics of economic development and policy of India and to solve the problems of economic policy and their issues.

Unit I: Resource Development in India

Resource profile of India – Policies relating to the development of land, forest, water, fisheries and mineral resources – Economic development and Environmental degradation – Land degradation and Soil erosion – deforestation – faulty utilization of water resources

Unit II: Planning

Plan Concepts-Indian Planning-concept of mixed economy, objectives of planning, perspective planning - Decentralised planning - indicative Planning - District Planning - Local Planning - Indian plan models: Mahalanobis, and Input - Output, Multi - sectoral models, minimum needs - evaluation and appraisal of five years plans

Unit III: National Income

Concept and measurement of National Income-Trend in National Income - Sectoral contribution to GDP since Independence-Real Vs. Nominal-Measurement of Inflation-Inflationary Trend in India Concepts of Money suppy-M1, M2, M3, and M4; L1,L2 and L3.

Unit IV: Poverty and Unemployment

Poverty - Measurement of poverty Line – Poverty Trend in India Regional disparities in incidence of poverty-Planning for Poverty Eradication-Public Policies Relating to Income and Asset Distribution – Concept and measurement employment and unemployment; Rural Vs urban employment-non farm employment-migration issues

Unit V: Trade Policies

Trade policies: import substitution and export promotion – Recent Policies Changes - Technology Transfer – Reforms in Exchange Rates - role of foreign capital – Foreign Direct Investment (FDI) and Its Implications on Indian Economy.

Recommended Text:

- 1. 1 Dutt and Sundaram(2007): Indian Economy, S.Chand & Company
- 2. 2. Dhingra. I.C.(2006) : Indian Economy, S.Chand & Company.
- 3. Chakravarty, S. (1987): Development Planning: The Indian Experience, OUP, New Delhi.

Reference Books

- 1. J. Bhagwati and S. Chakravarthy: Indian Economic Analysis: A. Survey.
- 2. A. K. Das Gupta: Planning and Economic Growth
- 3. Bhagwati and Desai: Planning for Industrialization

Section	Question Component	Numbers	Marks	Total
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Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

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Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit - 3	3	
	Unit - 4	2	
	Unit - 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit -3	2	
	Unit - 4	1	
	Unit - 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit - 4	1	
	Unit - 5	1	

CORE-III RESEARCH METHODOLOGY

Subject Code: 16PECOC03	Theory	Marks: 100
Semester: I	Credits 4	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of research methods and to solve the problems of methodology and research issues.

Unit I

Nature and Scope Social Research - Aims – objectives. The nature of theory and data (fact) and their relevance for social research.

Unit II

Stages in research process - selection of problem - Formulation of research problem - Theoretical frame work - formulation of Hypotheses - Research designs.

Unit III

Techniques of data collection; Observation, Schedule an Questionnaire - and interview methods - Projective and other methods and Organisation of social surveys - importance and scope of social survey analysis of the different steps involved in the planning - preparation of budget - staff and its training .

Unit IV

Analysis of data: Editing, Processing, Consolidation and Tabulation Application of Techniques – Scaling Techniques.

Unit V

Research presentation: General organization of research presentation – aims and objectives of presentation effectiveness in presentation of statistical data – rules for arrangement of text-diagrams-references, etc.

Recommended Text

1. Goode, W.J. (1952) and Hatt, P.K. : Method in social Research,

McGraw-Hill.

2. Kothari. C.R.(2005) : Research Methodology: Methods & Techniques,

Wiley Eastern limited, New Delhi.

Reference Books

1. Cochran W.G (1963) : Sampling Techniques (Second Edition) John Wiley

& sons.

2. Donald R.Cooper;

Pamela S. Schindler, (1999) : Business-Research Methods, Tata McGraw Hill,

New Delhi

3. Forces and Bircher (1973) : Social Research Methods. Prentice Hall Inc.

4. Hicks, J.R. (1979) : Casualty in Economics.

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
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Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit -3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit – 2	2	
Section B	Unit – 3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

ELECTIVE -I ENERGY ECONOMCIS*

Subject Code: 16PECOE01	Theory	Marks: 100
Semester: I	Credits 3	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of energy economics and to solve the problems of energy and environmental issues.

Unit – I: Introduction to Energy Economics

Natural Resources – classification – importance – Role of Natural Resources in Economic Development – Energy Resources – Types and classification – Properties of Energy – Forms of Energy – Emergence of Energy Economics – Its nature and scope – Energy indicators – Energy Economics relation with other branches.

Unit – II: Energy and Development

Role of Energy in Economic Development – Energy Intensity and Energy Elasticity – National and International comparison –Low, Middle and High Income Economies – Role of International Institutions – OPEC, OAPEC, IEA, and World Bank.

Unit – III: Energy and Environment

Energy Crisis causes, consequences – Remedial measures – Environmental Crisis – causes, consequences, remedial measures – Impact of Energy Consumption and Production on Environment with illustrations – Role of Energy and Environmental Economists in solving Energy and Environmental Crisis.

Unit – IV: Energy Conservation and Energy Management

Energy Planning and Energy Conservation: Meaning, objectives and importance – Energy Management – Meaning, Objectives and Importance – Recent Developments – Energy Auditing – Energy Accounting – Energy Pricing and Taxes – Role of Economists in Promoting Sustainable Energy Management. M.A. Economics: Syllabus (CBCS)

Unit – V: India's Energy Profile

Indian Energy Sector – Organizational Structure – Energy Supply (Coal, Lignite, Oil, Gas and Powers – Hydro, Nuclear, Thermal) – Energy Demand (Agriculture, Industry, Transport,

Domestic, etc) Renewable Energy Sources and Technology (Solar, Wind, Biogas, Biomass, Geothermal, OTEC, Tidal, Wave Hydrogen, Fuel Cell, Bio-diesel) – Renewable Energy Programs – Energy under Five Year plans – Energy issues and policy options for India.

