# SYLLABUS FOR M.A. [ECONOMICS] UNDER CHOICE BASED CREDIT SYSTEM UNDER SIDO-KANHU MURMU UNIVERSITY

# <u>DUMKA</u>

| Semester –I   | Semester-II   |
|---|---|
| ECN-F01- Foundation of mathematical   | ECN-S05- statistics & computer analysis   |
| Economics   | for skill development   |
| ECN-C02 -Micro Economic analysis  | ECN-C06 -Monetary Theory  |
| ECN-C03- Macro Economics analysis   | ECN-C07-Indin Economic policy   |
| ECN-C04 -Demography &   | ECN-C08- Theory of Growth and   |
| Environmental Economics   | Development   |
| Semester III<br>ECN-A09- Indian Economy and Problem<br>ECN-C10- Production, Distribution and<br>Welfare<br>ECN-C11- Public Economics<br>ECN-C12-International Economics | Semester IV<br>Student can opt one of the two elective<br>group,(A or B)<br>Group-A (Mathematical Economics &<br>Econometrics)<br>Group-B(Agriculture & Industrial<br>Economics)<br>There will be two elective paper i.e<br>ECN-E13 & ECN-E14, ECN-C15 will be<br>Research Methodology and one paper<br>ECN-D16 will be dissertation paper. |

# SIDO-KANHU MURMU UNIVERSITY, DUMKA University Department of Economics Syllabus Under Choice Base Credit System M.A.( Economics )

The paper for the MA course will include Foundation course (F) core course<sup>©</sup> skill development course(S) choice base course (A) and Elective course (E)

# **SEMESTER-I**

| ECN-F01 | -Foundation of mathematical Economics |
|---------|---------------------------------------|
| ECN-C02 | -Micro Economic analysis              |
| ECN-C03 | - Macro Economics analysis            |
| ECN-C04 | -Demography & Environmental Economics |

# **SEMESTER-I**

# ECN-F01

# FOUNDATION OF MATHEMATICAL ECONOMICS

#### Full marks-100(End-70+Internal-30)

#### Time-3 Hrs

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

#### Module-I- Mathematical method-I

Function and its application in Economics; Derivatives and its application in Economics (Maxima and Minima, Pricing under perfect competition, Monopoly, and Duopoly, Elasticity of Economic Functions); Exponential and logarithmic function.

#### Module-II- Mathematical Method-II

Partial Derivatives and its application- Production Function and Partial elasticity of Demand; Young's Theorem, Homogenous Function and Euler's Theorem; integration and its applications.

# Module-III- Mathematical Method-III

Determinant and its properties; Matrix-simple operations; inversion; Rank of matrix; Solution of equation by Cramer's rule and matrix method; Input-output analysis- concept; Leontief's open and closed model.

# Module-IV- Mathematical method-IV

Concept, assumptions and significance of Linear programming – solution of graphic method; Game theory- Concept of Game, Pure and mixed strategies; Value of game; Saddle point solution.

#### **Module-V- Basic Econometrics**

Nature, meaning scope and importance of econometrics; Relation with static & Economics; Simple linear Regression Model-OLS method, Estimation of Parameter and Properties of least square estimation.

# **SEMESTER-I**

# ECN-CO2

# Micro economic analysis

# Full marks-100(End-70+Internal-30)

Time-3 Hrs

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

# Module –I-Introduction and Basic concept

Static and dynamic economics; micro and macro economics; Basic economic problems; choice and scarcity; positive and normative economics.

#### Module –II-Demand analysis

Cardinal and Ordinal utility analysis; Derivation of demand curve from different curve technique, Difference between inferior goods, giffen goods, and normal goods; Revealed preference theory; Marshall and Hicks, consumer surplus

# Module-III-price and output determination

Firm's equilibrium in short run and long Run; Supply curve of a firm industry under perfect competition, Discriminating monopoly, Monopolistic competition -Chamberlain approach( selling cost, product differentiation and excess capacity ); Cost and Revenue analysis in different market condition.

# Module- IV- price and output determination -II

Oligopoly- collusive and non collusive oligopoly (Cournot, Edgeworth and kinked demand curve) Bilateral monopoly. Risk and Uncertainty in Economic analysis.

