## HOME SCINCE CURRICULUM

#### 1. 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.

## 2. Objectives

The broad objectives of Home Science are to develop:

- Skills that help in bringing a positive change in daily life style and Solving problems;
- Creative thinking and a rational approach towards everyday life;
- A scientific temper and a spirit of inquiry; and sensitivity to values of ethical living

Therefore, the specific objectives of learning Home Science at Senior Secondary level will be to:

- Secure the health and safety of the family;
- Take care of nutritional needs of the family along with proper food handling and preparation techniques;
- Judiciously utilize available resources through improved work culture and wise purchasing habits;

- Understanding the process of human development and use it for strengthening interpersonal relationship; and
- Develop skills in the selection, care and maintenance off textile and clothing for domestic use.

## 3. Course Structure

The entire syllabus has been divided into two sections: the CORE MODULES and the OPTIONAL MODULES

The core modules comprise five modules that impart comprehensive knowledge about the different areas in Home Science. These modules are **The Art and Science of Managing a Home; Food and Nutrition; Resource Management; Human Development;** and **Textiles and Clothing.** It is compulsory for the learners to study all the five modules.

The second part is the optional modules comprising two modules namely Housekeeping and Creative Hand Embroidery. These modules are of immediate utility to the learner and point out the areas of potential employment. The learner has a choice of studying only 'ONE' of these optional modules

## 4. Course Description

## A. CORE MODULES

# 4.1 The Art and Science of Managing Home Approach

Home is a place, which provides comfort and meets an individual's need for safety, identity security. and sense a This module provides an belongingness. understanding of designing and arranging the environment at home in such a manner that it healthy physical and social promotes development of individuals. It also creates awareness about the various vocational areas in the subject of Home Science.

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4.1.1 Home Science	4.2.3. Nutritional Status
- concept	- definition
- scope	-assessing nutritional status
- employment opportunities	- causes and prevention of malnutrition
	-recognizing deficiency disorders: Vitamin
	A, Iron and Iodine
	- causes and prevention of the above deficiency
	disorder
4.1.2 Family, Health and Security	4.2.4 Purchase and Storage of Food
- definitions	- selection of food
- types of family	- food spoilage
-importance of health	- safe handling of food
-factors contributing to health	- methods of storage
-methods of providing safety and security at	
home	
4.1.3 Ethics in Daily Living	4.2.5 Preparation of food
- definition and need	- importance of pre-preparation and preparation of
- problems faces	food
- code of ethics	- methods of cooking
- raising ethical standards	- conservation and enhancement of nutrients
42 F I I N . 4 24	- hygienic food handling in the kitchen
4.2 Food and Nutrition	4.2.6 Food Preservation
Study hours: 45 Marks allotted: 16	- importance
Marks anotted: 10	- principles
Approach	- household methods of preservation
Good health is dependent on the food that we eat.	
Our diet consists of a variety of food that can be	
prepared by applying simple knowledge of food	
and nutrition. This module covers important	
topics like food, nutrition, meal planning and	
preparation. This knowledge helps to alter food	
habits that can contribute to ensuring good	
health.	
4.2.1 Food, Nutrition and Health	4.3 Resource Management
- definition and functions of food	Study hours: 46
- sources and requirements of nutrients,	Marks allotted: 16
deficiency of nutrients	
- relationship between food, nutrition and health	Approach
	In these days of stress, home is a person's last refuge
	from the chaos of outside world. One can feel well
	adjusted if one possesses the knowledge of optimal
	use of all the resources in one's environment to
	achieve satisfaction. 'Doing things right' within the
	available resources is the aim of this module. This
	module aims at teaching a creative and systematic
	approach to an improved life.
4.2.2 Meal Planning	4.3.1 Home Management
- food groups	- definition, steps and motivating factors
- balanced diet	- decision making
- meal planning	422 F 3 B
- factors influencing meal planning	4.3.2 Family Resources