Reference Books

- 1. Agarwal, M.C. and Monga, J.R. Economic and Commercial Geography, (National Publishing House, New Delhi, 1992).
- 2. Agarwal, S.K. Environment and Natural Resources Economics (Scott Foresman & Co., London, 1985).
- 3. Common, M. Environmental and Resource Economics (Longman, London, 1996)
- 4. David Pearct et al Sustainable Development Economics and Environment in the Third World (Earths Can Publications, London, 1990)

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

Castiana	Units	No. of	Questions
Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit - 3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit – 3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

ELECTIVEMII: MATHEMATICS FOR ECONOMISTS - I*

Subject Code: 16PECOE02	Theory	Marks: 100
Semester: I	Credits 3	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of mathematical economics and to solve the problems of mathematics in economics and related issues.

Unit I : Set Theory: Concept and Operation of Sets.

Unit II:

Equation of straight line - Parabola - Rectangular Hyperbola - Relationships among Total, Average and Marginal Curves.

Unit III:

Logarithmic and Exponential Functions – Convex and Concave Functions – Indifference, Isoquant and Transformation Curves.

Unit IV:

Concept of Limit - Techniques of Differentiation - Elasticities - Conditions for Extremum of Functions of one variable.

Unit V:

Functions of tow Variables – Partial Derivatives – Maxima and Minima – Properties of Homogenous Functions – Uses of Homogenous Functions in Economics.

Recommended Text

- 1. Edward. T. Dowling: Mathematics for Economists, McGraw Hill Book Company.
- 2. Mehta V.L. & Madnani: Mathematics for Economists, Sultan Chand and Sons.

Reference Books:

1. Allen R.G.D. :Mathematical Analysis for Economists,

Macmillan and Company Limited, London.

2. Chiang A.C. : Fundamental Methods of Mathematical Economics, Mcgraw

– Hill Book Company.

3. Stafford.L.W.T. :Mathematics for Economist, The English Language

Book Society and Macdonald and Evans Limited,

London.

4. Mabett. A.J. :Mathematics for Economists, Macmillan Master Series.

5. Weber : Mathematics for Economists.

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

G4:	TJ-si4a	No. of	Questions
Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit -3	1	2
	Unit - 4	1	1
	Unit - 5	2	
	Unit – 1	2	
	Unit - 2	1	
Section B	Unit -3	1	1
	Unit - 4		1
	Unit - 5		1
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit -3		2
	Unit - 4		1
	Unit - 5	1	·

SEMESTER-II

CORE IV MICRO ECONOMICS – II

Subject Code: 16PECOC04	Theory	Marks: 100
Semester: II	Credits 4	Total Hours : 90

Course Objective

This paper enables the students to understand the basics of micro economics and to solve the problems of micro economics and their related issues.

Unit I: Modern Theories of the Firm

Baumol's Theory of Sales Revenue Maximisation – Marris 's Model of the Managerial Enterprise – O. Williamsons's Model of Managerial Discretion – the Behavioural model of Cyert and March.

Unit II: Distribution Theories

Macro theories of distribution – Ricardian, Marxian, Kalecki and Kaldor's – Marginal productivity theory – Product Exhaustion theorem – Elasticity of Technical Substitution – Theory of distribution in imperfect product and factors markets – Determination of wages, interest and profit

Unit III: Economics of Information

Economics of Information- Moral hazard problem, adverse selection, principal agent problem, implications of asymmetric information, market signaling, hidden information modeling, efficiency wage model, information and insurance.

Unit IV: General Equilibrium Theory

Two Sector Model of General Equilibrium: Assumptions – Static Properties of a General Equilibrium State – General Equilibrium and the Allocation of Resources and Money.

Unit V: Welfare Economics

Criteria of Social Welfare: The Pareto-Optimality Criterion – The Kaldor-Hicks 'Compensation Criterion' – the Bergson Criterion 'Social Welfare Function' – Maximisation of Social Welfare.

Recommended Text:

1. Koutsoyiannis. A. : Modern Microeconomics 2nd edition, Macmillan

2. Hal. R. Varian : Intermediate Micro Economics- Modern Approach, 4th edn,

W.W. Narton & Company.

3. Dwivedi : Micro Economic theory and applications, Pearson.

Reference Books:

- 1. Baumol.W.J., (1978): Economic Theory and Operations Analysis, Prentice Hall of India.
- 2. Cohen. K.J. and Cyert. R.M. (1976): Theory of the Firm, Prentice Hall of India.
- 3. Ferguson, C.E., (1968): Micro Economic Theory, Cambridge, University Press, London.
- 4. Green, H.A.J (1974): Consumer Theory, 2nd Edition, Macmillan.

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Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit - 3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit – 3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

CORE-V INDIAN ECONOMIC DEVELOPMENT AND POLICY – II

Subject Code: 16PECOC05	Theory	Marks: 100
Semester: II	Credits 4	Total Hours : 90

Course Objective

This paper enables the students to understand the economic development and policy in India and to solve the problems of economic development and policy and their related issues.

Unit I: Agriculture

Agriculture growth at National and State levels – Institutional and technological policy – green revolution – agricultural price policy, agricultural credit – Food Security – Public Distribution System(PDS) – Agricultural Finance – Agricultural Marketing – inter-sectoral terms of trade – WTO and its implications.

Unit II: Industry

Industry growth at National and State levels — Over view of earlier Industrial policies (1948 - 1990) - Industrial policy since 1990 — pattern of industrial growth — productivity trends, modernization, small Vs large industry — Special Economic Zones — Industrial Finance.

Unit III: Population and Human Development

Population and Development – National Population Policy (2000) – Demographic Dividend - Human development indicators: review of change since early fifties –wide regional variations – demographic trend in India and dividend –health services, Health policy; Education Policy; Financing of Health and Education.