#### Module-V- Alternative theories of the firm

Boumal's sales revenue maximization model ;Williamson model of managerial discretion, and Marris model of firm

# SEMESTER-I

# ECN-C03MACRO ECONOMIC ANALYSISFull marks-100(End-70+Internal-30)

Time-3 Hrs

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

# Module-I- National income accounting

Different concept of national income; Circular flow of income in two, three, and four sector economy, Measurement of National Income.

#### Module-II-Consumption function

Keynesian psychological law of consumption; Short run and long run, Static and dynamic consumption function; Income consumption relationship -Absolute income; Relative income, life cycle and Permanent income hypothesis.

#### Module –III- Investment function

Determinants of investment function; Marginal efficiency of investment and level of investment; Marginal efficiency of capital and investment; Theory of multiplier; Accelerator and investment behavior, Super multiplier

#### Module-IV - Theory of Economic fluctuations/ Trade cycle

Theories of Schumpeter, Kaldor; Samuelson, Hicks and Keynes; Control of Business Cycle; Relative effectiveness of monetary and fiscal policy.

# Module-V- Macro determination model

Classical, Keynesian, and IS-LM model; Rational Expectation Hypothesis.

#### SEMESTER-I

#### ECN-C04

# **Demography and Environment**

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

# Full marks-100(End-70+Internal-30)

Time-3 Hrs

#### Group A: (Demography)

#### **Module-I- Population and development**

Meaning and scope of demography; Theories of population-Malthus, Optimum theory of population; theory of demographic transition, Population and economic development, Factor affecting migration and urbanization.

#### Module-II- Structure of population

Measurement of Fertility and Mortality; Concept, type, Construction of life table and its uses population; Age pyramid and projection; Study of census in India-1981, 1991, 2001 and 2011.

#### Module-III-Population and development

Features of Indian population, Population policy in India, Concept of Urban area, Urbanization growth and Development in India; Demographic dividend in India.

#### Group B (Environmental economics)

# Module-I- Environmental issues

Economic development and environment- Sustainable development, National Environmental policy, Environmental management and people's participation (PPP); Coase theorem.

#### **Module-II-Social sector**

Importance of social sector- Education and health, Human capital Vs Physical capital. Education as instrument of economic growth, Indicators of health status Rural and Urban Healthcare infrastructure.

# SIDO-KANHU MURMU UNIVERSITY, DUMKA University Department of Economics Syllabus Under Choice Base Credit System M.A.( Economics ) SEMESTER-II

| ECN-S05 | - Statistics & computer analysis for skill development |
|---------|--|
| ECN-CO6 | -Monetary Theory                                       |
| ECN-C07 | -Indian Economic policy                                |
| ECN-C08 | - Theory of Growth and Development                     |

#### **SEMESTER-II**

#### ECN-S05 - Statistics & computer analysis for skill development

# Full marks-100(End-70+Internal-30)

# Time-3 Hrs

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

#### Module-I- Statistical Method-I

Simple correlation and Regression analysis; Karl Pearson's and Product Moment Method; Standard Error of Estimation and Probable Error estimation; Partial and Multiple correlation; Estimation of line of Regression. Time Series analysis; Estimation of trend value by least square method.

#### Module-II- Statistical Method-II

Classical and empirical definition of probability; Theorem of Probability (Addition an Multiplication Theorem), Bays theorem ; Binomial and Normal Distribution.

# Module- III- Sampling Theory and Hypothesis Testing

Basic concept; Objects of sampling; Principle of sampling; Types ; Limitation and Errors in Sampling ; Choice of sampling Technique ; Hypothesis testing type I and Type II Erroe ; Errors in hypothesis testing ; Significance of tests in small sample, ttest, Z-test and chi-square test x test for goodness of fit.

#### Module – IV-Skill Development

Government initiatives for skill development, Role of D.I.C. for skill development, Training Programme foe skill development – Role of Government and NGO.; Data Processing, Use of internet for Research, Use of Multimedia tools.

