<table>
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<tr>
<th>S No</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Type of Course</th>
<th>Teaching Hours/Week</th>
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<td>1</td>
<td>MEC-101</td>
<td>Micro Economic Analysis – I</td>
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<td>MEC-203</td>
<td>Quantitative techniques for Economic Analysis.</td>
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<td>MEC-303</td>
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<td>16</td>
<td>MEC-401</td>
<td>Economics of Growth &amp; Development</td>
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</tbody>
</table>
Master of Arts in Economics: Syllabus

Notes:

C: Core  E: Elective  SS: Soft Skill  SO: Social Orientation

1. Soft Skill Electives:
   SS 01 - I T Skills  (Not available to MSc. I.T students.)
   SS 02 - Communication Skills  (Not available to MA English students.)
   SS 03- Management Skills  (Not available to MBA students.)

2. Social Orientation Electives:
   SO 01 - Human Rights
   SO 02 - Disaster Management
   SO 03 - Environment and sustainable Development

3. List of Electives for Elective Course I.
   MEC E01: Environmental Economics
   MEC E02: Agricultural Economics
   MEC E03: Demography

4. List of Electives for Elective Course II.
   MEC E04: Industrial Economics
   MEC E05: Economics of Infrastructure
   MEC E06: Labour Economics

5. List of Electives for Elective Course III.
   MEC E07: Econometrics
   MEC E08: Economics of Health & Education
   MEC E09: Financial Institutions & Markets

6. List of Electives for Elective Course IV.
   MEC E10: Jammu & Kashmir Economy
   MEC E11: Financial Economics
   MEC E12: Regional Economics

ELECTIVES WILL BE OFFERED SUBJECT TO THE AVAILABILITY OF FACULTY
Detailed Syllabus

SEMESTER – I

Core Courses:

MEC-101: **Micro Economic Analysis – I**

Unit – I
Elasticities of demand & their relationship, cardinal utility function – basic premises, ordinal approach, utility maximization, primacy & secondary rules, income & substitution effects – Hicks – Soutsky methods and application, ordinary & compensated demand curves, revealed preference hypothesis and its application. Hicks revision of demand theory, Logic of weak & strong ordering, Cost difference & compensatory variation methods, consumer’s surplus in relation to normal and inferior goods

Unit – II
Choices available to a profit maximizing production unit in case of limitational and substitutional factor inputs, isoquants and some common production functions, cost minimizing input choices in case of single and multi-product firms and optimal expansion path, cost function traditional and modern approaches, average marginal relationships

Unit-III
Marginal analysis as an approach to price and output determination, basic and secondary rules, perfect competition- short run & long run equilibrium of the firm and industry, monopoly equilibrium, price discrimination of first, second and third degrees, welfare aspects, monopolistic competition- general & Chamberlin approaches to group with product differentiation and selling costs

Unit –IV
Oligopoly-Non-collusive (Cournot, Bertrand, Edgeworth, Chamberlin, Kinked demand curve 7 Stackeleberg’s solution) and collusive (cartels & mergers, price leadership models, price & output under monophony & bilateral monopoly)

Unit –V
Critical evaluation of marginal analysis, Baumol’s sales revenue model with and without advertising, managerial modes of Morris and Williamson, Bain’s limit pricing theory and its recent developments including Sylos -Labini’s model, Average cost pricing

**Reading List**


*Varian, H* : *Micro Economic Analysis, East-West Press, New Delhi*

Printice Hall of India, New Delhi.*

*Baumol, W.J.* : *Economic Theory & Operations Analysis, Printice Hall, New Delhi*
Bilas, R: Modern Micro-economics, Macmillan

MEC-102: Macro-Economic Analysis – I

Unit – I
Circular flow of income in two, three & four sector economy, social accounting input-output accounting & balance of payments accounting, environmental accounting

Unit – II
Keyne’s psychological law of consumption – implications of the law, short-run and long-run consumption function, income consumption relationship- absolute income, relative income, life cycle and permanent income hypothesis

Unit – III
Marginal efficiency of investment and level of investment, marginal efficiency of capital and investment-long run and short run, the accelerator and investment behaviour, impact of inflation, influence of policy measures on investment –empirical evidence

Unit – IV
Multiplier accelerator interaction, theories of trade cycle-Keynes, Hicks, Samuelson and Kaldor, control of business cycles, relative efficacy of monetary and fiscal policies

Unit – V
Classical, Keynesian and Monetarist approaches to inflation, Structuralist Theory of inflation, Philiphs Curve, Samuelson & Solow- the natural rate of unemployment hypothesis, Tobin’s modified Philips Curve, adaptive expectations and national expectations, policies to control inflation

Reading List

Shapiro, E: Macroeconomic Analysis, Galgotia Publications, NewDelhi
Jha R: Contemporary Macro Economic Theory & Policy, Wiley Eastern Ltd. New Delhi

