Program of Courses for the M.A Degree in Economics under CBCS
(With effect from 2018-19)

Course Code	Course Title	Contact Hours	Credits	Max Marks
I SEMESTER				
PEC 4431	Price Theory I	6	4	080
PEC 4433	Macro Economic Analysis I	6	4	080
PEC 4435	Public Economics	6	4	080
PEC 4337	Mathematical Methods and Applications	4	3	060
PEC 4339	Statistical Methods and Applications	4	3	060
PEC 4341	Globalization and Economic Reforms Buffer course : Human Development	4	3	060
	Total	30	21	
II SEMESTER				
PEC 4432	Price Theory II	6	4	080
PEC 4434	Macro Economic Analysis II	6	4	080
PEC 4436	Econometric Theory and Applications	6	4	080
PEC 4338	Research Methodology	4	3	060
PEC 4340	Agriculture and Rural Development	4	3	060
PEC 4342	China and Global Economy Buffer course : Small Business Management	4	3	060
	Total	30	21	
III SEMESTER				
PEC 5431	Environmental Economics	6	4	080
PEC 5433	Financial Markets and Services	6	4	080
PEC 5435	Advanced Econometrics	4	4	080
PEC 5437	Actuarial Economics	4	4	080
PEC 5439	Computer Applications in Economics (Lab)	4	4	080
PEC 5400	Special Area Study	6	4	--
	Total	30	24	
IV SEMESTER				
PEC 5632	International Economics	7	6	120
PEC 5634	Indian Economics	7	6	120
PEC5436	Development Economics	6	4	080
PEC 5438	Gender Economics	4	4	080
PEC5400	Project	6	4	160
	Total	30	24	
	Grand Total	120	90	

Special Area Study and Project are sequential courses

PEC 2

PEC 4431   PRICE THEORY - I   6 Hrs/4 Cr

Learner Outcome: The student's get trained with the knowledge to handle tools of price theory in Economic Analysis

Unit I: Models and Demand Analysis

Models: Relevance of Economic Models – Types – Markets: Classification – Criteria - Consumer Behaviour: Cardinal Utility Theory – Indifference Curve Theory – Revealed Preference Hypothesis – Determinants and Exception to Law of demand – Elasticity of demand

Unit II: Cost and Production Theories

Cost – Types – Traditional vs. Modern Theories – Scale Economies - Production Function – Technical Progress and Production Function – Equilibrium of the Firm – Laws of Production: Law of Variable Proportion – Returns to Scale

Unit III: Firms and Market Structure

Perfect Competition: Short and Long Run Equilibrium - Monopoly: Short and Long Run Equilibrium – Comparison with Pure Monopoly – Bi-lateral Monopoly – Price Discrimination – Effects of Discrimination – Monopoly power - Monopolistic Competition: Product Differentiation - Equilibrium of the Firm

Unit IV: Oligopolistic Models

Non-Collusive Oligopoly: Curonot's Duopoly Model – Bertran's Duopoly – Chamberlin's Oligopoly – Kinked Demand Curve Model – Stackelberg's Duopoly Model - Collusive Oligopoly: Cartels – Joint Profit Maximisation – Market Sharing Cartels – Price Leadership – Low Cost Firm Leader – Dominant Firm Price Leader – Barometric Price Leadership

Unit V: Critique on Marginalism

Assumptions of Neo Classical Theory – Hall and Hitch Report and the Full-Cost Pricing Principle – Gordon's Attack on Marginalism – In Defense of Marginalism

Text Books

Koustoyiannis. A, (2003), Modern Micro Economics, Mac Millan Press Limited, London.

Ahuja, H.L. (2000), Advanced Economic Theory, Chand and Company Limited, New Delhi.

References

Robert S. Pindyck and Daniel L. Rubengeld, (2006), Micro Economics, Prentice Hall of India Limited, New Delhi.

Gould, J.P. and C.E. Ferguson, (2003), Micro Economic Theory, AITBS, New Delhi.

Peter Pashigian, B. (1999), Price Theory and Applications, Irwin Mc Graw Hill, Boston, USA.

Watson, D.S., and Getz, M. (1996), Price Theory and its Uses, AITBS Publishers and Distributors, New Delhi.

Joshi, J.M. and Joshi, R. (1994), Micro Economic Theory: Analytical Approach, Vishwa Prakashan, New Delhi.

