

Choice Base Credit System (CBCS)

Pre- Ph.D. Course Work for Home Science

**(Human Development, Clothing & Textile, Food & Nutrition,
Resource Management, Home Science)**

Session 2016-17 & Onwards

COURSE	SUBJECT	MARKS	CREDITS
COURSE 1	RESEARCH METHODOLOGY	100	05
COURSE 2	COMPUTER APPLICATION	50	03
COURSE 3	REVIEW OF PUBLISHED RESEARCH IN THE RELEVANT FIELD	50	03
COURSE 4	COMPRIHENSIVE VIVA	50	04

Total Marks -250

Credit – 15

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Course I Research Methodology

Marks :- 100

Credit:- 05

Objectives:-

1. Understand the meaning process and importance for conducting research in Home Science.
2. To Select Problem tools and methods for conducting research.
3. Understand the role of statistics and computer application in research .
To apply statistical techniques for analyzing research data .
4. Understand importance of scientific writing .

Unit – I

Concept of Research

Meaning ,objectives, need and importance of research. Qualities of a good researcher. Scientific method definition , steps , nature of social phenomena and use of scientific method.

Selection of research problem and defining terms.

Origin of research problem. Evaluation of research problem.

Types and selection of variables.

How to formulate out lines of research proposal.

Unit – II

Use of Library - Finding the correct source of information – use of books periodicals and encyclopedia, research journals, collection and organization of material, use and important of e-library, hypothesis-meaning, types and formulation of hypothesis.

Types of data, devices used in data collection. Pilot Study and pre test of tools. Suitable combination and selection of method for data collection.

Data collection and processing:

- Tables as systematic means of presenting data in rows and column indicating relationship and results. Formatting tables, titles, body, stub, spanner head, Box head.
- Appendices.

Unit – III

Statistical Techniques for analyzing data

- Measures of central tendency - mean median and mode.
- Measures of variation quartile & standard deviation.
- Correlation – Karl Pearson's coefficient of correlation.
- Testing of hypothesis – Errors in testing of hypothesis, levels of significance stating results.

Unit – IV

Test of population mean – small & large Sample

- Chi- Square tests – test of independence of attributes and test of population variances.
- Student's test.
- Critical ratio.
- Analysis of variance one way & two way classification.

Unit – V

The writing Process – Use outline as a starting device.

Introduction , Review of literature, method, results and discussion. Ask question related to content, continuity clarify validity internal consistency and objectivity during writing each of the above parts. Quotation, footnotes, bibliography, standard abbreviations style of writing.

References:

- Apa (1984) Publication manual of American psychological association (3rd edition) Washington APA.
- Cooper H. M. (1990) integration Research a guide for literature review (2nd edition) California: Sage
- Harman E & Montages I (eds) 1997 the thesis and book new Delhi vistaar.

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Course II Computer Application

Marks :- 50

Credit:- 03

UNIT- I

Introduction of Computer: Computer fundamentals scope, block diagram of computer and brief notes of functions of ALU, control unit, CPU, memory system: primary & secondary storage, RAM, ROM.

Types of Input device : keyboard, mouse, scanner.

Types of Output devices: Monitors and it's types, Sound Systems, Printers ,and it's types, Functioning of various types of Printers.

Types of Storage devises. Hard Disk, CD-ROM, DVD-ROM.

UNIT-II

MS-WORD: Word Processing Programmes and their Uses in research work.

Formatting of contents of research report.

Insertion of table, pictures, shapes and graphs .

UNIT- III

MS-Excel:

Statistical analysis of data by using of MS Excel.

Entering Data, Values, Dates, and Formulas in a Worksheet. Editing ,Formatting . Adding Charts and Images to a Worksheet. Conditional formatting, Sorting of data and filter.

Introduction of SPSS:

Tabulation & Graph. Use of statistical techniques and their application.

Classification of data:

Mean, Median, Mode, measures of variability Chi Square, T- Test, Corelation, ANNOVA, b - , regression.

UNIT – IV

Power Point Presentation of data and reports .

Process of creating a presentation, Formatting Slides. Creating Slide Shows Presentation Graphics , Insert Slide No., Text Boxes, Pictures, Table, Slide from Files, Format, Font, Slide Layout, Slide Design, Background, Setting the default settings. Tools, Spellings Slide Show, View Show, Setup Show, Rehearse Timings, Animation Scheme, Custom animations, Custom shows, Slide Transitions, Hide slide, Animation scheme, Custom shows.

UNIT –V

Internet awareness- opening sites, working with home page in different web sites.

Search engines introduction and use in research work.

Email: creating email – id, sending & receiving electronic mail

Surfing on different site.

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Course III

Review of Published research in the Relevant Field

Marks :- 50

Credit:- 03

Guidelines for candidates:-

1. Reviews of publish research work in the relevant field should be of last 10 years.
2. Review of literature should be from recognized journals, books, websites etc.
3. Reviews of literature should be in standard formats.
4. Reviews of literature should be submitted in A4 size paper typed in 12 font size, Times New Roman font in English and typed in 16 font size Krutidev in Hindi with spiral bind form along with 4 soft and hard copies.
5. Minimum 25 Reviews of Literature are compulsory for the student.

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Course IV

Comprehensive Viva

Marks :- 50

Credit:- 04

The Comprehensive Viva will be based on the work & papers completed during the course work. The question will be from the Course no. 1, Course no. 2 and Course no. 3.

Other condition will be same as revised in light of the University Grant Commission (Minimum standards and Procedure for award of Ph. D. Degree) Regulation 2009 published in the Gazette of India on July, 11, 2009).