# SEMESTER-II ECN-C06 MONETARY THEORY Full marks-100(End-70+Internal-30)

#### Time-3 Hrs

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

# Module-I- Supply of Money

Approaches toward determination of money supply-RBI approach to money supply, Determinants of money supply; High powered Money and Money Multiplier, Control of Money Supply, Monetary Policy.

#### Module –II- Demand for Money

Classical approach to Demand for Money-Quantity theory approach, Keynes Liquidity Preference Approach to Demand for Money, Aggrigate Demand for Money, Derivation of IS-LM Curve; Post Keynesian Approach to Demand for Money- Patinkin and Real Balance Effect ; Approach of Boumol and Tobin, Friedman.

#### **Module-III Theory of Inflation**

Classical Keynesian and Monetarist approaches to Inflation ; Structural Theory of inflation; Phillips Curve analysis-Short run and long run, Inflation and economic growth, RBI Policies to control Inflation, Inflationary Gap.

#### Module-IV Money Market

Role and structure of Money Merket, SEBI-Its structure , Functions and its Impact on Capital Market; Demonetization – Its Impact on Indian Economy.

#### **SEMESTER - II**

ECN - C07

#### INDIAN ECONOMIC POLICY

# Full marks-100(End-70+Internal-30)

**Time-3 Hrs** 

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

#### Module - I — Economic Development

Concept of economic growth, economic development and sustainable development; Role of State, market and other institutions; human resource Development its importance and indicators (PQLI, Human Development Index (HDI), gender development indices); Developing grass-root organizations for development — PRI's and NGOs and its role.

#### Module - II — Planning in India

Objectives and strategies of planning in India; Failures and achievements of Plans in India. Decentralize planning in India; Planning commission and NITI aayog.

#### Module - III — Indian Agriculture

Nature and role of agriculture; Policies for agricultural and rural development; Technological change in agriculture — Price policy; Agricultural finance; Agricultural Marketing and Warehousing; Issues in food security. st

Module - IV — Industry

Industrial development during Five year plans; Industrial Policy; Public Sector enterprises and their performance; Problem of sick units in India; Small-scale and cottage industries

#### Module - V — External Sector

India's Foreign Trade-New Trade policy (EXIM policy); globalization and its impact on Indian Economy; Multinational Corporations, FERA & FEMA; W.T.O and its impact on the different sectors of the economy; SEZ in India.

#### **SEMESTER - II**

# ECN-C08 THEORY OF GROWTH AND DEVELOPMENT Full marks-100(End-70+Internal-30)

Time-3 Hrs

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

#### Module - I — Theories of Development

Classical theory of development — Contribution of Adam Smith, Ricardo, Karl Marx, Kaldor and Hickes.

#### Module - II — Economic Growth — I

Economic Growth and development; factors affecting economic growth-capital and technology; Neo-classical growth models — Solow and Meade; Mrs. Joan Robinson's growth model, Harrod-Domer Model.

#### Module - III — Economic Growth — II

Technological progress-embodied and disembodied; Endogenous growth, Indicators of Economic Development : PQLI, HDI, SDG'S; Human Resource Development and its role, Poverty and Equality- Concept and Measurement.

#### Module - V — Partial theories of Growth and Development

Vicious circle of poverty; Circular Causation; Unlimited supply of labour; Big push Theory; Balanced and unbalance growth, Critical minimum-effort thesis; Reni's and Fei model. Structural view of development.

BASIC READING LIST:

• Adelman, I. (1961), Theories of Economic growth and Development, Stanford University Press, Stanford.

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#### Semester III

**ECN-A09- Indian Economy and Development** 

ECN-C10- Production, Distribution and Welfare

**ECN-C11-** Public Economics

**ECN-C12-International Economics** 

# Semester III

# ECN-A09- Indian Economy and Development Full marks-100(End-70+Internal-30) Time-3 Hrs

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

#### Module-I- Economy and Development

Concept of Economy and its type (Capitalist, Socialist and Mixed Economy); Features of Indian Economy; Analysis of Economic Problem through Production possibility Curve.

#### **Module-II- Economic Growth and Development**

Concept of Economic Growth and Economic Development, Sustainable Development, Factors affecting Economic Development and Sustainable Development, Role of Human Resource Development, Measurement of HDI.

