

**Ch. CHARAN SINGH UNIVERSITY, MEERUT**  
**DEPARTMENT OF ECONOMICS**  
**DETAILED SYLLABI**

**M. PHIL.**

There shall be 4 papers spread over the two semesters. In addition, there will be a non-credit course on Computer Application in Economic Analysis.

**First Semester**

Paper I – SELECTED TOPICS IN MICRO ECONOMIC THEORY.

Paper II- SELECTED TOPICS IN MACRO ECONOMIC THEORY.

**Second Semester**

Paper III- RESEARCH METHODOLOGY.

Paper IV- SELECTED ISSUES IN THE INDIAN ECONOMY.

Non Credit Course – Computer Application in Economic Analysis. (marks not to be added)

In addition to the course work, the students will have to write a dissertation which may become the basis for further research leading to Ph.D. degree, if approved by the relevant committee.

## M. PHIL. I SEMESTER

### PAPER I: SELECTED TOPICS IN MICRO ECONOMIC THEORY.

#### PREAMBLE

The objective of this course is to equip the student with the Post-Marshallian developments in micro economic theory. i.e. theories of consumer behaviour, non-profit maximizing models of the firm and the economics of incomplete information.

**UNIT 1:** Demand Analysis –Revision of demand theory by Hicks; Characteristics of goods approach; consumer’s choice involving risk; Indirect utility functions (duality theory); Recent developments in demand analysis (pragmatic approach and linear expenditure systems). (10 Lectures)

**UNIT 2:** Alternative Theories of the Firm-Critical evaluation of marginal analysis; Baumol’s sales revenue maximization model; Williamson’s model of managerial discretion; Marris model of managerial enterprise; Full cost pricing rule; Bain’s limit pricing theory and its recent developments including Sylos-Labini’s model; Behavioural model of the firm; Game theoretic models. (15 Lectures)

**UNIT 3:** General Equilibrium-Production without consumption-two sector model, relationship between relative commodity and factor prices (Stolper-Samuelson theorem), relationship between output mix and real factor prices, effect of changes in factor supply in closed economy (Rybczynski theorem), production and consumption. (10 Lectures)

**UNIT 4:** Economics of Uncertainty-Individual behavior towards risk, expected utility and certainty equivalence approaches, risk and risk aversion-sensitivity analysis, gambling and insurance, the economics of insurance, cost and risk, risk pooling and risk spreading, mean-variance analysis and portfolio selection, optimal consumption under uncertainty, competitive firm under uncertainty, factor demand under price uncertainty, the economics of search-different models, the efficient market hypothesis, stochastic models of inventory demand; Market with incomplete information, search and transaction costs, the economics of information. (15 Lectures)

#### Basic Reading List :

- |    |                                      |   |
|----|--------------------------------------|---|
| 1  | Baumol, W. J. (1982)                 | Economic theory and Operations Analysis, Prentice Hall of India, New Delhi.                   |
| 2  | Koutsoyannis, A. (1979)              | Modern Microeconomics. (2 <sup>nd</sup> Edition), Macmillan Press, London.                    |
| 3  | Sen, A. (1999)                       | Microeconomics: Theory and Applications. Oxford University Press. New Delhi.                  |
| 4  | Stigler, G. (1996)                   | Theory of Price, (4 <sup>th</sup> Edition), Prentice Hall of India, New Delhi.                |
| 5  | Healthfields and Wibe (1987)         | An Introduction to Cost and Production Functions, Macmillan, London.                          |
| 6  | Da Costa, G. C. (1980)               | Production, Prices and Distribution, Tata McGraw Hill, New Delhi.                             |
| 7  | Archibald, G. C. (Ed.) (1971)        | Theory of the Firm, Penguin, Harmondsworth.   |
| 8  | Green, H. and V. Walsh (1975)        | Classical and neo-Classical Theories of General Equilibrium, Oxford University Press, London. |
| 9  | Hirshleifer, J. and A. Glazer (1997) | Price Theory and Applications, Prentice Hall of India, New Delhi.                             |
| 10 | Walter Nicholson (1992)              | Microeconomic Theory, D. Dryden Press U.S.A.  |
| 11 | Choudhary, Kalyanjit Roy (1999)      | Modern Micro Economic Theory, Pragati Publication Delhi.                                      |

