

**MIZORAM UNIVERSITY UNDERGRADUATE SYLLABUS  
ECONOMICS**

**Semester Wise Paper Distribution (NEP 2020)**

**NEP 2020  
Mizoram University Undergraduate Syllabus  
ECONOMICS  
I SEMESTER**

<b>Paper</b>	<b>Code</b>	<b>Credit</b>
<b><u>Disciplinary Major</u></b>		
1. Rural Development	ECO/100	4
<b><u>Disciplinary Minor</u></b>		
1. Microeconomics-II	ECO/101	4
<b><u>Multi-disciplinary</u></b>		
1. Fundamentals of Economics-I	ECO/102/MD	3
<b>ECO/100</b>	<b>RURAL DEVELOPMENT</b>	<b>Credit 4</b>

**Objective:** To help students understand the basic concepts and significance of rural development.

**Outcome:** The students will be able to understand the importance of rural development and the various determinants, policies, issues, and challenges associated with the development of the rural area.

**Unit I: Introduction**

Concepts and connotation of rural development; Basic elements of rural development; needs and importance. Rural economy of India- size and structure; the role and major problems of agricultural sector; the role of the non-agricultural sub-sector.

**Unit II : Development of Rural Economy**

Determinants of rural development: natural resources, human resources, capital, technology. Rural infrastructure: needs and importance, Problems & challenges; Concept, characteristics and functions - SHGs, Co-operatives Societies.

**Unit III : Sources and instruments of rural credit**

Meaning and types of Rural credit; Sources of Rural credit : Institutional sources – NABARD, Commercial banks, Regional Rural Banks, Cooperative Credit Societies; Non-institutional sources- role of agencies. Problems of Rural credit; concept of KCC.

**Unit IV : Models and Policies of Rural Development**

Lewi's Model of Economic development, the Gandhian Model of Rural Development. Rural development policies – need and goals of rural development policies, Rural development policies in India – MGNREGA, PMAY, NRLM.

**Suggested Readings:**

- 1) Pain, Adam, and Hansen, Kjell "Rural Development, Routledge, New York"
- 2) Das, Saurav "An introduction to Rural development Concepts and applications", Gnp Publisher
- 3) Desai, Vasant "Rural Development in India", Himalaya Publishing House Pvt Ltd.
- 4) Hussain, Tahir., Tahir, Mary., Tahir, Riya "Fundamentals of Rural Development", Dreamtech Press
- 5) Kapila, Uma "Indian Economy: Economic Development and Policy", Academic Foundation, New Delhi
- 6) Singh, Katar and Shishodia, Anil "Rural Development, Principles, Policies, and Management", Sage Publications, New Delhi
- 7) Singh, Ramesh "Indian Economy", Mc Graw Hill
- 8) Sundaram, Satya, I "Rural Development", Himalaya Publishing House Pvt Ltd.

**ECO/101**

**MICROECONOMICS – I**

**Credit 4**

**Objective:** The course introduces key concepts in Microeconomics.

**Outcome:** At the end of the course, the learners will be able to understand the basic principles underlying market mechanism-how the forces of demand and supply brings equilibrium in the market for goods and services.

**Unit I : Introduction**

Definition, nature and scope of economics; Adam Smith, Alfred Marshall, Lionel Robbins. Micro vs Macro –economics; Methodology in economics; Basic economic problems; Concept of price mechanism.

**Unit II : Theory of Demand and Supply**

Demand and supply-concept and determinants; Laws of demand and supply; shifts of demand versus movements along a demand curve, market demand, shifts of supply versus movements along a supply curve; Concept and measurement of Elasticity of Demand-Price, Income and Cross.

### **Unit III : Consumer Behavior**

Utility – Cardinal and Ordinal approaches and their assumptions; Concept of diminishing marginal utility ; Concept of Law of Equi-Marginal Utility; Theory of Diamond-water paradox; Indifference Curves- concept, properties and equilibrium; Budget line; Decomposition of Price Effect (Hicks and Slutsky's methods); Engel's curve. Consumer's surplus.

### **Unit IV : Theory of Production and Costs**

Production function; Isoquants-concept and properties; Iso-cost Line - Producer's Equilibrium; Law of variable proportion and Law of returns to scale - Economies and diseconomies of scale. Concept of Expansion path; Different concepts of cost and their inter-relation; Producer surplus; concept of opportunity cost

### **Suggested Readings:**

- 1) Samuelson, Paul.A & Nordhaus, William.D: Economics, Tata McGraw Hill.
- 2) Koutsoyiannis, A Modern Microeconomics, Macmillan
- 3) Stonier A.W. and D.C. Haque A Textbook of Economic Theory, ELBS & Longman Group, London
- 4) Varian, H.R Intermediate Microeconomics: A Modern Approach (5th ed.) EastWest Press New Delhi
- 5) Dewett K.K, Modern Economic Theory, S. Chand Publication, New Delhi
- 6) Dwivedi, D.N :Microeconomics-Theory & Applications, Pearson.
- 7) Ray, N.C An introduction to Micro economics, Macmillan India Ltd. Delhi
- 8) Ahuja ,H.L: Advanced Economic Theory, S.Chand & Company
- 9) Gauld, J.P and Edward P.L Microeconomic theory, Richard Irwin, Homewood
- 10) Healthfield and Wibe. An Introduction to Cost and Production Functions, Macmillan, London
- 11) Lipsey R.G and K.A Chrystal Principles of Economics (9th edition) Oxford University Press, Oxford. 12) Salvatore, Dominic: Principles of Microeconomics, Oxford University Press Publications, New Delhi.
- 13) Pindyck, R., Rubinfeld,

