



Faculty of Humanities and Social Sciences

Scheme of Examination and Syllabus for Under Graduate Programme

**Under Multiple Entry and Exit, Internship
and CBCS-LOCF as per NEP-2020
w.e.f. session 2024-25 (in phased manner)**

Subject: Home Science



**Guru Jambheshwar University of Science
& Technology, Hisar-125001, Haryana**

(A+ NAAC Accredited State Govt. University)



**Guru Jambheshwar University of Science and
Technology Hisar-125001, Haryana**
(‘A+’ NAAC Accredited State Govt. University)



Name of the Programme: Bachelor of Art
Scheme of Examination for affiliated Degree College
According to National Education Policy-2020

Subject: Home Science

SEMESTER-III								
Type of Course	Course Code	Nomenclature of Paper/Course	Credits	Contact Hours	Internal Marks	External Marks	Total Marks	Duration of Exam (Hrs)
Discipline Specific Course	C24HOS301T	Textiles and Clothing	3	3	20	50	70	2.5
	C24HOS301P	Textiles and Clothing Lab	1	2	10	20	30	3
Minor Course/ Vocational Course	C24MIC313T	Consumer Education	2	2	15	35	50	2
	C24MIC313P	Consumer Education Lab	2	4	15	35	50	3
Multidisciplinary Course	C24MDC317T	Basics of Food and Nutrition	2	2	15	35	50	2
	C24MDC317P	Basics of Food and Nutrition Lab	1	2	10	15	25	2
Skill Enhancement Course	C24SEC313P	Baking Practical	3	6	25	50	75	3
SEMESTER-IV								
Type of Course	Course Code	Nomenclature of Paper/Course	Credits	Contact Hours	Internal Marks	External Marks	Total Marks	Duration of Exam (Hrs)
Discipline Specific Course	C24HOS401T	Child Development	3	3	20	50	70	2.5
	C24HOS401P	Child Development Lab	1	2	10	20	30	3
Minor Course/ Vocational Course	C24VOC413T	Traditional embroideries of India	2	2	15	35	50	2
	C24VOC413P	Traditional embroideries of India Lab	2	4	15	35	50	3
Value Added Course	C24VAC414T	Family Dynamics	2	2	15	35	50	2

Bachelor of Art
HOME SCIENCE

Program Outcomes:

- PO1** To develop skills in graduate students to be able to acquire theoretical and practical knowledge in fundamentals of Textiles and Clothing, Basics of Food and Nutrition and Child Development.
- PO2** To inculcate ability to critically evaluate problems and apply lateral thinking and analytical skills for professional development.
- PO3** To develop ability in youth for understanding basic scientific learning and effective communication skills.

Home Science
Textiles and Clothing
Discipline Specific Course (Semester III)

Course Code: C24HOS301T
45 Hrs (3 Hrs/Week)
Credit : 3
Exam Time: 2.5 Hrs

External Marks : 50
Internal Marks : 20
Total Marks: 70

Note: The maximum time duration for attempting the paper will be of 2.5 hours. The examiner is required to set seven questions in all. The first question will be compulsory consisting of five short questions covering the entire syllabus consisting of 2.5 marks each. In addition to that six more questions will be set, two questions from each unit. The students shall be required to attempt four questions in all selecting one question from each unit in addition to compulsory Question No. 1. All questions shall carry equal marks i.e. 12.5 marks.

Objectives: *The objective of Textiles and Clothing is to introduce with creation and care of textiles. The document discusses the manufacturing and properties of textile fibres, finishing, dyeing, printing and laundry supplies and methods.*

Unit - I

- Textile fibres: Classification on different basis
- Manufacture and properties of Cotton, Silk, Wool.
- Manufacture and properties of Nylon, Polyester and Rayon

Unit - II

- Finishing: Objectives, Classification, basic finishes- Bleaching, tentering, calendaring, sizing; Special finishes- Mercerizing, Preshrinking, crease resistant, water proofing, fire proofing.
- Dyeing: Classification of Dyes, Simple and Resist dyeing of cotton- Tie and Dye and Batik
- Printing: Hand printing and machine printing; Styles- Direct, Resist and Discharge

Unit - III

- Laundry supplies: Difference in soaps and detergents, types, composition; Starches, Blues and bleaches in brief
- Laundry methods: Dry cleaning and wet cleaning.
- Removal of stains: Classification and methods of removal of stains.

Textiles and Clothing Lab
Discipline Specific Course (Semester III)

Course Code: C24HOS301P
30 Hrs. (2 Hrs./Week)
Credit : 1
Exam Time: 2 Hrs.

