SEMESTER – I CORE PAPER I-MICRO ECONOMICS – I

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-Hicksrevision of demand theory-Logical ordering.

UNIT II: THEORY OF PRODUCTION

The production Function – Production Function – short and long run – Relation between returnstoscaleandreturnstofactor–Cobb-DouglasandCESProductionFunctions–Single and Multi-productFirms.

UNIT III: THEORY OF COSTS

TotalRevenue, MarginalRevenue. CostFunctions-

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

MarketStructure—PerfectCompetition—Assumptions—Short-RunEquilibrium—Long-Run Equilibrium — Dynamic Changes and Industry Equilibrium. Definition — Demand and Revenue—EquilibriumoftheMonopolists:Short-RunEquilibrium—Long-RunEquilibrium

Comparison of Pure Competition and Monopoly – the Multi-plant Firm –
 Bilateral Monopoly – PriceDiscrimination.

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 Microeconomics2ndedition, Macmillan
- 2. Hal.R.Varian:Intermediate Micro Economics- Modern Approach,4thedn,W.W. Narton& Company.
- 3. W.J.BaumolandAlanBlinder–MicroEconomics, NewyorkUniversity.

BOOKS FOR REFERENCE:

1. Baumol.W.J.,(1978) :EconomicTheoryandOperationsAnalysis,Prentice Hall ofIndia.

2. Green, H.A.J(1974) : Consumer Theory, 2nd Edition, Macmillan.

3. JackHirschleifer(1980)

CORE PAPER II - INDIAN ECONOMICS - I

UNIT I

Meaning of under development – Economic Development and Economic Growth – Major issuesofEconomicDevelopment–EconomicandNon-economicfactors-FeaturesofIndian Economy - National Income – concepts – measurement and problems –National income at factorcostandatMarketprice-NationalincomeofIndia-TrendsinNationalincome

UNITII

Evolution of planning – success and failures of five year plans in India – Public sector and Indianplanning–Disinvestment–twelfthfiveyearplan–inclusiveandsustainablegrowth–infrastructure and Economic development – Macro perspective – Impact –trends.

UNITIII

Human development –Measurement - Human development index – progress of human development in India – Poverty – Multidimensional poverty Index – reforms–causes of poverty – growth and inequality – poverty and inclusive growth - comparison of poverty in India and China – Poverty alleviation programmes in India- Inequality after economic reforms in 1991 – Economic development and population growth – India's demographic transition – Gender equity and Demographic transition – India's Demographic dividendand its impact of economy – Population policies ofIndia.

UNITIV

Unemployment and employment perspective – concepts and measurements – labour force and workforce participation rates – characteristics of Indian labour markets – trends and pattern of employment growth –growth in employment, GDP and employment elasticity - Employmentandlabourpolicy– Indianlabourlawsandlabourmarkets–Publicemployment programmes for unorganised workers – case of NREGA

UNITV

ImportanceofAgricultureinNationalEconomy-Agriculturegrowth-GreenRevolutionand Land reformation-its impact –performance of Agriculture sector in five year plans – agricultureandruralIndia—ruraldistressinpost-reformIndia—Agriculturepolicies—Food Management – recent policy initiatives Pubic Distributive system in India - – food security and future sources of growth in Agriculture – foodsubsidy

BOOKS FOR REFERENCE

1. Indian Economy: performance and policies - UMAKAPILA

- India Economy since Independence UMAKAPILA
 RuddarDutt and KPM. Sundharam: IndianEconomy

CORE PAPER III- STATISTICS FOR ECONOMISTS

UNIT - I

Probability—Theorems-Addition-Multiplication-ConditionalProbability—BayesTheorem MathematicalExpectation-TheoreticalDistribution—Normal-BinomialandPoisson

UNIT - II

Index Number – Types of Index Numbers – Construction of Consumer Price Index – Wholesale Price and Production Indices in India.

UNIT - III

Analysis of Time Series – Measurement of Trend – Semi Averages, Moving Averages - method of Least Square- Simple Correlation – Partial Correlation - Regression

UNIT - IV

Hypothesis Testing, Standard Error – Large Sample Test for Two Means and Two Standard Deviations–TwoProportionandConfidenceIntervalSmallSampleTest–t-Test–Pairedt- Test-Chi SquareTest

UNIT - V

FTest-Analysis of Variance One Way-Two Way Classifications-Design of Experiments-Latin Squares.

RECOMMENDED TEXT:

- 1. Gupta .S.P. Statistical Methods, Sultan Chand and Sons, New Delhi, 2005
- 2. Sancheti.DCandKapoor.VKStatisticalTheory-MethodandApplication,SultanChandand Sons, New Delhi,2005.
- 3. Shukla .MC &Gulshan.SS, Statistical Theory and Practice. Sultan Chand and Sons, New Delhi,2000.

Elective Paper - I: HISTORY OF MODERN ECONOMIC ANALYSIS

UNIT-I

Theory of value, General Equilibrium, Game theory and Welfare

Samuelson Paul - Hicks john R,-Arrow, Kenneth,-Coase, Ronald H-Nash, John

UNIT-II

Statics, Dynamics, Macro Models, Econometrics, Macroeconomics, Monetary Economics and Financial Economics

Friedman, Milton.-Tobin, James-Modigliani, Franco -Markowitz, Hary- Scholes, Myron

UNIT-III

Economic Development, Economic Growth, Input-OutputAnalysis Programming social Accounts, Economic and socialSystems

Kuzneuts, Simon -Schultz, Theodore -W Lewis Sir W. Arthur -Solow, Robert-M.Leontief, Wassily- W.HayekFredricch-Myrdal, Gunnar.