**ECO/102/MD**

**FUNDAMENTALS OF ECONOMICS-I**

**Credit 3**

**Objective:** To impart basic understanding of economics.

**Outcome:** The course will enable students to understand basic problems and concepts of economics.

### **Unit I : Microeconomics**

- a) Definition – Adam Smith & Lionel Robbins.
- b) Basic economics problems
- c) Concept & Law - demand & supply

### **Unit II: Macroeconomics**

- a) Concept and Measurement of NI in India
- b) Budget – Meaning & kinds; Preparation & procedure of passing of Budget in India
- c) Public Revenue and Public Expenditure

### **Unit III: Indian Economy**

- a) Characteristics of Indian Economy
- b) Population- size, growth rate, sex ratio.
- c) Concept of Economic Growth and Development
- d) Economic Reforms

### **Suggested Readings:**

- 1) Ahuja ,H.L: Advanced Economic Theory, S.Chand & Company
- 2) Dwivedi,D.N: Microeconomics-Theory & Applications, Pearson.
- 3) Dewett K.K, Modern Economic Theory, S. Chand Publication, New Delhi
- 4) Ackley, G, Macroeconomics, Theory and Policy, Macmillan Publishing Company NY.
- 5) Shapiro E. Macro Economic Analysis, Galgotia Publications, New Delhi
- 6) Dwivedi D N (Latest edition) Macroeconomics, Tata McGraw Hill Publications.
- 7) Datt R and K.P.M Sundharm (Latest edition), Indian Economy, S.Chand and Company Ltd. New Delhi
- 8) Dinghra I.C The Indian Economy; Environment and Policy; Sultan Chand & Sons, New Delhi
- 9) Dutt R.C The Economic History of India under early British Rule, Low Price Publication Delhi

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**ECONOMICS**

**II SEMESTER**

**Paper**

**Code**

**Credit**

### **Disciplinary Major**

1. Financial Institutions and Markets	ECO/103	4
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### **Disciplinary Minor**

1. Microeconomics-II	ECO/104	4
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### **Multi-disciplinary**

1. Fundamentals of Economics-II	ECO/105/MD	3
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### **ECO/103 FINANCIAL INSTITUTIONS AND MARKETS 4 Credits**

**Objective:** To introduce basic concepts in financial institutions and markets

**Outcome:** At the end of the course, the learner will be able to understand working and performance of various segments of financial sector

#### **Unit I : Indian Banking System**

Origin and evolution of banking in India; Central Bank-Functions and objectives, Instruments of Credit Control- quantitative and qualitative methods. Development and regulatory role of RBI; Monetary policy- meaning, objectives and its importance for economic development Current Monetary policy of India.

#### **Unit II : Money and Commercial Banking**

Meaning, functions and kinds of money. Commercial banks-meaning, functions, process of Credit Creation; Types of deposits-Savings, Current, Fixed and Recurring Deposits; Banking Documents and Modern Banking Services-Concepts of Cheque, Pass book, Demand draft, Credit and Debit card, Internet Banking, Mobile banking. Concept Digital Currency

#### **Unit III: Co-operative and Development Banks in India**

Meaning, objectives, role and structure of Co-operative banks in India; Development Banks in India-meaning, objectives, role and structure of - SIDBI, IDBI, EXIM BANK, NABARD, National Housing Bank

#### **Unit IV : Financial Markets**

Meaning and structure of financial markets; Money market and Capital Market- Primary and Secondary market; Money Market instruments- Call Money, Treasury Bill, Commercial Papers, Commercial Bills, Trade Bills; Capital Market Instruments - Debentures, Shares, Bonds, Equity; Stock Market -Functions and Workings of major stock exchanges in India; Functions of SEBI. Concept of Euro dollar market.

#### **Suggested Readings:**

1) Bhole, LM & Mahakud, J. Financial Institutions and Market. Tata McGraw Hill

- 2) Gupta, S.B Monetary Economics, Institutions, Theory and Policy. S.Chand & Co.New Delhi
- 3) Grapple J.O. International Financial Markets – Elsevire, New York
- 4) Mithani, DM - Money, Banking, International Trade and Public Finance. Himalaya Publishing House.
- 5) Pathak, Bharati V. The Indian Financial System: Markets, Institutions and Services. Pearson Education.
- 6) Rangarajan, C Indian Economics; Essays on Money and Finance; UBS Publishers, New Delhi
- 7) RBI, Report of the Committee on Financial Companie

**ECO/104**

**MICROECONOMICS – II**

**Credit 4**

**Objective:** The course will familiarize students with basic concepts of microeconomics and its application.

**Outcome:** The learners will understand how factor market works and the basic tools in welfare economics and trade theories.

**Unit I : Market structure-I**

Meaning of market; Market equilibrium; Perfect market and imperfect market; Meaning, Features and equilibrium (short run and long run) under Perfect competition and monopoly; shut-down points; concept of zero profit; Price Discrimination- Concepts, types, degrees and profitability; Concept of controlled and administered prices.

**Unit II : Market structure-II**

Meaning, features and equilibrium (short run and long run) under Monopolistic Competition ; Oligopoly-meaning, features and equilibrium using kinked demand curve; Duopoly- Meaning features and equilibrium ; Monopsony and Bi-lateral monopoly.

