Home Science

Code No. 321

Introduction

Home Science is concerned with the home, health and happiness of all members of the family and community. It is the art of managing resources efficiently combined with the science of achieving a healthier and happier home. This subject supports the personal enrichment and professional development. It integrates the application of various sciences and humanities to improve human environment, family nutrition, management of resources and child development.

Home Science is a subject for all now, because everyone has a dream of having a perfect home life. The days are gone that household activities were the responsibility of women folk. Now both men and women share the responsibilities in all affairs of the home. It empowers the learner to achieve all round development in different pursuits of life. It opens up endless avenues for the learners to settle as a self employed persons or posses any desirable jobs in established organizations including the NGOs.

Rationale

At no time in history the demands of humans begins have been as diverse as they are today. The individuals are constantly faced with problems of change. They have to make continuous adjustment to their life style that tests their decision making skills.

Home Science teaches an individual to develop knowledge and skills in order to interact better with their environment that includes the family, food clothing and home. The basic aim of studying Home Science is to efficiently use the goods and services available for improving the quality of human life.

Home Science as a subject is of great social significance as it affects an individual's way of living, eating, raising young ones, etc., which in turn affects the welfare and stability of the family and the society at large. Besides grooming individuals for better living, the study of Home Science also opens up vistas of future vocational pursuits

Objectives

After completing this course, the learner will be able to:

- develop skills that help in bringing a positive change in daily life style and solving problems;
- develop creative thinking and a rational approach towards everyday life;
- develop scientific temper and a spirit of inquiry; and
- sensitivity to values of ethical living.

Scope and job opportunity

The scope of Home Science extends far beyond the 'home' and is not limited to cooking, laundry,

needlework and home decoration. In fact it is the only subject which prepares young learners for the two most important goals in their lives – looking after their home and family and preparing for a career or vocational life. The areas covered in Home Science are vast and varied. There are jobs available if the learner wish to work out side home and as wage employment or the learner can start his or her own enterprise e.g. boutique, production unit, laundry service etc. There are various opportunities available for Home Science students and some of the broader options are mentioned below:

- Catering
- Food preservation/bakery / confectionery
- Interior decoration
- Arts and crafts
- Housekeeping and laundry services
- Dress designing, garment construction: textile science
- Teaching
- Communication and extension
- Resource managers and consumer education

Eligibility conditions

Age: 15Years

Qualification: 10th pass

Medium of instruction: Hindi, English, Urdu, Bengali, Gujarati and Odia

Duration of the course: 1 Year

Weightage

Theory: 80 Marks

Practical: 20 Marks

Tutor Marked Assignment (TMA): 20% Marks of theory

Scheme of studies: Theory (240hours), practical (30hours), TMA (self paced)

Scheme of evaluation: Theory paper 80 marks (3 hours), practical 20 marks (3hours), internal

assessment (TMA) (20% of theory marks).

Pass criteria: 33% in each component.

Course content

S. No.	Module/ Topics	Duration (in hours)	Module Approach/ Description	Description of practicals	Weightage (marks)
1.	Core Moduels		Home is a place, which provides comfort and meets an individual's need for safety, security, identity and a sense of belongingness. This module provides an understanding of designing and arranging the environment at home in such a manner that it promotes healthy physical and social development of individuals. It also creates awareness about the various vocational areas in the subject of Home Science.		
2.	The Art and Science of Managing Home Approach	20	L 1 Home Science concept		4
3.	Food and Nutrition	45	Good health is dependent on the diet consists of a variety of footby applying simple knowledge. This module covers important to	od that can be prepared e of food and nutrition.	16

	meal planning and preparation to alter food habits that can conhealth.	
4.		1. To preserve seasonal foods 2. To prepare and evaluate dishes using the following methods of food enrichment such as: Combination Fermentation Germination 3. To collect different food items that is
	 meal planning factors influencing meal planning planning balanced meals for the family definition, need and types of therapeutic diet diet in common diseases 	available at home and categorizes them under various food groups.
	 L6 Nutritional Status definition assessing nutritional status causes and prevention of malnutrition recognizing deficiency disorders: Vitamin A, Iron and Iodine causes and prevention of the above deficiency disorder L7 Purchase and Storage 	

		 selection of food food spoilage safe handling of food methods of storage L8 Preparation of food importance of prepreparation and preparation of food methods of cooking conservation and enhancement of nutrients hygienic food handling in the kitchen L9 Food Preservation importance principles household methods of preservation 		
5.	Resource Manage- ment	In these days of stress, home from the chaos of outside we adjusted if one possesses the use of all the resources in one's satisfaction. 'Doing things rig resources is the aim of this most at teaching a creative and system improved life.	orld. One can feel well e knowledge of optimal senvironment to achieve ht' within the available odule. This module aims	16
6.		 L10 Family Resources Management definition, steps and motivating factors decision making Definition, sources and characteristics types of resources, 	 4. To identify sources of pollution in one's area and to suggest remedial measures. 5. To take one's own family as an example and 	

•	optimal use of
	resources

L11 Time and Energy Management

- significance of making a time plan
- energy management and fatigue
- principles of work simplification
- methods of saving time and energy

L12 Space Management

- meaning and need
- significance of work areas
- space organization for various activities

L13 Income Management

- meaning of income, expenditure and investment
- expenditure plan
- income and expenditure record
- investing money wisely
- generating additional income

L14 Energy Conservation

- meaning and need
- environmental degradation
- role of individuals and government in creating an eco-friendly environment

L15 Environment

- 6. List the household and related task performed by each member
- 7. Analyse the work patterns according to age and gender differences in responsibility
- 8. Comment on this division of tasks
- (i) To record the expenditure for one's own family for a month
- (ii) To evaluate the family's pattern on expenditure and on the basis of the evaluation prepare a budget for the family.