UNIT-IV

International Trade, Capital Movement and Quantitative, Economic History

Meade, James - E.Ohlir, Bertil- Mundell, Robert A.-North, Douglas C-.Fogel, Robert W

UNIT-V

Other: Simon, Herbert A - Decision making within Economic organisation

George, J- Industrial Economics

Buchanan, James M. - Theory of Phblic Choice

Lucas, Robert J - Rational Expectations Approach to Macro Economics

Sen, Amartya K. - Applied Welfare Economics.

- 1. Mark, Blang Economic Theory in Retrospect
- 2. Schumpeter Ten Great Economists
- 3. Alexander Haney History of Economic Doctrines
- 4. Eric Roll History of Economic Theory

Elective Paper-II:ENVIRONMENTALECONOMICS

UNIT - I:INTRODUCTION

Theservicesprovided by the environment for the economic system - The flow of environmental resource

UNIT - II: ECONOMIC ROOTS OF ENVIRONMENTAL DAMAGE

Themarketasallocationandmechanism:Conditionsforefficientallocation-Marketfailure and the environment: E environmental damage as an -eternality ||, environment as -Public good ||, The -tragedy of thecommons ||

UNIT - III: ECONOMIC INSTRUMENTS FOR ENVIRONMENTAL PROTECTION

The concept of —Optimum Pollution - Limitations of Command-and -Control policy - Pollution Tax - Tradable permits- Property rights to environmental goods (Coase solution)

UNIT - IV: THE ECONOMIC VALUE OF NATURE

Themeaningtoeconomic value: Willingness topay-

Typesofenvironmentalvalue: Useand non-use values - Cost-benefit analysis -

-Stated Preference and revealed preference approaches to environmental valuation

UNIT - V: CLIMATE CHANGE, SUSTAINABLE DEVELOPMENT

Sourcesofclimatechange, economic consequences of climatechange-

EconomicPolicyfor climate change: costs and benefits of mitigation and adaptation

- Definition of sustainable development, Policy for sustainable development-Poverty—development interrelationship.

- 1. Charles D. Kolstad (2003), Environmental Economics, Oxford University Press, New York.
- 2. NickHanley,JasonF.ShogrenandBenWhite(1999),EnvironmentalEconomics: In Theory and Practice, Macmillan India Limited, NewDelhi.
- 3. BarryC.Field(1997),EnvironmentalEconomics:AnIntroduction,McGraw-Hill Companies,Singapore.
- 4. UlaganathanSankar(2008),EnvironmentalEconomics,OxfordUniversityPress, New Delhi.
- 5. RabindraN.Bhattacharya(2005), Environmental Economics: An Indian Perspective, Oxford University Press, New Delhi.
- 6. KatarSinghandAnilShishodia(2007),EnvironmentalEconomics:Theory and Applications, Sage Publications,NewDelhi.
- 7. SubhashiniMuthukrishnan(2010),EconomicsofEnvironment,PHILearningPri vate Limited, NewDelhi.
- 8. Jhingan, M.L. and Chandar K. Sharma (2007), Environmental Economics: The ory, Management and Policy, Vrinda Publications (P) Ltd., Delhi.
- 9. A.JonathanLesser, Daniel E.Dodds and Richard O. Zerbe Jr. (1997), Environment al Economics and Policy, Addison-Wesley Ltd., New York.

SEMESTER - II

COREPAPERIV-MICROECONOMICS-II

UNIT- I: MODERN THEORIES OF THEFIRM

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

Asymmetric Information -Moral hazard problem, adverse selection, principal agent problem, implications of asymmetric information, market signaling, 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

CriteriaofSocialWelfare:ThePareto-OptimalityCriterion— Arrowimpossibilitytheorem- The Kaldor-Hicks _Compensation Criterion' – the Bergson Criterion _Social Welfare Function' – Maximisation of SocialWelfare.

RECOMMENDED TEXT:

- 1. Koutsoyiannis. A.: Modern Microeconomics2ndedition, Macmillan
- 2. Hal.R.Varian :Intermediate Micro Economics- Modern Approach, 4thedn, W.W. Narton&Company.
- 3. W.J.BaumolandAlanBlinder–MicroEconomics, NewyorkUniversity.

- 1. Baumol.W.J.,(1978) : Economic Theory and Operations Analysis,PrenticeHall of India.
- 2. Green, H.A.J(1974) :Consumer Theory, 2nd Edition, Macmillan.
- 3. JackHirschleifer(1980)
 - :PriceTheoryandApplications,2ndEdition,Macmillan 4.Richard,H.Leftwich
 - : The Price System and ResourceAllocation.

CORE PAPER V- INDIAN ECONOMICS – II

UNIT-I

Savings and investments in India – various plan periods– its impact on Indian Economy – factorsaffectingsavingsinIndia–Savingsinpostreformperiods-Capitalformationandits determinants – growth performance of capital formation in India – External shocks and its impact on savings, investment and capital formation in India.

UNIT-II

Industrial development and policies – New Industrial policy reforms 1991-its comparison with previous industrial policies - performances of small, medium and large industries in India -employment trends in manufacturing sector — Industrial development and foreign direct investment — strategies of disinvestment and privatisation — Industrial growth performance in India — pre reform and post reform periods.

