

# **PEDAGOGY OF HOME SCIENCE**

## **SEMESTER I**

### **OBJECTIVES**

At the end of the course the student teachers will

- be able to understand the nature and scope of Home Science.
- be acquainted with the objectives of teaching Home Science in secondary and higher secondary schools and help them to plan learning activities according to those objectives.
- understand the various methods and techniques that can be employed in teaching of Home Science and to afford them opportunities to employ the various techniques in the classroom teaching.
- analyze the critical problems faced by India.

### **UNIT I - NATURE AND SCOPE OF HOME SCIENCE (14 hours)**

Nature and Scope of Home Science – World Setting, Family Setting and Educational Setting. Need and Significance of Home Science at Various Levels. Objectives of Teaching Home Science – Classification of Objectives in Specific Behavioral Terms –Blooms Taxonomy= Cognitive Domain, Knowledge, Comprehension, Application, Analysis - Affective Domain, Adjustment, Scientific Attitudes, Values, Appreciation and Interest – Psychomotor Domain.

**Activity:** Concept map preparation for various domains

### **UNIT II – MICROTEACHING (13 hours)**

Principles of Microteaching - Components - Skill of Motivation - Skill of Explaining - Skill of Stimulus Variation - Skill of Reinforcement - Skill of Questioning - Skill of Blackboard Writing- Need for Link Lesson- Macro teaching components.

**Activity :** Practicing any 3 skills and Link lesson.

### **UNIT III - CLASSROOM CLIMATE (16 hours)**

Classroom climate – teacher dominated pattern – Laissez faire pattern and democratically planned pattern –Significance of the classroom climate – Classroom interaction analysis – student evaluation of teachers.

**Activity** : Preparing questions for student evaluation

**UNIT IV - METHODS OF TEACHING HOME SCIENCE (17 hours)**

Group Techniques - Lecture Method - Lecture Cum Demonstration Method - Laboratory Method – Problem - Solving Method - Discussion - Seminar – Symposium – Brainstorming – Dramatization - Role Play - Field Trips - Exhibitions - Team Teaching Individualized Technique – Assignments - Supervised Study - Programmed Instruction - Linear and Branching Type - CAI.

**Activity** : Preparing Linear and Branched programme for selected topics.

**UNIT V - SOCIAL PROBLEMS FACED BY INDIA (14 hours)**

Critical Problems India is facing at Present – Malnutrition - Overpopulation and Communicable Diseases , Causes and Prevention.

**Activity** : Chart preparation for various social issues

**REFERENCES:**

- ❖ Arvinda Chandra, Anupama Shah, Umajoshi, Fundamentals of Teaching Home Science, New Delhi, Sterling Publishers Pvt Ltd, 1995.
- ❖ Bhatia, K.K. (1990). Measurement and Evaluation in Education. Ludhiana: Prakash Brothers.
- ❖ Das R.R, and Ray B, Methods of Teaching of Home Science, New Delhi, Sterling Publiation Pvt, Ltd, 1979.
- ❖ Devadas R.P, Methods of Teaching Home Science, New Delhi, NCERT, 1950.
- ❖ Jha, J.K. (2001). Encyclopaedia of Teaching of Home Science. (Vol.I&II), New Delhi: Anmol Publications Private Limited.
- ❖ Kochar S.K, Methods and Techniques of Teaching, New Delhi, Sterling Publishers Pvt Ltd, 2008.
- ❖ Lakshmi, K. (2006). Technology of Teaching of Home Science. New Delhi: Sonali Publishers
- ❖ Ram Babu A and Dandapani S, Essentials of Microteaching, New Delhi, Neelkamal Publications Pvt Ltd, 2010.
- ❖ Yadav, S. (1997). Teaching of Home Science. New Delhi: Anmol Publishers.

# **PEDAGOGY OF HOME SCIENCE**

## **SEMESTER II**

### **OBJECTIVES**

At the end of the course the student teachers will be able to

- identify the need of Home Science education for women towards solving their problems.
- acquire skills in planning a lesson with reference to methods and instructional materials and processing it effectively.
- know about the need, characteristics and selection of text books in Home Science.
- be aware of the various techniques of evaluation in Home Science.
- develop a practical understanding in the use of the technology of teaching Home Science.

### **UNIT I - HOME SCIENCE EDUCATION FOR WOMEN (14 hours)**

Need for Home Science Education for Women - Problems Faced by Women – Dowry - Sexual Harassment - Dual Role - Legal Rights of Women with Reference to Mediacal Termination of pregnancy(MTP) act and Dowry Prohibition act.

**Activity** :Collection of paper cutting related to the problems faced by women

### **UNIT II - TEACHER'S PLAN OF ACTION (15 hours)**

Lesson Planning – Importance of Lesson Plan - Writing Instructional Objectives - Need, Preparation and Format- Characteristics of a Good Lesson Plan- Unit Planning.

**Activity** :Writing 20 lesson plans

### **UNIT III - TEXT BOOK OF HOME SCIENCE (15 hours)**

Text Books - Criteria of Good Text Books - Critical Review of Home Science Text Books Used in Higher Secondary Schools - Home Science Library.

**Activity** : Reviewing Higher Secondary text book

### **UNIT IV – EVALUATION (16 hours)**

Different Types of Tests in Home Science – Achievement – Diagnostic – Prognostic. Criterion and Norm Referenced Evaluation – Construction and

Administration of Achievement Test – Examining the Results of Tests Against Objectives – Item Analysis.