Unit IV: Infrastructure Development in India

Infrastructure and economic development – Economic Infrastructure – Energy, Power, Transport, Communication, Science and Technology – Policies pertaining to Economic Infrastructure development – Financing of Infrastructure development – PPP Model – Financing institutions – International collaborations.

Unit V: Indian Public Finance:

Finances of Central and State governments — an overview of Central budgets — trends — public debt of India — deficit financing in India — Fiscal reforms — Fiscal Responsibility Act — recommendations of tax and expenditure commissions — Centre — State financial relations — Constitutional provisions relating to fiscal and financial powers of the states — financial aspects of Sarkaria Commission — The Finance Commission awards — Centre- State conflict of finance.

Recommended Text:

1Dutt and Sundaram(2007) :Indian Economy, S.Chand & Company 2.Dhingra. I.C.(2006) : Indian Economy, S.Chand & Company.

3. Chakravarty, S. (1987): Development Planning: The Indian Experience, OUP, New Delhi.

Reference Books

- 4. J. Bhagwati and S. Chakravarthy: Indian Economic Analysis: A. Survey.
- 5. A. K. Das Gupta: Planning and Economic Growth
- 6. Bhagwati and Desai: Planning for Industrialization

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Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit - 3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit – 3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

CORE-VI STATISTICS FOR ECONOMISTS

Subject Code: 16PECOC06	Theory	Marks: 100
Semester: II	Credits 4	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of statistical methods and to solve the problems of statistics and their related issues.

Unit I

Random experiments - sample space-events-different approaches to probability (classical, statistical and axiomatic) - statistical regularity-independence and conditional probability-Bayes theorem-simple problems.

Unit II

Random variables (Discrete and Continuous)-probability mass and density functions (MGF-Moment Generating Function)-standard distributions (Binomial, Poisson and Normal)-properties of Bi-variate distributions-Correlation and Regression- applications and simple problems.

Unit III

Sampling, Different types of sampling-Sampling and Non-sampling errors-Sampling Distributions-Standard error-point estimation-properties of estimators (Unbiasedness, consistency and efficiency)-Hypothesis testing-Null and alternative hypothesis - type I and type II errors-level of Significance-p-value-Large Sample tests (Z tests).

Unit IV

Small Sample tests (t, F tests), test for independence of attributes (χ^2 test), ANOVA, concept of confidence intervals (CI), CI based on Z and t statistic.

Unit V

Introduction to time series-components of time series-estimation of trend (moving averages, least square method for linear and exponential trend) - measuring cyclical and seasonal variation - introduction to index numbers-weighted and unweighted index numbers(price and quantity index numbers) - consumer price index number-concept of deflation and real wages(income).

Recommended Text:

- 1. A.M. Mood, F.A. Graybill and D.C. Boes (1973) : Introduction to theory of Statistics, 3rd ed.McGraw Hill.
- 2. S.P. Gupta (1983): Statistical Methods, 19th ed. Sultan Chand and sons, New Delhi.

Reference Books:

- 1. D.N. Elhance (2004): Practical problems in statistics, Kitab Mahal, Allahabad.
- 2. A.L. Nagar and R.K. Das: Basicstatistics, Oxfordniversity Press, New Delhi.
- 3. M.R. Spiegal and L.J. Stephens (1999): Theory and Problems of Statistics, Tata McGraw Hill Co, Ltd.
- 4. R. Veerachamy: Quantitative Techniques for Economists, New Age International

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Sections	Units	Theory	Problems
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	Unit - 2	2	
Section A	Unit - 3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit – 3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

ELECTIVE – III

MATHEMATICS FOR ECONOMISTS - II

Subject Code: 16PECOE03	Theory	Marks: 100
Semester: II	Credits 3	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of mathematics in economics and to solve the problems of mathematics and their related issues.

Unit I

Constrained Maxima and Minima – Use of Lagrange Multiplier Method – Application to Utility Maximisation, Profit Maximisation and Cost Minimisation.

Unit II

Matrices – Matrix operations – Commutative Associative and Distributive Laws – Determinants – Rank of a matrix – Matrix Inverse – Cramer's Rule.

Unit III

Input - Output Analysis - Leontieff Model.

Unit IV

Linear Programming – Graphical Method – Simplex Method – Primal and Dual.

Unit V

Elementary Integration Techniques – Indefinite Intergrals – Definite Intergrals – Economic Applications of Integrals – Consumer's Surplus – Producer's Surplus.

Recommended Text

- 1. Edward. T. Dowling: Mathematics for Economists, Mcgraw Hill Book Company.
- 2. Mehta V.L. & Madnani: Mathematics for Economists, Sultan Chand and Sons.

Books for References:

1. Allen R.G.D. :Mathematical Analysis for Economists,

Macmillan and Company Limited, London.

2. Chiang A.C. :Fundamental Methods of Mathematical

Economics, Mcgraw – Hill Book Company.

3. Stafford.L.W.T. :Mathematis for Economist, The English Language

Book Society and Macdonald and Evans Limited, London.

4. Mabett. A.J. :Mathematics for Economists, Macmillan Master

Series.

5. Weber : Mathematics for Economists.

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

Castiana	Units	No. of Questions	
Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit -3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit – 2	2	
Section B	Unit – 3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

EXTRA DISCIPLINARY – I ENVIRONMENTAL ECONOMICS

Subject Code: 16PECOE04	Theory	Marks: 100
Semester: II	Credits 3	Total Hours: 90

Course Objective

To know the impact of Economics on the Environment

To understand the use of Economic Tools in the analysis of environmental issues and policy making

Unit – I: Definition and Scope of Environmental Economics

Introduction – Economics and Environment – Definition of Environmental Economics – Scope and Significance of Environmental Economics: Environment Inter-linkages – Market failure and Externality – Accounting for the Environment – Pareto Optimality – Individual Choice Vs Social Choice.

Unit – II: Resource Economics

Natural Resources: Types and Classification – Economics of Natural Resources Exploitation – Market Structure and the exploitation of Non-Renewable Resources – Conservation of Resources: Definition and Meaning– Methods of Conservation – Material Substitution – Product Life Extension – Recycling – Optimum Recycling – Waste Management.