UNIT-III

India's external sector – Export promotion vs import substitution – foreign trade policies - Structural changes in India's foreign trade during 80 and 90s – India's services trade –Gold and Oil trade - special economic zones –Balance of payments of India – Exchange rate fluctuations and its impacton Indian Economy–external debt and Indian economy–external sector reforms.

UNIT-IV

Foreign direct investment and portfolio investment in India – Foreign Aid vs Foreign direct investment-ForeignDirectInvestmentandEconomicDevelopment-sectoralperformance— growth trends of foreign direct investment – India-china comparison —performances of foreign institutionalinvestments.

UNIT - V

Globalization and India-WTO negotiations and India- Impact of globalization on Indian Economics -Pre and Post reform period - Reforms in Money market and Capital Market - Globalization, External shocks and Indian Economy - Global financial crisis and its impact on Indian economy - Environmental changes and sustainable development of India - issues and challenges.

- 1. Indian Economy: performance and policies UMAKAPILA
- 2. India Economy since Independence UMAKAPILA
- 3. RuddarDutt and KPM. Sundharam: IndianEconomy

CORE PAPER VI- MATHEMATICS FOR ECONOMICS

UNIT - I

Matrices – Matrix operations – Commutative Associative and Distributive Laws – Determinants – Rank of a matrix – Matrix Inverse – Cramer's Rule - Finding the values of unknown variables in the market(Prices)

UNIT - II

Differentiation – one variable-AC,MC-AR,MR –Elasticities-Price-income-cross Elasticities-

- Conditions for Profit Maximisation and CostMinimisation

UNIT - III

Partial Derivatives - Functions of two Variables — Properties of Homogenous Functions- Euler's Theorem- Uses of Homogenous Functions in Economics-Cobb-Douglas Production Function.

UNIT - IV

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

UNIT - V

Elementary Integration Techniques-Indefinite Integrals-Definite Integral Inte

RECOMMENDED TEXT

1. Edward. T. Dowling, Mathematical Economics, 2nd Edition, McGraw Hill, New York, 1992.

BOOKS FOR REFERENCE

- 1. Chiang A.C. Fundamental Methods of Mathematical Economics, McGraw Hill B ook Company, New York, 1974.
- 2. MehtaV.L.andMadnaniG.M.K,MathematicsforEconomists,SultanChanda nd Sons, New Delhi,2005.
- 3. Monga,G.S.MathematicsandStatisticsforEconomists,VikasPublishingHo use, New Delhi,1972.
- 4. K.SydsaeterandP.Hammond,MathematicsforEconomicAnalysis,Pears on Educational Asia: Delhi,2002.

Journals:

- 1. Journal of AppliedMathematics
- 2. Journal of Mathematical Economics

Elective Paper – III: INDUSTRIAL ECONOMICS

UNIT – I

Meaning of Industrialisation - The role of Industry in Economic Development - Theories of Industry - Hoffman - Chenery and Gerschenkron

UNIT – II

Concept and Organisation of a Firm - Market Structure - Sellers Concentration - Product Differentiation - Entry Conditions - Economics of Scale - Profitability and Innovation

UNIT - III

Theories of Industrial Location - Weber - Sargant Florence - Factors Affecting Location

UNIT - IV

GrowthoftheFirm-SizeandGrowth-GrowthandprofitabilityoftheFirm-Constraintson Growth-Productivity-Efficiency-CapacityUtilisation-Concept—Measurement

UNIT - V

ClassificationofIndustries-UseBased-ResourceBased-IndustrialPolicyinIndia-Roleof Public and Private Sectors - Recent Trends in Industrial Growth - India as a Global Hub - MNCs - Transfer of Technology – Liberalisation–Privatisation

- 1. Ahulwalia.I.J.-IndustrialGrowthinIndia,OxfordUniversityPress,NewDelhi.
- 2. Ahulwalia .I.J.-Industrial Growth in India,
- 3. Chernuliam .F -Industrial Economics; Indian Perspective, Himalaya publishing House.
- 4. Desai.B Industrial Economy in India (3rd Ed.)HPH, Mumbai.
- 5. Kuchhal .S.C. -Industrial Economy of India(5th Edition), Chaitanya Publishing House.
- 6. Sing, Aand A.N. Sadhu-Industrial Economics, Himalaya Publishing House, Mumbai. Government of India, Economic Survey (Annual).

Extra Disciplinary-I: TAMIL NADU ECONOMY

UNIT-I: TAMIL NADU ECONOMY

Economic and Social Indicators - Human Development Index Rank - Gender Disparity 1ndex - Poverty Index - Work participation rate - Unemployment rate - Literacy Rate - Life expectancy - State Income - Sectoral Share - Gross State Domestic Product - Per capita Income Comparison of Tamil Nadu and All India (only data).

UNIT-II: AGRICULTURE

Contribution to Gross State Domestic Product -Land use pattern in Tamil Nadu - Land holding - Principal crops in Tamil Nadu - Agricultural production - Loss of Agricultural production due to Natural Calamities - Rainfall in Tamil Nadu - Irrigation - Crop Insurance - Agricultural marketing.

UNIT-III: INDUSTRY

Index of Industrial Production - Industrial Scenario in Tamil Nadu - Foreign Direct investment inflow into States - Production trend - Export contribution of top S major industries - Micro, Small, Medium enterprises - Khadi& Village industries.

UNIT-IV: TRANSPORT

Road network – Highways – Maintenance of Road Quality – Private public participation under infrastructure – Growth of vehicle population – Railways – Metro rail project – Mono rail projects – Sea Ports.