PEC 4433   **MACRO ECONOMIC ANALYSIS – I**   **6 Hrs/4 Cr**

Learner Outcome:

Theoretically and empirically, Macro Economic behaviour in its facts the behaviour of aggregative variables related to macro policy. National income accounting as the basis for aggregative supply and aggregative demand, consumption function, multiplier, supply and demand for money

Unit I: National Income and Account

Income and related concepts - Circular Flow of Income in two - three - and four - sector economy; different forms of national income accounting — social accounting, input-output accounting, flow of funds accounting and balance of payments accounting

Unit II: Consumption Function

Consumption – classical Vs modern - Keynes' psychological law of consumption — implications and Empirical evidence on - Determination of Income, Output, and Employment - Aggregate demand function and Aggregate supply function - Income-consumption relationship — absolute income, relative income, life cycle and permanent income hypotheses

PEC 4

Unit III: Investment Function

Investment – types - Marginal efficiency of investment - Marginal efficiency of capital — Investment behavior – accelerator, multiplier and super multiplier - effect of policy measures on investment

Unit IV: Supply of Money

Money – types – monopoly as financial intermediation — a mechanistic model of bank deposit determination - A behavioral model of money supply determination, a demand determined money supply process, RBI approach to money supply, High powered money and money multiplier - budget deficits and money supply - money supply and open economy - control of money supply

Unit V: Demand for Money

Classical approach to demand for money — Quantity theory approach, Fisher's equation, Cambridge quantity theory, Keynes's liquidity preference and demand for money — aggregate demand for money; Derivation of LM curve

Text Books

Edward Shapiro, (1999), Keynes and Post – Keynesian Economics, Kalyani
Publishers, New Delhi.

Rana and Verma, (2007), Macro Economic Analysis, Vishal Publication, Jalandhar.

References

Rana and Verma, (2007), Macro Economic Analysis, Vishal Publication, Jalandhar.

Branson, (2003), Macro economic theory and policy, AIMBS, New Delhi..

Gupta, R D and A.S. Rana, (1997), Keynes and Post-Keynesian Economics, Kalyani
Publishers, New Delhi.

Campbell R Mconnel and Harish C Gupta, (1987), Introduction to Macro Economics,
Tata Graw Hill Publishing Company Limited, New Delhi.

Brooman, F.S., (1976), Macro Economics, Blackie and Son Limited, London.

Danlio, EA. (1974), Macro Economic Theory, Prentice Hall of India, New Delhi

Richard T. Froyen, (2003) Macro Economics – Theories and Policies, Pearson
Education, New Delhi

PEC 4435　　　　　　**PUBLIC ECONOMICS**　　　　　**6 Hrs/4 Cr**

Learner Outcome: Students can acquaint and understand with the changing role and functions of government in economic transition. Students will learn the knowledge of relative roles of government and the market in matters related to public goods, finance, enterprise and social welfare

UNIT I: Public Goods and Welfare

The Value Judgments, Inter-Personal relationship and Social Welfare –Spillover Benefit and Cost-Efficient Provision of Public Goods and Private Goods – Principle of Exclusion and Consumption, Classification of Goods: Private, Toll, Collective and common pool Goods – Merit Goods, Demerit Goods -Economic and Social Goods – Mixed Goods

UNIT II: Economic Governance

Demand for and Supply of Government Services – Role of Government in a Mixed Economy onto market economy - Corporate Governance and Forms of Economic Governance – E-Governance – Privatization- PPP Model – Laffer Curve analysis

UNIT III: Public Activities

Engle's Law – Application of Wagner's Law of Increasing State Activities – Peacock–Wiseman Hypothesis – Lindhal, Samuelson Views on Benefit Principle – Evaluation and Project Expenditure Evaluation

UNIT IV: Public Policy

Rationale of Public Policies - Poverty Alleviation and User Price - Provision of Infrastructure, Correcting Regional Imbalance – Balanced Budget Multiplier – Automatic and Discretionary Stabilizers – Built-in-Flexibility – Functional Finance – Fiscal Policy for Economic Development

UNIT V: Government Finance

Concept of Tax Incidence – Fiscal Incidence - Public Debt Redemption – Theories of Budgets – Performance Budgeting – Programme Budget – Zero Base Budgeting – Budget as the means of operationalising the Planning Process – Fiscal Federalism and Cooperative Federalism- GST - Local Finance .

Text Books

Musgrave, R. A. and Peggy B. Musgrave, (1995), Public Finance in Theory and Practice, Mc Graw Hills, New York.

Tyagi, B. P. (2001), Public Finance, Jai Prakahnath Meerut.

Maria John Kennedy (2012), Public Finance, PHI Learning Private Limited, New Delhi.

References

Atkinson, A. B. and J. Estiglitz, (1989), Lecturers on Public Economics, McGraw Hill, New York.

Mishra, D. K., (1985), Public Debt and Economic Development of India, Prince House, Lucknow.

