



**MOTHERHOOD**  
**UNIVERSITY, Roorkee**  
ENLIGHTENING WORLD

**Doctor of Philosophy (Ph.D.)**  
**COURSE WORK SYLLABUS**

**FACULTY OF ARTS, HUMANITIES & SOCIAL SCIENCES**  
**(ECONOMICS)**

**Implemented from June, 2017 onwards**

**Roorkee-Dehradun Road, Village Karoundi**  
**Post Bhagwanpur, Tehsil Roorkee**  
**District Haridwar, Uttarakhand**

## Compulsory Course - I

### PAPER I- Research Methodology and Computer Applications

#### Section I: Research Methodology

**Max. Marks: 100**

((60 hrs) 6 Credits) (70 External+30 Internal)

#### Objective:

- To enable to student to understand and work methods and concepts related Research.
- To enable the student to develop research proposal and to work with research problem.
- To develop broad comprehension of research area.

#### UNIT –I : Concept of Research

**10 hrs (20 Marks)**

Meaning, Concept, nature steps types and characteristics of research., Types and approaches , Ethics in Research and Plagiarism, Scientific Inquiry, Philosophical and Sociological foundations of research, Interdisciplinary approach and its implications in various research area.

#### Unit II: Types and Methods of Research

**10 hrs (20 Marks)**

Qualitative and quantitative methods of research like Descriptive, Historical, Case study, Ethnography, Ex-post facto, documentary and content analysis, survey field and laboratory experimental studies. Characteristics of methods and their implications in research area.

#### Unit III: Development of research proposals

**10 hrs (20 Marks)**

Research proposal and its elements, Formulation of research problem-criteria of sources and definition, Development of objectives and characteristics of objectives, Development of hypothesis and applications.

Writing a Research Paper, Choosing a Topic, Preparing a Working Bibliography, Outlining and need to write a Research Paper

#### Unit IV: Methods of data collection & data analysis

**10 hrs (20 Marks)**

Concept of sampling and other concepts related to sampling. Probability and non-probability samples, their characteristics and implications. Tools of data collections, their types, attributes and uses. Redesigning, research tools-like questionnaire, observation, interviews, scales and tests etc.

Analysis of qualitative data based on various tools. Analysis of quantitative data and its presentation with tables, graphs etc. Statistical tools and techniques of data analysis-measures of central tendency, dispersion. Decision making with hypothesis testing through parametric and non-parametric tests.

Validity and delimitations of research findings.

## Section II: Computer Applications

### Unit V:

20 hrs (20 Marks)

Basic Knowledge of Computer, Use of Internet for Research Purpose: E-mail, WWW, Web browsing, acquiring technical skills, drawing inferences from data, Use of technology and other equipment in Research, Research publishing tool-MS Word, Adobe acrobat, Graphics tool-MS Excel, Presentation tool-MS Power, Data Analysis Software and Analysis Techniques point. Application of Internet in research : INFLIBNET, Use of Internet, sights (DOAJ), Use of E Journals, Use of E library, use of EBSCO HOST online database of Academic Libraries.

### References:

- Best, J.W. (1995) & Kahan, J.V. – Research Education, Prentice Hall of India Pvt. Ltd., New Delhi.
- Edwards, A.L. (1960) – Experimental Design in Psychological Research, New York, Holts (revised Ed.).
- Ferguson, G.A. and Takane Yoshio (1989) – Statistical Analysis in Psychology and Education.
- Garrett, H.E. (1986) – Statistics in Psychology and Education, Vikils Feffers and Simmons Pvt. Ltd.
- Kaul Lokesh (1984) – Methodology of Educational Research, Vikas Publishing House Pvt. Ltd., New Delhi.
- Sukhiya, S. P. : Melhotra P.V., Elements of Educational Research, New Delhi, Allied Publishers.
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- Lindquist, E.F. (1960) – Elementary Statistical Methods in Psychology and Education, Oxford Book Company, New Delhi.
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- Sanders, D.H., Computer Today, NY: McGraw Hill, 1981
- Sinha, P.K., Computer Fundamentals, New Delhi: BPB Publications, 1992
- Cox, J. And Urban, P. “Quick Course in Microsoft Office. Galgotia Publications, New Delhi, 1990.
- Jain, Satish: “Introduction to Computer Science and basic Programming.” BPB Publications, New Delhi, 1990.
- Rajaraman, V., “Fundamental of Computers”, Prentice Hall of India, New Delhi, 1996.
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**COURSE WORK SYLLABUS  
CORE PAPER –II  
ECONOMICS**

**Total Hours 60( 6 Credits)**

**Max. Marks 100**

**Unit 1: Micro and Macro Economics**

- Consumer Demand Theory: Choice under Certainty and Uncertainty
- Theory of Production and Cost
- Inflation and Unemployment in the Closed and Open Economy
- Macro policy options

**Unit 2: International Trade, International Finance, Corporate Finance**

- Modern theory of trade and trade Policy,
- Intra-Industry Trade, Free Trade versus Protection, Analysis of gains from free trade.
- Theories of Balance of Payment and exchange rate determination
- Policy Conflicts and Adjustment under Fixed and Flexible Exchange Rates
- Modern Investment Theory
- Financial Derivatives

**Unit 3: Development and Growth Theory**

- Theories of under-development
- Classical Growth Models
- Endogenous Growth Models
- Sustainable Development

**Unit 4: Economic Issues and Policy-I**

- Planning and Economic Reforms
- Financing of Infrastructure Development, Education Sector,
- PSUs, Privatization and Disinvestment,
- Fiscal and Monetary Policy Approaches
- Tax Reforms, Central Government Finances
- Financial Sector Reforms, Money and Capital market.
- Foreign Trade Liberalization, Balance of Payments, Exchange Rate
- World Trade Organization (WTO) and Indian Competition Policy.

**Unit 5: Economic Issues and Policy-II**

- Poverty, Income Distribution and Justice
- Migration and Demographic Transition
- Land Reforms in India and their impact on Agrarian Structure
- The New Economic Policy and Indian Agriculture
- Nature and Problems of Rural Development in India
- Indian Industry and Structural Changes
- Rural industrialization and strategies
- Rural poverty alleviation and employment programmes

## References:

- Chiang AC. 1981. Fundamental Methods of Mathematical Economics. McGraw-Hill.
- Henderson JM & Quandt RE. Microeconomic Theory: A Mathematical Approach. McGraw-Hill.
- Koutsoyiannis A. 2003. Modern Microeconomics. The Macmillan Press.
- Kreps DM. 1990. A Course in Microeconomic Theory. Princeton Univ. Press.
- Silberberg E & Suen W. 2001. The Structure of Economics - A Mathematical Analysis. McGraw-Hill.
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