MEC-103: Mathematics for Economics

Unit – I
Concept of function & types of function, limit continuity and derivative, rules of differentiation, partial derivate, higher order differnetiation, Euler’s Theorem, uses of differentiation in economics, constrained optimization, Lagrangian multiplier, problems of maxima and minima in single and multi-variable functions
Unit – II
Concept of integration, simple rules of integration, definite integral, fundamental theorem of integral, properties of definite integral, economics application of integrals, consumer’s surplus and producer’s surplus, growth rates and simple properties of time path of continuous variables

Unit – III
Determinants & their basic properties, solution of simultaneous equations through Cramer’s rule, concept of matrix-their types, simple operations on matrices, matrix inversion and rank of a matrix

Unit – IV
Input-output analysis, linear programming, formulation of a linear programming, problem–its structure and variables, nature of feasible, basic and optimal solution, solution of linear programming through graphical and simplex method

Unit – V
First order differential equations –definition and concept, general formula for first order linear differential equations, exact differential equations and partial integration, rules for integrating functions, lagged income determination model, Cobweb Theorem

Reading List

Yamanae, Taro : Mathematics for Economists, Prentice Hall of India, New Delhi

MEC-104: Indian Economy

Unit – I
Indian Agriculture in the pre-independence era-land system and its changes, land tenure system and land reforms in the post-independence era, Green revolution and capital formation in agriculture, agricultural prices and PDS, impact of public expenditure on agricultural growth, trends in production and productivity of major food crops in India, sustainability of agriculture and flood security in India

Unit – II
Industrial policy in the pre-reform period, role of private and public sectors, new industrial policy, and its impact, role of FDI and MNC’s in industrial development

Unit – III
The concept of external sector and BOP, trends in composition, volume and direction of foreign trade, new trade policy, exchange rate policy

Unit – IV
Analysis of price, behaviour in India, financial sector reforms, interest rate policy, review of monetary policy of RBI, money and capital markets, working of SEBI in India

Unit – V
Rationale of internal and external reforms, globalization of Indian economy, WTO & its impact on different sectors of the economy, need for and issues in good governance

**Reading List**

- **Jalan, B**: The Indian Economy – Problems & Prospects, Viking, New Delhi
- **Brahamananda, P.R. & V.R. Panchmukhi (Eds)**: The Development Process of the Indian Economy, Himalaya Publishing House, Bombay
- **Dantwala, M.L.**: Dilemmas of Growth, The Indian Experience, Sage Publications, New Delhi
- **Misra, S.K & V.K. Puri**: Indian Economy, Himalaya Publishing House, New Delhi
- **Kabra, K.N**: Development Planning in India, Sage Publications, New Delhi
SEMESTER – II

Core Courses:

MEC-201: Micro-Economic Analysis-II

Unit – I
Neo-classical approach- marginal productivity theory, elasticity of technical substitution and factor shares, product exhaustion theorem, theories of pricing of factors in imperfect markets, determination of rent, wages, interest and profit.

Unit – II
Macro-theories of distribution-Richardo, Marx, Kalecki and Kaldor Theories

Unit – III
Classical welfare economics-major uses and limitations, pareto optimality and necessary conditions to achieve it, Hicks Kaldor criterion, Bergson-Samuelson Approach and Arrow’s Impossibility Theorem, General equilibrium

Unit – IV
Major constraints in achievements of optimum welfare perfect competition and pareto-optimality, market failures, externalities in production and consumption public goods and market failure, public goods pareto efficiency, the theory of second best

Unit – V
Individual behaviour towards risk, petersberg paradox and Bernoulli’s hypothesis, Neumann-Morgenstern method of constructing utility index under risk situation, attitude towards risk, risk averter and risk lover and gambling risk aversion and insurance, risk spreading, introduction to two person zero sum game.

Reading List

Vrian, H : Micro Economic Analysis, W.W. Norton, New Delhi
& N Bruce
Mishan, E.J : Welfare Economics : An Assessment, North Holland, Amesterdam
Borch, K.H. : The Economics of Uncertainty, Princeton University Press, Princeton
MEC-202:  **Macro-Economic Analysis-II**

Unit – I:
Financial intermediation – a mechanistic model of bank deposit determination. A behavioural model of money supply determination, a demand determined money supply process, RBI approach to money supply, high powered money & money multiplier, budget deficits & money supply; money supply and open economy; control of money supply.

Unit – II:

Unit – III:

Unit – IV:
Post – Keynesian approaches to demand for money – Patinkin and the Real Balance Effect. Approaches of Baumol & Tobin. Friedman & the modern quantity theory. Crisis in Keynesian economics and the revival for monetarism.

Unit – V:
Mundell – Fleming model – Asset markets, expectations and exchange rates; monetary approach to balance of payments.