UNIT-V: HEALTH

Health care delivery – Crude birth rate – death rate – infant mortality rate – Total fertility rate – Maternal mortality rate – Primary, Secondary, Tertiary Health system - Education – Educational development index – Gross enrollment ratio - Primary, Secondary, Higher Education in Tamil Nadu.

SEMESTER -III

COREPAPERVII-MACROECONOMICS-I

UNIT - I: KEY MACRO ECONOMICVARIABLES

AggregateIncome-Expenditureandcircularflow-computationofGDP-RealVs-Nominal GDP-MeasurementofCostofLiving(CPIandWPI)-MeasurementofUnemploymentrate

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 EfficiencyofInvestment, Multiplier Analysis, Accelerator and Investment behavior concepts of supermultiplier.

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- Keynesiantheoryofemploymentandincome-Aggregatedemand–EffectiveDemand-The concept of under employmentequilibrium.

UNIT - IV: THEORY OF DEMAND FOR MONEY

Quantity theory of money - Fisher's and Cambridge equation, Keynesian theory of money - MiltonFriedmanrestatementofQuantitytheoryofmoney-Patinkin'sRealBalanceEffect-

Tobin's Portfolio analysis, Crisisin Keynesiane conomics and the revival of monetarism.

UNIT - V: THEORY OF SUPPLY OF MONEY:

RBI Approach to money supply: narrow money, broad money, reserve (high powered) money-openmarketoperations-cashreserveratio-Fractionalbanking-reporate-money multiplier-MoneySupplyinopeneconomy-marketforloanablefundsinanopeneconomy

- Control of money supply.

RECOMMENDED TEXT:

- 1. Branson, W.A.(1989): Macroeconomic Theory and Policy, (3rd Edition), Harper and Row, NewYork.
- 2. Shapiro, E. (1996) : Macroeconomic Analysis, Galgotia Publications, NewDelhi.
- 3. N.GregoryMankiw: Macro Economics, WorthPublishers.

- 1. Ackley, G. (1978) Macroeconomics: Theory and Policy, Macmillan, New York Blackhouse,
- 2. R.andA.Salansi(2000)-Macroeconomics and the Real World (2 Vols.) Oxford University Press,London.
- 3. Dornbusch, R. and F. Stanley (1997) Macroeconomics, McGraw Hill, Inc., New York.
- 4. GuptaS.B(1993) Monetary Economics, S Chand Publications, NewDelhi.

- 5. Hall, R.E. and J.B. Taylor (1986) -Macroeconomics, W.W.Norton, New York.
- 6. Heijdra,B.J.and V.P. Fredericck (2001) Foundations of Modern Macroeconomics, Oxford University Press, NewDelhi.
- 7. Jha,R.(1991)-

Contemporary Macroeconomic Theory and Policy, Wiley Easter Ltd., New Delhi.

- 8. Romer, D.L. (1996) Advanced Macroeconomics, McGraw Hill Company Ltd., New York.
- 9. Scarfe, B.L. (1977) Cycles, Growth and Inflation, McGraw Hill, NewYork.
- 10. Surrey, M.J.C. (Ed.) (1976) MacroeconomicThemes,Oxford University Press, Oxford.

COREPAPERVIII-PUBLICFINANCE-I

UNIT - I:INTRODUCTION

PublicFinanceandPublicEconomics-GovernmentinMixedEconomy— PublicandPrivate Sectors—CooperationorCompetition—

RoleofPublicEnterprisesinIndia—PricingPolicies ofPublicEnterprises—Administeredprices—Peakloadpricing—Marginalcostpricing.

UNIT -II: PUBLIC GOODS AND PUBLIC CHOICE

Allocation, growth and stabilization function of government – private goods, public goods andmeritgoods—marketfailure—imperfections,decreasingcosts,externalities,uncertainty and non-existence of future markets - Theory of second best – problems of allocating resources – problems of preference revelation and aggregation of preferences – voting systems.

UNIT - III: PUBLIC GOOD AND TAXATION

Samuels on theory of public goods - Lindahl solution, theory of clubs, median voter theorem, theory of rentseeking-Taxation: Theories of Taxation—

ConceptofExcessBurden ofTaxes-ExcessburdenofanExciseTax-

Excess burden of Taxon Wage in comes-direct

Vs.Indirecttaxes,efficiencyandequity,deadweightloss(incometax,commoditytax)

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.

RECOMMENDED TEXT:

1. Bhargava(2004) :Publicfinance,ItsTheoryandworkingin India,ChaitanyaPublishingHouse.

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.

- 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 FinanceinDeveloping Coutnries, Tata McGraw Hill, NewDelhi.
- 5. Houghton, J.M. (1970): The Public Finance: Selected Readings, Penguin, Harmondsworth.
- 6. Jha, R. (1998) Modern Public Economics, Routledge, London.
- 7. Menutt, P. (1996): The Economics of Public Choice, Edward Elgar, U.K.
- 8. Shoup, C.S. (1970) : Public Finance, Aldine, Chicago.
- 9. Shome, P. (Ed.) (1995):Tax Policy: Handbook, Tax Division, Fiscal Affairs Department, International Monetary Fund, Washington D.C.