**Activity** :Preparing blue print (two sets)

## **UNIT V - EDUCATIONAL TECHNOLOGY**

**(16 hours)**

Hardware Educational Technology - Uses and Principles of Hardware- T.V., Film, Slides, Film Strips, Over - Head Projector, Tape-Recorder, Radio - Software Display Items – Uses and Principles of Software - Chalkboard, Bulletin Board, Chart, Posters, Flannel Board, Magnetic Board, Models. E-learning ,internet and power point presentation

**Activity** : Preparation of power points for 3 topics

## **REFERENCES**

- ❖ Devadas R.P, Methods of Teaching Home Science, New Delhi, NCERT, 1950.
- ❖ Premalatha Mullick, A textbook of Home Science, Ludhiana, Kalyani Publishers, 2004.
- ❖ Shubangini Joshi, Nutrition & Dietetics, New Delhi, Tata Mc Graw Hill Publishing Company Ltd, 2004.
- ❖ Srilakshmi B, Nutrition Science, New Delhi, New Age International (O) Limited Publishers, 2004.
- ❖ Stella Soundarajan, A textbook of Household Arts, Madras, Orient Longman, 1989.
- ❖ Varghese, Home Management, New Delhi, Wiley Eastern Limited, 1992.

**PEDAGOGY OF HOME SCIENCE**  
**SEMESTER III**

**OBJECTIVES**

At the end of the course the student teachers will be able to

- understand and apply various statistical measures.
- understand the principles of curriculum construction and critically examine the Home Science syllabus of the secondary and higher secondary course.
- get familiarized with the laboratory organization and maintenance.
- familiarize with the hazards of environmental pollution and contribute to protection of environment.
- get familiarized with ethics and new knowledge of teachers.

**UNIT I - STATISTICAL MEASURES**

**(16 hours)**

Measures of Central Tendency - Mean, Median and Mode – Measure of Variability - Range, Average Deviation, Quartile Deviation and Standard Deviation - Rank Correlation. Graphical Representation of Data – Bar Diagram - Pie Diagram - Histogram, Frequency Polygon, Frequency Curve, Ogive.

**Activity** : Preparation of Transparencies sheets to represent data(graphical)

**UNIT II - HOME SCIENCE LABORATORY**

**(13 hours)**

Home Science Laboratory – Organization - Equipment and Furniture Maintenance - Planning of an all Purpose Room - Maintenance of Records and Registers, Stock Books and Account Books.

**Activity** :Preparing different types of Mini Records

**UNIT III - CURRICULUM IN HOME SCIENCE**

**(15 hours)**

Curriculum Development – Meaning – Concept - Principles of Curriculum Construction – Curriculum Development – Organization of Curriculum and Syllabus.

**UNIT IV - ENVIRONMENTAL EDUCATION**

**(15 hours)**

Environmental Pollution - Health Hazards - Prevention and Remedial Measures

- Alternative Sources of Energy - Solar and Wind Energy - Role of Home Science Education in Protection of Environment.

**Activity** :Short film preparation related to environmental awareness

## **UNIT V - HOME SCIENCE TEACHER**

**(16 hours)**

The Home science Teacher –Qualification –Duties and responsibilities to school and community, and professional growth. Problems faced by the Home Science teacher – lack of text books, job opportunities – Home Science association of India, In – Service training, Self evaluation of the teacher –Need to design a self evaluation.

**Activity** : Preparing self evaluation questions.

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- ❖ Arvinda Chandra, Anupama Shah, Umajoshi, Fundamentals of Teaching Home Science, New Delhi, Sterling Publishers Pvt Ltd, 1995.
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**PEDAGOGY OF HOME SCIENCE**  
**SEMESTER IV**

**OBJECTIVES**

At the end of the course the student teachers will be able to

- understand the principles of family resource management.
- analyze the role of food technology in daily life.
- overcome the problems of housing.
- realize the role of clothing in the current situation.
- recognize the various nutritional programs.

**UNIT I - FAMILY RESOURCE MANAGEMENT (14 hours)**

Resources in the Family - Time, Money and Energy – Conservation -  
Recreational Interest to Enrich Family Life.

**Activity :** Preparation of schedules for time management

**UNIT II - FOOD TECHNOLOGY (14 hours)**

Food Spoilage and Poisoning - Rules for Food Safety- Identification of Food  
Adulteration - Food Laws and Standards.

**Activity :** File preparation related to food adulteration

**UNIT III – HOUSING (16 hours)**

Physical, Psychological and Social Problems of Housing - Solving Housing  
Problems - Planning Homes to Meet the Present Day Crisis in Space.

**Activity :** Collection of data for various problems of housing.

**UNIT IV – CLOTHING (15 hours)**

Clothing and Culture - Influence of Technology on Clothing – Clothing to  
Promote the Personality of an Individual.

**Activity :** Album preparation – (Stitching based)

**UNIT V - EXTENSION ACTIVITIES (16 hours)**

International Agencies - WHO, FAO, UNICEF - National Agencies – ICDS -  
Nutritious Noon Meal Scheme, Adult Education Program, World Food Day, AIDS  
Education.

## **SUGGESTED PRACTICAL WORK**

- Demonstration of any one Topic in Home Science.
- Identifying an Area Prone to Health Hazard and Suggesting Remedial Measures.
- Preparation of any one Improvised Teaching Aid.
- Collection of Information from Internet, Organizing and Presenting it.
- Minor Project/Survey Relating to Nutrition, Clothing, Child Development or Housing.

## **REFERENCES**

- ❖ Devadas R.P, Methods of Teaching Home Science, New Delhi, NCERT, 1950.
- ❖ Meenakshi Sundaram, Environmental Education, Tamilnadu, Kavyamala Publishers, 2009.
- ❖ Premalatha Mullick, A textbook of Home Science, Ludhiana, Kalyani Publishers, 2004.
- ❖ Shubangini Joshi, Nutrition & Dietetics, New Delhi, Tata Mc Graw Hill Publishing Company Ltd, 2004.
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