External Marks : 20
Internal Marks : 10
Total Marks: 30

Tie and Dye: Five samples one Article
Printing: Stencil Printing and Block printing, one sample of each
Sewing samples: Basting, visible hemming, darts, tucks, pleats
Embroidery: Five -ten stitches, One hanky
Drafting: Drafting of petticoat.
Article: Petticoat

Books Suggested:

1. Sushma Gupta and Neeru Garg.2020. Clothing, Textiles and Laundry, Kalyani Publishers, India
2. S. Dantyagi. 1996. Fundamentals of Textiles and Their care.
3. Kavita Singh. 2017. Clothing and Textiles. Orange Books International.
4. Reena Rawal, Pooja Shanwal and Arzoo Jangra. 2022. Clothing and Textiles. Akinik Publication.
5. Manju Patni. Vatra evam Paridhan ka Parichay. Star Publications, Agra.
6. Saveera Rehlan (2022) Clothing and textiles Dinesh Publications, Ludhiana

Course Outcome:

At the end of the course the students would be able to:

- CO1 Understand and apply the concepts textile design to create pleasing textiles.
- CO2 Use problem solving skills in textiles, garments and laundry.
- CO3 Experiment with materials and processes of garment.

Home Science
Consumer Education
Minor Course (Semester III)

Course Code: C24MIC313T
30 Hrs (2 Hrs/Week)
Credit: 2
Exam Time: 2 Hrs

External Marks : 35
Internal Marks : 15
Total Marks: 50

Note: The maximum time duration for attempting the paper will be of 2 hours. The examiner is required to set five questions in all. The first question will be compulsory consisting of five short questions covering the entire syllabus consisting of 3 marks each. In addition to that four more questions will be set, two questions from each unit. The students shall be required to attempt three questions in all selecting one question from each unit consisting of 10 marks each in addition to compulsory Question No. 1.

Objectives: *Consumer education is the preparation of an individual to be capable of making informed decisions when it comes to purchasing products. It aims to protect them from unfair practices and malicious companies.*

Unit - I

- Consumer – Meaning, Consumer choice, Consumer problems
- Consumer education- Meaning and importance
- Consumer protection – Government legislations, Consumer Protection Act
- Consumer rights and responsibilities

Unit - II

- Consumer information and aid- persons, labels, commercial information, advertisements, consumer protection organizations, extension agencies
- Standard Marks: ISI, FPO, AGMARK, Woolmark, Ecomark, FSSAI, BIS
- Food adulteration

Consumer Education Lab
Minor Course (Semester III)

Course Code: C24MIC313P
60 Hrs (4 Hrs/Week)
Credit: 2
Exam Time: 3 Hrs

External Marks : 35
Internal Marks : 15
Total Marks: 50

- Collection of user manual of any one household equipment.
- Collection of product labels: Food, clothing, fabrics, medicines, cosmetics, etc at least two of each
- Collection of standard marks and imitation goods
- Food adulteration tests at household level – Any 5-10
- Fibre identification tests- Visual and Burning test of cotton, wool, silk, nylon, polyester.

Books Suggested:

1. Bela Bhargava (2005) Family resource management and interior decoration. Apple printer and VR Printers, Jaipur
2. Mann, M K (2004) Home Management for Indian Families, Kalyani Publisher, Ludhiana.
3. Premrata Mullick (2011). Textbook of Home Science, Kalyani Publisher, New Delhi.
4. Sushma Gupta, Neeru Garg and Amita Aggarwal (1993). Home management, Hygiene and Physiology, Kalyani Publishers, New Delhi.

Course Outcome:

At the end of the course the students would be able to:

- CO1 To learn the relationships between consumer behavior and consumer problems.
CO2 To enable the students to make informed choices in the market place.
CO3 To educate students about their rights and responsibilities.
CO4 To make students aware of all types consumer aid available.

Home Science
Basics of Food and Nutrition
Multi-Disciplinary Course (Semester III)

Course Code: C24MDC317T
30 Hrs (2 Hrs/Week)
Credit : 2
Exam Time: 2 Hrs

External Marks: 35
Internal Marks: 15
Total Marks: 50

Note: The maximum time duration for attempting the paper will be of 2 hours. The examiner is required to set five questions in all. The first question will be compulsory consisting of five short questions covering the entire syllabus consisting of 3 marks each. In addition to that four more questions will be set, two questions from each unit. The students shall be required to attempt three questions in all selecting one question from each unit consisting of 10 marks each in addition to compulsory Question No. 1.

Objectives: *Create awareness for importance of food groups and nutrients obtained from them.*

Unit – I

Food- Classification & functions of food groups.