Buchanan, J. M., (1980), Fiscal Theory and Political Economy, Selected Essays, University of North Carolina Press, Chapel Hill.

Muller, D. C., (1979), Public Choice, Cambridge University Press, Cambridge.

Musgrave, R. A., (1977), Essays in Fiscal Federalism, Greenwood Press, Westport.

Peacock, A. and G. K. Shaw (1976), The Economic Theory of Fiscal Policy, George Allen and Unwin, London.

Dates, W. E. (1972), Fiscal Federalism, Harcourt Brace and Jovanowich, New York.

Chelliah, R. (1971), Fiscal Policy in Underdeveloped Countries, George Allen and Unwin, Bombay.

PEC 4337   MATHEMATICAL METHODS AND APPLICATIONS   4 Hrs/3Cr

Learner Outcome:

Students can benefit and training to use the techniques of mathematical methods which are commonly applied to understand and analyze economic problems

Unit – I: Differential Calculus

Concept and Rules of Differentiation – Derivatives of Higher Order – Maximum and Minimum Values of a Function – Partial Derivatives – Applications – Utility, Production and Cost Functions with and without Constrained Optimization and Determination of Output and Profit Under Different Market Structures

Unit – II: Integral Calculus

Concept of Integration – Basic Rules and Methods of Integration – Applications in Economics – Consumer Surplus and Producer Surplus

Unit – III: Difference Equation

First Order Difference Equation and Applications – Cobweb Model – Market Model with Inventory – Multiplier and Accelerator Model

Unit – IV: Matrices and Linear Programming

Matrices – Types – Application of Matrices to the Solution of Linear Equations – Input-Output Analysis – Formulation of LP Problem – Concept of Duality – Graphical Solutions – Simplex Method

Unit – V: Game Theory

Concept of Game – Two-Person Zero-Sum Game - Pay-Off Matrix - Pure and Mixed Strategies, Maximum and Minimax Solutions – Graphical method -Saddle Point Solution – Non-Constant Sum Game – Prisoner's Dilemma

Text Books:

Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.

Henderson, J.M and R.E Quandt (1980). Micro Economic Theory: A Mathematical Approach, McGraw Hill, New Delhi.

References:

Allen, R.G.D.(1976), Mathematical Economics, Macmillan, London.

Kothari, C.R (1982) , An Introduction to Operations Research, Vikas Publishing House, New Delhi.

Carl P Simson and Lawrence Blume, (2006), Mathematics for Economists, Viva Books (P) Ltd., New Delhi.

PEC 8

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PEC 4339　STATISTICAL METHODS AND APPLICATIONS　　4 Hrs/3 Cr

Learner Outcome:

Learners will get training in the application of statistical methods to enrich the understanding of economics and instill the scientific rigor in economic thinking and they can equip in use of the statistical tools to understand the economic theory better.

Unit-I: Introduction to Statistics

Meaning of Statistics - Characteristics – Functions – Importance – Limitations – Methods of Sampling – Sources of Data – Methods of Collecting data

Unit – II: Distributional Characteristics

Central Tendencies – Mean, Median, Mode – Measures of Dispersion – Range, Mean Deviation, Standard Deviation, Co-efficient of Variation, Quartile Deviation, Skewness and Kurtosis

Unit –III: Association Attributes

Correlation – Types – Karl Pearson Coefficient – Spearman Rank Correlation - Regression – Regression Co-efficient – Correlation Vs Regression-Attributes – Difference between Correlation and Attributes – Methods of Studying Association-Non-Parametric methods – Chi-square Test – Sign Test

Unit-IV: Time Series and Index Numbers

Time series analysis and its Components –-Index Numbers – Importance and Classification of Index numbers – Price, Quantity, Value: Laspeyer's, Paasche's and Fisher, Family Budget Method – Problems and Limitations of Index Number

Unit- V: Probability and Hypothesis testing

Probability and its related Concepts – Theorems of Probability – Addition and Multiplication-Theoretical Distribution – Binomial, Poisson and Normal: their Properties and Uses- Hypothesis testing – type I and II errors Z-test, t-test, F-test and ANOVA

Text Books
1. Gupta S P (2008), Statistical Methods, Sultan Chand & Sons, New Delhi.

Pillai R S N and Bagavathi , Statistics: Theory and Practice,(2009), S.Chand & Company Pvt.Ltd. New Delhi.

References

Gupta, S.C and Kapoor, V.K (2007), Fundamentals of Applied Statistics, Sultan Chand and Sons, New Delhi.

Arora.P.N, Sumeet Arora and S.Arora (2007), Comprehensive Statistical Methods, Sultan Chand and Sons, New Delhi.

