



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)



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Scheme of Examination & Syllabus for affiliated Degree Colleges for UG Programme
According to National Education Policy-2020

Subject: Home Science

SEMESTER-I								
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	C24HOS101T	Interior Decoration in home	3	3	20	50	70	2.5
	C24HOS101P	Interior Decoration in home Lab	1	2	10	20	30	2
Minor Course/Vocational Course	C24MIC113T	Housing and space planning	2	2	15	35	50	2
Minor Course/Vocational Course [#]	C24MIN113T	Housing and space planning	4	4	30	70	100	3
Multidisciplinary Course	C24MDC117T	Health and Hygiene	2	2	15	35	50	2
	C24MDC117P	Health and Hygiene Lab	1	2	10	15	25	2
Skill Enhancement Course	C24SEC113T	Hand Fabric and Printing Dyeing Techniques	2	2	15	35	50	2
	C24SEC113P	Hand Fabric and Printing Dyeing Techniques Lab	1	2	10	15	25	2
SEMESTER-II								
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	C24HOS201T	Family Resource management	3	3	20	50	70	2.5
	C24HOS201P	Family Resource management Lab	1	2	10	20	30	2
Minor Course/Vocational Course	C24MIC213T	Early Childhood Care & Education	2	2	15	35	50	2
Minor Course/Vocational Course [#]	C24MIN213T	Early Childhood Care & Education	4	4	30	70	100	3
Multidisciplinary Course	C24MDC217T	Basics of Fashion Design	2	2	15	35	50	2
	C24MDC217P	Basics of Fashion Design Lab	1	2	10	15	25	2
Skill Enhancement Course	C24SEC213T	Ice creams and chocolate Craft	2	2	15	35	50	2
	C24SEC213P	Ice creams and chocolate Craft Lab	1	2	10	15	25	2

[#] for Scheme C only

Program Outcomes:

- PO1** To enable students to acquire theoretical and practical knowledge in fundamentals of allied subjects of science & arts to apply them in the study of home science.
- PO2** To inculcate ability to critically evaluate problems and apply lateral thinking and analytical skills for the study of home science.
- PO3** To develop scientific attitude & skills in home science students to enable them to become good home makers & Excel professionally

Home Science
Interior Decoration in Home (Semester I)
Discipline Specific Course (DSC)

Course Code: C24HOS101T
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 interior design is to create beauty, expressiveness, and functionality within an interior space. The document discusses the key principles and elements of interior design.*

Unit - I

Interior decoration: Meaning and Objectives.
Types of design: Structural, Functional and Decorative.
Elements of art in interior decoration: Line, Shape, Form, Texture, Light, Pattern, Colour, Space.

Unit - II

Colour in house interior: Properties of Colour, Psychological effect of Colour, Colour Schemes
Lighting: Types, Requirement for various activities, Lighting fixtures in home
Principles of design in interior decoration: Rhythm, Balance, Proportion, Emphasis, Harmony

Unit - III

Table setting and table manners: Informal and Formal Table Settings (Buffet Style, Indian Style Restaurant Style, Café Style), Table Accessories.
Furniture: Types of Furniture, Furniture Arrangement for Different Areas (Bedroom, Drawing Room, Dining Room, Kitchen and its Types).
Factors Affecting the Selection and Purchase of Furniture, Care and Maintenance of Furniture.

Interior Decoration in Home Lab

Course Code: C24HOS101P
30 Hrs. (2 Hrs./Week)
Credit : 1
Exam Time: 2 Hrs.

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

- Floor decoration: Alpana and Rangoli
- Pottery Painting and Decoration / Bottle art / Vase designing and decoration (One)
- Creating various art pieces/accessories using various types of materials and techniques like Paper cutting/ folding, Collage, Candle making, Stone painting, Artificial flowers, dry flower arrangement / bouquet, Lippan art, Three D outliner plate, Mandala art, Mural art (Any 2).
- Table setting (Single person and party) and Napkin folding.
- Flower arrangement for different Rooms and Occasions.
- Planning color Schemes for different Rooms using collage technique (Drawing room, Bed room, children room)

Books Suggested:

1. Seetharaman P. (2019), Interior Design and Decoration, India: CBS.
2. M. Pratap Rao (2020), Interior Design: Principles and Practice, India, Standard Publishers and Distributors Pvt Ltd
3. Frida Ramstedt (2020), The Interior Design Handbook: Furnish, Decorate, and Style Your Space, Clarkson Potter publishing.
4. Dr. Bhargava B. (2007), Principles of art, University Book House Pvt. Ltd.
5. Lawrence M, (1987), Interior Decoration, New Jersey: Chartwell Books.
6. Riley & Bayen., (2003), the Elements of Design, Mitchell Beazley.

Course Outcome:

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

CO1 Develop and apply concepts of art & design to create aesthetically pleasing interiors.

CO2 Use problem solving skills creatively.

CO3 Experiment with traditional and contemporary materials and processes.

Mapping of CO with PO

Outcomes	PO1	PO2	PO3
CO1	S	M	M
CO2	M	M	M
CO3	S	M	W

S= Strong

M=Medium

W=Weak

Home Science
Housing and space planning (Semester I)
Minor Course (MIC)

Course Code: C24MIC113T
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: *Space planning is the process of analyzing how space in structures and rooms will be used. Good space planning considers possible space uses and ensures that they're used efficiently. The process results in a space plan, a drawing that identifies the needs and required elements of spaces.*

Unit - I

Importance of housing, Housing terms, Significance of house, Functions of House, Housing values, Types of Houses.

