

RESEARCH METHODOLOGY

Total Lectures Required –25

Total Tutorials Required - 5

Course Objectives:

At the end of the course students will be able to conceive and execute research in an efficient manner.

Learning outcomes:

At the end of the course, the student will be able to-

- Know about the research process
- Have knowledge about the scaling and measurement techniques used in the questionnaire
- Apply the statistical tools in the analysis of the research

Module 1	Concept of Research and Research Process	5 Lectures
TOPICS		
1	Meaning and definitions of Research, Relevance and significance of research. Why there is need to do research?	1
2	Types of Research	2
2	Process in research report writing and dissemination of research findings.	2
Module 2 Research Problem and Research Design 5 Lectures		
TOPICS		
1	Reviewing of Literature	1
2	Importance and steps in formulating a research problem	1
3	Formulation of research objectives	1
4	Identifying variables and formulating hypothesis	1
5	Nature and classification of research design	1
Module 3 Data Collection Methods 4 Lectures		
TOPICS		
1	Primary Data Collection Methods- Questionnaire, Schedule, Interview, Observation	2
2	Secondary Data Collection Methods- Journals, Government Reports, etc.	1
3	Selection of appropriate data collection method	1
Module 4 Scaling Techniques and Sampling Methods 4 Lectures		
TOPICS		
1	Measurement Techniques- Role of measurement in research,	1

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Pre- Ph.D Coursework Syllabus

	Types of measurement scales, Sources of error in measurement	
2	Classification of scales – Rating Scales – Attitude Scales – Likert scale	1
3	Sample and Population	1
4	Types of Sampling: Probability and Non-Probability Sampling techniques	1
Module 5 Applications of Statistical Tools in Research 7 Lectures		
TOPICS		
1	Measures of Central tendency and Dispersion	2
2	Correlation and regression	2
3	Simple statistical applications such as Z, t, F and ANOVA.	3

Text Book:

- Kumar, Ranjit (2013), *Research Methodology: A Step by Step guide for Beginners*, Sage Publications Ltd.

Reference Books:

- Goodde and Hatte. *Methods in Social Research*, New York:McGraw –Hill, 1952
- Gopal, M. H. *An Introduction to Research Procedures in Social Sciences*, Bombay: Asia Publishing House, 1970
- Henn, Matt; Mark Weinstein and Nick Foard, *A Short Introduction to Social Research*, New Delhi : Vistaar Publications, 2006
- Krishnaswami, O.R. *Research Methodology in Social Sciences*, Delhi: Himalaya Publications, 2000
- Kumar, Renjith, *Research Methodology: A Step by Step Guide for Research*, Delhi: Pearson Education, 2009
- *MLA Style Sheet*, Latest Edition

Reminder Date

ARKA JAIN University, Jharkhand

Syllabus of Pre - Ph.D Course Work

Computer Applications

Total Hours : 30

UNIT I: COMPUTER FUNDAMENTALS

Lectures - 5

Introduction and need of Computers, Computer memory, computer generations, Basic computer organization; System software, Application software.

Operating system – DOS, Windows, UNIX, Linux. Basics of Windows, User Interface, File Management, File Transfer (ftp, WSftp). Difference between presentation and document. Application of computer for business and research

UNIT II: DATA COMMUNICATION AND NETWORKS

Lectures - 5

Data communication concepts, local area network, wide area network, internet, intranet, extranet, website. E-mail, search engines-enterprise E-communication and E-collaboration

UNIT III: USING INTERNET FOR RESEARCH

Lectures - 7

The Internet: Introduction, Use of Internet, major internet services. WORLD WIDE WEB, e-Mail, File Sharing, Blogging, Web Feeds, IP, DNS, ICANN. Downloading super tools for better computing Internet and the society, Use of E-Journals, Use of E-library, searching the keyword search engines, News and multimedia, governments, archives and statistics.

INFLIBNET - SOUL, UGC-Infonet, OJAS, Shodhganga, Shodhgangotri,

e-PG PATHSHALA.

Arvind Pandey

UNIT IV: INTRODUCTION TO RESEARCH RELATED SOFTWARES

Lectures - 7

Introduction to Data analysis software-SPSS: Definition, objectives and features, data analysis using SPSS: Data entry creating variables, switching to data labels, data analysis: Frequencies, recording into different variables, cross tabulations and layers. Core calculation software, developing utility programs for research, Introduction to C programming. Other Data Analysis softwares - DataMelt, MATLAB, SCILAB, Maple.

UNIT V: TOOLS AND UTILITIES RELATED WITH RESEARCH

Lectures - 6

MS-Office and its application, Research publishing tool - Microsoft Word, Adobe Acrobat, Graphics tool - Microsoft Excel, Microsoft Power Point: Creating presentations and adding effects

Recommended Books:

1. P.K Sinha, Computer Fundamentals, BPB Publications, 1992.
2. Guy Hart-Davis, The ABCs of Microsoft Office 97 Professional edition, BPB Publications, 1998.
3. Karl Schwartz, Microsoft Windows 98 Training Guide, 1998.