Elhance, D.N and Aggarwal, B.M (2006), Fundamentals of Statistics, Kitab Mahal, Allahabad.

PEC 4341   GLOBALISATION AND ECONOMIC REFORMS   4 Hrs/3 Cr

Learner Outcome: The course enables students to acquaint with contemporary global economic affairs concerning economic, political and cultural dimensions of globalization, country experiences and economic reforms in India

UNIT I: Introduction to Globalization

Meaning and Definition- Origin- Related Concepts- Profile of the World- Economic System- Features of Globalization – Process- Causes- Stages – Major Players- Ideology of Globalization: Economics, Political and Religious Dimensions – Globalization at the Firm and Corporate Level – Cross Border Mergers and Acquisitions – Advantages and Disadvantages – Essential Conditions for Globalization

Unit II: International Organisation and Globalisation

IBRD, IMF, WTO – Origin, Objectives, Functions – WTO Agreements- Basic Principles – Main Elements- Agreements on Agriculture – Industry – Trade – Services – Property Rights – Rules of Origin

UNIT III: Globalization Issues and Challenges

State Vs Market – Deregulation and Decontrol – Investment: MNC's FDI and Capital Flows – Global Financial Crisis – Technology Transfer – Privatization – Factor Mobility - Alternatives to Globalization - Challenges

UNIT IV: Experiences of Countries on Globalization

Benefits of Globalization across Countries - Developed Vs. Developing, Small Vs. Large - Rich Vs. Poor - Experiences Asian Tigers

UNIT V: Globalization and Economics Reforms in India.

Economic Reforms – Origin – Features – Strategies (LPG) – Process - Agricultural and Industrial Sector Reforms - External Sector Reforms - Financial Sector Reforms – Fiscal and Banking Sector Reforms – Labour Reforms- Health and Education Sector Reforms

Text Books:

Datt, Ruddar (2008), Indian Economy, S. Chand and Company, New Delhi.

Radhakrishna, R (2008), India Development report, Oxford University press, NewDelhi.

Jagdish Gandhi, P. (2003), Globalised Indian Economy: Contemporary Issues and Perspectives, Deep and Deep Publications Private Limited, New Delhi..

Martin Hhor (2001), Rethinking Globalization: Critical Issues and Policy Choices, Zed Books, London.

References

Thomas Sebastian (2007): Globalization and uneven Development, Rawat Publications, New Delhi.

Stefano Pelle (2007) – Understanding Emerging Markets, Response Book, New Delhi.

Sumi Krishna (2004): Globalization and people's development choices-Hivos-Netherlands.

Pranab Kanti Baxe (2008)- Globalization An Anti-Text- A local view, Aakar Books –New Delhi.

Marjan and H W Singer (1996): The World Economy: Challenges of Globalization and Regionalisation, Macmillan Press Ltd., London.

Greg Buckman (2004), Globalisation: Tame It or Scrap It? University Press, Dhaka

PEC   HUMAN DEVELOPMENT   4 Hrs/3 Cr

Learner Outcome: The course enables students to acquaint Human Growth and Development is planned to acquaint you with developmental concepts in psychology and to give you an understanding of the basic dynamics, which underlie human behavior at various stages in the lifespan. Investigating these processes in relation to biological, psychological, socioeconomic and cultural factors

Unit –I: Introduction to Human Development

Human development and the need to study it; roles of heredity and environment in human development; concepts of growth and development; the life span approach to human development- Conception; physical and psychological care of the expectant mother-Prenatal development

Unit-II Marriage and Family Relations

Marriage – Definition, functions and changing trends. Marital-adjustment and its influencing factors - Family – Definition, composition, functions and types (with reference-to India), changing trends of family in India and it's influencing Factors-Interpersonal relationships within the family – importance and types of family interaction and communication

Unit III: Child Care and Development

Birth of the baby – the characteristics of the neonate; care of the neonate. Infancy – highlights of development ; caring for the infant –feeding, weaning , supplementary feeding ; sleep routine ; bathing and clothing ; immunization schedule ; importance of toys.

Unit IV: Psychological bases of human development

Intelligence – Definition, nature of intelligence, origins of intelligence testing, types of intelligence tests. Emotion – Definition, adaptive functions, basic emotions of fear, anger and love, universal aspects of emotions. Personality – Definition, influencing factors, role of social norms impersonality development, tests of personality Socialization-Definition, agencies of socialization, gender differences in socialization.