Unit – III: Environment and Sustainable Development

The Environmental Costs of Economic Growth – Limits to Growth – Sustainable Development – Brundtland Commission - Sustainable Industrialization – Pollution abatement and Control.

Unit – IV: Cost Benefit Analysis

Cost Benefit Analysis: Definition – Advantages & Limitations of Cost Benefit Analysis – Methods for Valuing Environmental Costs and Benefits: Environmental Impact Assessment: Meaning & Measurement.

Unit – V: Policy Measures

Basic Approach to Environmental Policy – Problem of Pollution Control – Moralsuasion – Direct Control – Regulation – Prohibition – Fiscal techniques – Effluent Charges and Subsidies – Common Effluent Treatment Plant.

Reference Books:

- 1. Kolstad, Charles, Environmental Economics, Oxford University Press, New Delhi 2001
- 2. Sankar, U, Environmental Economics, Oxford University Press, New Delhi, 2001.
- 3. Sengupta, Ramprasad, Ecology and Economics, Oxford University Press, New Delhi, 2001.
- 4. Bhattacharya, Rabindra, N. Environmental Economics: An Indian Perspective, Oxford

University Press, New Delhi, 2001.

Question Paper Pattern:

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

C4:	TT *4	No. of Questions	
Sections	Sections Units		Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit -3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit – 2	2	
Section B	Unit – 3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
 	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

SEMESTER-III

CORE-VII MACRO ECONOMICS – I

Subject Code: 16PECOC07	Theory	Marks: 100
Semester: III	Credits 4	Total Hours : 90

Course Objective

This paper enables the students to understand the basics of macro economics and to solve the problems of macro economy and their related issues.

Unit I: Key Macro Economic Variables

Aggregate Income- Expenditure and circular flow- computation of GDP – Real Vs – Nominal GDP – Measurement of Cost of Living (CPI and WPI) – Measurement of Unemployment rate

Unit II: Theories of Consumption and Investment

The Consumption function and its determinants – Hypotheses of Absolute, Relative and Permanent Incomes and Life Cycle. The Investment function and its determinants. The Saving function and Marginal Efficiency of Capital. Investment Function – Marginal Efficiency of Investment, Multiplier Analysis, Accelerator and Investment behavior concepts of super multiplier.

Unit III: Theory of Income and Employment

Basic assumptions of the classists, Says Law of Market, Classical theory of Employment saving and Investment theory wage and price flexibility criticisms of classical theory-Keynesian theory of employment and income , The concept of under employment – Aggregate demand – Effective Demand

Unit IV: Theory of Demand for money

Theory of Money: Quantity theory money Fischers and Cambridge equation, Keynesian theory of money – Modern Quantity theory of money – Milton Friedman – Patinkin's Real Balance Effect – Tobin's Portfolio analysis, Crisis in Keynesian economics and the revival of monetarism.

Unit V: Theory of Supply of Money

Supply of Money - A Behavioural Model of Money Supply Determination, RBI Approach to money supply, High powered money and money multiplier, Money Supply in open economy, Control of money supply.

Recommended Text:

- 1. Branson, W.A. (1989): Macroeconomic Theory and Policy, (3rd Edition), Harper and Row, New York.
- 2. Shapiro, E. (1996): Macroeconomic Analysis, Galgotia Publications, New Delhi.

Reference Books

- 1. Ackley, G. (1978) : Macroeconomics: Theory and Policy, Macmillan, New York.
- 2. Blackhouse, R.and A. Salansi (2000) Macroeconomics and the Real World (2 Vols.) Oxford University Press, London.
- 3. Dornbusch, R.andF. Stanley (1997): Macroeconomics, McGraw Hill, Inc., New York.

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

Castiana	Units	No. of	Questions
Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit - 3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit – 3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

CORE-VIII PUBLIC FINANCE –I

Subject Code: 16PECOC08	Theory	Marks: 100
Semester: III	Credits 4	Total Hours: 90

Course Objectives

This paper enables the students to understand the basics of public finance and to solve the problems of public finance and their related issues.

Unit I: Public Finance: Introduction

Public Finance and Public Economics - Government in Mixed Economy - Public and Private Sectors - Cooperation or Competition - Role of Public Enterprises in India - Pricing Policies of Public Enterprises - Administered prices - Peak load pricing - Marginal cost pricing.

Unit II: Welfare Economics

Welfare foundation of public economics – Pareto optimality – Arrow's social welfare function – Majority Rule – Intensity of Preference – Transaction cost and non-market decision making - Market failures- Theory of Second best.

Unit III: Public Good and Taxation

Public goods and externalities, merit goods, Samuelson theory, free rider problem, Lindahl solution, Coasian theory, theory of clubs, median voter theorem, theory of rent seeking-Taxation: Theories of Taxation— Concept of Excess Burden of Taxes— Classical and Modern views— direct Vs. Indirect taxes, efficiency and equity, dead weight loss (income tax, commodity tax)

Unit IV: Taxation and Public Debt

Taxation and labour supply, taxation and savings, risk-taking and wealth, general equilibrium (Herberger) models of tax incidence, theory of optimal taxation- Deficit Financing- Concept of Burden of Public debt – Compensatory aspect of debt policy – debt management

Unit V: Budgeting-

Budgeting-type of budgeting-public budget, kinds of budgets, zero based budgeting-programme and performance budgeting-Union and State government Budgets-Neutral and compensatory and functional finance-balanced budget multiplier.

Reference Books

- 1. Atkinson, A.B. and J.E. Siglitz (1980): Lectures on Public Economics, Tata McGraw Hill, New York.
- 2. Auerbach, A.J. and M. Feldstern (Eds.) (1985): Handbook of Public Economics, Vol. I, North Holland, Amsterdam.
- 3. Buchanan, J.M. (1970): The Public Finances, Richard D. Irwin, Homewood.
- 4. Goode, R. (1986)Government Finance in Developing Countries, Tata McGraw Hill, New Delhi.

