

## Ph.D. (Doctor of Philosophy)

The Ph.D Programme is based on course work and research. The prospective candidate is required to fulfill the terms and conditions indicated in Rules and Regulations for Ph.D. Programme, effective from 23/03/2015, by Sardar Patel University.

{[www.spuvvn.edu](http://www.spuvvn.edu) (Academic programme-Ph.D.)} The student is also required to submit a research proposal before the Departmental Research Committee which takes decision about admitting the student to the course.

### **Course work for Ph.D. Students in Economics**

#### **Paper 1: Research Methodology (3 Credits)**

UNIT- 1.

Meaning and significance of Research- Definition, Characteristics, Classification; Significance and types of social Research- Limitations of and difficulties in social science research

UNIT- 2.

Selection of a Research Problem, Precautions to be undertaken, Formulation of a research Problem, Objectives of a research study-Definition, formulation and role Hypothesis in the research study, Definitions and Indicators

UNIT- 3.

Stages involved in research, Data collection-sources of data, Primary and secondary data, Sampling technique- Types of sample, size of sample, Pilot study, Processing of data, report writing

#### **References:**

- (1) Kothari C.R. (2009), "Research Methodology- Methods and Techniques", New Age International Publishers, New Delhi
- (2) Verma R. K. & Verma G. (1989), "Research Methodology", Commonwealth Publishers, New Delhi
- (3) Raiyani J. R. (2012), "Research Methodology- Theory and Techniques", New Century Publications, Delhi

## **Paper 2: Quantitative Techniques and Computer applications in Economics (3 Credits)**

### UNIT 1

Quantitative Techniques-Use of quantitative techniques in research, Measures of Central tendency, Dispersion, Correlation, Regression

### UNIT-2

Collection of Global Information- Internet surfing, downloading, Use of web tools

### UNIT-3

Computer application for research –word processing, spread sheet, data processing, graphical presentation, use of analytical tools

### **References:**

- (1) Kothari C.R. (2009), “Research Methodology- Methods and Techniques”, New Age International Publishers, New Delhi
- (2) Joshi K. (1984), “ Econometrics”, Viral Prakashan, Ahmedabad
- (3) Gupta V. (2007), “ Comdex Computer Course Kit” Comdex
- (4) Rajaraman (2003), “Fundamentals of Computers”, PHI Publication, New Delhi

## **Paper 3: Review of literature (3 Credits)**

The research student is required to prepare a write up on review of literature (about 10 books and about 20 articles) in the area of his/her Ph.D. research work. Along with this the student would have to submit a detailed research outline relating to the research work.