**Reading List:**

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
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<tbody>
<tr>
<td>Gupta, S.B.</td>
<td><em>Monetary planning in India</em>, Oxford University Press, NewDelhi</td>
</tr>
<tr>
<td>Mckinen, G.E.</td>
<td><em>Money, The price level and Interest Rates</em>, Prentice Hall of India, New Delhi</td>
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<tr>
<td>Jha, R.</td>
<td><em>Contemporary Macroeconomic Theory</em>, New Age International, NewDelhi</td>
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<tr>
<td>Gordon, R &amp; S.G. Harris</td>
<td><em>Macroeconomics</em>, Addison Wesley, Massachusetts</td>
</tr>
<tr>
<td>Shapiro</td>
<td><em>Macroeconomic Analysis</em>, Galgotia Publications, NewDelhi</td>
</tr>
</tbody>
</table>
MEC-203: Quantitative techniques for Economic Analysis.

Unit – I:
Data collection methods; sampling design – criteria of selecting a sample, characteristics of a good sample design; types of sample designs; importance of measurement and scaling techniques; scaling techniques – Rating scales, differential scales, summated scales, cumulative scales and multidimensional scales.

Unit – II:
Meaning, assumptions and limitations of simple correlation and regression analysis; Pearson’s product moment and Spearman’s rank correlation and their properties. Concept of the least squares and the lines of regression (application only); methods of estimation of non-linear equations.

Unit – III:
Deterministic & Non-deterministic experiments; various types of events – classical and empirical definitions of probability. Laws of addition and multiplication. Conditional probability and concept of interdependence; Baye’s Theorem and its application; Elementary concept of random variable; probability, mass and density functions; expectations, moment and moment generating functions.

Unit – IV:
Basic concept of sampling; types of sampling; concept of and estimator & its sampling distribution. Desirable properties of an estimator; formulation of statistical hypothesis; goodness of fit – confidence intervals and levels of significance.

Unit – V:

Reading List:
CroxtonCrowden& Klein: Applied General Statistics, Prentice Hall of India, New Delhi
Nagar, A.L and R.K.Das Basic Statistics, Oxford University Press, New Delhi
Monga, G.S. Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi
MEC-204: **International Economics**

**Unit – I:**
The pure theory of international trade – theories of absolute advantage, comparative advantage and opportunity costs, modern theory of international trade; theorem of factor price equalization; Heckscher – Ohlin Theory of International Trade. Role of dynamic factors, i.e., changes in tastes, technology and factor endorsements in explaining the emergence of trade; the Rybczynksi theorem.

**Unit – II:**
Measurement of gains from trade and their distribution. Concept of terms of trade, their uses and limitations. Hypothesis of secular deterioration of terms of trade, its empirical relevance and policy implications for less developed countries. Trade as an engine of economic growth.

**Unit – III:**
The theory of interventions – tariffs, quotas and non – tariff barriers. Economic effects of tariffs & quotas on national income, output, employment, terms of trade, income distribution; Balance of payments on trading partners. The political economy of non – tariff barriers and their implications.

**Unit – IV:**
Meaning and components of balance of payments. Equilibrium and disequilibrium in the balance of payments. The process of adjustment under system of gold standard, fixes exchange rates and flexible exchange rates. Expenditure – reducing and expenditure switching policies and direct controls for adjustment. Policies for achieving internal and external equilibrium simultaneously under alternative exchange rate regimes. Foreign trade multiplier with and without foreign repercussions and determination of national income and output.

**Unit – V:**
Forms of economic cooperation; Reforms for the emergence of trading blocs at the global level; static and dynamic effects of a custom 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. Regionalism(EU, NAFTA) Multilaterism and WTO. Emerging international monetary system with special reference to post – Maastricht developments and developing countries. Reform of the international monetary system, India and developing countries.

**Reading List:**

- Bhagwati, J (Ed) *International trade, selected readings*, Cambridge University Press, Massachusetts
- Krugman, P.R. & M. Obstfeld. *International Economics*, Glenview Forseman
SEMESTER – III

Core Courses:

MEC-301: Development Economics

Unit – I

Unit – II

Unit – III
The process of cumulative causation – Myrdal, Unlimited supply of labour – Lewis model; Ranis – Fei model; Critical minimum effort thesis; Low level equilibrium trap; Kremer’s O-ring theory of economic development.

Unit – IV
Importance of agriculture and industry in economic development – the model of complementarities between agriculture and industry. Rationale and pattern of industrialization in developing countries. The choice of technology and appropriate technology infrastructure and its importance.

Unit – V
Need for investment criteria in less developed countries; present vs. future growth; Alternative investment criteria; cost – benefit analysis.