Nutrients: Macronutrients, Carbohydrates, protein, fats - their food sources, functions, RDAs, effect of deficiency.

Unit – II

Micronutrients: Vitamins, and Minerals: their food sources, functions, RDAs, effect of deficiency.

Water and dietary fiber

Basics of Food and Nutrition Lab
Multi-Disciplinary Course (Semester III)

Course Code: C24MDC317P
30 Hrs. (2 Hrs./Week)
Credit : 1
Exam Time: 2 Hrs.

External Marks : 15
Internal Marks : 10
Total Marks: 25

Preparation of beverages, sandwiches, salads, sprouts, ice-creams, chocolates, desserts, stuffed chapati - one each

Books Suggested:

1. B. Srilakshmi. Food Science. New Age International Publisher.
2. Sumati R Maudambi and MV Rajagopal. 2020. Food, Nutrition and Diet Therapy. New Age International Publisher.
3. Vrinda Singh. 2020. Ahar Vigyan evam Poshan. Panchsheel Prakashan.

Course Outcome:

At the end of the course the students would be able to:

- CO1 To gain knowledge about symptoms, prevention and treatment of various nutrient deficiency diseases.
- CO2 To understand the importance of foods for good health.
- CO3 To learn practical skills to prepare different nutrient rich recipes.

Home Science
Baking Lab
Skill Enhancement Course (Semester III)

Course Code: C24SEC313P
90 Hrs (6 Hrs/Week)
Credit: 3
Exam Time: 3 Hrs

External Marks: 50
Internal Marks: 25
Total Marks: 75

Objectives: *The objective of baking is to have practical knowledge of baking and preparation of bakery items.*

Baking Lab

Introduction to bakery and different baked products

Study of various types of baking equipment

Types of baking ingredients- Flour, salt, sweeteners, leavening agents, fats and oils and their uses

Preparation and cost calculation of different types of baked products- Cakes, biscuits, nan khatai, Pizza, pastry, garlic bread, bread, muffins etc.

Cake Decoration.

Books Suggested:

1. Dubey SC (2017) Basic baking. Edition 5, Chanakya Mudrak Pvt. Ltd.
2. Raincact AL (2013) Basic food preparation- Complete manual. Third edition. Orient Longman Pvt. Ltd.
3. Manay S & Shanaksharaswami M (2014) Foods: Facts and Principles, New Age Publishers, New Delhi.
4. Yogamble Sivalingam (2023) Textbook of Bakery and Confectionery. Third edition. PHI Learning Pvt. Ltd.
5. Amit Vohra (2024) Fundamentals of baking. Amit Vohra publication, India.

Course Outcome:

At the end of the course the students would be able to:

- CO1 To have knowledge of ingredients used in baking
- CO2 To know about role of leavening and moistening agents
- CO3 To obtain knowledge about baked products' preparation, their faults and decoration ideas

Home Science
Child Development
Discipline Specific Course (Semester IV)

Course Code: C24HOS401T
45 Hrs (3 Hrs/Week)
Credit : 3
Exam Time: 2.5 Hrs

External Marks : 50
Internal Marks : 20
Total Marks: 70

Note: The maximum time duration for attempting the paper will be of 2.5 hours. The examiner is required to set seven questions in all. The first question will be compulsory consisting of five short questions covering the entire syllabus consisting of 2.5 marks each. In addition to that six more questions will be set, two questions from each unit. The students shall be required to attempt four questions in all selecting one question from each unit in addition to compulsory Question No. 1. All questions shall carry equal marks i.e. 12.5 marks.

Objectives: *To educate students about human life span stages, tasks, aspects and methods of study. To make students aware about factors affecting development.*

Unit - I

- Importance of Child Development study, basic concepts- Growth, Development, Maturation, Learning
- Stages of development through life span- Infancy, early childhood, late childhood, adolescence, etc.
- Development tasks at each stage of development till adolescence

Unit – II

- Domains of development: Physical, Motor, Language, Cognitive, Social, Emotional, etc.
- Methods of child study: Observation, interview, questionnaire, etc.

Unit – III

- Principles of Development; Factors affecting postnatal growth and development
- Prenatal Development; Factors affecting prenatal development
- Exceptional Children

Child Development Lab
Discipline Specific Course (Semester IV)

Course Code: C24HOS401P
30 Hrs. (2 Hrs./Week)
Credit : 1
Exam Time: 2 Hrs.