#### Additional Reading List:

- |   |  |  |
|---|--|--|
| 1 | Henderson. J. M. and R. E. Quandt (1980) | Microeconomic Theory: A Mathematical Approach R.E. McGraw Hill, New Delhi. |
|---|--|--|

- 2 Bain, J. (1958) Barriers to New competition Harvard University Press, Harvard.
- 3 Weintrub, E. R. (1974) General Equilibrium theory, Macmillan, London.
- 4 Arrow, K. J. and M. D. Intrilligator (Eds.) (1981) Handbook of Mathematical Economics, Vol. I, North Holland, Amsterdam.
- 5 Diamond and Rothschild (Eds.) (1978) Uncertainty in Economics, Academic Press, New York

## M. PHIL. I SEMESTER

### PAPER II: SELECTED TOPICS IN MACRO ECONOMIC THEORY.

#### PREAMBLE

This paper is designed to update understanding of macroeconomics theoretical structure. The concept of rational expectations and its application along with policy implications of new classical approach are included in this paper.

**UNIT 1 :** Comparative Statics in a Closed Economy:

- (i) The IS-LM Model: The Interaction of the Real and Monetary Sectors: The Keynesian Version, the Neo-classical Version, Comparative Static Analysis: The Keynesian Model: The Neo-classical Model.
- (ii) Relative efficiency of Fiscal and Monetary Policies in an IS-LM Model-The Crowding-out Effect.
- (iii) Unemployment and the Labour Market, the Neo-classical Labour Market Equilibrium, Keynesian Unemployment.

(15 Lectures)

**UNIT 2 :** Supply of Money: Different approaches to the supply of money-Redcliffe committee approach, approach of Gurley and Shaw, R.B.I's. approach to money supply.

(7 Lectures)

**UNIT 3 :** Macro-economic Policy: Rational expectations and the theory of macro economic policy (Lucas, Sargent and Wallace), Mundell-Fleming model-Asset markets, expectations and exchange rates; Monetary approach to balance of payments.

(15 Lectures)

**UNIT 4 :** Theory of Inflation-Structuralist theory of inflation; Phillips curve analysis-Short run and long run Phillips curve; Samuelson and Solow-the natural rate of unemployment hypothesis, Tobin's modified Phillips curve; Policies to control inflation.

(10 Lectures)

**UNIT 5 :** Business Cycles-Theories of Schumpeter, Kaldor, Samuelson and Hicks model; Control of business cycles-relative efficacy of monetary and fiscal policies.

(10 Lectures)

**UNIT 6 :** New Classical Macroeconomics-The new classical critique of micro foundations, the new classical approach; Policy implications of new classical approach-empirical evidence.

(8 Lectures)

**Basic Reading List :**

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|----|-------------------------------------|--|
| 1  | Dornbusch, R. and F. Stanley (1997) | Macroeconomics. McGraw Hill, Inc. New York   |
| 2  | Shapiro, E. (1996)                  | Macroeconomic Analysis, Galgotia Publications, New Delhi.                                  |
| 3  | Friedman, M. (1957)                 | The Theory of Consumption Function, Princeton University Press, Princeton.                 |
| 4  | Keynes, J. M. (1936)                | The General Theory of Employment, Interest and Money, Macmillan, London.                   |
| 5  | Friedman, M. (1956)                 | Studies in the Quantity Theory of Money, The University of Chicago Press, Chicago.         |
| 6  | Ackley, G. (1978)                   | Macroeconomics: Theory and Policy, Macmillan, New York.                                    |
| 7  | Hall, R. E. and J. B. Taylor (1986) | Macroeconomics, W. W. Norton, New York.  |
| 8  | Surrey, M. J. C. (Ed.) (1976)       | Macroeconomic Themes. Oxford University Press, Oxford.                                     |
| 9  | Rao, V. K. R. V. (1983)             | India's National Income: 1950 to 1980, Sage Publications, New Delhi.                       |
| 10 | Rakshit, M. (1998)                  | Studies in the Macroeconomics of Developing Countries, Oxford University Press, New Delhi. |
| 11 | Hicks, J. R. (1974)                 | The Crisis in Keynesian Economics, Oxford University Press, New Delhi.                     |
| 12 | Gordon, R.A. (1961)                 | Business Fluctuations, Harper and Row.   |
| 13 | Hicks, J. R. (1950)                 | A Contribution to the Theory of Trade Cycles, Clarendon                                    |