**Unit III : Factor Pricing and markets**

Marginal Productivity theory of distribution; Theories of wage determination; Concept of rent – Scarcity, Differential and Quasi; Interest – Classical and Keynesian Theories; Profit – Innovation, risk and uncertainty theories ; Factor Market – Meaning, Factor-market equilibrium.

**Unit IV : Welfare Economics**

Concept of Welfare Economics; Classical welfare economics; Pareto’s criteria; Value judgment; Compensation principle–Kaldor- Hicks.Concept of Social welfare function.

**Suggested Readings:**

- 1) Samuelson,Paul.A& Nordhaus, William.D: Economics,Tata McGrawHill.
- Koutsoyiannis, A: Modern Microeconomics, Macmillan
- 2) Stonier A.W. and D.C. Haque A Textbook of Economic Theory, ELBS & Longman Group, London
- 3) Varian, H.R Intermediate Microeconomics: A Modern Approach (5th ed.) EastWestPress New Delhi
- 4) Dewett K.K, Modern Economic Theory, S. Chand Publication, New Delhi
- 5) Dwivedi,D.N : Microeconomics-Theory & Applications, Pearson.
- 6) Ray, N.C An introduction to Micro economics, Macmillan India Ltd. Delhi
- 7) Ahuja ,H.L: Advanced Economic Theory, S.Chand & Company
- 8) Gauld, J.P and Edward P.L Microeconomic theory, Richard Irwin, Homewood
- 9) Healthfield and Wibe. An Introduction to Cost and Production Functions, Macmillan, London

- 10) Lipsey R.G and K.A Chrystal Principles of Economics OxfordUniversity Press, Oxford.
- 11) Salvatore, Dominic: Principles of Microeconomics, Oxford University Press Publications, New Delhi.
- 12) Pindyck, R., Rubinfeld, S., Daniel, L., & Prem L. Mehta., Microeconomics, Pearson Education India

**ECO/105/MD**

**FUNDAMENTALS OF ECONOMICS-II**

**Credit 3**

**Objective:** To impart basic understanding of economics.

**Outcome:** The course will enable students to understand basic problems and concepts of economics.

**Unit I : Microeconomics**

- a) Definition – Adam Smith & Lionel Robbins.
- b) Basic economics problems
- c) Concept & Law - demand & supply

**Unit II: Macroeconomics**

- a) Concept and Measurement of NI in India
- b) Budget – Meaning & kinds; Preparation & procedure of passing of Budget in India
- c) Public Revenue and Public Expenditure

**Unit III: Indian Economy**

- a) Characteristics of Indian Economy
- b) Population- size, growth rate, sex ratio.
- c) Concept of Economic Growth and Development d) Economic Reforms

**Suggested Readings:**

- 1) Ahuja ,H.L : Advanced Economic Theory, S.Chand & Company
- 2) Dwivedi,D.N : Microeconomics-Theory & Applications, Pearson.
- 3) Dewett K.K, Modern Economic Theory, S. Chand Publication, New Delhi
- 4) Ackley, G, Macroeconomics, Theory and Policy, Macmillan Publishing Company NY.
- 5) Shapiro E. Macro Economic Analysis, Galgotia Publications, New Delhi
- 6) Dwivedi D N Macroeconomics, Tata McGraw Hill Publications.
- 7) Datt R and K.P.M Sundharm, Indian Economy, S.Chand and CompanyLtd. New Delhi
- 8) Dinghra I.C The Indian Economy; Environment and Policy; Sultan Chand & Sons, New Delhi
- 9) Dutt R.C The Economic History of India under early British Rule, Low Price Publication Delhi

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**ECONOMICS**

**III SEMESTER**

<b>Paper</b>	<b>Code</b>	<b>Credit</b>
<b><u>Disciplinary Major</u></b>		
1. Environmental Economics	ECO/200	4
<b><u>Disciplinary Minor</u></b>		
1. Macroeconomics-I	ECO/204	4
<b><u>Multi-disciplinary</u></b>		
1. Fundamentals of Economics-III	ECO/202/MD	3

**ECO/200 ENVIRONMENTAL ECONOMICS Credit 4**

**Objective :** The course aims to provide fundamental concepts in environmental economics

**Outcome :** At the end of the course, the learners will be able to understand economy-environmental linkages

**Unit I : Introduction to Environmental Economics**

Economy and environment inter-linkages; Pareto Optimality and Market Failures; Problem of externalities; Public Goods and public bads ; Tragedy of Commons; Common property resources; Coase Theorem; Meaning and Objectives of Sustainable Development.

**Unit II : Development and Environment**

Environment and Development; Environmental Kuznets's Curve; Population, Poverty and Environment; Degradation of Environment; Environmental Impact Assessment; Sustainable Development Goals

**Unit III : Pollution Control**



Types of pollution: Air, water and noise; Prevention and Control of Pollution in India; Soil degradation - causes, effects and controlling measures; Main features of Water (Prevention and Control of Pollution) Act 1974 and Forest Conservation Act, 1980; Central Pollution Control Board and State Pollution Control Board.

#### **Unit IV : Global Environmental Issues**

Green House effect, ozone layer depletion, Green Audit; International attempts to protect the environment - Movements, Laws, Agreements; Rio Declaration and Kyoto Protocol; World Bank and the environment - Polluter pays principle; Energy Security-concept.

#### **Suggested Readings:**

- 1) Singh, Katar and Shishodia, Anil Environmental Economics -Theory and Practice, Sage Publications, New Delhi.
- 2) Jhingan, M. L. & Sharma, C. K. Environmental Economics: Theory, Management and Policy
- 3) Bhattacharya, R.N. (Ed), Environmental Economics: An Indian Perspective,Oxford University Press, New Delhi.
- 4) Hanley, Shogren & White, Environmental Economics in Theory and Practice, Macmillan India limited, Delhi.