			Management Meaning and need Environment Effect of environment Role of individual and government in creating an eco-friendly environment L16 Household Equipment selection and use care and maintenance L17 Consumer Education definition problems faced by consumers consumer protection laws and redressal role of standardization marks, labeling and packaging consumer rights and responsibilities		
7.	Human Develop- ment	45	Since every one is a product of being is affected by both exter External factors constitute per housing, food; clothing equipmare physical, mental, emotion health. This module explains acts as a life support system a changes occurring within and a	nal and internal factors. ople around you and the nent etc. internal factors onal and psychological the role of a family that and helps to adapt to the	16
8.			 L18 Growth and Development (0-5 years) definition and principles of development development during 	9. To observe children in the age group of 1yr 6 months – 3yrs for their language	

- infancy and childhood
- physical, motor, socioemotional, cognitive and language development
- behaviour problems in children

L19 Growth and Development (6-11 years)

 characteristics of physical, motor, socioemotional, cognitive and language development

L 20 Adolescence

- definition and physical development
- sexual maturation and sex education
- characteristics of physical, motor, socioemotional, cognitive and language development
- problems faced by adolescents

L 21 Concerns and Issues in Human Development

- position of the girls child in society
- juvenile delinquency
- child lab or
- socio-economically disadvantaged children
- major physical disabilities
- mental retardation
- safe motherhood
- HIV/AIDS

- achievements
- 10. To observe a child in the age group of 1-2 yrs and record how he/ she expresses anger and fear.
- 11. To visit a nearby nursery school and observe and three children for their social behaviour
- 12. To obtain a teenager's view about the physical changes and social and emotional problems faced during adolescence.

9.	Textiles and Clothing	45	"Clothes make a man" and hidentity and build self-conconstructed garments from text of fibres, yarns and finishes eand present ability of individuate given an understanding of the This knowledge is important constructing, selecting, using a in daily use.	nfidence. Using well ctiles that are composed enhance the personality als. This modules aims he properties of textiles. tant for fabricating,	16
10.			L21 Introduction to Fabric Science • meaning and scope of fabric science • fibre-definition, classification and properties L22 Yarn and its Construction • definition and yarn processing • properties and types of yarns • textured yarns L 23 Fabric Construction • techniques of fabric construction • weaving • knitting L 24 Textile Finishes • meaning and importance • types of finishes and their properties • dyeing and printing L 25 Selection of Textiles and Clothing • selection of clothing • selection of clothing • selection of clothing • quality assurance –	13. To weave plain and it will weave using strips of paper 14. To collect six samples each of fabrics made by these two weaves 15. To remove curry, blood, mud, ink and tea/ coffee stains from white cotton fabrics 16. To launder the following materials; Cotton – 'A' line frock/pillow case/ petticoat / pyjama Silk –blouse /scarf Wool –cardigan/cap/ scarf Synthetic –shirt/saree/pant	

			indicators and malpractices L 26 Care and Maintenance of textile Steps in laundering Characteristics of auxiliaries – soap, detergents, blue and starch Identification and removal of stains Dry cleaning Storage of clothes		
11.	Optional Moduels	30			12
12.	House- keeping- 6 A	place and control to promoting a knowledge i	idual enjoys living in a clean of community. The knowledge of how and maintain cleanliness, and esthetics at home and workplactin housekeeping for everyday a eping related jobs.	ousekeeping enables the derive psychological sat ce. The module is aimed	individuals isfaction by at imparting
13.			L26 Introduction to Housekeeping meaning importance areas of housekeeping functions of a housekeeper personal grooming of the housekeeper L 27 Cleaning and cleaning materials cleaning materials and equipment methods of cleaning types of cleaning L 28 Maintenance of	 17. To care for, maintain and clean wooden, floor, brass, aluminum, silver and plastic 18. To use waste material for preparing useful household items 19. To practice cleaning the following (to be done under adult supervision only) An electric Fuse 	

			 maintenance of different surfaces common household repairs L 29 Aesthetics at Home flower arrangement floor and wall decoration accessories 	electric iron	
14.	Creative Hand Embroidery- 6 B	embroidere Embroidery at providing	oidery is an ancient art of oud clothes have become a fast enriches and clothes that you we knowledge and skill to ventifor beautifying one's own clother.	shion both among girls ar ear. This vocational module ure into the area of creati	nd boys. e is aimed ive hand
15.			 L30 Introduction to Creative Hand Embroidery historical perspective meaning materials and tools L31 Design types of design (geometric, stylized, abstract) enlargement /reduction of design transfer of design placement of design Prang's colour wheel properties of colour colour schemes L33 Embroidery Stitches common hand embroidery stitches running stitch, stem, stitch, chain, stitch, cross stitch, herringbonestitch, blanket stitch, French knot, long and short stitch. 	To make a colour wheel To prepare samples of various embroidery stitches To do enlargement and reduction of motifs created.	