HOME SCIENCE (Code No. 064)

(CLASSES - IX AND X) (2020-21)

Home science is a practical science that is essential for every individual to handle challenging responsibilities of the life. Home Science as a discipline aims to empower learners by developing understanding of five different areas namely:

- Foods and Nutrition
- Human Development and Childhood Studies
- Resource Management
- Fabric and Apparel Sciences
- Community Development and Extension

The subject helps students to understand changing needs of Indian society, academic principles as well as develop professional skills.

Objectives: The syllabus at Secondary level develops an understanding in the learners that the knowledge and skills acquired through HomeScience facilitates development of self, family and community. It endeavours to-

- Acquaint learners with the basics of human development with specific reference to self andchild.
- Help to develop skills of judicious management of variousresources.
- Enable learners to become alert and awareconsumers.
- Impart knowledge of nutrition and lifestyles to enable prevention and management of diseases.
- Inculcate healthy foodhabits.
- Help to develop understanding of textiles for selection and care of clothes.
- Develop skills of communication to assist in advocacy and dissemination of knowledge tocommunity.

Home Science (Code No. 064) Class - IX (2020-21)

Course Structure: Theory & Practical Theory : 70Marks

Time:3 Hrs. Practical: 30Marks

No.	Units	Marks	No. of Pd.
1	Concept and scope of Home Science Education and	03	05
	recent trends		
2	Human growth & Development – I	08	25
3	Family and Values	08	20
4	Food, Nutrition and Health	15	45
5	Fiber and Fabric	15	34
6	Resource Management	14	34
7	Measures of Safety and Management of Emergencies	07	17
	Total	70	180
	Practical	30	40
	Grand Total	100	220

Unit I: Concept and scope of Home Science Education and recent trends 05 Pd

- a) Concept of Homescience
- b) Fields of HomeScience
- c) Relevance of study of Home Science and career options
- d) Recent trends

Unit II: Human Growth & Development-I

25Pd

- a) Concept of growth and development
- b) Principles of growth and development
- c) Factors affecting growth and development (environmental and heredity)

d) Age specific milestones (Birth to3 years)-Physical, motor ,social, emotional, cognitive and language

Unit III: Family and Values

20Pd

- a) Concept and types offamily
- Role of family in Holistic development of an individual (Physical, Social, Psychological and Spiritual)
- Ethical and value based society (need for happy family, respect and care for each member of family, Dignity of labour, work distribution within thefamily)
- d) Importance of Girl Child.
- e) Influence of various factors on a family: Globalisation, Urbanisation, Migration, Technology and Media.

Unit IV: Food, Nutrition and Health

45Pd

- a) Definition of Food, Nutrition, Nutrient, Health and Nutritional Status.
- b) Food and its functions (Physiological, Social and Psychological)
- c) Nutrients: sources and functions
- d) Relationship of Food, Health and Diseases
- e) Malnutrition: concepts and components (over nutrition and under nutrition)
- f) Concept of Balanced Diet
- g) Methods of cooking and processing
- Cooking methods : Dry methods, moist methods, combinationmethods
- Processing methods: Germination, Fermentation, Mutual supplementation /Combination
- · Conservation of nutrients while cooking and processing

Unit V: Fibre and Fabric

34Pd

- a) Definition of Fiber and Yarn
- b) Classification of fiber on the basis of origin and length
- c) Characteristics of fibers: feel, appearance, colour fastness, length, strength, absorbency, shrinkage, elasticity, effect of heat and sunlight.
- d) Methods of construction of fabric brief description of weaving, knitting

- andfelting.
- e) Selection of fabric: Factors affecting selection of fabric (age, purpose, occupation, fashion, figure, climate, comfort and cost).

Unit VI :Resource Management

34Pd

- a) Resources: Definition and characteristics
- b) Types of resources (Human : Time, Energy, Knowledge and attitude Non-Human : Money, materialistic goods and community resources)
- Waste Management Need to refuse, reduce, reuse, repair and recycle waste.
- d) Proper disposal of kitchen waste (Biodegradable : Composting, Vermicomposting, Biogas and Bagass. Non Biodegradable : Inceneration, Land fills and Recycle)

Unit VII: Measures of Safety and Management of Emergencies

17Pd

- a) Accident prone / Unsafe Zones at home
- b) Need of safety at home
- Measures of safety against burns, electric shocks, cuts, fractures, bites, poisoning
- d) First Aid: Concept and Importance

Practicals 40 Periods

30 Marks

- 1. Observation of physical development in a child from birth to three years
- 2. Observation of motor skills in a child from birth to 3 years.
- 3. Role of family members: collage / chartetc.
- 4. Design educational games specific to functions or sources of nutrients.
- 5. Weights and measures: Equivalents / conversions of Ounce, gram, cup, teaspoon, tablespoon, how to use a kitchen weighing scale.
- 6. Identification of fruits, vegetables, spices, oils, sugars, cereals and lentils.
- 7. Food processing method demonstration: Germination and Fermentation.
- 8. Collection and Identification of fibre: physical charateristics and burning tests.
- 9. Create a slogan or poster for proper disposal of domestic waste .
- 10. Prepare a first aid kit and practice giving first aid for burns, cuts, bites, fractures, electric shocks (group activity)

SCHEME FOR PRACTICAL EXAMINATION CLASS IX HOME SCIENCE

M.M-30

I. LAB ACTIVITY-

a) Observation of physical development in a child from birth to three years 3 marks