**ECO/201**

**MACROECONOMICS – I**

**Credit 4**

**Objective:** Explain the process of calculating national income and its components, its fluctuations and the various theories behind consumption, investment and other business cycles

**Outcome:** At the end of the course, the learner will be able to assess the workings of the economy and the role of investment and money.

#### **Unit I : National Income and Social Accounts**

Concepts and measurement of National Income; Circular flow of income with closed and open economy; National income identities with government; Concept of Green Accountings.

#### **Unit II : Output and Employment**

Say's law of markets and the Classical theory of employment; Aggregate demand and aggregate supply functions; The principle of effective demand and income determination.

#### **Unit III : Consumption Function**

Meaning of Consumption function; Average and Marginal propensity to consume; Factors influencing consumption spending; the income multiplier; Keynesian theory of absolute income; Duesenberry's relative income hypothesis; Life Cycle Hypothesis

#### **Unit IV : Investment and Saving**

Equilibrium between investment and saving; Investment Multiplier and its effectiveness in LDCs; Autonomous and induced investment; Marginal Efficiency of Capital (MEC), Marginal Efficiency of Investment (MEI) ; Concept of present discounted value; Savings and Investment – ex-post and ex-ante equality and equilibrium.

#### **Suggested Readings:**

- 1) Ackley, G , Macroeconomics, Theory and Policy, Macmillan Publishing Company NY.
- 2) Day A.C.L, Outline of Monetary Economics; Oxford University Press, Oxford
- 3) Gupta, S.B Monetary Economics, S.Chand and Co. Delhi
- 4) Hejdra, B.J and F.V Ploeg, Foundation of Modern Macroeconomics, Oxford University Press, Oxford
- 5) Lucas R. Studies in Business Cycle Theory, MIT Press, Cambridge
- 6) Shapiro E. Macro Economic Analysis, Galgotia Publications, New Delhi
- 7) Dwivedi D N Macroeconomics, Tata McGraw Hill Publications.
- 8) Mithani D M Money, Banking, International Trade and Public Finance, Himalaya Publishing House. Note : Learners are advised to use latest edition of text

**ECO/202/MD                      FUNDAMENTALS OF ECONOMICS-III                      Credit 3**

**Objective:** To impart basic understanding of economics.

**Outcome:** The course will enable students to understand basic problems and concepts of economics.

**Unit I : Microeconomics**

- a) Definition – Adam Smith & Lionel Robbins.
- b) Basic economics problems
- c) Concept & Law - demand & supply

**Unit II: Macroeconomics**

- a) Concept and Measurement of NI in India
- b) Budget – Meaning & kinds; Preparation & procedure of passing of Budget in India
- c) Public Revenue and Public Expenditure

**Unit III: Indian Economy**

- a) Characteristics of Indian Economy
- b) Population- size, growth rate, sex ratio.
- c) Concept of Economic Growth and Development
- d) Economic Reforms

**Suggested Readings:**

- 1) Ahuja ,H.L: Advanced Economic Theory, S.Chand & Company
- 2) Dwivedi,D.N Microeconomics-Theory & Applications, Pearson.
- 3) Dewett K.K, Modern Economic Theory, S. Chand Publication, New Delhi
- 4) Ackley, G , Macroeconomics, Theory and Policy, Macmillan Publishing Company NY.
- 5) Shapiro E. Macro Economic Analysis, Galgotia Publications, New Delhi
- 6) Dwivedi D N Macroeconomics, Tata McGraw Hill Publications.
- 7) Datt R and K.P.M Sundharm, Indian Economy, S.Chand and CompanyLtd. New Delhi
- 8) Dinghra I.C The Indian Economy; Environment and Policy; Sultan Chand & Sons, New Delhi
- 9) Dutt R.C The Economic History of India under early British Rule, Low Price Publication Delhi

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**ECONOMICS**

**IV SEMESTER**

<b>Paper</b>	<b>Code</b>	<b>Credit</b>
<b><u>Disciplinary Major</u></b>		
1. Public Finance	ECO/203	4
<b><u>Disciplinary Minor</u></b>		
1. Macroeconomics-II	ECO/204	4

**ECO/203 PUBLIC FINANCE Credit 4**

**Objective:** To introduce the role of fiscal policy in economic stabilisation, distribution and development

**Outcome:** The learner, at the end of the course, will be able to follow the role and significance of public expenditure, taxation and public debt in the economy

**Unit I : Nature and Scope of Public Finance**

Meaning and scope of public finance; Distinction between private and public finance; Public goods vs. private goods; The principle of maximum social advantage; Market failure and Role of the government.

**Unit II : Public Revenue**

Sources of Public Revenue - Tax and Non-tax revenue; Meaning, Canons and classification of taxes; Division of tax burden – The benefit and ability-to-pay approaches; Impact and incidence of taxes; Taxable capacity; Effects of taxation; Dead weight loss characteristics of a good tax system.

**Unit III : Public Expenditure and Public Debt**

Meaning, classification and principle of public expenditure; Canons and effects of public expenditure; Causes of growth of public expenditure in recent year; Sources of public borrowing; effects of public debt; methods of debt redemption.