- planning balanced meals for the family	- Definition, sources and characteristics		
- definition, need and types of therapeutic diet	- types of resources,		
- diet in common diseases	- optimal use of resources		
4.3.3 Time and Energy Management	4.4 Human Development		
- significance of making a time plan	Study hours: 45		
- energy management and fatigue	Marks allotted: 16		
- principles of work simplification			
- methods of saving time and energy	Approach		
	Since every one is a product of environment, their		
12.19	well-being is affected by both external and internal		
4.3.4 Space Management	factors. External factors constitute people around		
- meaning and need	you and the housing, food; clothing equipment etc.		
- significance of work areas	internal factors are physical, mental, emotional and		
- space organization for various activities	psychological health. This module explains the role of a family that acts as a life support system and		
	helps to adapt to the changes occurring within and		
	around an individual.		
4.3.5 Income Management	4.4.1 Growth and Development (0-5 years)		
- meaning of income, expenditure and investment	- definition and principles of development		
- expenditure plan	- development during infancy and childhood		
-income and expenditure record	- physical, motor, socio-emotional, cognitive and		
- investing money wisely	language development		
-generating additional income	- behaviour problems in children		
4.3.6 Energy Conservation (non-human)	4.4.2 Growth and Development (6-11 years)		
- meaning and need	- characteristics of physical, motor, socio-emotional,		
- environmental degradation	cognitive and language development		
-role of individuals and government in creating an			
eco-friendly environment			
4.3.7 Environment Management	4.4.3 Growth and Development (Adolescence)		
- Meaning and need	- definition and physical development		
- Environment	- sexual maturation and sex education		
- Effect of environment	- characteristics of physical, motor, socio-emotional,		
- Role of individual and government in	cognitive and language development		
creating an eco-friendly environment	- problems faced by adolescents		
4.3.8 Household Equipment	4.4.4 Concerns and Issues in Human		
- selection and use	<b>Development</b>		
- care and maintenance	- position of the girls child in society		
	- juvenile delinquency		
4.3.9 Consumer Education	-child lab or		
- definition	-socio-economically disadvantaged children		
-problems faced by consumers	- major physical disabilities		
-consumer protection laws and redressal	-mental retardation		
- role of standardization marks, labeling and	- safe motherhood		
packaging	- HIV/AIDS		
- consumer rights and responsibilities	45 ( Compand Mark 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
4.5 Textiles and Clothing	4.5.6 Care and Maintenance of Textiles		
Study hours : 45 Marks allotted : 16	- need		
111a1 KS AHULLEU ; 10	- steps of laundering - characteristics of auxiliaries – soaps, detergents,		
Approach	blues and starches		
"Clothes make a man" and help to create personal	- identification and removal of stains		
identity and build self-confidence. Using well	-suitable washing techniques		
constructed garments from textiles that are	- dry cleaning		
and the second sec			

composed of fibres, yarns and finishes enhance	
the personality and present ability of individuals.	
This modules aims to given an understanding of	
the properties of textiles. This knowledge is	
important for fabricating, constructing, selecting,	
using and caring for the textiles in daily use.	
4.5.1 Introduction to Fabric Science	B. OPTIOANL MODUELS
- meaning and scope of fabric science	Study hours: 30
- fibre-definition, classification and properties	Marks allotted: 12
	4.6 A HOUSEKEEPING
	Approach
	Every individual enjoys living in a clean
	environment, which includes homes place and
	community. The knowledge of housekeeping enables
	the individuals to promote and maintain cleanliness,
	and derive psychological satisfaction by promoting
	aesthetics at home and workplace. The module is
	aimed at imparting knowledge in housekeeping for
	everyday activities and also facilitates in taking up
	housekeeping related jobs.
4.5.2 Yarn and its Construction	4.6.1 Introduction to Housekeeping
- definition and yarn processing	- meaning
- properties and types of yarns	- importance
- textured yarns	-areas of housekeeping
	- functions of a housekeeper
	- personal grooming of the housekeeper
4.5.3 Fabric Construction	4.6.2 Cleaning and cleaning materials
- techniques of fabric construction	- cleaning materials and equipment
- weaving	- methods of cleaning
- knitting	- types of cleaning
4.5.4 Textile Finishes	4.6.2 Maintenance of Premises
- meaning and importance	- maintenance of different surfaces
- types of finishes and their properties	- common household repairs
- dyeing and printing	
4.5.5 Selection of Textiles and Clothing	4.6.4 Aesthetics at Home
- selection of textiles for different and use	- flower arrangement
- selection of clothing	- floor and wall decoration
- quality assurance – indicators and mal-practices	- accessories
4.5.6 Care and Maintenance of textile	
- Steps in laundering	4.6.3 Colour
- Characteristics of auxiliaries – soap,	4.0.3 Colour
detergents, blue and starch	Duono's colour wheel
- Identification and removal of stains	- Prang's colour wheel
- Dry cleaning	- properties of colour
- Storage of clothes	- colour schemes
4.6 B CREATIVE HAND EMBROIDERY	4.6.4 Embroidery Stitches
Approach	- common hand embroidery stitches
Hand embroidery is an ancient art of our country	- running stitch, stem, stitch , chain, stitch, cross
and in the present time embroidered clothes have	stitch, herringbone stitch, blanket stitch, French
become a fashion both among girls and boys.	knot, long and short stitch.
occome a rasmon boar among giris and boys.	mot, iong and moit stadi.