- 14 Sheffrin, S.M. (1996) Press, Oxford.  
Rational Expectation, Cambridge University Press, Cambridge.
- 15 N. Gregory Mankiw (2008) Macroeconomics, Worth Publisher, New York.
- Additional Reading List :**
- 1 Duesenberry. J. S. (1949) Income, Saving and the Theory of Consumer Behaviour, Harvard University Press, Harvard.
- 2 Heijdra, B. J. and V. P. Fredericck (2001) Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.
- 3 Powelson, J. P. (1960) National Income and Flow of Funds Analysis, McGraw Hill, New York.
- 4 Ruggles, R. and N. Ruggles (1956) National Income Accounts and Income Analysis, McGraw Hill, New York.
- 5 United Nations (1974) Year Book of National Account Statistics.
- 6 Turnovsky, S. J. (1977) Macroeconomic Analysis and Stabilization Policy, Cambridge University Press, Cambridge.
- 7 Rosalind Levacic & Alexander Rebmann (2007) Micro Economics: An Introduction to Keynesian-Neoclassical Controversies, Macmillan, India
- 8 Richard T. Froyen (2008) Micro-economics: Theories and Policies, Pearson Education, India.

## M. PHIL. II SEMESTER

### PAPER III : RESEARCH METHODOLOGY

#### PREAMBLE

This paper is designed to make the student well conversant with entire process of research work. The main aim is to clarify concepts like research designs, formulations of a research proposal and to equip the student with appropriate tools for correct interpretation.

- UNIT 1 :** Meaning and Significance of Social Research. Difficulties in Social Research. Difference between Social Research and Research in Physical Sciences, Scientific Methods. (5 Lectures)
- UNIT 2 :** Research design and research process. (5 Lectures)
- UNIT 3 :** Formulation of a Research Proposal. (4 Lectures)
- UNIT 4 :** Data collection: Nature of data (primary & secondary data), Methods of primary data collection : observation, interview techniques and questioner, experimentation and surface and Questionnaire & Interview Methods of Collecting Primary Data. (8 Lectures)
- UNIT 5 :** Statistical Inference: Testing of Hypothesis, Concepts of Null and Alternative Hypothesis, Sampling Distribution and Standard Error, Confidence Interval and Level of Significance. Tests of Significance based on z, t, F,  $\chi^2$  ( Chi-square). (10 Lectures)
- UNIT 6 :** Linear Regression Model – Estimation of parameters and tests of their significance. (4 Lectures)
- UNIT 7 :** Data Sources: C.S.O., National Sample Surveys, National Accounts Statistics, Indian Public Finance Statistics, R.B.I. publications, C.M.I.E. data bases, Annual Survey of Industries, Census and other government publications, major International Data Sources. (8 Lectures)
- UNIT 8 :** Interpretation and Report writing. (4 Lectures)

#### Basic Reading List :

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|---|----------------------|--|
| 1 | Lundberg, George A.  | Social Research, Long mans, Green and Co., New York, London            |
| 2 | Karmel and Polasek   | Applied Statistics for Economics                                       |
| 3 | Kumar, Ranjeet       | Research Methodology   |
| 4 | Tandon, B. C.        | Social Research  |
| 5 | Goode & Hatt         | Research Methodology   |
| 6 | Mishra, R. P.        | Research Methodology   |
| 7 | Ranjeet Kumar (2008) | Research Methodology: A Step by Step Guide for Beginners, Sage, India. |

#### Additional Reading List :

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|---|----------------|--|
| 1 | Young, P.V.    | Scientific Social Surveys and Research |
| 2 | Gujrati, D. N. | Basic Econometrics                     |
| 3 | Best, J. W.    | Research in Education                  |

## M. PHIL. II SEMESTER

### PAPER IV: SELECTED ISSUES IN THE INDIAN ECONOMY PREAMBLE

This main objective of this paper is to include discussion on various exogenous and endogenous factors responsible for India's economic reforms. In the competitive global era different sectors of economy interact to perform for sustainable coexistence.