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

Sections	Units	No. of Questions	
Sections		Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit - 3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit - 3	2	
	Unit - 4	1	
	Unit - 5	1	
	Unit – 1	1	
	Unit - 2	1	
Section C	Unit -3	2	
	Unit – 4	1	
	Unit - 5	1	

CORE - IX INTERNATIONAL ECONOMICS - I

Subject Code: 16PECOC09	Theory	Marks: 100
Semester: III	Credits 4	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of international economics and to solve the problems of international trade and policy and their related issues.

Unit I: International Economics: Introduction

Nature and scope of International Economics: Pure theory of International Trade Theories of Absolute cost Advantage, Comparative cost Advantage theory and J.S.Mill's reciprocal theory. Neo Classical theory of Haberler, Opportunity cost Advantage theory. Basic concepts – Community indifference curves and Offer curves. Modern theory of International Trade – Heckscher - Ohlin contribution – factor price equalization theorem-factor prices and factor reversals – obstacles to factor price equalization.

Unit II: Measurement of Gains

Terms of Trade – different concepts of Terms of trade – Determinants of Terms of trade – static and dynamic gains from trade – Samuelson on gains from trade – Immiserising growth – Technical progress and trade – Hicksian graphical analysis – neutral, capital saving and labour saving technologies and its impact on terms of trade.

Unit III: Theory of Interventions

Tariffs and development-Impact of tariffs –partial and general equilibrium analysis-Political economy of non-tariff barriers-quotas types-dumping and the economic rationale of dumping.

Unit IV: Foreign Capital

Role of foreign capital in economic development – issues in foreign capital in economic development – theory of direct investment – issues in foreign direct investment – Multinational Corporations – Transfers and Capital movements – interest rate and capital movements – foreign aid.

Unit V: Foreign Exchange Market

Introduction: structure and functions of foreign exchange market- methods of foreign payments - concepts of Spot and Forward exchange Rate - Determinants of Exchange Rate under Fixed and Flexible Exchange rate - Regime and Role of hedging in the determination of exchange rate - Theory of Interest Rate parity

Recommended Text

- 1. M.C.Vaish & Sudama Singh: International Economics, Oxford & IBH.
- 2. K.C.Rana and K.N.Verma(2004-05): International Economics, Vishal Publishing Co. Jalandhar.
- 3. Francis Cherunilam (1998): International Economics, 3rd Edition, TataMcGraw Hill Publishing company.

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

Castiana	Units	No. of Questions	
Sections		Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit - 3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit – 3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

ELECTIVE – IV ECONOMICS OF DEVELOPMENT

Subject Code: 16PECOE05	Theory	Marks: 100
Semester: III	Credits 3	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of development economics and to solve the problems of development economics and their related issues.

Unit I

Poverty, inequality, and Development – measuring inequality and poverty – poverty, inequality, and social welfare – Kuznets'inverted-U Hypothesis – Growth and inequality – Rural poverty – women and poverty – Ahluwalia – Chenery Welfare Index.

Unit II

Population Growth and Economic Development: Causes, consequences – and controversies – population growth and the quality of life – the causes of high fertility in developing countries – the consequences of High fertility – goals and objectives.

Unit III

Roles of Education and Health – Investing in education and health: the human capital approach – child labour – the gender gap: women and education – educational systems and development – health systems and development.

Unit IV

Agricultural Transformation and rural development – agricultural progress and rural development – the structure of agrian system in the developing world – the economics of agricultural development: transition – subsistence farming: Risk Aversion – improving small scale agriculture – conditions of rural development – macroeconomic instability, IMF stabilization policies and their critics.

Unit V

The nature of development planning and the role of the state – planning in mixed developing economics – the rationale for development planning – fiscal policy for development – macrostability and resource mobilization – state owned enterprises. Military expenditures and economic development.

Recommended Text

- 1. Adelman, I (1961) : Theories of Economic Growth and Development, Stanford University Press, Stanford.
- 2. Michael P. Todaro and Stephen C. Smith (2003): Economic Development, Pearson Education Pte. Ltd., Singapore.

Reference Books:

- 1. Chakravarthy, S. (1982): Alternative Approaches to a theory of Economic Growth, Oxford UniversityPress.
- 2. Chakravarthy, S. (1989): Development Planning: The Indian Experience, Clarendon Press.
- 3. Chatak, S. (1986) An Introduction to Development Economics, Allen and Unwin.
- 4. Kindleberger, C.P. (1977) : Economic Development 3ed McGraw Hill.

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

Castiana	Units	No. of Questions	
Sections		Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit - 3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit – 3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

EXTRA DISCIPLINARY - IIHEALTH ECONOMICS*

Subject Code: 16PECOE06	Theory	Marks: 100
Semester: III	Credits 3	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of health economics and to solve the problems of health economics and their related issues.

Unit – I: Introduction

Demand for Health and Health Care Welfare economics of medical care, production of health, demand for health and health care, equity, efficiency and the need, link between development and health, investing in health for economic development, public-private partnership and the role of state

Unit – II: Health Production Function

Nature of production function, different types of production function and their applications, national and international perspective, distributional inequities in opportunity and commercialization of medical and paramedical education, cost escalation in the health care system, easy access and availability to appropriate technology, need for regulation and control.