**Unit IV : Fiscal Policy and Financial Administration**

Role of Fiscal policy in Developed and Developing countries; Budget Structure – Union and State Budget; Kinds of budget – Balanced, Surplus and Deficit budgets;

Zero-based Budgeting; Economic and Functional Classification of Budget; Role of Finance Commission in India.

**Suggested Readings:**

- 1) Musgrave, R.A and P.B Musgrave, Public finance in Theory and Practice, Mc GrawHill, Kogakusha, Tokyo.
- 2) Musgrave R.A The Theory of Public Finance, Mc Graw Hill, Kogakusha, Tokyo
- 3) Browning E.K; J.M Bowning: Public Finance and the Price System : Pearson Publication (Singapore) Pvt. Ltd; Indian Branch, Potperganj Delhi
- 4) Houghton, E.W (Ed), Public finance, Penguin, Baltimore
- 5) Bhargava, R.N The theory and working of Union Finance in India, Chaitanya Publishing House, Allahabad
- 6) Jha. R., Modern Public Economics, Routledge, London.
- 7) Mithani D.M Modern Public Finance, Himalaya Publishing House, Mumbai
- 8) Prakash OM Public Economics (Theory and Practice), Vishal Publishing Co. Jalendhar 9) RBI, Report on Currency and Finance (Annual) Mumbai.
- 10) HL Bhatia, Public Finance: Vikash Publishing House, New Delhi

**ECO/204**

**MACROECONOMICS – II**

**Credit 4**

**Objective:** To explain the role of money and banking in the economy

**Outcome:** At the end of the course, the learner will be able to understand fluctuations in the economy and models of economic growth.

**Unit I : Money**

Meaning and functions of money; High-powered money; Gresham's law; Monetary standards, metallic and paper systems; Quantity Theory of Money, Classical and Cambridge versions, Keynesian approach; The IS-LM Model: meaning, characteristics and limitations.

**Unit II : Banking**

Central Bank- Role & Function, Monetary Policy. Commercial Bank- Meaning, types and functions; Process of credit creation by banks; Instruments of credit control by Central Bank.

**Unit III : Trade Cycles**

Meaning, nature and characteristics of trade cycle; Hawtrey's monetary theory; Hayek's overinvestment theory; Keynes' view on trade cycle- concept of accelerator; Control of trade cycles.

**Unit IV : Inflation**

Meaning of Inflation, Deflation, Reflation and Stagflation; Demand-pull inflation and Cost-push inflation; Causes and effects of inflation; Measures to control inflation; Philip's curve.

**Basic Readings:**

- 1) Ackley, G, Macroeconomics, Theory and Policy, Macmillan Publishing Company, NY.

- 2) Day, A.C.L Outline of Monetary Economics; Oxford University Press, Oxford
- 3) Shapiro E. Macroeconomic Analysis, Galgotia Publications, New Delhi
- 4) Gupta, S.B Monetary Economics, S.Chand and Co. Delhi
- 5) Mankiw, N.G Principles of Macroeconomics; Cengage Learning IndiaPvt.Ltd
- 6) Lucas R. Studies in Business Cycle Theory, MIT Press, Cambridge
- 7) Dwivedi, D.N Macroeconomics, Tata McGraw Hill Publications.
- 8) Mithani, D.M Money, Banking, International Trade and Public Finance, Himalaya Publishing House.

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**V SEMESTER**

<b>Paper</b>	<b>Code</b>	<b>Credit</b>
<b><u>Disciplinary Major</u></b>		
1. Quantitative Techniques-I	ECO/300	4
2. Optional (Any one)		
A. Agriculture economics	ECO/301	4
B. Industrial Economics	ECO/302	4
<b><u>Disciplinary Minor</u></b>		
1. Indian Economy	ECO/303	4

**ECO/300**                      **QUANTITATIVE TECHNIQUES – I**                      **Credit 4**  
**Objective:** To provides basic mathematical tools for economics analysis

**Outcome:** Interpret and analyse economics data using mathematical tools

**Unit I: Basic concepts and Linear Programming**

Sets and set operations; Types of functions- constant, polynomial, rational, exponential, logarithmic. Concept of Linear Programming Problems; solution of LPP by graphical method.

**Unit II: Differential Calculus**

Rules of differentiation; Maxima and Minima; Partial derivatives; Economics applications of simple differentiation- Profit maximisation, cost minimisation, Interrelationships among total, marginal and average costs and revenues.

**Unit III: Integral Calculus**

Simple rules of integration; Definite integral; Application of integrations- Consumer's surplus and Producer's surplus, total revenue and total cost.

**Unit -4: Matrices and its Operations.**

Concept, types, matrix algebra, transposes of a matrix, inverse of a matrix, rank of a matrix. Determinants and its properties. Solution of system of linear equations by Cramer's rule and Matrix Inversion Method

**Suggested Readings:**

- 1) Allen R.G.D: Mathematical analysis for economist, Mc Millan Press , London
- 2) Chiang AC: Fundamental methods of economics, Mc Graw Hill, New Delhi
- 3) Mehta, B.C and Madnani GM: Mathematics for economist, Sultan Chand & Sons, New Delhi
- 4) Renshaw, Geoff: Maths for economics: Oxford University Press.
- 5) Monga GS: Mathematics and Statistics for Economics, Vikas Publishing House, New Delhi.

**ECO/301**

**AGRICULTURE ECONOMICS**

**Credit 4**

**Objective:** To explain the role and performance of agriculture in the development process

**Outcome:** At the end of the course, learner will be able to understand the role of agrarian relations, land reforms, and technological change in agriculture development.