CORE PAPER IX- INTERNATIONAL ECONOMICS – I

UNIT- I

Nature and scope of international economics – Inter-regional and International Trade- theories of International trade – Basic concepts: - Community Indifference Curve — offer curve -Classical theories – Adam Smith – David Ricardo — J.S.Mill's reciprocal theory – Heberler and Opportunity cost theory

UNIT - II

Modern theory of International Trade — Huckster-Ohlin theory of International Trade — Superiority of H-O theory over classical theories of International Trade — Factor price equalisationtheorem—factorpriceandfactorreversals—obstacles—LernerandKindelberger analysis of factor price equalisation theorem—Stopler-samuelson theorem—Rybczynskitheorem—

UNIT - III

Inter- industry trade and Intra-industry trade- differences –global pattern of intra industry trade –An explanation of Intra-industry trade

UNIT-IV

Economies of Scale and Trade: Differential products and trade, differences in taste and Trade; The specific factor model – single and two specific factor case – Technological Gap and product cycle models– increasing returns to scale

UNIT-V

Terms of Trade – concepts of terms of trade – Determinants of Terms of trade – static and dynamic gains from trade – Samuelson on gains from trade – immiserising growth – Economic Growth and trade -Technical progress and Trade – Hicksian graphical analysis – neutral, capital and labour saving technologies and its impact on terms of trade- Prebisch- singer thesis – impact of deterioration of terms of trade on developing countries.

RECOMMENDED TEXT:

- 1. International Economics Bosodersten
- 2. International economicspaulkrugman
- 3. International Economics K.C.Rana and K.C.Verma
- 4. International Economics theory and policy D.NDwivedi

BOOK REFERENCES

- 1. International trade theory and policy Giancarlo Gandolfo
- 2. International Economics: MiltiadesChacholiades
- 3. International Economics K.C.Rana and K.C.Verma
- 4. International Economics Francischerunilam

COREPAPERX-DEVELOPMENTECONOMICS-I

UNIT - I:INTRODUCTION

Features of less developed economics- Similarities and differences Distinction between growth and development; Indicators of development: GDP as development indicator; purchasing power points; Human Development Index

UNIT - II: INEQUALITY, POVERYT & DEVELOPMENT

Measuring inequality: Lorenz curve and Gini co-efficient

Economicgrowthandinequality: Kuznetsinverted UHypothesis; consequences of inequality

MeasuringPoverty:Headcountindex,incomegapindexandcapabilitypoverty---

The impact of growth and poverty

UNIT - III: THEORIES OF DEVELOPMENT - I

Adam smith's

Theory Malthus

Theory Ricordo's

Theory

Marx Theory of Capitalist development

UNIT -IV: THEORIES OF DEVELOPMENT - II

Development with unlimited supplies of labour (Lewis Theo

ry) Schumplter's Theory ofdevelopment

Rostow's Stages of growth theory

UNIT -V: THEORIES OF GROWTH

Harrod-Damon model

Solow;growththeory:theconvergencehypothesis,Solowresid ual New growth theory(Romer)

RECOMMENDED TEXT

- 1. Adelman,I(1961) : Theories of EconomicGrowthand Development,Stanford University Press,Stanford.
- 2. Thirillwall, A.P. (1978) : Growth and Development, 2ed. Macmillan
- 3. Michael P.Todaroand Stephen C. Smith (2003): EconomicDevelopment, Pearson Education Pte. Ltd., Singapore.

- 1. Chakravarthy, S. (1982): Alternative Approaches to atheory of EconomicGrowth, OxfordUniversityPress.
- 2. Chakravarthy, S. (1989): Development Planning: The IndianExperience, Clarendon Press.
- 3. Chatak, S. (1986) An Introduction to Development Economics, Allen and Unwin.
- 4. Kindleberger, C.P. (1977) : Economic Development 3ed McGrawHill.

- 5. Meler, G.M.(ed.)(1984) :LeadingIssuesinEconomicDevelopment4ed.Oxford UniversityPress.
- 6. Mair, G.M., and D. Seers (Eds.) (1987): Pioneers in Development, Oxford UniversityPress.
- 7. **Pathway to Economic Development by** Amilaya Krishna Dutt (NewDelhi, Oxford University Press,2014).

Elective Paper – IV: ECONOMICS OF INFRASTRUCTURE

UNIT-I

Infrastructure and economic development – Infrastructure as a public good; Social and physicalinfrastructure; Special characteristics of utilities. The peak-load, Off-Load Problem, Dual Principle Controversy

UNIT-II

The structure of Transport Costs and Location of Economic Activities. Demand for Transport. Models of Freight and Passenger Demand. Model Choice; Cost Functions in the TransportSector.PrincipleofPricing.SpecialProblemsofIndividualsModesofTransport.

UNIT-III

PrimacyofEnergyintheProcessofEconomicDevelopment-FactorsDeterminingDemand for Energy; Effects of Energy Shortages- Energy Conservation-Renewable and Non- conventional Sources of Energy- The search for an Optimal Energy Policy in the Indian Context.

UNIT-IV

OrganizationandFinancingofServices-Privatevs.PublicSectorFinancing-thefixationof prices of social services-Health, Education and Human Development Concept-scope and relevanceofHumanResourceDevelopment-EducationandEconomicGrowth-Educational Planning -Social Demand -The case for Universal, Free, Primary Education; Structure of higher educationandproblemsofitsfinancinginIndia; Theissuesineducationpolicy—importance of health and its impact on Economicdevelopment.

UNIT -V

Infrastructure in Modern India – strategies for Infrastructure development – differences in infrastructure building between China and India – infrastructure investments in India – prioritizationofinfrastructuresectorsfordevelopment– MacroperspectiveofInfrastructure development in India - Infrastructure andPlans.