Unit V: Disabilities and Behavior problems in children

Disability – Definition, characteristics of disabled children, major types of disabilities: causes, diagnosis and remedies. Adjustment at home and school. Behavior problems – Definition. Causes of and remedies for behavior problems in children: thumb sucking, bedwetting, fear, anxiety, shyness, temper tantrum, stealing, lying and truancy.3. Guidance

and counseling of disabled children and children with behavior problems through different stages of development

Text Book

Nag, Rathindranath. Ma o shishu-Papalia, D.E., Olds, S.W. and Feldman, R.D. (2006), Human Development. 9th Ed. New Delhi: Tata McGraw- Hill.-Roy, Sushil. Shiksha manovidya

Morgan, C.T., King, R. A., Weisz, J.R. and Schopler, J. (1987). Introduction to psychology 7th Ed., New York: McGraw – Hill.

References:

1. Arya, S.C. (1972).Infant and child care for the mother. New Delhi

2. Berk, L. E. (1996). Child development. New Delhi

3. Hurlock, E.B. (2007). Developmental psychology: A life – span approach-New Delhi: Tata McGraw Hill.

4. Kirk, S.A. (1970).Educating exceptional children. Indian Edition. New Delhi.

PEC 4432 PRICE THEORY - II 6 Hrs/4Cr

Learner Outcome: The students can understand the theoretical underpinnings of managerial and behavioral theories of firms, methods of factor pricing and decision making in the asymmetric realm.

Unit 1: A Representative Model of Average Cost Pricing

Goals of the Firm – Demand and Cost Schedules – Price and Mark-up Rule – Prediction of Average Cost Pricing Theory in Changing Market Conditions – Skimming and Penetrating Price

Unit II: Limit Pricing

Bain's Model – Sylos Labini Model – Franco Modigliani Model – Bhagwati Model – Pashigian Model

Unit III: Managerial Theories

Baumol's Theory of Sales Maximisation – Marris Model of Managerial Enterprise – Williamson's Model of Managerial Discretion – Asymetric Information and Markets – Market Signaling – Moral Hazards

Unit IV: **Factor Pricing**

Factor Pricing in Perfectly and Imperfectly Competitive Markets – Bilateral Monopoly – The Adding-up Problem

Unit V: Welfare Economics

Criteria of Social Welfare: Growth of GNP – Bentham's Cardinalist Criterion – Kaldor-Hick's Compensation Criterion – Bergson Criterion – Pareto Optimality – Welfare Maximisation and Perfect Competition

Text Books:

Koustoyiannis. A, (2003), Modern Micro Economics, Mac Millan Press Limited, London.

Ahuja, H.L. (2000), Advanced Economic Theory, Chand and Company Limited, New Delhi.

References

1. Robert S. Pindyck and Daniel L. Rubengeld, (2006), Micro Economics, Prentice Hall of India Limited, New Delhi.

2. Gould, J.P. and C.E. Ferguson, (2003), Micro Economic Theory, AITBS, New Delhi.

3. Peter Pashigian, B. (1999), Price Theory and Applications, Irwin Mc Graw Hill, Boston, USA

4. Watson, D.S., and Getz, M. (1996), Price Theory and its Uses, AITBS Publishers and Distributors, New Delhi.

5. Joshi, J.M. and Joshi, R. (1994), Micro Economic Theory: Analytical Approach, Vishwa Prakashan, New Delhi.

PEC 4434   MACRO ECONOMIC ANALYSIS – II   6 Hrs/4Cr

Learner outcome:

The Sequential course helps the students to evaluate macroeconomic policies and their impact on macroeconomic process, theories, and theory of investment, inflation and Phillip's curve.

Unit I: IS – LM Model and its variants

Keynesian and Neo-classical views on Interest; The IS-LM model; Extension of IS-LM model with Government Sector; Relative effectiveness of Monetary and Fiscal policies; Extension of IS-LM models with Labour Market and Flexible Prices

PEC 14

Unit II : Post-Keynesian Demand For Money

Post - Keynesian approaches to demand for money — Patinkin and the Real Balance Effect, Approaches of Baumol and Tobin; Friedman and the modern quantity theory; Crisis in Keynesian economics and the revival of monetarism

Unit III: Macroeconomics in an Open Economy

Mundell - Fleming model — Asset markets, expectations and Exchange Rates; Monetary approach to balance of payments

Unit IV: Theory of Inflation

Classical, Keynesian and Monetarist approaches to inflation; Structuralist theory of inflation; Philips curve analysis — Short run and long run Philips curve; Samuelson and Solow — the natural rate of unemployment hypothesis; Tobin's modified Philips curve; Adaptive expectations and rational expectations; Policies to control inflation

Unit V: Business Cycles

Theories of Schumpeter, Kaldor, Samuelson and Hicks, Goodwin's model; Control of business cycles — Relative efficacy of monetary and fiscal policies

Text Books

Edward Shapiro, (1999), Keynes and Post – Keynesian Economics, Kalyani Publishers, New Delhi.