**Unit I : Development of Agriculture and Rural Economy of India**

Role and importance of Agriculture in economic development: Linkages between Agricultural and non-agricultural sectors; Composition of Indian rural economy- Farm sector, Non-Farm sector. Agriculture and Allied activities- Fisheries, Horticulture, Floriculture, Forestry -its Growth and Problems; Rural Industrialization- Food Processing and Agro-based industries, Problems and Challenges of rural infrastructure.

**Unit II : Agrarian relations and Land reforms in India.**

Agrarian relations- Evolution of Land Reforms in India- during 1950's,1960's and 1970'S onwards; Land utilization, cropping pattern and irrigation; Trends in agricultural development and its productivity; Regional variation in agriculture development.

**Unit III : Technological Change in Agriculture**

Technological change in agriculture, Traditional techniques and practices; Green Revolution HYV Seeds, Fertilizers, Mechanization of agriculture; Agriculture and Sustainable development-Emerging trends in agricultural technology, Dry Land

Farming, Use of Biotechnology in agriculture; Organic Farming- meaning, importance and challenges.

#### **Unit IV : Globalization and Agriculture Development.**

Overview of Indian Agriculture Development – Major causes of low productivity; Agricultural marketing-Prospects and Challenges, Remedial measures; Globalization of Indian Economy and its effects on Indian agriculture.

#### **Suggested Readings:**

- 1) Bilgrami, S A R An Introduction to Agricultural Economics, Himalaya Publishing House, Mumbai.
- 2) Sadhu, A.N and J. Singh Agricultural Problems in India Himalaya Publishing House, Mumbai
- 3) Sundaram I.S Rural Development Himalaya Publishing House, Mumbai
- 4) Sani R.N Leading Issues in Agricultural Economics, Arihant Press, Jalandar

**ECO/302**

**INDUSTRIAL ECONOMICS**

**Credit 4**

**Objective:** To explain basic concepts and issues in industrial economics

**Outcome:** The learners will be able to understand the role in industrial sectors in the economy

#### **Unit I : Introduction**

Industry and economic development; Industry and sectoral linkages; Industrial classification and data information.

#### **Unit II : Industrial Organization and Ownership**

Structure Public, private, joint and cooperative sectors; Private corporate sector; MNC and their role; Industrial concentration and monopoly.

#### **Unit III : Location and Dispersion**

Locations of industries – Theories of location; Diversification; Integration and merger of industrial units; Dispersion and problem of regional imbalance.

#### **Unit IV: Industrial Financing and Productivity**

Mode of financing – equity and debt; Institutional Finance; Bank finance ; Concept and measurement of productivity; industrial sickness; Under-utilization of capacity – factors accounting for it and consequences.

#### **Suggested Readings:**

- 1) Devine, P.J et al An introduction to Industrial Economics, (3rd edition) George Allen and Unwin London.
- 2) Clarkson K.W. and R. Miller Industrial organization : Theory, Evidence and Public Policy, Mc Graw Hill, Kogakusha, Tokyo
- 3) Aluwalia, I.J Industrial Growth in India, Oxford University Press, New Delhi
- 4) Government of India, Economic Survey (Annual) New Delhi
- 5) Mamoria and Mamoria, Dynamics of Industrial Relation in India Himalaya Publishing House, Mumbai.
- 6) Barthwal R.R Industrial Economics An Introductory Textbook New Age International Publishers Pvt. Ltd.

**ECO/303**

**INDIAN ECONOMY**

**Credit 4**

**Objective:** To introduce the basic features of Indian economy

**Outcome:** At the end of the course, the learner will understand the performance of Indian economy

**Unit I : Structure of Indian Economy and Population.**

Basic features of Indian economy; Broad demographic features, problems of over-population; Population Policy; Problems of poverty, Unemployment, Inflation and Income Inequality.

**Unit II : Planning and Economic Reforms**

Formation of Planning and Five-Year Plans in India; New Economic Policy (1991)- Liberalization, Privatization and Globalisation, Impact of LPG ; Objectives and achievements of economic Planning in India; Composition and Role of NITI Aayog. New Industrial Policy of 1991 and recent changes; Roles and contribution of Micro, Small & Medium Enterprises.

**Unit III : Agriculture**

Causes of low productivity in Indian agriculture; Land reforms in India –Needs, objectives, measures and achievement; Green Revolution. Sources of agricultural finance – institutional and non-institutional; Problems of agricultural marketing in India; Concept of MSP and subsidy; Food security and PDS

**Unit IV : Regional Economy**

Basic features of Mizoram Economy – Agriculture, industry and service sectors; Finances – Source of revenue, growth of public expenditure and debt; Rural development.

**Suggested Readings:**

- 1) Datt R and K.P.M Sundharm, Indian Economy, S.Chand and CompanyLtd. New Delhi
- 2) Dinghra I.C The Indian Economy; Environment and Policy; Sultan Chand & SonsNew Delhi
- 3) Dutt R.C The Economic History of India under early British Rule, Low Price Publication Delhi
- 4) Misra, S.K and V.K Puri Indian Economy – Its Development Experience, Himalaya Publishing House, Mumbai
- 5) Ahuwalia, I.J and IMD Little (Eds) India's Economic Reforms and Development, Oxford University Press, New Delhi.
- 6) Mizoram Economic Survey



## Mizoram University Undergraduate Syllabus

### ECONOMICS

#### VI SEMESTER

Paper	Code	Credit
<b><u>Disciplinary Major</u></b>		
1. Quantitative Techniques-II	ECO/304	4
2. International Trade	ECO/305	4
3. Optional (Any one)		
A. Demography	ECO/306	4
B. History of Economics Thought	ECO/307	4
<b><u>Disciplinary Minor</u></b>		
1. Economics of Growth and Development	ECO/308	4

#### **ECO/304                      QUANTITATIVE TECHNIQUES – II                      Credit 4**

**Objective:** Introduce quantitative methods in economics analysis

**Outcome:** Define and understand applications of quantitative methods

##### **Unit I : Introduction, Central Tendency and Dispersion**

Methods of data collection- sampling vs census, primary and secondary data. Measures of central tendency: mean, median, mode, geometric mean and harmonic mean. Measures of dispersion: range, mean deviation, standard deviation, coefficient of variation, skewness and kurtosis.