Arunel Panday

PhD Course work

Economics

50 lectures

MODULE I

Research Methods in Economics 9 lectures

- I. Nature of Inquiry and Truth: Ontology and Epistemology of Economic Events. Methodological Approaches of Economics: Individualism, Socialism and Existentialism (Schumpeter, Weber, Hayek, Popper, Elester), the Methodology of Positive Economics, - 2 lectures
- II. Approaches to Research: Descriptive vs. Analytical, Applied vs. Fundamental, Quantitative vs. Qualitative, Conceptual vs. Empirical. The Time Consideration: Historical, Experimental and Ex Post Facto. 2 lectures
- III. The Scientific Method: Positivism and Post Positivism, Introduction to Indian System of Logic and Method of Knowing Things, Empiricism, Nature of Reality. 2 lectures
- V. Qualitative Research: The Contextual Understanding, Multiple Sources of Influences and Data, Role of Researcher as primary Tool for Data, 1 lecture
- VI. Action Research and Innovative Methods: The participatory research, Cooperative Enquiry, Participatory Action Research, Emancipatory Action Research 2 lectures

Module II

Issues in Social Sector

12 lectures

Social Sector – Social Exclusion & Inclusion, Social Development Index , Human Resource Development & Human Development , Measurement of Various Forms of Human Development 3lectures

Economics of Education : Formal and Non-Formal Education , Education for All in India : Primary Education, Quality concerns in Elementary education. Education of Urban and Rural Disadvantaged Children, Education among SC's & ST's. Decentralization of Education. Contribution of NGOs in Basic education. Union

B. Park

and State Governments – Special Programmes for Education, Educational Financing: Financing of Elementary, Secondary & Higher Education in India.

5 lectures

Economics of Health : Role of State in Health, Role of Central Govt .& State Govts. Economic Growth, Poverty and Health. Communicable and Non-Communicable Diseases. Maternal and Child Survival. HIV / AIDS in India. Health Finance. Drug Policy and Regulation. Indian Systems of Medicine.
4 lectures

Module III

Issues in Public Policy

5 lectures

Social Sector Policies : Policy Framework in Five-Year Plans – Plans & Progress, Economic Reforms and Social Sectors, Typology of Economic Growth and Human Development in Indian States – Trends and Disparities in Social Sector Development , Role of Public and Private Sectors , Financing of Social Sectors, Limitations of Policy, Social Security – Special Policy Issues. 5 lectures

Module IV

Applied Environmental Economics

10 lectures

- I. Consumer Welfare Measurement in Environmental Economics Framework
- i. Consumer demand theory: Utility maximization
 - ii. Measuring changes in the well being of consumers; consumer surplus,
 - iii. Public goods and welfare change
 - iv. General equilibrium considerations
 - v. The Quest for Sustainable Development:

Module VI

Globalisation and Its Challenges

14 Lectures

P. Parth -

Understanding Globalisation: Historical development of Capitalism and the idea of free market. 5 lectures

Poverty, Inequality and Unemployment: Trends and patterns in post reform period, Issues in measurement and measuring techniques, interrelationship with globalisation. 2 lectures

Trade: Trade liberalisation and its effect, WTO and new patent regime, Inclusive Growth: 2 lectures

Rural Economy: Crisis in agriculture vs. agrarian crisis, Diagnosis of Agrarian Crisis in India, Crisis in livelihood in India, Rural non-farm sector. 5 lectures

Reading List:

- Arvind (2002): "Globalisation an Attack on India's Sovereignty" New Vistas Publication, New Delhi.
- Bhaduri Amit (2006): "Employment and Development; Essays from an Unorthodox Perspective", Oxford University Press.
- Chandrasekhar CP and Ghosh Jayati (2002): "The Market that Failed" Left Word Books, New Delhi.
- Hejindra, B.J. and F.V. Ploeg (2001), Foundations of Modern Macroeconomics, Oxford University Press, Oxford.
- Blanchard Olivier & Fischer Stanley. Lectures on Macroeconomics. Cambridge: MIT Press
- Frisch, H: Theories of Inflation, Cambridge University Press
- Salvatore, Dominick, International Economics, John Wiley
- K.Seeta Prabhu(2001): Economic Reform and Social Sector Development,(N. Delhi: Sage Publications)
- K.Seeta Prabhu & R. Sudarshan(2002):Reforming India's Social Sector,(N. Delhi: Social Science Press)

R. Parth

- Parikh, K.S.(1999):India Development Report(1999-2000),(N. Delhi: Oxford University Press)
- Parikh, K.S. & Radha Krishna,R.(2005): India Development Report(2004-05),(N. Delhi: Oxford University Press
- Kundu, Amitabh(2006): India Social Development Report,(N. Delhi: Oxford University Press)
- R. Govinda(2002): India Education Report,(N. Delhi: Oxford University Press)
- Misra, Rajiv(2003): India Health Report,(N. Delhi: Oxford University Press)
- Adams, W.M. 1991. Green Development: Environment and Sustainability in the Third World. Routledge Press.
- Anderson, T. and J. Bojo (1992), “ The economic value of forests,” in: A. Agarwal (ed), The Price of Forests, New Delhi, Centre for Science and Environment, pp.32-42.
- Baumol, W. J. and W. E. Oates (1975) The Theory of Environmental Policy: Externalities, Public Goods and the Quality of Life, Englewood Cliffs, Prentice Hall.
- Berry, J. L. and F. E. Horton (1974), Urban Environmental Management, New Jersey, Prentice Hall Inc
- Braden, J. and C .Kolstad (1991). Measuring the Demand for Environmental Quality, Amsterdam, North Holland.

R. Datta