Rana and Verma, (2007), Macro Economic Analysis, Vishal Publication, Jalandhar.

References

Rana and Verma, (2007), Macro Economic Analysis, Vishal Publication, Jalandhar.

Branson, (2003), Macro economic theory and policy, AIMBS, New Delhi..

Gupta, R D and A.S. Rana, (1997), Keynes and Post-Keynesian Economics, Kalyani Publishers, New Delhi.

Campbell R Mconnel and Harish C Gupta, (1987), Introduction to Macro Economics, Tata Graw Hill Publishing Company Limited, New Delhi.

Brooman, F.S., (1976), Macro Economics, Blackie and Son Limited, London.

Danlio, EA. (1974), Macro Economic Theory, Prentice Hall of India, New Delhi

Richard T. Froyen, (2003) Macro Economics – Theories and Policies, Pearson Education, New Delhi

PEC 4436   ECONOMETRIC THEORY AND APPLICATIONS   6 Hrs/4Cr

Learner Outcome: This course aims at imparting analytical skill essential to validate economic phenomenon. It includes linear, multiple linear regression models, ANOVA, and violation of OLS assumptions.

Unit I : Introduction

Definition – Scope – Goals and Division of Econometrics – Methodology of Economic Research

Unit II: Simple Linear Regression Model

Simple Linear Regression Model – Assumption of the Linear Regression Model – Properties of OLS estimators – Sampling Distribution of OLS estimators – Statistical tests of Significance of the Estimates Confidence Intervals and Hypothesis Testing – Goodness of Fit with R^2 – Applications.

Unit III: Multiple Linear Regression Model

Multiple Linear Regression Model – Assumptions of the Multiple Linear Regression Model – Properties of OLS estimators – Generalization to More Than Two Variables – Both Normal and Matrix Approach – Application.

Unit IV: Violation of OLS Assumptions

Tests of the Assumptions of the Linear Regression Model- Zero mean – Normality – Autocorrelation – Meaning , Consequences, Detections and Methods of Removal- Hetrocdeasticity – Multi collinearity – Meaning – Consequences – Detections and methods of removal

Unit V: Analysis of Variance and Regression Model

Analysis of Variance – Difference between Regression and Analysis of Variance – Sampling Distribution of OLS Estimators – Statistical Tests of Significance of the Estimates – Confidence Intervals and Hypothesis Testing – Goodness of Fit with R – Applications.

Text Books

1. Gujarati,D (2009) , Basic Econometrics, Tata McGraw-Hill Education.

G M K Madnani (2005), Introduction to Econometrics, Oxford & IBH Publishing Co Pvt.Ltd, New Delhi, India.

Reference

Koutsoyiannis, A(2003), Theory of Econometrics, Harper and Row Publishers, Inc.,

Kements (2003), Elements of Econometrics, Harper and Row Publishers, New York.

Johnston (1985), Econometrics, McGraw Hill, New York.

PEC 4338   RESEARCH METHODOLOGY   4 Hrs/3Cr

Learner Outcome: students can get training in scientific thinking and helps to develop socially concerned and competent researchers, administrators and activists. Students also acquaints with the identification of researchable problem, hypothesis formulation, research methods and techniques and ultimately the method of report writing

UNIT I: **Introduction**

Meaning – criteria for good research – assumptions, objectives and difficulties of social research – qualities of a good research

UNIT II: Dimensions of Research

Classification of research - fundamental – applied – descriptive – historical – exploratory- experimental - case study – characteristics of case study- sources -utility and limitations of case study method - survey research - evaluation – comparative method – precautions used in comparative method and inter disciplinary research.

UNIT III: **Hypothesis and Research problem**

Selection of the research problem - types of research problem – sources-criteria of good research problem – justification of the problem evaluating the problem. Definition of hypothesis – types - functions, sources of hypothesis - criteria of usable hypothesis-utility - difficulties in formulation of hypothesis.

UNIT IV: **Sources of Data and Research Design**

Meaning of research design - concepts relating to research design - major steps in preparing a research design - factors affecting research design - evaluation and advantages of research design-Sources of data – primary and secondary data - census and sampling

method – essentials of a good sample - methods of sampling – observation - types of observation –merits and limitations

UNIT V: Statistical Applications and Techniques

Processing, analysis and interpretation of data- - Statistical applications in research- scaling techniques - criteria of validity of a scale - difficulties in scaling - kinds of scales - point scales - Bogardus scale - intensity scale, ranking scale - Thurstan scale and Likert scale - meaning of research report -purpose and structure of research report

Text Books

Kothari, C.R, (1999), Research Methodology: Methods and Techniques, Wiley Eastern Limited, New Delhi.