##### **Unit II: Probability and Distribution**

Concept of probability- Classical, Empirical and Modern; Basic theorems of probability addition and multiplication. Theoretical distribution - binomial, poisson and normal distribution.

##### **Unit III : Correlation and Regression**

Correlations: Karl Pearson and Rank Correlation. Concept of partial and multiple correlation. Regression analysis: estimation of simple regression line by OLS, interpretation of regression coefficients, concept of coefficient of determination.

#### **Unit IV: Time series and Index Number**

Time series analysis-Concept and components, determination of trend, seasonal and cyclical indices; Index numbers - Concept, price-relative, quantitative relative, Laspeyre's, Paasche's and Fisher's Indices. Problems in the construction and limitations of index numbers. Tests for ideal index number.

#### **Suggested Readings:**

1. Gupta SC & Kapoor VK Fundamentals of Mathematical Statistics, SChand & Sons, New Delhi.
2. Gupta, SP Statistical Methods, S Chand & Sons, New Delhi.
3. Goon, Gupta, Dasgupta Fundamentals of Statistics-I, The World Press Private Ltd, Kolkata.
4. Nagar, A.L. and Das R.K., Basic Statistics, Oxford University Press

**ECO/305**

### **INTERNATIONAL TRADE**

**Credit 4**

**Objective:** To explain theories of trade and gains from trade and role of protection and the pattern of India's trade.

**Outcome:** Be able to understand impacts of protection in trade and liberalization of trade measures.

#### **Unit I: Importance of Trade and Trade Theories**

Importance of the study of international trade; The Classical Theories of International Trade - Adam Smith, David Ricardo; Mill's Reciprocal Demand Analysis; Terms of Trade-meaning, types and determinants. Concept of Inter-regional and international trade;

#### **Unit II: Modern theory and the Gains from Trade**

Heckscher-Ohlin theory of International Trade – its main features, assumptions and limitations. The Leontief Paradox; Gains from Trade-Meaning, Types and measurement–J.S.Mills and Modern Approach. Concept of Actual gains and potential gains from trade.

#### **Unit III: Balance of Payments, Tariffs and Quotas**

Balance of Payments -Concepts and components, causes of BOP disequilibrium in India; Measures to correct deficit in the balance of payment; Tariffs –meaning and types; Theory of Optimum Tariff ; Quota-Meaning & types; Concept of –devaluation, Purchasing Power Parity Theory, fix and flexible exchange rate.

#### **Unit IV: Foreign Trade in India and International Financial Institutions**

Composition and Direction of India's foreign trade: India's Foreign Trade Policy ( 2023-28 onwards) WTO- agreements under WTO, TRIMS,TRIPS, AoA ; Concept-IMF, World Bank, ADB&GATT.

#### **Suggested Readings:**

- 1) Mithani,D.M, Money,banking, International Trade and Public Finance, Himalaya Publishing House.
- 2) Soderstein,Bo International economics, Macmillan Press Ltd, London
- 3) Kindleberger, C.P. International Economics, R.D. Irwin, Home Wood.
- 4) Krugman, P.R. and M. Obstfeld International Economics -Theory and policy, Glenview, Foresman.
- 5) Patel S.J. Indian Economy Towards the 21st Century, University Press Ltd, India.

- 6) Salvatore, D.L. International Economics, Prentice-Hall, Upper Saddle River, N. J.
- 7) Kennan, P.B, The International Economy, Cambridge University Press London.
- 8) Agarwal, Babita Antarrastriya Arthshastra, Omega Publications.
- 9) Bhatia, H.L International Economics, Vikash Publishing House.
- 10) Field, Alfred.J & Appleyard, Dennis.R International Economics, McGraw Hill
- 11) Education.
- 12) Krugman, Paul.R & Obstfeld, Maurice International Economics, Pearson.
- 13) Salvatore, Dominick International Economics: Trade & Finance, Wiley Publishers.
- 14) Vaishya, M.C. & Singh, Sudama International Economics, Oxford & IBH Publishing House, Delhi

**ECO/306**

**DEMOGRAPHY**

**Credit 4**

**Objective:** Introduce key concepts/theories and provide basic techniques of analysis in demography.

**Outcome:** Understand vital demographic statistics.

**Unit I : Introduction**

Population study and demography: Its relation with other disciplines; Theories of Population Malthus, Optimum theory of population, and theory of demographic transition.

**Unit II : Sources of Demographic Data in India**

Sources of Demographic data in India: Census-Civil registration system and demographic surveys; Salient features of population census since independence, features of National Family Health Survey 5.

**Unit III : Techniques of Analysis**

Crude birth and death rates, age specific birth and death rates, standardized birth and death rates. Study of Fertility: Total fertility rate, gross reproduction rate and net reproduction rate.