External Marks : 20
Internal Marks : 10
Total Marks: 30

- Assessment of physical development, motor development and language development in early childhood
- Assessment of social development in late childhood
- Observation of a preschool child in home setting / outdoor setting / preschool setting
- Survey of a creche / Anganwadi/ play way/ nursery school
- Teaching aids related child development- One for each domain

Books Suggested:

1. Hurlock, EB (2001). Child development. Tata McGraw Hill Education, India
2. Abha Goyal (2016). Manav Vikas Ka Parichay. Kailash Pustak Sadan, India
3. Vimal Agrawal. Human Development. SBPD Publication, India

Course Outcome:

At the end of the course the students would be able to:

- CO1 To understand the concept of child development.
- CO2 To acquaint students with the methods of child development study.
- CO3 To impart knowledge about factors affecting development.

Home Science
Traditional Embroideries of India
Minor/Vocational Course (Semester IV)

Course Code: C24VOC413T
30 Hrs (2 Hrs/Week)
Credit : 2
Exam Time: 2 Hrs

External Marks : 35
Internal Marks : 15
Total Marks: 50

Note: The maximum time duration for attempting the paper will be of 2 hours. The examiner is required to set five questions in all. The first question will be compulsory consisting of five short questions covering the entire syllabus consisting of 3 marks each. In addition to that four more questions will be set, two questions from each unit. The students shall be required to attempt three questions in all selecting one question from each unit consisting of 10 marks each in addition to compulsory Question No. 1.

Objectives: *The course aims to provide fashion designers a clear perspective on traditional embroideries and their application in innovative fashion design. The curriculum presents embroidery as a rewarding art.*

Unit – I

- Phulkari of Punjab and Haryana
- Kasuti of Karnataka
- Chamba Rumal of Himachal
- Embroidery of Kutch and Kathiawar

Unit - II

- Chikankari of UP
- Kashidakari of Kashmir
- Kantha of Bengal
- Khatwa patch work of Bihar

Traditional Embroideries of India Lab
Minor/Vocational Course (Semester IV)

Course Code: C24VOC413P
60 Hrs (4 Hrs/Week)
Credit: 2
Exam Time: 3 Hrs

External Marks : 35
Internal Marks : 15
Total Marks: 50

Preparing 8 samples of embroideries of different states of India

Books Suggested:

1. Savitri Pandit. (1976) Indian Embroidery- Its variegated charm.
2. Santosh Batlia (2006) Bharat ki paramparagat kasheedakari. Madhya Pradesh Hindi Granth Academy, Bhopal.
3. Jamila Brijbhushan. (2006) Indian Embroidery. Ministry of information and Broadcasting.
4. Shailaja D Naik (1996) Traditional Embroideries of India. South Asia Books.

Course Outcome:

At the end of the course the students would be able to:

- CO1 Understanding the specialty of embroidery art of different states of India.
- CO2 Acquire the knowledge of application of elements of arts and principles of design in embroidery
- CO3 Gains information about the methods of developing traditional embroidery design.

Home Science
Family Dynamics
Value Added Course (Semester IV)

Course Code: C24VAC414T

30 Hrs (2 Hrs/Week)

Credit: 2

Exam Time: 2 Hrs

External Marks: 35

Internal Marks: 15

Total Marks: 50

Note: The maximum time duration for attempting the paper will be of 2 hours. The examiner is required to set five questions in all. The first question will be compulsory consisting of five short questions covering the entire syllabus consisting of 3 marks each. In addition to that four more questions will be set, two questions from each unit. The students shall be required to attempt three questions in all selecting one question from each unit consisting of 10 marks each in addition to compulsory Question No. 1.

Objectives: *The aim of this paper is to understand marriage and family and lay the foundation for happy family and satisfactory relationships.*

Unit - I

- Family – Meaning, Types, Functions
- Modern changes in family
- Marriage- meaning, Types, Selection of spouse
- Marital adjustment

Unit - II

- Joint family -Advantages and Disadvantages
- Single parenting- Single mother, single father, problems faced
- Parenting styles, Grand parenting styles
- Divorce: Grounds, Settlements-Child support, Alimony, Distribution of assets, allocation of debts, etc

Books Suggested:

1. Hurlock, EB (2001). Child development. Tata McGraw Hill Education, India
2. Abha Goyal (2016). Manav Vikas Ka Parichay. Kailash Pustak Sadan, India
3. Vimal Agrawal. Human Development. SBPD Publication, India

Course Outcome:

At the end of the course the students would be able to:

- | | |
|-----|--|
| CO1 | At the end of the course students will be able to understand family and marriage in real sense |
| CO2 | Students will be able to start a family wisely. |
| CO3 | Students will acquire the skill of making different kinds of adjustments required in a family. |