Reading List:

Adelman  Theories of Economic Growth and Development, Standard University Press, Stanford
Thirlwal, P  Growth & Development, Mcmillan, U.K
Mehrotra, S & J. Richard  Development with a Human Face, Oxford University Press, New Delhi
Myint, Hla  The Economics of Undeveloped countries, Preager, New York
MEC-302: Public Economics

Unit – I
Role of Government in organized society, changing perspective- government in a mixed economy, public and private sector, cooperation or competition, government an agent for economic planning and development, government as a tool for operationalizing the planning process, private goods, public goods and merit goods, market failure, externalities, public goods, theory of second best

Unit – II
Private and public mechanism for allocating resources, problems of allocating resources, problems of preference revelation and aggregation of preferences, voting systems, Arrow’s impossibility theorem, an economics theory of democracy politico-eco-bureaucracy, rent seeking and directly unproductive profit seeking (DuP) activities

Unit – III
Demand revealing schemes for public goods, Clark, Groves ,Leyard Method, Timeout Method, Theory of Club Goods, Failure of inter-temporal markets, uncertainty and expectations

Unit – IV
Wagner’s Law of increasing state activities, Wisman-Peacock Hypothesis, pure theory of public expenditure, criteria for public investment, social cost benefit analysis, reforms in public expenditure programme, programme budgeting ad zero base budgeting

Unit – V
Classical view of public debt, compensatory method of debt policy, burden of public debt, sources of public debt, public borrowings and price level, crowding out of private investment and activity principles of debt management

Reading List

Herber, B.P. : Modern Public Finance, Richard D. Irwin, Homewood
Premchand A : Control of Public Expenditure in India, Allied Publishers, New Delhi
Sahni, B.S. : Public Expenditure Analysis, Rotterdam University Press
Jha, R : Modern Public Economics, Routlege, London
MEC-303: Classical Political Economy

Unit – I
Predecessors of classical political economy; origin and growth of political economy Cantillon, Turgot and physiocrats. Quesnay’s Tableau economique and its significance.

Unit – II
Classical theory of value – Adam Smith, David Richard, Malthus and John Stuart Mill.

Unit – III

Unit – IV
Falling tendency of rate of profit in a growing capitalist economy views of Smith, Ricardo, Malthus and Karl Marx. The class conflict depicted by Ricardo & Marx. Significance of technology in the stabilization of capitalist growth.

Unit – V
Marxian laws of capitalist economy. The concept of surplus and its emergence. Consequences of capital accumulation. Theories of crisis. Difference between classical and Marxian Economics

Reading List:

Schumpeter, J. History of Economic Analysis, Oxford University Press, New York
Blang, M. Economics theory in Retrospect; A History of Economic thought, from Adam Smith to J.M. Keynes, Cambridge University Press, Cambridge
Schumpeter, Ten Great Economists, Oxford University Press, New Delhi
Roll, E History of Economic thought, Oxford University Press, New York
Haney, L. History of Economic thought, Faber, London
A.E. Thomson
Das Gupta, A.K Epochs of Economic Theory, Oxford University Press, New Delhi

Elective Courses:

MEC-E01: Environmental Economics

Unit – I
Welfare economics and Environment; pareto optimality and competitive equilibrium. Fundamental theorems of welfare economics; Externalities and market inefficiency. Economic activity and
environment quality – interactions and tradeoffs; Roots of environmental degradation – consumers and producers surplus. Market and government failure and environment degradation.

Unit – II
Measurements of environmental values – use values; option values and non-use values; valuation methods – methods based on observed market behaviour; hedonic property values and household production models (travel cost method and household health production function. Methods based on response to hypothetical markets, contingent valuation methods.

Unit – III

Unit – IV
Natural resource management and sustainable development – theories of optimal use of exhaustible and renewable resources; integrated environmental and economic accounting and measurement of environmentally corrected GDP policies for sustainable development.

Unit – V
Mechanism for environment regulation in India; environmental protection laws and their implementation. Micro planning for environment preservation – water sheds joint forest management and self-help groups.

Reading List:

Hanley, N.J.F Shogern & B. White  Environmental Economics in theory and practice, Mcmillan
Hussen, A.M  principles of environmental economics, Routleg, London
Kolstad, C.D  Environmental Economics, Oxford University Press, New Delhi
Sankar, U (Ed)  Environmental Economics, Oxford University Press, New Delhi
Ostrom, E.  Governing the commons; The evolution of institutions for Collective actions, Cambridge UniversityPress, Cambridge
Mahata, S, S. Mundle & U. Shanker  Controlling Pollution: Incentives and Regulation, Sage, New Delhi
Bhattacharya, R.N.  Environmental Economics: An Indian Perspective, Oxford
MEC- E02:  
Agricultural Economics

Unit – I
Role of agriculture in economic development. Theories of Schultz, Mellor, Lewis and Boserup. Inter relationship between agriculture and industry.

Unit – II
Agricultural production – Resource use efficiency; production function analysis in agriculture; factor combination and resource substitution; size of farm and laws of returns – theoretical and empirical findings. Agricultural policy in India since 1947 – institutional and technological changes; impact on production, productivity and environment.

Unit – III
Use of land, water and energy; rural transport, communication, banking, extension services, rural electrification; rural social infrastructure – education, health and information dissemination.

Unit – IV

Unit – V
Recent trends in agricultural growth in India. Inter – regional variations in growth of output and productivity; cropping pattern shifts; supply of inputs – irrigation, power, seed and fertilizers. Bio – technological practices and growth potential.