Observation of motor skills in a child from birth to 3 years.

b) Prepare and present a dish using germination OR fermentation(With fire/without fire) 7 Marks

c) Identification of fibre using physical characteristics and burning tests. 3Marks

II.First Aid Kit5 MarksIII.File Work10Marks

IV. Viva 2 Marks

Home Science (Code No. 064) Class - X (2020-21)

Course Structure: Theory& Practical Theory: 70Marks

Time:3 Hrs. Practical: 30Marks

No.	Units	Marks	No. of Pd.
1	Human Growth & Development – II	12	30
2	Management of Resources	12	30
3	Food and Personal Hygiene	08	18
4	Meal Planning	13	42
5	Food Safety and Consumer Education	12	30
6	Care and Maintenance of Fabrics and Apparel	13	30
	Total	70	180
	Practical	30	40
	Grand Total	100	220

Unit I: Human growth &developmentII

(30periods)

- a. Play (birth-5 years), role of play in growth & development of children. Types of playactive, passive, natural, serious and exploratory, selection of play material forchildren.
- b. Childhood(3 to 11 years)-Age specific milestones- Physical, motor, social, emotional, cognitive and language
- c. Adolescents: SpecialFeatures- Physical and biological, motor, social, emotional, Cognitive and language
- d. Problems of Adolescents: Consequences and management
 - i) Eating disorders(Anorexia Nervosa ,Bulimia Nervosa)
 - ii)Substance abuse
 - iii) Issues related to sex
 - iv) Anti social behaviour

Unit II:Management of Resources:Time, Energy and Money (30 periods)

- a) Time Management Definition and Importance
- b) Time plans Factors affecting timeplan
- c) Energy Management : Definition and Importance
- d) Fatigue and workSimplification
- e) Family Income and Types
- f) Expenditure and Importance of Saving

Unit III: Food and Personal Hygiene

(18 periods)

- a) Principles of hygienic handling and serving of food
- b) Hygiene in kitchen
- c) Personal hygiene of food handler
- d) Hygiene during food storage

Unit IV: Meal Planning

(42periods)

- a) Concept of Meal Planning
- Factors affecting meal planning age, sex, climate, occupation, cost of food items, number of family members, occasion, availability of food, family traditions, likes and dislikes
- c) Basic food groups given by ICMR
- d) Use of food groups in planning balanced meal for self and family.

Unit V : Food Safety and Consumer Education

(30 periods)

- a) Problems faced by Consumer- Price variation, poor quality, Faulty weights and measures, Non-availability of goods, Misleading information, Lack of standardized products
- Food adulteration : Concept, adulterants (Metanil yellow, Argemone ,Kesari dal) and harmful effects of these adulterants on human health,
- c) Food Safety Standards-FSSAI (2006)
- d) Consumer Education-Consumer Rights and Responsibilities

Unit VI: Care and Maintenance of Fabrics and Apparel (30 periods)

- a) Cleaning and finishing agents used in routine care of clothes.
- b) Stain Removal

- c) Storage of cotton, silk, wool and synthetics
- d) Readymade garments- selection, need ,workmanship and care label.

- 1. Make a suitable play material for children between birth to 5 years (group activity)
- 2. Plan a balanced meal for yourself.
- 3. Make a time plan to self for oneday.
- 4. Write a report on any five malpractices you have observed in the market and write your responsibilities as a consumer in each context.
- 5. Prepare a slogan/poster to create awareness on consumer education
- 6. Remove stains from white cotton fabric: curry, grease, ball pen ink, lipstick, tea and coffee
- 7. List five areas of agreement and disagreement each with parents, siblings and friends, and give your suggestion to improve the relationships.
- 8. Examine positive and negative qualities of one readymade and one tailor made garment.
- 9. Prepare a care label for a readymade garment according to its fabric and design.

SCHEME FOR PRACTICAL EXAMINATION CLASS X HOME SCIENCE

I	LAB ACTIVITY	Marks	
a)	Plan a balanced meal for yourself	3 Marks	
b)	Prepare a time plan for self for oneday	4 Marks	
c)	Remove one stain from white cotton sample- curry, grease, ball pen ink, lipstick, tea and coffee	3 marks	
d)	Examine two positive and two negative qualities of one readymade and one tailor made garment.	4Marks	
e)	Prepare a care label for a readymade garment according to its fabric and design	4Marks	
II	Play Material	5 Marks	
III	File Work	5 Marks	
IV	Viva	2 Marks	

QUESTION PAPER DESIGN 2020-21 HOME SCIENCE (CODE NO. 064)CLASS- IX& X

TIME: 3 HOURS Max. Marks: 70

S. No	Competencies	Total Marks	% Weightage
1.	Knowledge and understanding based questions terms, concepts, principles, or theories; Identify, define, or recite interpret, compare, contrast, explain, paraphrase information)	28	40%
2.	Application - or knowledge/concepts based questions (Use abstract information in concrete situation, to apply knowledge to new situations. Use given content to interpret a situation, provide an example, or solve a problem)	21	30%
3	Formulation, analysis, Evaluation and creativity based question (Appraise, judge, and /or justify the value or worth of a decision or outcome, or to predict outcomes) Classify, compare, contrast, or differentiate between different pieces of integrate unique piece of information from a variety of sources)	21	30%
	TOTAL	70	100

Total no of question is 31

NOTE: Internal Choice of 30% will be given

Easy- 20%

Average- 60%

Difficult- 20%