#### Module-III- Indian Economic Problems

Economic Development and Population, Poverty, Unemployment, Impact of Demonetization in Indian Economy, Covid-19 and its impact on Indian Economy, causes and impact of Migration in India.

#### **Module IV- Economic Planning**

Concept of Economic planning, Objectives and strategy of Economic Planning in India; Types of Economic Planning, Planning commission and NITI aayog, New Economic Policy of 1991 in India. GST.

Module-V- Rural Development

Rural Development programme in India, Role of PRI'S, NGO, SHGs in Rural Development.

#### SEMESTER - III

# ECN C10 PRODUCTION, DISTRIBUTION AND WELFARE Full marks-100(End-70+Internal-30)

Time-3 Hrs

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

Module - I — Production

Production function ; Isoquant — Least cost combination of inputs; Returns to factors;; Elasticity of substitution; Technical progress and production function; Cobb—Douglas production functions and its properties; Theories of cost.

#### Module - II — Distribution

Marginal productivity theory under different Market condition and Modem theory of distribution; Product exhaustion theorem; factor Pricing; Macro theories of distribution — Ricardian, and Marxian.

# Module - III – Market Equilibrium

Partial and general equilibrium, Walrasian model of General Equilibrium and its significance, stability and uniqueness of equilibrium. Input output analysis and its Implications.

#### Module - IV — Welfare Economics - I

Definition, scope and purpose of Welfare Economics; Measurement of Welfare; Pigou's Welfare Economics; Pareto optimality — Optimum exchange conditions.

#### Module - V — Welfare Economics - II

Compensation criteria - Contributions of Kaldor and Hicks and Scitovsky double criterion, Bergson's social welfare function.

# BASIC READING LIST:

• Arrow, K.J. (1951), Social Choice and Individual Values, Yale University Press, New Haven.

• Baumol, W.J. (1965), Welfare Economics and the Theory of the State (Second Edition), Longmans, London.

• Baumol, W.J. (ed. (209, Welfare Economics. Edward Elgar Publishing Ltd. U.K.

#### **SEMESTER - III**

#### ECN-C11 PUBLIC ECONOMICS

# Full marks-100(End-70+Internal-30)

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

#### Module - I — Public Expenditure

Wagner's law of increasing state activities; Wiseman Peacock hypothesis, effects of public expenditure; Performance and programme budgeting and Zero based budgeting; Fiscal policy and its objectives, Effects of public expenditure.

#### • Module - II — Taxation

Theory of Maximum Social Advantage, Ability to pay approach; Indices of Ability to pay; Incidence of taxation-Impact, Incidence and Effects of a tax, Backward and forward shifting. Taxable Capacity; Balanced Budget multiplier

#### Module - III — Public Debt and Public Sector Pricing

Sources; effect and burden of public debt; Public debt and economic growth, Public debt and inflation, Public debt as a means of regulating economy; Public debt management and repayment.

# Module - IV — Indian Tax System

Analysis of Indian Tax System; Sources of revenue of Union; State and Local bodies (Tax and Not-Tax); major Taxes in India-income tax, sales tax, VAT, Finance Commission, Fiscal policy- Neutral, Compensatory and Functional Finance.

#### Module - V — Indian Public Finance

Fiscal federalism in India; Centre – state financial relations in India, Analysis of Central and State government budget; Lack of flexibility in Central and State budgets, Fiscal crisis and fiscal sector reform in India.

#### **BASIC READING LIST:**

• Atkinson, A.B. and J.E. Stiglistz (1980), Lectures on Public Economics, Tata McGrow Hill, New York.

#### SEMESTER - IV

# ECN - C12 INTERNATIONAL ECONOMICS Full marks-100(End-70+Internal-30)

Time-3 Hrs

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

Module - I — Theory of International Trade

The theory of International trade — theories of comparative cost advantage and opportunity costs. Heckscher -Ohlin theory of trade, Leontief Paradox.

# Module - II — Theory of Interventions

Economic effects of tariffs and quotas on national income, output, employment, terms of trade and income distribution. Nominal, effective and optimum rates of tariffs - their measurement and impact.