Embroidery enriches and clothes that you wear. This vocational module is aimed at providing knowledge and skill to venture into the area of creative hand embroidery for beautifying one's own clothing or to take up embroidery as a vocation.	
4.6.1 Introduction to Creative Hand	5. SCHEME OF EVALUATION
Embroidery	The learner will be evaluated through public
- historical perspective	examination ad comprehensive evaluation in the
- meaning	form of Tutor Marked Assessments (TMA's)
- materials and tools	
4.6.2 Design	
- types of design ( geometric, stylized, abstract)	
- enlargement /reduction of design	
- transfer of design	
- placement of design	

## **5.1 Distribution of marks**

## **CORE MODULES**

Name of the Module	Name of the unit	Study Hours	Marks Allotted
4.1 The Art and Science of Managing Home Approach	4.1.2 Family, Health and Security	20	4
4.2 Food and Nutrition	<ul> <li>4.2.1 Food, Nutrition and Health</li> <li>4.2.2 Meal Planning</li> <li>4.2.3. Nutritional Status</li> <li>4.2.4 Purchase and Storage of Food</li> <li>4.2.5 Preparation of food</li> <li>4.2.6 Food Preservation</li> </ul>	45	16
4.3 Resource Management 4	<ul> <li>4.3.1 Home Management</li> <li>4.3.2 Family Resources</li> <li>4.3.3 Time and Energy Management</li> <li>4.3.4 Space Management</li> <li>4.3.5 Income Management</li> <li>4.3.6 Energy Conservation (non-human)</li> <li>4.3.7 Environment Management</li> <li>4.3.8 Household Equipment</li> <li>4.3.9 Consumer Education</li> </ul>	45	16
4.4 Human Development	4.4.1 Growth and Development (0-5 years) 4.2 Growth and Development (6-11 years) 4.4.3 Growth and Development (Adolescence) 4.4.4 Concerns and Issues in Human Development	45	16

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4.5 Textiles and	4.5.1 Introduction to Fabric Science	45	16
Clothing	4.5.2 Yarn and its Construction		
	4.5.3 Fabric Construction		
	4.5.4 Textile Finishes		
	4.5.5 Selection of Textiles and Clothing		
	4.5.6 Care and Maintenance of textile		
	OPTIONAL MODULES	•	
4.6 A	4.6.1 Introduction to Housekeeping	30	12
HOUSEKEEPING	4.6.2 Cleaning and cleaning materials		
	4.6.2 Maintenance of Premises		
	4.6.4 Aesthetics at Home		
4.6 B CREATIVE	4.6.1 Introduction to Creative Hand		
HAND	Embroidery		
<b>EMBROIDERY</b>	4.6.2 Design		
	4.6.3 Colour		
	4.6.4 Embroidery Stitches		
	,		
Practical		10	20

## 6. Scheme of evaluation

Examination	Paper	Marks	Duration
Theory	1	20	3 hrs.
Practical	1	20	3 hrs.
Practical Evaluation			
Two activities from Module	S	4 marks	
One activities from Optional Modules		4 marks	
Record Book		4 marks	
Viva Voce		4 marks	
	Theory Practical Practical Evaluation Two activities from Module One activities from Optional Record Book	Theory 1 Practical 1 Practical Evaluation Two activities from Modules One activities from Optional Modules Record Book	Theory 1 20 Practical 1 20 Practical Evaluation Two activities from Modules 4 marks One activities from Optional Modules 4 marks Record Book 4 marks