Reading List:

Bhaduri, A.  
The Economic Structure of Backward Agriculture, Macmillan, Delhi

Bilgrami, S.A.R.  
Agricultural Economics, Himalaya Publishing House, New Delhi

Dantwala, M.L  
Indian agricultural development since independence, Oxford & IBH, New Delhi

Rao, C.H.  
Agricultural growth, Rural poverty and environmental degradationin

Hamumantha  
India, Oxford University Press, New Delhi

Saini, G.R.  
Farm size, resource use efficiency & Income distributions, Allied Publishers, New Delhi

Chadha, G.K & A.N. Sharma  

Chaudry, P  
readings in Indian Agricultural Development, George Allen &Unwin, London

Soni, R.N  
Leading issues in Agricultural Economics, Arithant Press, Jalandhar
MEC- E03: **Demography**

Unit – I
Meaning & scope of demography: Components of population growth and their inter-dependence; measures of population change; structure, distribution and sources of demographic data. Theories of population growth – Malthus, optimum theory and theory of demographic transition, population & development.

Unit – II

Unit – III
Fertility – basic measures, TFR, GRR, NRR; levels, trends and determinants; Mortality – basic measures – IMR, MMR, levels, trends and determinants; life tables – construction and uses: concept of stable population projection.

Unit – IV
Migration and urbanization. Concept and types – temporary, internal and international effects on population growth and pattern; factors affecting migration & impact on distribution of rural – urban population.

Unit – V
Evolution of population policy in India – shift from population control to family welfare, to women empowerment. Impact of this shift on reproductive health, maternal nutrition and child health. Social impact of new population policy.

**Reading List:**

- Agarwala, S.N. *India’s population problem, Tata McGraw Hill, Bombay*
- Bogue, D.J. *Principles of demography, John Wiley, New York*
- Choubey, J.L *Population policy in India, Kanishka Publications, New Delhi*
- Simon, J. L *Population & Development in poor countries, Princeton University Press*
- Novell, C. *Methods and Models in Demography, Bellhaven Press, London*
- Srinivasan, K. *Basic Demographic Techniques and Application, Sage, New Delhi*
- Mishra, S. *Voluntary Action in Health and Population, Sage, New Delhi*

MEC- E04: **Industrial Economics**

Unit – I

Unit – II
Market structure – standard forms of market structure, market concentration; product differentiation; entry conditions; economics of scale; market structure and profitability of market structure; growth of the firm – main determinants.

Unit – III
Industrial policy; trends in Indian history MNC’s and transfer of technology. Process of liberalization and industrial growth. Development of cottage and small scale industries, their problems and prospects. Regional industrial growth in India.

Unit – IV
Industrial finance in India; role, nature, volume and types of institutional finance – IDBI, IFCI, SFCs, SIDC, Commercial Banks. Assessment of financial soundness.

Unit – V
Structure of industrial labour; employment dimensions of Indian industry, industrial legislation; industrial relations; Exit policy and social security. Wage policy – labour market reforms.

Reading List:

- Ahluwalia, I. J  Industrial Growth in India, Oxford University Press, New Delhi
- Barthwal, R.R  Industrial Economics, Wiley Eastern Ltd. New Delhi
- Cherumlam, F  Industrial Economics, Himalaya Publishing House, Mumbai
- Desai, B  Industrial Economy in India, Himalaya Publishing House, Mumbai
- Divine, P.J & R.M. Jones  Ltd. London
- Kuchal, S.C.  Industrial Economy of India, Chaitanya PublishingHouse, Allahabad
- Martin, S  Advanced industrial Economics, Oxford University Press, New Delhi
- Mookherjee, D  Indian industry policies and performance, Sage Publications, New Delhi

MEC- E05:  Economics of Infrastructure

Unit – I
Infrastructure and economic development – infrastructure as a public good; social and physical infrastructure; special characteristics of public utilities. The peak – load, off – load problem, dual principle controversy; economics of scale of joint supply; marginal cost pricing vs. other methods of pricing in public utilities; cross – subsidization – free prices, equity and efficiency.

Unit – II

**Unit – III**

**Unit – IV**

**Unit – V**
Social infrastructure – organization and financing of supply of social services. Private vs. public sector financing; recent debate about the fixation of pricing of social services. Development of social services in the successive Indian plans.

**Reading List:**
- Crew, M.A & P.R. Kleindorfer
- ICSSR (1976)
  - *Economics of Infrastructure Vol. VI*, New Delhi
- Parikh, K.S (Ed)
- Turvey, R (Ed)
  - *Public Enterprises*, Penguin, Harmonds Worth
- Welson, J.R.
  - *Marginal Cost Pricing in Practice*, Prentice Hall
- Kneafsey, J.T
  - *Transportation Economic Analysis*, Lexington, Toronto
- Munty, D (Ed)
  - *Transport: Selected Readings*, Penguin, Harmonds Worth
- Fairirs, M.T & R. Sampson
  - *Public Utilities*, HoughtonMifflin, Boston
- Asonofsky, J.A, Rao & M. Shakeen (Eds)
  - *Energy Policy*, North Holland, Amsterdam
- Pachauri, R.K (Ed)
  - *Energy Policy for India*, Macmillan Co of India, New Delhi
- Goyal, S.K
  - *Public Enterprises*, Indian Institute of Public Administration, New Delhi

**MEC- E06: Labour Economics**

**Unit – I**
Nature and characteristics of labour market in developing countries like India. Paradigms of labour market analysis – classical, neo-classical and dualistic economy. Demand for labour in relation to size and pattern of investment; choice of technologies and labour policies. Supply of labour in relation to growth of labour force. Mobility and productivity of labour; Rationalization, methods of recruitment and placement.