RECOMMENDED TEXT

- 1. Crew, M.A.P.R. Kleindorfer (1979), Public Utility Economics, Macmillan, London.
- 2. Indian Council of Social Sciences Research (ICSSR)(1976), Economics of Infrastructure, Vol. VI,NewDelhi.
- 3. National Council of Applied Economic Research (NCAER) (1996), India InfrastructureReport;
- 4. Policy Implications for Growth and Welfare, NCAER, NewDelhi.
- 5. Parikh, K.S. (Ed.) (1997), India Development Report, Oxford, New Delhi.
- 6. Turvey. R. (Ed.) (1968), Public Enterprises, Penguin, Harmondwoth.

- 1. Goyal, S.K. (Ed.) (1995), Public Enterprises, Indian Institute of Public Administration, NewDelhi.
- 2. Panchamukh, P.R. (1980), Economics of Health: A Trend Reportin ICSSR, A Survey of Researchin Economics, Vol. VI, Infrastructure, Allied, Delhi.
- 3. Tilak, J.B.G. (1994), Education for Development in Asia, Sage Publications, NewDelhi.

UNIT - I: INTRODUCTION

Labour as a unique factor of production - Labour ForceLabour market – Equilibrium between supply and demand for labour.

UNIT - II: PROBLE:M OF EMPLOYMENT

Employment - Problems of unemployment and under employment - Role of Employment Exchanges - Vocational Training - Skill Development Measures - Manpower planning.

UNIT- III: WAGE STRUCTURE

Employee's remuneration - Wage structure in India - Wage differentials - Theories of wages - Wages Act, 1936 - Wage Act 1948 - Bonus and fringe benefits payments of Bonus Act 1965 and amendments - Recent Developments.

UNIT - IV: SOCIAL SECURITY MEASURES

Social Security - ILO and security - Social security measures in India - Employees state Insurance Act 1948 - Employees Provident Funds Act 1952 and Public Provident Fund Act 1968 - Recent developments - Social security in Tamil Nadu.

UNIT-V: TRADE UNIONS

Trade Unionism - Development of Trade Unions in India and their present position - Industrial relations - Industrial conflicts - Preventive and remedial measures - Industrial Act 1947 and amendments - Workers participation in Management - Collective bar gaining - adjudication and arbitration - Status of industrial relation in India.

BOOKS FOR REFERENCES:

- 1. Helfgott, LabourEconomics, (New York: Random Ho use 1974)
- 2. Kamik, V.B., Indian Trade Union: A Survey (Mumbai: Allied Publishers Pvt.Ltd. 1966)
- 3. McCOnnell, Capbell R., and Stanley.L.Brue, Contemporary Labour Economics (Singapore, McGrew-Hill Book Co 1989)
- 4. Reynolds, Lloyd. , Labour Economics and Labour Welfare (New Delhi: Prentice Hall Of India Pvt. LTd. 1978)
- 5. Sepsfore, David and ZafirisTzannatos., Current Issues in Labour Economics (Hong Kong, Macmilan 1990)
- 6. Singh, V.B and Saran, A.K., Industrial Labour in India (Mubai: Asia Publishing House 1960)
- 7. Verma, Pramod., Labour Economics and Industrial Relations (New Dethi: TataMcGrew Hill Publishing Co. Ltd. 1987).

SEMESTER – IV CORE PAPER XI- MACRO ECONOMICS II

UNIT-I:KEYNESIANTHEORYTHROUGHIS-LMFRAMEWORK

IS-LM Model – Derivation of IS-LM Curves - Fiscal Policies in IS-LM Framework - Monetary Policies in IS-LM Framework - Policy Implications of Keynesian Economics: Philips Curve

UNIT – II: MONETARISM

The Crisis in Keynesian Theory: Stagflation - Expectations Augmented Philips Curve (NAIRU) Policy Implications of Monetarism

UNIT III: NEW CLASSICAL ECONOMICS AND NEW KEYNESIAN ECONOMICS

New Classical Economics: Rational Expectations Hypothesis – The Concept of Policy Irrelevance-PolicyImplicationsofNewClassicalEconomics-NewKeynesianEconomics:

Similarities and Differences between Traditional Keynesian Economics and New Keynes ian Economics - Explaining the Upward Slopping Short run Aggregate Supply Curve through Sticky Wages and Sticky Prices-Policy Implications of New Keynesian Economics

UNIY - IV: BUSINESS CYCLE:

TheoriesofSchumpeter, Kaldor, Samuelson, Hicksand Goodwinmodel, Control of Busin ess Cycles, relative Efficiency of Monetary and Fiscal Policies

UNIT - V: OPEN ECONOMY AND MACRO ECONOMY

The GDP in an Open Economy - Capital Movement and Interest Rate Parity - Mundell- Fleming model - Merits - Dangers of Free Capital Flows-The Global Recession of 2008

RECOMMENDED TEXT:

- 1. Branson, W.A.(1989): Macroeconomic Theory and Policy, (3rd Edition), Harper and Row, NewYork.
- 2. Shapiro, E. (1996) : Macroeconomic Analysis, Galgotia Publications, NewDelhi.
- 3. N.GregoryMankiw: Macro Economics, WorthPublishers.