# Module - III — Monetary aspects of International Trade

Meaning and Components of Balance of Payments; Equilibrium and disequilibrium of Balance of Payments; Factors causing disequilibrium in balance of payments and its correction; Foreign trade multiplier, Gains from trade, theory of term of trade

# Module - IV — Exchange Rate

Concept of Foreign exchange rate, fixed and flexible exchange rates, Convertibility of currency; Devaluation -Devaluation of Indian Rupee and its impact on our economy; Demand and supply theory of exchange rate determination.

# Module - V — The Theory of Regional Blocks

Reforms of the International monetary system, India and developing countries; Functions of WTO, IMF, World Bank and Asian Development bank — their achievements and failures.

# **BASIC REDING LIST:**

• Bhagwati, J.N. (ed), International Trade : Selected Readings. Cambridge University Press, Cambridge.

• Carbough, R.J. (1999), International Economics, International Thomson Publishing, New

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#### Semester IV

Student can opt one of the two elective group, (A or B)

#### Group-A

(Mathematical Economics & Econometrics)

#### Group-B

(Agriculture & Industrial Economics)

There will be two elective paper i.e ECN-E13 & ECN-E14, ECN-C15 will be Research Methodology and one paper ECN-C16 will be dissertation paper.

#### **SEMESTER-IV**

ECN-E13

Group-A

**MATHEMATICAL ECONOMICS & ECONOMETRICS** 

Full marks-100(End-70+Internal-30)

Time-3 Hrs

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

#### Module –I- Theory of Consumer Behavior

Cardinal and ordinal utility maximization; Concept of Elasticities; Consumer's surplus; Classical and Keynes Macro system; Static and Dynamic Multiplier, Samuelson's Trade cycle.

#### Module - II — Theory of Production

Homogeneous production function; Properties of Cobb-Douglas production function, Mathematical relationship between average cost and marginal cost; Producer's equilibrium —Laws of productions; Constrained optimization of a producer; Adding - up problem; Production possibility curve.

# Module - III — Price Determination & Market Equilibrium

Price and quantity determination under Perfect Competition; Monopoly; Duopoly and Discriminating monopoly, Problem of taxation and subsidy in Monopoly Pricing. Single market equilibrium-Difference and Differential equation and its uses in Economic analysis.

#### Module - IV — Theory of Matrix and Linear Programming

Matrix : Types of Matrix, Symmetric and Skew - Symmetric; Orthogonal matrix, Idempotent matrix; Linear Programming, Primal and Dual; Steps in construction of dual duality theorem; Solution of linear programming by Graphic Method

#### Module - V — Game Theory And Input Output Analysis

Concept of Game theory; Pure and Mixed strategies; Maximum and Mini - max solution; Saddle point; Solution of Games by pure and mixed strategy; G; Olnput Output Analysis — Open and Closed systems; Hawkins - Simon Conditions; Solution under three industries.

# SEMESTER-IV

#### **GROUP-A**

# ECN-E14 ECONOMETRICS Full marks-100(End-70+Internal-30)

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

**Module - I** — Concept of Econometrics and its scope; Econometrics Research Methodology; Relation of Econometrics with Statistics, Mathematical Economics and Economic theory.

# Module - II— Basic of Econometrics

Assumption of the error term, Estimation of parameters of bi-variate linear model through OLS approach and properties of OLS estimates; Gross Markov theorem; Concept and derivation of R2.

# Module - III — Problems in Regression Analysis

Nature test; Consequences and problems of Hetero- scedasticity; Multicollinearity and Auto correlation, First order Auto regressive scheme, Mean, variance and covariance of auto co-related U's, Durbin Watson test and graphical test.

# Module-IV

Regression analysis and Analysis of Variance; Sampling Theory – its type and Implication, Testing of Hypothesis, Type-I and Type-II Error, t,Z and Chi-Square test and its implication.

# **Module-V-Simultaneous equation**

Concept and Consequences, Simultaneous equation bias, Recursive and OLS, Identification Problem

# BASIC READING LIST:

 Chung, J.W. (1993) Utility and production : Theory and applications, Basil Blackwell, London.
Ferguson, H. (1976) Neo Classical Production and distribution.
Amemiya, T. (1985), Advanced Econometrics, Harvard Univ. Press, Cambridge, Mass.