#### PRACTICAL ACTIVITIES

## Study hours: 10 Marks allotted: 20

- 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 available at home and categorizes them under various food groups.
- 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
  - List the household and related task performed by each member
  - Analyse the work patterns according to age and gender differences in responsibility
  - Comment on this division of tasks
- 6. (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.
- 7. To observe children in the age group of 1yr 6 months 3yrs for their language achievements
- 8. (i) To observe a child in the age group of 1-2 yrs and record how he/she expresses anger and fear.
  - (ii) To visit a nearby nursery school and observe and three children for their social behaviour
- 9. To obtain a teenager's view about the physical changes and social and emotional problems faced during adolescence.
- 10. (i) To weave plain and it will weave using strips of paper
  - (ii) To collect six samples each of fabrics made by these two weaves

- 11. To remove curry, blood, mud, ink and tea/ coffee stains from white cotton fabrics
- 12. To launder the following materials;
  - Cotton 'A' line frock/pillow case/ petticoat /pyjama
  - Silk –blouse /scarf
  - Wool –cardigan/cap/scarf
  - Synthetic –shirt/saree/pant

# OPTIONAL MODUEL HOUSE KEEPING

- To care for, maintain and clean wooden, floor, brass, aluminum, silver and plastic
- 2. To use waste material for preparing useful household items
- 3. To practice cleaning the following (to be done under adult supervision only)
  - An electric Fuse
  - 3 pin plug of an electric iron

#### CREATIVE HAND EMBROIDERY

- 1. To make a colour wheel
- 2. To prepare samples of various embroidery stitches
- 3. To do enlargement and reduction of motifs created.

Name of the Module	Name of the unit	Study Hours	Marks Allotted
4.1 The Art and	4.1.1 Home Science	20	4
Science of	4.1.2 Family, Health and Security		
Managing Home	4.1.3 Ethics in Daily Living		

Approach					
42 Feed and	4.2.1 Earl New Comments	15	1.0		
4.2 Food and	4.2.1 Food, Nutrition and Health	45	16		
Nutrition	4.2.2 Meal Planning				
	4.2.3. Nutritional Status				
	4.2.4 Purchase and Storage of Food				
	4.2.5 Preparation of food				
	4.2.6 Food Preservation				
4.3 Resource	$\mathcal{E}$	45	16		
Management	4.3.2 Family Resources				
4	4.3.3 Time and Energy Management				
	4.3.4 Space Management				
	4.3.5 Income Management				
	4.3.6 Energy Conservation (non-human)				
	4.3.8 Environment Management				
	4.3.8 Household Equipment				
	4.3.9 Consumer Education				
4.4 Human	4.4.1 Growth and Development (0-5 years)	45	16		
Development	.4.2 Growth and Development (6-11 years)				
20,010 pinono	4.4.3 Growth and Development				
	(Adolescence)				
	4.4.4 Concerns and Issues in Human				
	Development Development				
	Development				
4.5 Textiles and	4.5.1 Introduction to Fabric Science	45	16		
Clothing	4.5.2 Yarn and its Construction	75	10		
Ciotining	4.5.3 Fabric Construction				
	4.5.4 Textile Finishes				
	4.5.5 Selection of Textiles and Clothing				
	4.5.6 Care and Maintenance of textile				
161	OPTIONAL MODULES	20	12		
4.6 A	4.6.1 Introduction to Housekeeping	30	12		
HOUSEKEEPING	4.6.2 Cleaning and cleaning materials				
	4.6.2 Maintenance of Premises				
	4.6.4 Aesthetics at Home				
4.6 B CREATIVE	4.6.1 Introduction to Creative Hand				
HAND					
	Embroidery				
EMBROIDERY	4.6.2 Design				
	4.6.3 Colour				
	4.6.4 Embroidery Stitches				
D 41 1		10	20		
Practical		10	20		