- 1. Ackley, G. (1978) Macroeconomics: Theory and Policy, Macmillan, New York Blackhouse.
- 2. R.andA.Salansi(2000)-Macroeconomics and the Real World (2 Vols.) Oxford University Press,London.
- 3. Dornbusch, R. and F. Stanley (1997) Macroeconomics, McGraw Hill, Inc., New York.
- 4. GuptaS.B(1993) Monetary Economics, S Chand Publications, NewDelhi.
- 5. Hall, R.E. and J.B. Taylor (1986) -Macroeconomics, W.W.Norton, NewYork.
- 6. Heijdra,B.J.and V.P. Fredericck (2001) Foundations of Modern Macroeconomics, Oxford University Press, NewDelhi.
- 7. Jha, R. (1991) Contemporary Macroeconomic Theory and Policy, Wiley Easter Ltd., NewDelhi.
- 8. Romer, D.L. (1996) Advanced Macroeconomics, McGraw Hill Company Ltd., New York.
- 9. Scarfe, B.L. (1977) Cycles, Growth and Inflation, McGraw Hill, NewYork.

10. Surrey, M.J.C. (Ed.) (1976) - MacroeconomicThemes,Oxford University Press, Oxford.

CORE PAPER XII- PUBLIC ECONOMICS -II

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 – ShadowPrices—DiscountRate—ReformsinPublicExpenditure—PerformanceBudgeting – Programme Budgeting – Zero Base Budgeting – Appraisal of Public Expenditure Policy in India.

UNIT-III:FISCALFEDERALISM

Fiscalfederalism:TheoriesofFiscalFederalism-ConceptsofDeficits— DeficitFinancing—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- GST –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) :Publicfinance,ItsTheoryandworkingin India,ChaitanyaPublishingHouse.

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.

- 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 Finan in Developing Countries, Tata McGraw Hill, New Delhi.

- 5. Houghton, J.M. (1970): The Public Finance: Selected Readings, Penguin, Harmondsworth.
- 6. Jha, R. (1998) Modern Public Economics, Routledge, London.
- 7. Menutt, P. (1996): The Economics of Public Choice, Edward Elgar, U.K.
- 8. Shoup, C.S. (1970) : Public Finance, Aldine, Chicago.
- 9. Shome, P. (Ed.) (1995):Tax Policy: Handbook, Tax Division, Fiscal Affairs Department, International Monetary Fund, Washington D.C.

UNIT - I

Tradepolicy–FreetradevsRestrictedtradepolicy–Barrierstotrade–Tariff-Meaningand types of Tariff – General Equilibrium analysis of tariff – Effects of Tariff – Theory of optimum tariff — Non-tariff barriers – Quotas – Dumping – Export taxes and subsidies – Voluntary export restraints — the state trading-International trade cartels – Theory of Customs Union – trade creation and trade diversion – effects of customs union- Trade problems and policies of developing countries. Foreign trade and National Income –trade multiplier and exportmultiplier

UNIT - II

Balance of payments and trade – Structure of balance of payments — Balance of payments — equilibrium-Balanceofpaymentsadjustments—exchangerate—Devaluationandbalanceof payments –Elasticity approach – The J-curve effect – Absorption approach – Balance of paymentadjustments-domestic price, income, capital movements, monetary approach and expenditure policies – balance of payment adjustments through controls

UNIT - III

Foreign exchange - functions - determination of equilibrium - sport and forward rates of exchange - Theories of exchange rate determination - Mint parity theory-purchasing power paritytheory-balanceofpaymenttheory-Fixedexchangevsflexibleexchange-Exchange controls -current account and capital accountconvertibility

UNIT - IV

International capital movements – Foreign aid and development – Aid vs Trade effects of International capital flows – Internal and external balance –The Mundell-Fleming model– internal and external balance through monetary –fiscal policy mix – fixed exchange rate system and flexible exchange rate system – balance of payments with inflation and unemployment.

UNIT-V

Internationalmonetarysystem—Problemsofinternationalmonetarysystem—Brettonwood systemanditsbreakdown-GATT-WTO-Europeancurrencymarkets—Europeanmonetary system-Globalizationandintegrationofglobaleconomy—Globalfinancialcrisisandglobal Economy — International trade and Environment

RECOMMENDED TEXT:

- 1. International Economics Bosodersten
- 2. International economicspaulkrugman
- 3. International Economics K.C.Rana and K.C.Verma
- 4. International Economics theory and policy D.NDwivedi

BOOK REFERENCES

- 1. International trade theory and policy GiancarloGandolfo
- 2. International Economics: MiltiadesChacholiades
- 3. International Economics K.C.Rana and K.C.Verma
- 4. International Economics Francischerunilam

Introduction to Capital markets-An over view of financial markets; structure and characteristics, primary & secondary, markets IPO, book building, Allotment & listing; Market infrastructure institution: stock exchanges & depositories; Market intermediaries: stock brockers & subbrokers, Authorised persons (AP)& Depositary participants (DP), Registrar& share Transfer agents (RTA) Merchant Bankers & Under Writers, Credit Rating Agencies.

UNIT-II

Trading, Clearing &settlement: Debt Markets, Money Markets, Bonds & Debentures and yield;

Wholesale debt market of NSE. Equity markets: Trading, clearing,& settlement cycle ,Margining system, Pay-in & Pay-Out of cash and securities. Income Tax on Dividends, Long term/short term capital gains Tax, Wealth Tax on equity investments.

UNIT-III

Derivative markets: Derivative market in India & its regulations LC Gupta committee. Need for derivatives& its economic utility; hedging & arbitrage through derivatives. Forward Vs Futures; Futures&Options; American option & European Option; Call Option & Put Option; Pay-Offs for futures and different types of options. Pricing derivatives. Trading system, Clearing & settlement; Margins, initial margin, MTM- market to market, VaR margin; commodities trading, Forex/currency trading, interest rate futures/derivatives trading &taxation.