**Unit IV : Population Projection & Policy**

Population projection in India; concept of stationary, stable and quasi-stationary population. Aging of population in India. Population Policy in India; Women empowerment and its relation to Population control.

**Suggested Readings:**

- 1) Bogul, D.J. Principles of Demography; John Wiley, New York.
- 2) Agarwal U.D Population Projection and Their Accuracy, B.R. Publishing Corporation N.D.
- 3) Blende, A.A ;and T.R. Kanitkar Principles of Population Studies, Himalaya Publishing House, Mumbai.
- 4) Agarwala S.N, India's Population Problem, Tata McGraw Hill, Bombay
- 5) Bose, A. India's Basic Demographic Statistics, B.R. Publishing Corporation, New Delhi.
- 6) Choubey, R.K. Population Policy in India, Kanishka Publications, New Delhi.
- 7) Srinivasan, K., Basic Demographic Techniques and Applications, Sage Publications , New Delhi.

**ECO/307**

**HISTORY OF ECONOMIC THOUGHT**

**Credit 4**

**Objective:** Provide the learners an overview of the history of economic thought

**Outcome:** The learner will appreciate the historical background of various economic thoughts

**Unit I: Early Period**

Economic thought of Plato and Aristotle – Doctrines of just cost and just price – Mercantilism: main characteristics; Adam Smith – Division of labour, theory of value, capital accumulation, distribution; David Ricardo – value, theory of rent, distribution; Thomas R.Malthus – theory of population,

**Unit II : Marginalists**

The precursors of marginalism – Cournot, Thunen, Gossen – The marginalist revolution; Jevons, Walras and Menger – Bohm-Bawark, Wicksell and Fisher: the rate of interest – Wicksteed and Weiser; Distribution – Marshall as a great synthesizer; role of time in price determination, economic methods, ideas on consumer's surplus, elasticities, prime and supplementary costs, representative firm, external and internal economies, quasi-rent, organization as factor of production, nature of profits.

**Unit III : Keynesian Ideas**

The aggregate economy, Liquidity Preference Theory and Liquidity trap, Marginal Efficiency of Capital and Marginal Efficiency of Investment, wage rigidities, underemployment equilibrium, role of fiscal policy: deficit spending and public works, multiplier principle, cyclical behavior of the economy, uncertainty and role of expectations, impetus to economic modelling

**Unit IV : Indian Economic Thought**

Early economic ideas: Kautilya, Valluvar; Modern economic ideas: Naoroji, Ranade, R.C Dutt and MN.Roy; Economic ideas of Gandhi: Village, Swadeshi, place of machine and labour, cottage industries, trusteeship; Early approaches to planning (The national planning committee); Gadgil co-operation as a way of life and strategy of development; J.K Mehta: Wantlessness.

**Suggested Readings:**

1. Blackhouse, R. A History of Modern Economic analysis, Basil Blackwell, Oxford.
2. Blang M. Economic Theory in Retrospect Cambridge
3. University Press, Cambridge.
4. Ganguly B.N Indian Economic Thought : A 19th Century Perspective,
5. Tata Mc GrAw Hill, New Delhi.
6. Guide, C and G. Rist A History of Economic Doctrines
7. George Harrop & Co., London.
8. Gray A and AE Thomson The Development of Economic Doctrine, Longman Group, London.
9. Roll, E A History of Economic Thought, Faber, London.
10. Schumpeter, J.A. History of Economic Analysis, Oxford Press, New York

**ECO/308 ECONOMICS OF GROWTH AND DEVELOPMENT Credit 4**

**Objective:** To explain theories and approaches of economic development and role of planning;

**Outcome:** The learners will be able to understand the dynamic interplay of various forces in understanding the development process

**Unit I : Basic Concepts of Development**

Meaning of Economic growth and economic development; Measurement of Development and Development Gap; Common characteristics of developing

countries; Factors affecting economic growth (Capital, Labour and Technology); Regional and global disparities; Development ethics - concept and principles.

#### **Unit II : Approaches to Economic Development**

Concept of Poverty and Inequality - poverty line, absolute and relative poverty; Vicious Circle of Poverty; Concepts of Social and Human Developments – HDI, PQLI, Happiness Index; Concept of Sustainable Development and SDGs.

#### **Unit III : Theories of Economic Development**

Adam Smith; Karl Marx; Schumpeter; Rostow's stages of growth; Kuznets's inverted U hypothesis; Lewis dual sector model, Big Push theory; Concept of Balanced vs Unbalanced growth.

#### **Unit IV : Growth Models**

Concept of Endogenous versus exogenous growth models; Harrod-Domar model; Solow model; Kaldor Model; Joan Robinson Model; Dualism - Social, Technological and Financial; Modernization theory and Dependency theory; concept of CBA.

#### **Suggested Readings:**

- 1) Todaro, Michael P. and Stephen C Smith Economic Development, Pearson Education,
- 2) Thirlwall, A. P. Growth and Development, Seventh edition, Palgrave Macmillan, New York.
- 3) Meier, Gerald M. and James E. Rauch, Leading Issues in Economic Development, Oxford University Press, New York
- 4) Jhingan, ML - The Economics of Development and Planning, Vrinda Publication
- 5) Goel, R.L. Economics of Development and Planning
- 6) Subrata Introduction to Development Economics,
- 7) Routledge, London & New York
- 8) Ghosh, Arun Paradigms of Economic Development, IIAS, Shimla.
- 9) Higgins, B., Economic Development, W.W. Norton, New York.

**Note : Learners are advised to use latest edition of text books**