Unit – III: Health Care Incentives and Financing

Goals of health care provision and financing, competitive health insurance and risk adjustment, demand and supply of health insurance, asymmetric information and agency, market insurance, self-insurance and protection, employment based insurance, health insurance in India

Unit – IV: Measuring and Valuing Health Outcomes

Measurement of health state utilities, QALYs and its alternatives- different approaches of valuing health, multi-attribute utility instruments and their development

Unit - V: Health Care in India

Various health indicators and its recent trend, health care expenditures, target of health care and achievements, different options for financing healthcare, taxation, user fees, health insurance, role of urban and rural local bodies, role of non-governmental organizations, economic impact of HIV/AIDS in India and gender issues

Reference Books:

- 1. Folland, S., A.C. Goodman and M. Stano, Economics of Health and Health Care, fifth edition, Pearson Prentice Hall, 2006
- 2. Culyer, A. J. and J.P. Newhouse (eds.), Handbook of Health Economics, Volumes 1A & B, North-Holland, 2000
- 3. Zweifel, P., Health Economics, Oxford University Press, 1997
- 4. CII-Mckinsey Report, Healthcare in India: The Road Ahead, 2004.

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

Castiana	TI:4a	No. of	Questions
Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit -3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit – 2	2	
Section B	Unit – 3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

SEMESTER- IV

CORE-X MACRO ECONOMICS – II

Subject Code: 16PECOC10	Theory	Marks: 100
Semester: IV	Credits 4	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of macro economics and to solve the problems of macro economy and their related issues.

Unit I: The IS –LM Model

The neo-classical and Keynesian version of IS-LM models – Interaction of Real and Monetary Sector- Fiscal and Monetary Policy analysis in IS – LM model – Pigou effect and Real balance effect in IS-LM model – Trade policy in IS-LM models.

Unit II: Theory of Inflation and Unemployment

Theory of Inflation: Concept – Types – Categories, Excess demand Inflation Keynesian Income Expenditure approach, Inflationary gap –Phillips curve Controversy, Tobins modified Phillips Curve, Policies to control inflation- Natural Rate of Hypothesis and its implication of Monetary Policy.

Unit III: Business Cycle

Business Cycle: Theories of Schumpeter, Kaldor, Samuelson, Hicks and Goodwin model, Control of Business Cycles, relative Efficiency of Monetary and Fiscal Policies

Unit IV: Post – Keynesian Macro Economics

Walrasian and Keynesian Adjustment mechanism – Reinterpretation of Keynes – Dual Decision hypothesis - Neo-Keynesian quantity constraint models – micro theoretic foundation for wage and price rigidity – small menu cost – Efficient wage theory – staggered wage setting – insider – outsider model – models of coordination failure.

Unit V: Macro Economics in an Open Economy

Macro Economics is an open Economy, Mundell Flemming Model – New Classical Macro Economics – Policy Implications of New Classical Approach. Macro Economic Policy Goals, Full Employment – Price Stability – Economic Growth – Monetary and Fiscal Mechanism in the Indian Context.

Recommended Text:

- 1. Branson, W.A. (1989): Macroeconomic Theory and Policy, (3rd Edition), Harper and Row, New York.
- 2. Shapiro, E. (1996): Macroeconomic Analysis, Galgotia Publications, New Delhi.

Reference Books

- 1. Ackley, G. (1978) : Macroeconomics: Theory and Policy, Macmillan, New York.
- 2. Blackhouse, R.and A. Salansi (2000) Macroeconomics and the Real World (2 Vols.) Oxford University Press, London.
- 3. Dornbusch, R.andF. Stanley (1997): Macroeconomics, McGraw Hill, Inc., New York.

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

Castiana	IIm!4a	No. of	Questions
Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit - 3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit – 3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

CORE – XI PUBLIC FINANCE –II

Subject Code: 16PECOC11	Theory	Marks: 100
Semester: IV	Credits 4	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of public finance and to solve the problems of public finance and their related issues.

Unit I: Public Policy

Demand revealing schemes for public goods – Contribution of Clarks, Groves and Leyard, Tiebout model, theory of club goods, stabilization policy – Keynesian case for stabilization policy: Uncertainty and expectations, Failure of inter – temporal markets.

UNIT II: Public Expenditure

Public Expenditure – Wagner's Law – Wiseman – Peacock Hypothesis – Structure and Growth of Public Expenditure – Evaluation of Public expenditure – Cost Benefit Analysis – Shadow Prices – Discount Rate – Reforms in Public Expenditure – Performance Budgeting – Programme Budgeting - Zero Base Budgeting – Appraisal of Public Expenditure Policy in India.

Unit III: Fiscal Federalism

Fiscal federalism: Theories of Fiscal Federalism- Concepts of Deficits – Deficit Financing – Budget Deficit – Issues of Equity and Efficiency – Designing Equalisation transfers – Conditional and Unconditional grands.

Unit IV: Indian Fiscal Federalism

Indian federalism- Tax assignments to Centre and States—Particular Taxes — Personal income Tax — Corporation Income Tax — Capital Gains Tax —Union Excise Duties - MANVAT, MODVAT —VAT —Service tax; Tax Evasion —State Taxes—Appraisal of Tax Policies of India-Goods; tax reforms in India-Goods and services tax.

Unit V: Fiscal Policy

Objectives – Fiscal and monetary policies – Fiscal policy for stabilization – Automatic Vs Discretionary stabilization – Alternative measures of Resource mobilization and their impact on growth, distribution and prices.

Recommended Text:

- 1. Bhargava (2004): Public finance, Its Theory and working in India, Chaitanya Publishing House.
- 2. Musgrave, R.A. (1959): The Theory of Public Finance, McGraw Hill, Kogakhusa, Tokyo
- 3. Musgrave, R.A. and P.B. Musgrave (1976): Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.

Reference Books

- 1. Atkinson, A.B. and J.E. Siglitz (1980): Lectures on Public Economics, Tata McGraw Hill, New York.
- 2. Auerbach, A.J. and M. Feldstern (Eds.) (1985): Handbook of Public Economics, Vol. I, North Holland, Amsterdam.
- 3. Buchanan, J.M. (1970): The Public Finances, Richard D. Irwin, Homewood.