UNIT-IV

Regulation of Financial Markets: 1ega1 and regulatory frame work: The role of the Regulators: SEBI, FMC, IRDA, PFRDA, RBI; Know Your Customer, SEBI Guidelines for capital issues, Circular Trading, Price sensitive information and Insider Trading, UPSI - Unpublished Price Sensitive Information (one case study from insider trading). Investor Protection: IPF — Investor Protection Funds, Investor Awareness Initiatives by SEBI, Stock Exchanges, Depositories and Mutual Funds.

UNIT - V

Mutual Funds, Types & Options, Equity MI', Debt MF, Balanced MF, Diversified MF. Sectoral MF, Growth Option Vs Dividend Option, Tax benefits. Angel Funds, Venture Capital Financing, Start-ups, Unicorns, Dragons. Finance Information System (FIS), AIR. Interpretation and impact of Leading Economic Indicators: GDP, CPI, WPI, HP, CAD, TD, FD, PMI, etc. International Economic Indicators & impact on the Financial Markets: USD Index, Crude, Bullion, Bast Metals, USA, Euro & Asian Mkts.

RECOMMENDED TEXT:

32

• Bhole: Financial Institutions and Markets, TMIJ.

• M.Y. Khan, (2001): Financial Services, TMH

- Fabozzi, (2002): Foundations of Financial Marketsand Institutions, Pearson Education,
- New Delhi.
- James C. Van Horne, : Financial Management and Policy,(2002) Prentice Hall of India Pvt.
- Ltd.New Delhi.
- Kuchhal S.C. : Financial management: An Analytical and Conceptual Approach Chaitanya
- publishing House, Allahabad.
- P.V. Kulkarni: Financial management, Himalaya Publishing House.
- Panday, I.M.: Financial

I:SECTORALCONTRIBUTIONINDEVELOPMENT

Agricultural sector's contribution to development and policies for enhancing agriculture's role in development

Rural-

Urbanmigration:PushandPullfactors.

Manufacturing sector

anddevelopmental.

Urban informal sector: Characteristics of the sector and consequences of its growth.

UNIT - II: HUMAN CAPITAL AND DEVELOPMENT

Population: Demographic transition, population—

development interrelationship The role of health in national and economic performance

Education and Economic growth: the return on education; and productivity Economic ationals for government 's role in providing health care and education in poor economics

UNIT - III: STRATEGIES FOR DEVELOPMENT

Balanced and Unbalanced growth

The role of market and state in development

Strengthsandlimitationsofinward-

orientedandoutwardtradepolicies

 $The-Washington Consensus \\ \| components and critical evaluatio$

n

UNIT - IV: GENDER EMPOWERMENT

The concept of gender empowerment UNDP's Gender Empowerment Measure Themutualinterrelationshipbetweengenderempowermentandeconomicdevel opment

The concept of sustainable development (Brundland definition), policies for sustainable development

UNIT - V: NON-ECONOMIC FACTORS IN DEVELOPMENT

 $Geography and development; the \verb-internal resource curse \verb|| (DUTCHDisease) Social capital and economic growth$

Institution for development: Property rights, -inclusive | political institutions

RECOMMENDED TEXT

- 1. Adelman,I(1961) : Theories of EconomicGrowthand Development,Stanford University Press,Stanford.
- 2. Thirillwall, A.P. (1978) : Growth and Development, 2ed. Macmillan
- 3. Michael P.Todaroand Stephen C. Smith (2003): EconomicDevelopment, Pearson Education Pte. Ltd., Singapore.

- 1. Chakravarthy, S. (1982): Alternative Approaches to atheory of EconomicGrowth, Oxford UniversityPress.
- 2. Chakravarthy, S. (1989): Development Planning: The IndianExperience, Clarendon Press.
- 3. Chatak, S. (1986) An Introduction to Development Economics, Allen and Unwin.

- 4. Kindleberger, C.P. (1977) : Economic Development 3ed McGrawHill.
- 5. Meler, G.M.(ed.)(1984) :LeadingIssuesinEconomicDevelopment4ed.Oxford UniversityPress.
- 6. Mair, G.M., and D. Seers (Eds.) (1987): Pioneers in Development, Oxford UniversityPress.
- 7. **Pathway to Economic Development by** Amilaya Krishna Dutt (NewDelhi, Oxford University Press, 2014).

ELECTIVE V - OPERATION RESEARCH

UNIT-I

Operation Research-Meaning-Scope-Limitations-Application in decision making

UNIT-II

Linear Programming — Graphical — Simplex Method (restricted to two variables) - Profit Maximization — Cost Minimization - Input-Out analysis — Leontif Model.

UNIT - III

Transportation Models —North West Corner method-Least Cost Method-Vogels Approximation method-Assignment Models

UNIT-IV

Decision Theory -Use of Probability — Applications -Baye's Theorem -Decision Trees

UNIT - V

Network Analysis — Construction of the Network - Critical path calculation (CPM) - Queuing Theory —Single Channel -Erhlang Model -Number of Customers— Number Waiting Line & System.

RECOMMENDED TEXT

- Hamdy A. Taha, Operations Research; An Introduction, Prentice Hall of India Private Limited, New Delhi, 2003.
- GU ta P.K. and Manmohan: Business Statistics & Operations Research, Sultan Chand &
- Sons, New Delhi.
- Vittal, P.R.: Business Statistics and Operations Research, Margham Publications Chennai

BOOKS FOR REFERENCE:

• J.K. Sharma: Operations Research: Theory and Applications, Rajiv Bein for Macmillan India Ltd, New Delhi