Thanulingam, N., (2002), Research Methodology, Himalaya Publishing House, Mumbai.

References

Loraine Blaxter, Christina Hughes and Malcom Tight, (1999), How to Research, Viva Books Private Limited, New Delhi.

Martyn Denseombe, (1999), The Good Research Guide for Small-Scale Social Research Projects, Viva Books Private Limited, New Delhi.

Sarvanavel, P., (1999), Research Methodology, Kitab Mahal, Allahabad.

Diwivedi, R.S., (1997), Research Methods in Behavioral Sciences, Macmillan, New Delhi.

Sonachalam, K.S., (1988), Research Methodology of Social Sciences, Emerald Publication, Madras.

Goode, William J. and Hatt, Paul K (1987), Methods in Social Research, Mc Graw Hill, London.

Wilkinson and Pandarkar, (1984), Methodology and Techniques of Social Research, Himalaya Publishing House, Bombay.

Kurein, C.T., (1973), A Guide to Research in Economics, Sangam Books, Madras.

Uma Sekaaran, (2006), Research Methods for Business- A skill building Approach, Wiley India (P) ltd, New Delhi.

PEC 4340   AGRICULTURE AND RURAL DEVELOPMENT   4 Hrs/3Cr

Learner Outcome: This course enables the students to obtain a detailed treatment of issues in agricultural economics and to get familiarized with policy issues that are relevant to Indian agricultural economics.

Unit I: Agriculture and Economic Development: Nature and Scope of Agricultural and Rural Economics - Traditional Agriculture and Its Modernization - Role of Agriculture in Economic Development - Interdependence between Agriculture and Industry - Models of Interaction between Agriculture and the Economy

Unit II: Agricultural Production and Productivity: Agricultural Production - Agriculture Growth Debate - Farm Size and Laws of Returns – Size-Productivity Debate - Farm Budgeting - Resource Use Efficiency in Agriculture – Impact of Modernization and Mechanization on Agriculture - Reforms and Revolutions - Labour Absorption - Gender Issues in Agriculture

Unit III: Diversification of Rural Economic Activities: Rural Livelihood System - Nature and Types of Rural Economic Activities - Livestock and Animal Husbandry Activities - Livestock Resources and Their Productivity -White Revolution - Fishery and Poultry Development - Blue Revolution- Forestry - Horticulture and Floriculture
Issues and Problems in Rural Industrialization - Development of Agro-based Industries - Problems of Agricultural Marketing

Unit IV: Agriculture and Rural Infrastructure: Importance of Economic and Social Infrastructures - Land Resources, Water Resources - Energy Resources - Rural Transport - Communication - Banking - Extension Services - Rural Electrification - Rural Social Infrastructure: Education - Health - Information Dissemination

Unit V: Rural Finance: Rural Indebtedness: Status, Causes and Remedies - Role of Capital and Rural Credit - Organized and Unorganized Capital Market - Rural Savings and Capital Formation - Characteristics and Sources of Rural Credit — Institutional and Non-Institutional - Reorganization of Rural Credit — Cooperatives, Commercial Banks, Regional Rural Banks- Role of NABARD - Self-Help Groups (SHGs) - Micro Units Development and Refinance Agency Bank (MUDRA Bank)

Text Books:

Subba Reddy S, P.Raghu Ram, T.V.Neelakanta Sastry abd I. Bhavani Devi (2010), Agricultural Economics, Oxford & IBH Publishing Co Pvr. Ltd, New Delhi.

Tyagi B.P (2005), Agricultural Economics and Rural Development, Jai Prakash Nath & Co, Meerut

References:

Bhaduri, A. (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi.

Bilgrami, S.A.R. (1996), Agricultural Economics, Himalaya Publishing House, Delhi.

Chaudhary, P. (1972), Readings in Indian Agricultural Development, George Allen & Unwin, London.

Soni, R.N. (1995), Leading Issues in Agricultural Economics, Arihant Press, Jalandhar.

Brahmananda, P.R. and V.R. Panchumukhi (Eds.) (1987), The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.

Raj, K.N. et.al. (1988), Essays in the Commercialisation of Indian Agriculture, Oxford University Press, New Delhi.

Vaidyananthan, A. (1995), The Indian Economy: Crisis, Response and Prospects, Orient Longmans, New Delhi.

Rao, C.H. Hanumantha (1994), Agricultural Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi.

Uppal, J.S. (Ed.) (1987), India's Economic Problems — An Analytical Approach, Tata McGraw Hill, New Delhi.