**Unit – II**
Employment and development relationship – poverty and unemployment in developing countries; unemployment – concept, types and measurement particularly in India. Impact of rationalization, technological change, modernization on employment in organized private industry, Public sector and employment in agriculture sector. Employment policy under five year plan and its assessment.

Unit – III
Classical, Neo-classical and bargaining theories of wage determination. Wage determination in various sectors – rural, urban, organized and unorganized and in informal sectors. Analysis of rigidity in labour markets; asymmetric information and efficiency of labour markets in wage determination.

Unit – IV
State & social security of labour – concept of social security and its evolution; social assistance and social insurance; appraisal of social security and labour welfare in India. Special problems of labour; child labour, female labour, discrimination and gender bias in treatment of labour. Labour market reforms. Second national commission on labour; globalization and labour markets.

Unit – V

Reading List:
- Datt, G.  Bargaining power, wages and Employment: An Analysis of Agricultural labour markets in India, Sage Publications, New Delhi
- Laster, R.A  Economics of Labour,
- McConnel C.R.  Contemporary Labour Economics, Macmillan, New York
And S.L. Brue
- Popola, Ghosh  Labour Employment and Industrial Relations in India, B.R. Publishing House, New Delhi
- A.N. Sharma (Eds)  Employment Technology and Development, Oxford University Press, New Delhi
- Sen, A.K  Employment Problems & Urban labour markets in Developing Countries, University of Michigan, Ann Arbor
- Kannapon, S.  Labour Problems & Social Welfare in India, KitabMahal, Allahabad

SEMESTER – IV

Core Courses:

MEC-401:  Economics of Growth & Development

Unit – I
Growth and Development comparison – Factors affecting growth and development; capital, labour and technology; growth models – Harrad & Domar; Neo-classical growth models – Solow & Meade, Mrs. Joan Robinson’s growth model. Cambridge criticism of neo-classical analysis of growth.

Unit – II
Master of Arts in Economics: Syllabus

Technical progress – embodied and disembodied technical progress; Hicks, Harrod; learning by doing, production function approach to determinants of growth. Growth models of Kaldor and pasinetti, optimal savings and Ramsay’s rule, golden rule of accumulation, two – sector model of Ujawa.

Unit – III
Endogenous growth – role of education, research, knowledge and infrastructure; A.K. model – explanations of cross country differentials in economic growth.

Unit – IV
International aspects of growth – international trade as engine of growth; static & dynamic gains from trade; Prebisch, Singer and Myrdal Export-led growth; Dual gap analysis; dependency theory of development & unequal exchange; balance of payments constrained growth.

Unit – V
Role of monetary and fiscal policies in developing countries. External sources – FDI, aid Vs trade, technology inflow; MNC activity in developing countries. Post-gatt international economic order; WTO and developing countries.

Reading List:

Adelman, I.  Theories of Economic growth and development, Stanford University Press
Behrman, S.  Handbook of Development Economics, Elsevier, Stanford
& T.N. Srinivasan
Myint, H.  Economic Theory & Underdeveloped Countries, Preager, New York
Hayami, Y.  Development Economics, Oxford University Press, New York
Taylor, L.  Macro Models for developing countries, McGraw Hall
Todero, M.P.  Development Planning: Models & Methods, Oxford University Press

MEC-401: Monetary Economics

Unit – I
Meaning, functions and kinds of money; components of supply of money, Measures of money supply. Features of a developed money and capital market. Functions of commercial banks and prerequisites of a sound commercial banking system. A brief review of the measures taken in India to liberalize the financial system.

Unit – II
Theories of demand for money – classical and Keynes; Money supply, the H theory of money supply, Money multiplier process, determinants of money multiplier; Keynes; income theory of money; Neo-classical theory of money.

Unit – III
Functions & growth of financial institutions in India. Functions and objectives of central bank; instruments of credit control. Objectives and limitations of monetary policy. Role of non-banking financial institutions in India – mutual funds, LIC, Investment companies, venture capital. Role of regulatory authorities – SEBI and IRDA.

Unit – IV
The structure of financial markets – call money, treasury bills and commercial bills; the stock market and market for gilt edged securities; unregulated credit markets. Financial sector reforms in India.