#### Time-3 Hrs

# SEMESTER-IV **GROUP-B** AGRICULTURAL ECONOMICS Full marks-100(End-70+Internal-30)

Time-3 Hrs

Candidate will have to answer Five guestion out of Ten guestion. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

# **Module-I- Agriculture and Economic Development**

Nature and Scope of Agriculture, Role of agriculture in Economic Development: Traditional Agriculture and its Transformation; Interdependence between Agriculture and Industry, Agriculture Finance in India, New Agriculture Strategies In India.

#### **Module-II- Agricultural Production and Productivity**

Cobb-Douglas Production Function in Agriculture, Demand analysis of Firm Product

#### Module-III- agricultural Marketing

ECN-E13

Marketing and State Policy; Agricultural Markets and Marketing Efficiency; marketing Functions and Cost, Farm Management, Agriculture Marketing, Regulated Markets; Sustainable Agriculture, Co-operative Farming.

#### **Module-Iv- Agricultural Pricing**

Behavior of Agriculture Prices- Price Policy in India, Term of Trade between agricultural and non-agricultural Prices, Need for state Intervention; Capital formation in Agriculture in India; Food security in india.

#### Module-V- Agricultural Growth in India

Recent trends in agricultural growth in India; Role of livestock in Economic Development in India; Impact of New Economic Reform on Indian Agriculture; Rural Development Programmes in India- its Objectives and achievement, PDS in India.

# SEMESTER-IV GROUP-B

# ECN-E14 INDUSTRIAL ECONOMICS

# Full marks-100(End-70+Internal-30)

Candidate will have to answer Five question out of Ten question. Q No. 01 is Compulsory in nature which will contain 07short answer questions carrying 02 Marks each.

# Module-I

Concept and scope of Industrial economics; Industry and Economics growth, Factors of Industrial Productivity; Theory of Industrial location-Weber, Sargent, Horance; Industrial Policy in india.

# Module-II

Nature and Characteristics of labour markets in Developing Countries; Demand for Labour in relation to Size and Pattern of investment, Supply of Labour in relation to growth of labour force; Mobility and Productivity of Labour; Methods of recruitment and placement; Labour reforms in India ; Problems of Industrial Labour and its solution.

# Module-III

Classical , Neo Classical and Bargaining theories of wage determination; concept of Minimum Wage, Leaving wage and fair wage in theory and Practice, National wage policy, Economic reform and Industrial Growth. **Module-IV** 

Time-3 Hrs

Causes of Industrial dispute and their settlement and prevention; Labour legislation in India; Role of public sector in india, Small Scale Industries- Problems and Solutions, Concept of Industrial Productivity and its Measurement, Component of Industrial Finance in India.

# SEMESTER-IV ECN-C15 RESEARCH METHODOLOGY Full marks-100(End-70+Internal-30)

Time-3 Hrs

# Module-I

Concept of social Research and its implication; Scientific research and its characteristics, steps for research process, Formation of research design.

# Module –II

Types of Data, Methodology of Data collection, Census and sample method of Data collection, Analysis of Sampling, Methods for review of literature.

# Module-III

Editing and classification of Data- Methods of framing of good Questionire/ Schedule, Framing master sheet of collected Data, tools of Data Collection.

# Module-IV

Analysis of Data through Statistical Method (Average, Dispersion, Regression, Correlation and Analysis of Variance), Interpretation of Data, Steps for testing of hypothesis.

# Module-V

Methods of writing good Research Report, (Dissertation Report, Project Report and Thesis writing) Qualities of good Research; Research ethics.

# SEMESTER-IV

ECN-D16 DISSERTATION/RESEARCH PROJECT Full Marks-100

The Research project/ Dissertation has divided into parts i.e

Part-A:- Dissertation Paper-60 MarksPart- B:- Viva –vice Exam-40 Marks

All the students have to write the dissertation Paper under the guidance of Supervisor. The topic of Dissertation would be allowed by the Supervisor in view of the interest of the candidates subject to the Final approval of the H.O.D. of the department.