4. Goode, R. (1986)Government Finance in Developing Coutnries, Tata McGraw Hill, New Delhi.

Question Paper Pattern:

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

Continua	I I.m.!4 a	No. of	Questions
Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit -3	3	
	Unit - 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit -3	2	
	Unit - 4	1	
	Unit - 5	1	
	Unit – 1	1	
	Unit - 2	1	
Section C	Unit -3	2	
	Unit – 4	1	
	Unit - 5	1	

CORE – XII INTERNATIONAL ECONOMICS – II

Subject Code: 16PECOC12	Theory	Marks: 100
Semester: IV	Credits 4	Total Hours : 90

Course Objective

This paper enables the students to understand the basics of international economics and to solve the problems of international trade and policy and their related issues.

Unit I: Balance of Payment

Balance of Payment and National Income – foreign trade multiplier and National Income – Repercussions of Balance of payment disequilibrium and stability problem – BOP and exchange rate determination – Purchasing Power Parity Theory – fixed versus flexible exchange rate system – developments in international monetary system. Balance of Payment and disequilibrium – Balance of Payment disequilibrium and corrective measures – Automatic mechanisms under fixed and flexible exchange rates – Recent developments in exchange rate management.

Unit II: Balance of Payment (Continued)

Devaluation: elasticity approach, income absorption approach –monetary approach – exchange controls – means of achieving internal and external equilibrium – Fiscal and monetary mix.

Unit III: The Theory of Regional Blocks

Forms of economic cooperation - Reforms for the emergence of trading blocks at the global level – Static and dynamic effects of a customs union and free trade areas – Rationale and economic progress of SAARC/SAPTA and ASEAN regions – Problems and prospects of forming a customs union in the Asian Region – European Union – Functions of GATT/WTO (TRIPs/TRIMs) – UNCTAD – IMF – World Bank and Asian Development Bank – Their achievements and failures.

Unit IV: International Monetary System

International Monetary System: Problems in International Monetary System – International debt - International Liquidity – I.M.F. and Special Drawing Rights – Euro-dollar market. – Recent developments and issues in regional common currencies.

Unit V: Alternative Theories of Trade

Alternative theories of Trade – Economies of Scale, Imperfect competition and International trade. Monopolistic competition –Technology imitation gaps and Product cycles

Recommended Text

- 1. M.C.Vaish & Sudama Singh: International Economics, Oxford & IBH
- 2. K.C.Rana and K.N.Verma(2004-05): International Economics, Vishal Publishing Co. Jalandhar...
- 3. Francis Cherunilam (1998): International Economics, 3rd Edition, TataMcGraw Hill Publishing company.

Reference Books:

- 1. Bo Sodersten.(1980): International Economics.
- 2. Kindleberger, C.P.: International Economics, 5th Edition.
- 3. Paul R. Krugman and Maurice Obstfed (2005) : International Economics Theory and Policy, 6th Edition, Pearson Education.
- 4. Bhagawati. J,: International Economics.

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

Sections	Units	No. of Questions	
Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit - 3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit - 3	2	
	Unit - 4	1	
	Unit - 5	1	
	Unit – 1	1	
	Unit - 2	1	
Section C	Unit -3	2	
	Unit – 4	1	_
	Unit - 5	1	

CORE -XIII MONETARY ECONOMICS

Subject Code: 16PECOC13	Theory	Marks: 100
Semester: IV	Credits 4	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of monetary economics and to solve the problems of monetary economic theory and their related issues.

Unit I

Money in Macro Economy: The Classical Approach; The Keynesian Approach: Post – Keynesian Developments – Empirical Evidence.

Unit II

The Demand for Money: The Classical Approach: The Keynesian Approach: Post – Keynesian Developments – Empirical Evidence.

Unit III

The Supply of Money: The Classical version; The New View of James Tobin – Theories of Interests – Monetary Policy.

Unit IV

Monetary System in India - Financial Intermediaries: Implications for the Theory and Policy of Money.

Unit V

International Monetary System: Problems and Prospects.

Recommended Text:

- 1. Vaish. M.C. (1995) : Monetary Theory, Ratan Prakashan Mandir
- 2. Sundaram. K.P.M. (2000) : Money, Banking and international Trade, Sultan and Chand, New Delhi.

Reference Books:

- 1. Laidler, D.E.W.: The Demand for Money: Theories and Evidence, Allied publisher (Pvt) Ltd.
- 2. Pierce, D.G. and Shaw, D.M.: Monetary Economics: Theories, Evidence and Policy. Butter Worths, London.
- 3. Graham Bird: The International Monetary System and the Less Developed Countries.
- 4. R.B.I.: Working of the Monetary System in India; Report of Sukumoy Chakravarthy Committee, 1985.
- 5. Aschiem, J. and Hsich, Ching Yao: Macro Economics, Income and Monetary Theory, Charles Merrrill & Co, Ohio.
- 6. Friedman, M: The Role of Monetary Policy, A.E.R., March 1968.
- 7. Johnson, H.G.: Essays in Monetary Economics, Alien and Unwin, London.
- 8. Report of the Committee on the Financial System 1991 Narasimhan Committee.

Section	Question Component	Numbers	Marks	Total
Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

C4!	TT *4	No. of	Questions
Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit -3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit -3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

(In liew of Project Two Core papers, XIV and XV)

CORE – XIV FINANCIAL ECONOMICS

Subject Code: 16PECOC14	Theory	Marks: 100
Semester: IV	Credits 4	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of financial economics and to solve the problems of financial institutions and their related issues.

Unit I

Money market $-\mathbf{B}$ anks - regulation of working capital finance.

Unit II

Capital market – structure – characteristics – primary, secondary markets – market intermediaries, stock brokers, under writers – depository's credit rating agencies.

Unit III

Stock market system – trading, listing, regulation of stack market operations – market efficiency – NSE- OTC. Online trading system – SEBI Guidelines for capital issues – pricing – insider trading – investor protection.

Unit IV

Derivative markets – options and futures – trading system – pricing derivatives – risk hedging through derivatives – derivative market in India – its regulations.

