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Connecting Body Despishkha Kala Sansthan Reg. No. 307 / 76-77

Pre-PhD course work SYLLABUS

		D. I. D. L. L. L. L. C. C.			
Paper-I	Research	Credits - 04	Marks -100	Examination Duration: 3 hrs	
	Methodology				

UNIT - I INTRODUCTION

(14 hrs.)

Meaning of research, objectives of research, motivations in research, types of research, research approaches, significance of research, research methods v/s methodology, research and scientific methods, research process, criteria of good research, interdisciplinary approach and its implications in various research area. What is research problem? selecting the problem, necessity of and techniques in defining the problem

UNIT-II DATA COLLECTION

(14 hrs.)

Collection of primary data, observation method, interview method, collection of data through questionnaire and schedules, other methods. collection of secondary data, selection of appropriate method for data collection (quantitative methods & qualitative methods), case study method, experimental methods, guidelines for developing questionnaire, successful interviewing. Survey v/s experiment, laboratory experimental studies, content analysis, tools of data collections: their types, attributes and uses.

UNIT-III SAMPLE DESIGN

(10 hrs.)

Characteristics and types of sample design, concept of sampling and other concepts related to sampling, sampling merits and demerits, techniques of selecting a random sample, experiments, procedure, control observation: merits, demerits, kinds, procedure, sampling errors: Type - i error and Type - ii error. Probability and non-probability amples, their characteristics and implications

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UNIT-IV HYPOTHESIS

(10 hrs.)

Meaning, basic concepts, flow diagram, power of a hypothesis test, important parametric tests, hypothesis testing of means, hypothesis testing of correlation coefficients, limitations of tests of hypothesis.

UNIT -V PROCESSING AND ANALYSIS OF DATA:

(12 hrs.)

Measures of central tendency, dispersion, correlation and regression, one sample test, two sample tests, chi-square test, t-test, f-test, z-test, standard deviation: applications, steps, characteristics, limitations, analysis of variance and co-variance, discriminate analysis, cluster analysis, factor analysis, analysis of qualitative data based on various tools. Analysis of quantitative data and it presentation with tables, graphs etc, estimates of means and proportions. Decision tree- decision making with hypothesis testing through parametric and non parametric tests

REFERENCES

- 1. Wilkinson & Bhandarkar: Methodology and Techniques of Social Research.
- 2. Pauline Vyoung: Scientific Social Surveys and Research.
- 3. Panneerselvam, R., Research Methodology, Prentice Hall Of India, New Delhi, 2004.
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- 5. Festinger, L & D. Katz: Research Methods in Behavioral Science.
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- 7. Kothari, C. R. (2005) Quantitative Technique, New Delhi, Vikas Publication House.
- 8. Gautam, N. C. (2004) Development of Research tools, New Delhi, Shree Publishers.
- 9. Gupta, Santosh (2005) Research Methodology and Statistical Techniques, Deep and Deep Publications.

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Probability for Engineers (Wiley India)

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