Unit – V
Foreign exchange; foreign exchange rate, foreign exchange market – concept of spot exchange rate and forward exchange rates; determination of exchange rates under fixed & flexible exchange rate regime and role of hedging in the determination of exchange rates; Euro-Dollar market – its role & significance.

Reading List:

Gupta, S.B  Monetary Economics, S.Chand& Company, New Delhi
Chandler, L.V.  The Economics of Money and Banking, Harper & Row, New York
& S.M. Goldfeld
Sayers, R.S.  Modern Banking, Oxford University Press, New Delhi
Smith, P.F.  Economics of Financial Institutions & Markets, Prentice Hall
Gupta, S.B.  Monetary planning for India, S. Chand & Company, New Delhi

MEC-403: Advanced Statistics & Computer Application

Unit – I

Unit – II
Deterministic & non-deterministic experiments; classical and empirical definitions of probability: conditional probability & concept of interdependence; Boye’s theorem and its applications; probability, mass and density functions; expectations, movements and moment generating functions.

Unit – III
Basic concepts of data processing – data structure and file organisations. I/O statements, types of formats – Fortan, Free, Binary, WKI etc. READ, PRINT and PUNCH statements; Double precision. Complex and logical variables; subscripted variables. Familiarity with dbase.

Unit – IV
Programming logic – plan charts & decision tables. Familiarity & usage of packages like SX & SPSS.

Unit – V

Reading List:

- Chou, Y.
- Croxton, Crowder & Klein;
- Nagar, A.L & R.K. Das;
- Kerns
- Kossaek and Honschke
- Show. S. Kuo
- Schied, F

- Applied General Statistics, Prentice Hall of India
- Basic Statistics, Oxford University Press, New Delhi
- Essentials of Microsoft Windows, Word & Excel, PHI, New Delhi
- Introduction to Statistics and Computer Programming, PHI
- Theory & Problems of Computers & Programming,
- Schaum’s Outline Services, McGraw Hill, New Delhi.

Elective Courses:

MEC- E07: Econometrics

Unit – I

Unit – II
Nature, test, consequences and remedial steps of problems of heteroscedasticity; Multicollinearity and auto-correlation; problems of specification error; errors of measurement.

Unit – III
Dummy variable technique – testing structural stability of regression models comparing to regression, interaction effects, seasonal analysis, use of dummy variables, regression with dummy dependent variables: the LPM, Logit, Probit and Tobit models – applications.

Unit – IV
Autoregressive and distributed lag models – Koyak model, Partial adjustment model, Adaptive expectations, Instrumental variables; problem of auto-correlation – application; Almon approach to distributed – lag models; Error correlation mechanism. Causality test, granger test and Sim’s test.
Unit– V
Simultaneous equation models. Introduction & examples: the simultaneous bias and inconsistency of OLS estimators; the identification problem; rules of identification – order and rank condition. Methods of estimating. Simultaneous equation system.

Reading List:
2. Baltagi, B.H;  Econometrics, Springer, New York
3. Dongherty, C;  Introduction to Econometrics, Oxford University Press, Cambridge
8. Maddala, G.S;  Econometrics, Aldershot, W.K
10. Chow, G.C;  Econometrics, MIP, New York

MEC- E08: Economics of Health & Education

Unit – I
Education – costs and benefits. Human capital verses physical capital; education as an instrument for economic growth; determinants of demand for education; costs & benefits of Education; Private and social costs. Private & social benefits. Direct and indirect benefits.

Unit – II
Educational planning and economic growth; Educational financing – resource mobilization and utilization, pricing & subsidies; Effects of education, ability, earnings, health, poverty and income distribution. Economics of education planning in developing countries with special reference to India.

Unit – III
Primary education – achievements and concerns; case for compulsory education. Financing of universal primary education; Higher education in India – changing perspective, education and earnings, household expenditure, growth of higher education.

Unit – IV
Determinants of health; economic dimensions of health care; Appraisal of health care financing; the concept of human life value; benefit – cost and cost effectiveness approaches; institutional issues in health care delivery.

Unit – V
Public health scenario in India – burden of diseases, infant and child mortality rates, maternal health infections and parasitic diseases; life style diseases, mobility and physical disability, health care expenditure.
Reading List:

Baru, R.V;  Private Health Care in India, Sage Publications, New Delhi
Blang, M; An introduction to Economics of Education, Cambridge University Press
Cohn, E and T. Gaske; Economics of Education, Pergamon Press, London
Schultz, T.W; Economic Value of Education, McGraw-Hill
Woodhall, M; Cost – benefit Analysis in Educational planning, Columbia University Press, New York
World Bank; The world Development Report, OUP, New York
Klarman, H.E; The Economics of Health, CUP, New York
Beman, P & M.E. Khan; Paying for India’s Health Care, Sage, New Delhi

MEC- E09: Financial Institutions & Markets

Unit – I

Unit – II
Structure of interest rates – level of interest rates – long period & short period rates – term structure of interest rates – spread between lending & deposit rates – administered interest rates – appropriate interest rate policy.