Basanta K Pradhan, M.R.Saluja, P K Roy and S'L.Shetty (2003), Household Savings and Investment Behaviour in India, EPW Research Foundation, Mumbai

PEC 4342   CHINA AND GLOBAL ECONOMY   4 Hrs/3Cr

Learner Outcome: The students to get familiarized with the basic characteristics of Chinese Economy, its development process and its challenges and prospects. It helps to understand how each country is peculiar and enable them to learn from other economies.

Unit I: Introduction to Chinese Economy

Profile of China – History – Culture – Resources – Infrastructure – Special Features of Chinese Economy – Relevance of Chinese Studies

Unit II: China's Political System

Political Ideology - Party State - Structure and levels of Governance - Central and Local Relations

Unit III: Economic Growth and Development of China

Dimensions of Growth and Development of China – Composition and Trends in National Income - Growth Models and New Economic Strategy - Achievements of China –Challenges and Prospects

Unit IV: China's Foreign Relations and Policy

Priorities of Chinese Diplomacy – Relations with Nations of Groups (developed, developing and neighboring countries) - Dimensions of International Relations – China's Relations with India – China and International Organizations.

Unit V: Emerging Market and China

Emerging Market- China's Contribution to World Economy - China and Globalization - Rise of China as a Global Power – World's View of China - Learning from China's Development Experience

Text Books:

Robert L. Worden, Andrea Matles Savada, and Ronald E. Dolan (1987): China, A Country Study. Area Handbook Series, Federal Research Division, Library of Congress Washington, D.C.

Shuxun Chen and Charles Wolf, Jr (2001): China, the United States and the Global Economy, RAND, Santa Monica, CA.

References:

Dwight H. Perkins (2006): The Challenges of China's Growth, AEI Press, Washington, D.C.

Edward Friedman and Bruce Gilley (2005): Asia's Giants: Comparing China and India, Palgrave Macmillan Ltd, New York.

Jan Joost Teunissen (2003) China's Role in Asia and the World Economy: Fostering Stability and Growth, FONDAD, The Hague.

Martin Jacques (2009) When China Rules the World, Allen Lane, Penguin Books Ltd, London. England.

Shaun Breslin (2007): China and the Global Political Economy, International Political Economy Series, Palgrave Macmillan Ltd, New York.

6.Vittorio Valli, Donatella Saccone (2009) Structural Change and Economic Development in China and India, Working paper No. 7/2009, University of Torino, Italy.

PEC   SMALL BUSINESS MANAGEMNET   4Hrs/3Cr

Learner Outcome: Students will get better understanding of small business entrepreneurship that includes the concept of Enterprise; Project planning, Financial and Marketing feasibility and they will also learn the challenges of small business such as Innovation, and Crisis Management and inculcates in students the spirit of enterprise.

UNIT I: Small Enterprise – An Introduction

Definition – Classification – Environment of Small Business – Role – Risk and Survival Strategy – Entrepreneurship and Small Enterprises – Nurturing Entrepreneurship

UNIT II: Project Planning

Search for a business idea – Environment scanning – concepts of Projects and classification – Project Identification – Formulation – Design and Network Analysis – Project Report – Project Appraisal: Factory Design and Layout – Shop Floor Environment – Forms of Organization – Incentives and Subsides – Finance and Consultancy supports

UNIT III: Marketing Assessment

Definition and Functions of Marketing – Marketing Mix – Marketing Channels – Packaging, Branding, Buying Motive - Marketing Institutions and Assistance – Marketing Research and Marketing Information System – Pricing – Market Segmentation and Marketing Strategies – Export Potential

UNIT IV: Challenges of Small Business

Problems of Small Business – Sickness – Reasons and Remedies – Creativity and Innovation – Opportunities – SWOT analysis – Product and Process Protection – Measures

Unit V: Branding and Crisis Management

Patents – Trade Marks – Copy Rights – Managing Growth and Transition - Crisis Management – Time Management and Quality Management

Text Books
Vasanth Desai (2006) Dynamics of Entrepreneurial Development and Management, Himalaya Publishing House, New Delhi.
Suri, K.B. (2006) Small-Scale Enterprises in industrial Development: The Indian Experience, SAGE publications, New Delhi.

References
David, Holt (2008), Entrepreneurship, New Venture Creation, Prentice Hall, New Delhi.
David Campbell and Tom Craig, (2011), Organizations and the Business Environment (Second Edition)
Peter J. Buckley, Peter Ender wick, Adam R. Cross, (2018), International Business, Prentice Hall, New Delhi
Paul**,** (2006), **'**Business Environment', Tata McGraw-Hill, New Delhi