

2/15/19

COURSE WORK IN HOME SCIENCE

Paper - II

Objectives:

1. To acquaint Ph.D. scholars with recent advanced studies in various fields of Home Science
2. To equip Ph.D. scholars with latest knowledge and practices in the field of research to have expertise in the chosen area of specialization

Unit I:

- Thrust areas for research in different branches of Home Science
- Food and Nutrition
- Human Development
- Textile and Clothing
- Family Resource Management
- Extension and Communication Management

Unit II:

- Research plan based on thrust areas
- Formulating research problem
- Review of literature
- Hypothesis formulation
- Selecting research design
- Methods of drawing sample
- Methods of data collection
- Analysis and Interpretation of data

Unit III:

- Statistical approach for Home Science based research
- Measures and application of central tendency
- Probability
- Types of distribution (frequency distribution, normal distribution, probability distribution, and sampling distribution)
- SPSS
- Testing of hypothesis
- Correlations, Coefficient of correlation, Rank correlation
- Regression and prediction
- Applications of t-test, z-test, f-test and chi-square test
- Association of attributes and techniques of testing
- ANOVA

Unit IV:

- Report writing
- Research report in the standard format as per University Guidelines and anti-plagiarism

Unit V:

- Presentation of research plan

Signature  
Date: 20/05/2019

15

Dax, N. G. (2018). *Statistical Methods*. McGraw Hill Publication

Gupta, S. C. (2018). *Fundamentals of Statistics*. Himalaya Publishing House

Hurlock, E. (2017). *Developmental Psychology*. McGraw Hill Education

Joshi, S.A. (2015). *Nutrition and Dietetics*. McGraw Hill Education (India) Pvt. Ltd

Kothari, C.R. (2019). *Research Methodology: Methods and technology*. New Age International Publishers

Mishra, B., Satapathy, A.R., Mishra, S. (2014). *Research Methodology: Approaches, Methods and Techniques*. Chaukhamba Orientalia

Matha, S.S. (2016). *Textile and Clothing Sustainability*. Springer

Oxford Publishing House (2018). *Social Science Research in India: Status, Issues and Policies*.

Papla, D. (2018). *Human Development*. McGraw Hill Education

Ray, G. L. (2015). *Extension Communication and Management*. Kalyani Publication

Srilakshmi, B. (2018). *Food Science*. New Age International Publishers

Swaminathan, M. (2010). *Handbook of Food and Nutrition*. Bappa

Vatsala, R. (2013). *Textbook of Textiles and Clothing*. ICAR

Journals:

1. Asian Journal of Home Science
2. Maharashtra Journal of Extension Education
3. Indian Journal of Nutrition and Dietetics
4. Indian Journal of Pediatrics
5. Journal of Food Science and Technology
6. Indian Journal of Nutrition and Dietetics
7. International Journal of Human Resource Management
8. Indian Journal of Human Development

*[Handwritten signatures and dates]*

20/05/2019

20/05/19