Unit – III
Non-bank financial intermediaries, definition and types of non-bank financial institutions. Their growth and impact on India’s economic development. Measures taken to control their operations.

Unit – IV
Role and structure of money & capital market – call money market, Treasury bill market, commercial bill market including commercial paper and certificate of deposits. Discount market – Government securities market – markets for derivatives: future and options and other derivatives; types, uses and pricing of derivatives – primary and secondary market for securities. SEBI, its impact on capital market in India; IDRA and its role in financial markets.

Unit – V
International financial markets – nature, organisation and participants – reforms in international monetary system and its impact on developing countries. Lending operation of World Bank and its affiliates – working of IDA and IFC. Growth of Regional financial institutions. Asian development bank and its lending activities. Euro-dollar and Euro-currency markets; their developmental role and regulation at the international level.

Reading List:

Bhole, L.M. Financial Institutions and Markets, TMH, New Delhi
Bhole, L.M. Indian Financial System, Chugh Publications, Allahabad
Jammu & Kashmir Economy

Unit – I

Unit – II
Land use pattern and cropping pattern in the state. Institutional & technological changes in agriculture and their impact on production, capital formation and income distribution, trends in production and productivity of major food crops in the state. Horticulture – area, production and exports.

Unit – III

Unit – IV
Tourism – inflow, revenue and development initiatives. Sectoral impact of tourism. Major impediments, steps taken to improve tourism in the state and progress achieved. Tourism potential and future prospects.

Unit – V

Reading List:

DES, digest of statistics, latest issue, Govt. of Jammu & Kashmir
DES, Indicators of Regional Development 2007 – 2008, Govt. of Jammu & Kashmir
Bhat, M. S & Poverty, Planning and Economics change in J & K, Vikas
M.L. Misri Publishing House, New Delhi
NFHS Reports PRC, Deptt. of Economics, University of Kashmir.
Khan, B.A & Economic Variability of Vegetable Production in Kashmir,
Saba Basharat Agricultural Situation in India, Ministry of Agriculture, Jan, 2006.
Khan, B.A & Effect of Land Reforms on Resource use efficiency in J & K, ASI,

MEC-E11: Financial Economics

Unit – I
Capital structuring – Cost of Capital; cost of equity, cost of debt, weighted average cost of capital, opportunity and marginal cost of capital; operating and financial leverages; capital structure – modern and traditional approaches.

Unit – II

Unit – III
Corporate Restructuring: Mergers, Acquisitions, Amalgamations, Disinvestment – Motives and Methods.

Unit – IV

Unit – V
Capital Market Theories – capital – asset pricing model, security market line, arbitrage pricing theory and multi – factor models of risk

Reading List:

Ross, Waster Field Fundamentals of Corporate Finance, Tata McGraw Hill
& Jordan
Elton & Gruber Modern Portfolio Theory and Investment Analysis, TMH
Fuller &Farrel Modern Investments & Security Analysis, McGraw Hill Book
MEC-E12: **Regional Economics**

Unit – I
Concepts – meaning and importance of regional economics; different types of a region; regional income; problems of estimation; indicators of regional development. Location of firms – one market one input case. More generalized version. Locational interdependence; Hotelling phenomena; general equilibrium; uncertainty; maximizing vs. satisficing.

Unit – II
Regional growth – Neo – Classical growth models – cumulative causation model; Center – periphery model; growth pole analysis; convergence and divergence of disparities in per capita regional income.

Unit – III
Techniques of regional analysis – regional and inter-regional input – output analysis; attraction model; Gravity model; Shift Share analysis; Impact studies.

Unit – IV
Regional policy – People prosperity versus place prosperity; formulation of inter-regional objectives; consistency between national and regional objectives; alternative regional policy measures; Historical evidence.

Unit – V
Inter – regional differentials in India’s development – Agriculture, Industry, physical infrastructure, social sector. Regional policy in India.

**Reading List:**
- **Chand, M& V.K. Puri**
  *Regional Planning in India, Allied Publishers, New Delhi*
- **Hoover, E.M.**
  *An Introduction to Regional Economics, Alfred. A. Knopf, New York*
- **Isard, W.**
  *Methods of Regional Analysis, MIT Press, Cambridge*
- **Richardson, H.W.**
  *Regional Economics, Weidenfield and Nicolson, London*
- **Dholakia, R.H.**
  *Regional Disparity in Economic Growth in India, HPH, Bombay*
- **Friedman, J & Regional Policy Readings in Theory & Application, MIT Press W. Alonso (Eds)**
- **Rao, H.**
  *Regional Disparities & Development in India, Ashish Publishing House, New Delhi*
- **Richardson, H.W.**
  *Input – Output and Regional Economics, John Wiley, New York*
- **Seth, V.K.**
  *Industrialization in India; A Spatial Perspective, Commonwealth Publishers, New Delhi*
- **Siebert, H.**
  *Regional Economic Growth; Theory & Policy, International Textbook Company, Scranton*