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URET Berhampur University Syllabus in HOME SCIENCE

Part - I: Research Methodology

- Research Methods of Social Science Researches - Social survey, Case study, Experimental method, Interdisciplinary approach and Statistical methods.
- Defining Research Problem - Meaning, selecting the problem, necessity of defining the problem, technique involved in defining a problem.
- Research Proposal - Meaning, purpose, types, structure, common mistakes in research proposal writing, steps in conducting research.
- Research Design - Meaning, need and features of a good design, types of research design, developing a research plan.
- Measurement and Scaling Techniques - Measurement in Research; Measurement in Scales; Sources of Error in measurement; Tests of sound Measurement; Techniques of developing measurement tools. Scaling - Meaning, Important scaling techniques.
- Sampling Design - meaning, steps and types of sampling, Characteristics of a good sampling design.
- Data Collection - Meaning and types of data collection. Collection of Primary data - Observation method, interview method, questionnaires, schedule, difference between questionnaires and schedules. Collection of Secondary data - Caution using secondary data.
- Classification of Data - Meaning, objectives and characteristics of an ideal classification. Types of classification - formation of discrete and continuous frequency distribution.
- Tabulation of Data - Meaning, significance and parts of a table. General rules of tabulation, types of tables.
- Diagrammatical and Graphical presentation of Data- Significance, types and limitations of different types of diagrams and presentation of data.
- Interpretation - Meaning, need, techniques and precaution in Interpretation.
- Report writing - Significance, types, steps, layout and types of the research reports.
- Bibliography writing - Meaning, need and types of bibliography writing.

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Part -II: Home Science

- Human Development - Meaning, period, process and theories of Human Development (Piaget, Freud, Erickson).
- Basic of Human Development - Genes & Chromosomes. Role of Heredity and Environment - Nature & Nurture in determining intelligence, personality and Behaviour. Principles of development.
- Prenatal Growth and Development - Stages of development. Factors influencing prenatal growth and development. Birth process and complications.
- Family Life Education - Meaning, significance, subject matter and target groups for Family Life Education.
- Food Quality Assessment - Causes of spoilage. Safety & Care of Food Supply - Microbial hazards, Residue Pollutants, Natural toxicants in Foods, Food Poisoning.
- Food Additives - Flavoring agents, colouring agents, leavening agents, stabilizers, thickeners and their usages.
- Food Laws - Subjective and objective methods of measuring quality for food production.
- Management of Family Resources - Management of energy, fatigue, energy savings methods and devices (work simplifications).
- Management of Time - Meaning, principles, methods and devices used for time saving. Importance of quality time for family living.
- Management of Money - Meaning, types, functions of money, types of Income and supplementary family income.
- Extension Education - Concept, objectives, characteristics and philosophy of Extension Education. Features of extension education: Formal education, Non-formal education, Adult education.
- Principles of Extension Education and qualities of Extension worker.
- Motivation in Extension Education - Concept, needs, motivating extension worker, techniques of motivating the village people.
- Textile Fibers - Classification of fibers, structure, physical and chemical properties of cotton, silk, wool, polyester, nylon, rayon fibers.
- Yarn Formation - Staple yarns and filaments yarns and their formation process.
- Finishing Process of Fabrics - Types of finishing process, preparatory process, stabilizing process, textural process.

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