- UNIT 1 :** India's Economic Reforms. (5 Lectures)  
**UNIT 2 :** Growth, Sectoral Composition, Poverty and Unemployment. (5 Lectures)  
**UNIT 3 :** Agricultural Development: Technological change, Price Policy & Land Reforms. (5 Lectures)  
**UNIT 4 :** Industrial Development; its different phases. (7 Lectures)  
**UNIT 5 :** Intellectual Property Rights TRIPs and their implications. (5 Lectures)  
**UNIT 6 :** Foreign Trade, Trade Policies and Balance of Payments. (7 Lectures)  
**UNIT 7 :** Foreign Direct Investment. (5 Lectures)  
**UNIT 8 :** Fiscal Policy and Fiscal Reforms. (6 Lectures)  
**UNIT 9 :** Indian financial system. (4 Lectures)

#### Basic Reading List :

- 1 Ahluwalia, I. J. and I.M.D. Little (Eds.) India's Economic Reforms and Development
- 2 Bawa, R. S. and P.S. Raikhy (Ed.) Structural Changes in Indian Economy
- 3 Chakravarty S. Development Planning: The Indian Experience.
- 4 Dantwala, M. L. Dilemmas of Growth: The Indian Experience
- 5 Byres, T. J. (Ed.) The Indian Economy: Major Debates Since Independence
- 6 Ahluwalia, I. J. Industrial Growth in India
- 7 Rangarajan, C. Indian Economy: Essays on Money and Finance
- 8 Gupta, S. P. Post-Reform India: Emerging Trends

#### Additional Reading List :

- 1 Brahmananda, P. R.. and V. R Panchmukhi (Eds.) Development Experience in the Indian Economy.
- 2 Jalan, B. India's Economic Policy-Preparing for the Twenty First Century
- 3 Chelliah, Raja J. and R. Sudarshan Income, Poverty and Beyond: Human Development in India
- 4 Alternative Economics Survey (Annual Issue), Daanish Books, New Delhi.

## M. PHIL. II SEMESTER

### Non-Credit Course : COMPUTER APPLICATION IN ECONOMIC ANALYSIS

[Non-credit qualifying paper. (marks not to be added but minimum 40% marks must be obtained as per university rules. Theory : 25 Marks, Practical : 75 Marks.)]

#### PREAMBLE

The direction towards the knowledge society shall be resting on the application of increasing use of Information Technology. Economics being an empirical science, computers have emerged as the pivotal instruments of economic analysis, research and forecasting. Therefore, the economists must be equipped with computer based skills and tools, which this course provide. This will not only enhance their employability but also prepare them for carrying out quality to research.

**UNIT 1 : Introduction to Computers and Peripherals :** Basic components of computer—CPU, input-output devices, keyboard, mouse and scanner, video display, printers and plotters, data storage and retrieval, hard disk, floppy and CD ROM; Types of computers and their applications; Computer networking and resource sharing, hardware, software and firmware.

(12 Lectures)

**UNIT 2 : Data Processing, Techniques and Algorithms :** Concept of data, record and file; Types of data and data structures, data analysis; File handling and operations like opening, appending and cascading, closing and attribute control; Data storage and retrieval; Data operations.

(12 Lectures)

**UNIT 3 : Statistical Processing Techniques and Methods :** Entering & tabulating data in MS Excel and other softwares such as SPSS, Minitab, Systat etc. Use of software packages in analyzing data, obtaining results and presenting them in meaningful and interpretable forms. The application must include use of the softwares for time and frequency series, regression methods and techniques; Regression analysis; Data validation; Trends and cyclicity forecasting; System modeling and description; System equation; Specification; Error and correction strategies, Statistical modeling and descriptive statistics; Distribution functions; Regression statistics.

(22 Lectures)

#### Basic Reading List :

1. Sanders, D.H. (1988) Computers Today, McGraw Hill (3<sup>rd</sup> Edition), New York.
2. Sinha, P.K. (1992) Computer Fundamentals, BPB Publications, New Delhi.
3. Rajaraman, V.(1996) Fundamentals of Computers, Prentice Hall of India, New Delhi.
4. Lipschultz, M.M. and S.Lipschultz (1982) Theory and Problems of Data Processing, Schum's Outline Series, McGraw Hill, New York.
5. Mirsky, L. (1955) Introduction to Linear Algebra, Oxford University Press.

#### Additional Reading List :

1. Levin, R.I. and C.A. Kirkpatrick (1975) Quantitative Approaches to Management (3<sup>rd</sup> Edition), McGraw Hill.
2. Ingtrilligator, M.D. (1978) Econometric Models, Techniques and Applications, Prentice Hall, Englewood Cliffs, NJ.
3. Wood, M.B. (1983) Introducing Computer Security, Broadman Associates, Delhi.