Unit V

An over view of financial markets – legal and regulatory frame work – financial sector reforms – SEBI –SCRA- various segments of financial markets - Venture Capital Financing, Mutual Funds – finance information system(FIS).

Recommended Text

- 1. Bhole: Financial Institutions and Markets, TMH.
- 2. M.Y. Khan, (2001): Financial Services, TMH.

Reference Books:

- 1. Fabozzi, (2002): Foundations of Financial Markets and Institutions, Pearson Education, New Delhi.
- 2. James C. Van Horne, (2002): Financial Management and Policy, Prentice Hall of India Pvt. Ltd. New Delhi.
- 3. Kuchhal S.C.: Financial management: An Analytical and Conceptual Approach Chaitanya publishing House, Allahabad.
- 4. P.V. KulKarni: Financial management, Himalaya Publishing House.
- 5. Panday, I.M.: Financial Management, Vikas Publishing House Pvt. Ltd.,
- 6. Prasanna Chandra: Financial Management: Theory and Practice Tata McGraw Hill Publishing Co. Ltd., New Delhi.

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Section A	Definition/Principle Answer any 10 out of 12 questions (each in 50 words)	1-12	2	20
Section B	Short Answer Answer any 5 out of 8 questions (each in 300 words)	13-19	8	40
Section C	Essay Answer any 4 out of 6 questions (each in 1200 words)	20-25	10	40

Castiana	IIm!4a	No. of	Questions
Sections	Units	Theory	Problems
	Unit – 1	3	
	Unit - 2	2	
Section A	Unit - 3	3	
	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit - 2	2	
Section B	Unit – 3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit – 2	1	
Section C	Unit – 3	2	
	Unit – 4	1	
	Unit - 5	1	

CORE: XV GENDER ECONOMICS*

Subject Code: 16PECOC15	Theory	Marks: 100
Semester: IV	Credits 4	Total Hours: 90

Course Objective

This paper enables the students to understand the basics of gender economics and to solve the problems of gender and their related issues.

Unit - I: Introduction

Nature and Significance of Women Studies – Distinction between economic and Non-economic Dimensions of Women Studies – Some key Concepts – Exploitation, Deprivation, oppression, Gender Display index and HDI, HPI and GEM

Unit - II: Theories of Woman Exploitation

Marx – Engel's Theory of Exploitation – Exchange theory and Exploitation – Perspectives of Gary. S Becker and Amartya Sen on Women Exploitation

Unit - III: International Concern for Women Development

Role of UNO and World bank in Women's Development – Significance of International Women's Year and Decade – International Conferences on Women

Unit - IV: Women and Economic development

Women contributions to economic development – Women in Agriculture and industry and in Services – development programmes for Empowering Women under India's Five Year Plans Unit - V: Women and Entrepreneurship Emergence and Growth of Women Entrepreneurship – Motivating factors – Role of State – progress and Performance of Women Entrepreneur Schemes – problems and prospects of Women Entrepreneurship.

Reference Books:

- 1. Maithreyi Krishnaraj, Gender Population and Development
- 2. R.K.Sen and Anita Banaerji, Women and Economic Development

Question Paper Pattern:

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Continua	I Inita	No. of	Questions
Sections	Units	Theory	Problems
	Unit – 1	3	
Section A	Unit – 2	2	
	Unit – 3	3	

	Unit – 4	2	
	Unit – 5	2	
	Unit – 1	2	
	Unit – 2	2	
Section B	Unit -3	2	
	Unit – 4	1	
	Unit – 5	1	
	Unit – 1	1	
	Unit - 2	1	
Section C	Unit - 3	2	
	Unit - 4	1	
	Unit - 5	1	

ELECTIVE-V COMPUTER APPLICATION IN ECONOMIC ANALYSIS

Subject Code: 16PECOE07	Theory	Marks: 100
Semester: IV	Credit 3	Hours: 4 per Week

Course Objective

This paper enables the students to understand the basics of computer application in economics and to solve the application in economics and their related issues.

Unit – I

Brief History of Computer – Application of Computer in Business – Parts of Computer – Steps in Programming – Algorithms – Flow Charts – Overview of Operating Systems – Computer Languages.

Unit – II MS Office – MS Word – MS Excel – MS Powerpoint – MS Outlook – MS Access

Unit - III

Introduction of E-Commerce – Electronic data Interchange B to C transaction – B to B transaction – Electronic Payment – Protocol – SET Secured Electronic Transaction – Certification of Authentication – Electronic cash payment.

Unit - IV

Introduction – Internet – Intranet – Security issues and solutions – Antivirus programmes – E-mail – Chat – Secured mails.

Unit - V

Business related packages like Tally, SPSS, Video Conferencing – Tele meeting, Tele fax, Net meeting, Voice mail.

Recommended Text

- 1. Sanders, D.H. (1988): Computers Today, McGraw Hill (3 rd Edition), New York.
- 2. Sinha, P.K. (1992) : Computer Fundamentals, BPB Publications, New Delhi.
- 3. Handbook of Statistical

Books for Reference

- 1. Rajasekaran, S. (1986): Numerical Methods in Science and Engineering, A.H. Wheeler, Allahabad.
- 2. Rajasekaran, S. (1986): Numerical Methods in Science and Engineering, A.H. Wheeler, Allahabad.
- 3. Sanders, D.H. (1988): Computers Today, McGraw Hill (3 rd Edition), New York.
- 4. Sinha, P.K. (1992): Computer Fundamentals, BPB Publications, New Delhi.

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Sections		Theory	Problems	
	Unit – 1	3		
	Unit - 2	2		
Section A	Unit - 3	3		
	Unit – 4	2		
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	Unit – 1	2		
	Unit - 2	2		
Section B	Unit – 3	2		
	Unit – 4	1		
	Unit – 5	1		
	Unit – 1	1		
	Unit – 2	1		
Section C	Unit – 3	2		
	Unit – 4	1		
	Unit - 5	1		