Savitribai Phule Pune University

(Formerly University of Pune)

Syllabus for M.Phil./Ph.D. (PET) Entrance Exam: Commerce

Research Methodology

1. Foundations of Research:

Research: Definition, Objectives of Business Research, Characteristics of good research, Research applications in functional areas of Business,.

Concept of Scientific Enquiry: - Formulation of Research Problem, Research Question, Investigation Question.

Steps in Research Process.

Research Proposal: Elements of a Research Proposal, Drafting a Research Proposal, Evaluating a research proposal.

2. Research Design:

Concept, Features of a good research design.

Qualitative research and Quantitative research approaches, Comparison of both approaches.

Exploratory Research Design: Concept, Types: Qualitative techniques -Projective Techniques, Depth Interview, Experience Survey, Focus Groups, Observation.

Descriptive Research Designs: Concept, types and uses. Concept of Cross-sectional and Longitudinal Research.

Experimental Design: Concept of Cause and effect, Causal relationships, Concept of Independent & Dependent variables, Concomitant variable, Extraneous variable, Treatment, Control group.

Hypothesis: Qualities of a good hypothesis, types of hypotheses, framing Null Hypothesis & Alternative Hypothesis. Concept of Hypothesis Testing.

3. Measurement & Data:

Concept of Measurement: Problems in measurement in research - Validity and Reliability. Levels of measurement - Nominal, Ordinal, Interval, Ratio.

Attitude Scaling Techniques: Concept of Scale, Rating Scales: Likert Scales, Semantic Differential Scales, Constant Sum Scales, Graphic Rating Scales .Ranking Scales: Paired Comparison & Forced Ranking.

Types of Data - Secondary Data: Definition, Sources, Characteristics, Issues to be considered for secondary data, sufficiency, adequacy, reliability, consistency; Data mining, Big data.

Types of Data - Primary Data: Definition, advantages and disadvantages over secondary data,

Data collection Methods: Questionnaire, Schedule, Personal Interviews, Telephonic survey, Email/Internet survey, Focus group study.

4. Sampling:

Basic Concepts: Defining the Universe, Concepts of Statistical Population, Sample, Characteristics of a good sample. Sampling Frame, Sampling errors, Non Sampling errors, Methods to reduce the errors.

Probability Sample: Simple Random Sample, Systematic Sample, Stratified Random Sample, Area Sampling & Cluster Sampling.

Non Probability Sample: Judgment Sampling, Convenience Sampling, Purposive Sampling, Quota Sampling & Snowballing Sampling methods. Determining size of the sample - considerations in sampling and sample size.

5. Data Analysis and Interpretation & Report Writing:

Data Analysis: Editing, Coding, Univariate analysis – Tabular representation of data, frequency tables, Construction of frequency distributions and their analysis in the form of measures of central tendency ,Mean, Median and Mode; their relative merits and demerits.

Graphical Representation of Data: Appropriate Usage of Bar charts, Pie charts, Histogram, Leaf and stem, Candle stick, Box plots.

Bivariate Analysis: Cross tabulations, Use of percentages, Bivariate Correlation Analysis - meaning & types of correlation, .Karl Pearson's coefficient of correlation and Spearman's Rank Correlation: Scatter plots, Chi-square test including testing hypothesis of association, association of attributes.

Linear Regression Analysis: Meaning and two lines of regression; relationship between correlation and regression co-efficient.

Test of Significance: Small sample tests: t (Mean, proportion) and F tests, Z test, Non parametric tests: Binomial test of proportion, Randomness test; Analysis of Variance: One way and two way Classifications.

Research Report: Research Ethics, Structure of Research report, Report writing and Presentation. Referencing styles and citation.

Subject Concerned Syllabus Commerce

1. Business Administration-

- Principles of Management
- Functions of management: Planning, Organizing, Staffing, controlling, Communication, Leadership, Motivation
- Corporate Governance
- Corporate Social Responsibilities

2. Marketing -

- Marketing Task, Concept, Tools
- Marketing Environment
- Consumer Behaviour and Market Segmentation
- Product and Pricing Decisions
- Direct and Online Marketing

3. Business Environment-

- Legal, Political and Economic Environment
- > E-Commerce
- > E-Governance
- Corporate Governance
- Social Responsibilities of Business
- Public and Private Partnership (PPP)
- Knowledge Management

4. Accountancy-

- Accounting Concepts
- Accounting Conventions
- > Financial Statements
- Accounts of Non Trading Concerns
- Company Accounts Issue of Shares
- Management Accounting Ratio Analysis
- ➤ Income Tax Concepts, Computation and Tax Planning by individuals

5. Cost and Works Accounting -

- Elements of Cost
- Classification of Cost
- Cost Unit
- Cost Centre
- Methods of Costing
- Techniques of Costing
- Cost Audit

6. Indian Companies Act-

- > Formation and Incorporation of Companies
- Memorandum of Association
- Articles of Association
- Prospectus
- Consumer Protection Act
- Negotiable instrument Act
- > Sale of Goods Act

7. Insurance and Transport-

Insurance

- > Introduction
- > Types of Insurance
- Principles
- Actuarial
- ➤ Role of IRDA

Transport-

- > Transport
- > Transport system in India
- Documentation in Transit and Transport
- ➤ Role of Transport in Indian Economic Growth

8. Business Economics-

- Nature and uses of Business Economics
- Concept of Profit and Wealth Maximisation
- Demand Analysis
- > Elasticity of Demand
- Curve Analysis

- Law of Demand
- Cost Revenue
- Price
- > Determination in Different Market Situation
- Pricing Strategy

9. Banking-

- > Importance of Banking to Business
- > Types of Banks and their functions
- > Role and functions of RBI

10. Co-operation and Rural Development

Co-operation

- ➤ Concept and Principles of Co-operation
- > Co-operative Credit System
- ➤ Co-operative Banks

Rural Development

- > Rural Devolvement
- > Concepts and Approaches
- ➤ Role of Govt. agencies in Rural Development