Family and changing Housing needs, family stage and Housing Demand, Characteristics of Rural and Urban Housing. Housing choice- ownership versus renting

Unit - II

Selection of site for house construction

Principles of Planning- Aspect, Privacy, Grouping, roominess, Flexibility, Circulation, sanitation, Furniture need, Prospect, economy, Elegance,

Classification and selection of building materials: Building components such as Stones, Bricks, Blocks, Concrete, etc.; Roofing components; Binders: Cement, Lime, Polymer, etc; Waterproofing materials; Paints.

Books Suggested:

1. N. Kumara Swamy & A. Kameswara Rao (2019), Building Planning and Drawing, Charotar Publishing House Pvt. Ltd.
2. Brinda Singh (2020), Grah prabandh Evam aantrik sajja (Home Management & Interior Decoration), Panchsheel Prakashan.
3. Bhargava B. (2007), Principles of art, University Book House Pvt. Ltd.
4. Goldstein, H. and Goldstein, V (1967): Art in Everyday life; New Delhi: Oxford and IBH publishing company .
5. Lawrence M, (1987), Interior Decoration, New Jersey: Chartwell Books.
6. Adler, David.(2004), Metric Hand Book planning & Design, Architectural press.
7. Kumar, Sushil (2008), Building Construction, Standard publisher.

Course Outcome:

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

- CO1 To learn the relationships that characterizes art and design practice in building a house.
CO2 To enable the students to explore theories and modern methods of interior space planning and management.
CO3 To encourage learning of traditional and contemporary housing materials, technical processes and methods of modern construction.
CO4 To impart knowledge and skills for making different floor plans for different income groups.

Mapping of CO with PO

Outcomes	PO1	PO2	PO3
CO1	S	M	S
CO2	W	S	M
CO3	S	M	S
CO4	M	S	W

S= Strong

M=Medium

W=Weak

Home Science
Housing and space planning (Semester I)
Minor Course (MIC)

Course Code: C24MIN113T
60 Hrs. (4 Hrs./Week)
Credit : 4
Exam Time: 3 Hrs.

External Marks : 70
Internal Marks : 30
Total Marks: 100

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

Objectives: *Space planning is the process of analyzing how space in structures and rooms will be used. Good space planning considers possible space uses and ensures that they're used efficiently. The process results in a space plan, a drawing that identifies the needs and required elements of spaces.*

Unit I

Importance of housing, Housing terms, Significance of house, Functions of House, Housing values, Types of Houses, Housing ergonomics.

Unit II

Family and changing Housing needs family stage and Housing Demand, Characteristics of Rural and Urban Housing. Housing choice- ownership versus renting. Housing Finance.

Unit III

Selection of site for house construction. Housing legislations. Principles of Planning- Aspect, Privacy, Grouping, roominess, Flexibility, Circulation, sanitation, Furniture need, Prospect, economy, Elegance.

Unit IV

Housing Standards. Types of House plans. Classification and selection of building materials: Building components such as Stones, Bricks, Blocks, Concrete, etc.; Roofing components; Binders: Cement, Lime, Polymer, etc; Waterproofing materials; Paints.

Books Suggested:

1. Dr. N. Kumara Swamy & A. Kameswara Rao (2019), Building Planning and Drawing, Charotar Publishing House Pvt. Ltd.
2. Dr. Brinda Singh (2020), Grah prabandh Evam aantrik sajja (Home Management & Interior Decoration), Panchsheel Prakashan.
3. Dr. Bhargava B. (2007), Principles of art, University Book House Pvt. Ltd.
4. Goldstein, H. and Goldstein, V. (1967): Art in Everyday life; New Delhi: Oxford and IBH publishing company .
5. Lawrence M, (1987), Interior Decoration, New Jersey: Chartwell Books.
6. Adler, David. (2004), Metric Hand Book planning & Design, Architectural press.
7. Kumar, Sushil (2008), Building Construction, Standard publisher.

Course Outcome:

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

- CO1 To learn the relationships that characterizes art and design practice in building a house.
CO1 To enable the students to explore theories and modern methods of interior space planning and management.
CO2 To encourage learning of traditional and contemporary housing materials, technical processes and methods of modern construction.
CO3 To impart knowledge and skills for making different floor plans for different income groups.

Mapping of CO with PO

Outcomes	PO1	PO2	PO3
CO1	S	M	S
CO2	W	S	M
CO3	S	M	S
CO4	M	S	W

S= Strong M=Medium W=Weak

Home Science
Health and Hygiene (Semester I)
Multi-Disciplinary Course (MDC)

Course Code: C24MDC117T
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 among communities towards sanitation and cleanliness. To bring about behavioral changes in the people towards sanitation and hygiene. And life. To tell people how sanitation is linked to their overall health and happiness.*

Unit – I

Meaning and Objective of Health Education.

Personal Hygiene- definition of health and factors affecting it, food habits, cleanliness, exercise, and sleep.

First Aid: meaning, and importance in daily life.

Definitions of Infection, infective agents, and period of infectivity; Types of diseases and their modes of spread;

Channels of infection

Disinfectants – definition, types, and methods of disinfection.

Unit - II

Infectious Diseases - causes, incubation period, mode of spread, symptoms, prevention, and control of:

- i. Diseases spread by insects -Malaria, Dengue.
- ii. Diseases spread by ingestion - Diarrhea, Hepatitis
- iii. Diseases spread by virus – Polio, Measles
- iv. Disease spread by contact – Conjunctivitis (pink eyes), AIDS

Immunity - definition, types of immunity& immunization schedule.

Health and HygieneLab

Course Code: C24MDC117P
30 Hrs. (2 Hrs./Week)
Credit : 1
Exam Time: 2 Hrs.

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

Preparing First Aid Kit, First aid training

Survey of Immunization Schedules

Making teaching aids on Health and Hygiene: Pamphlets/Leaflets/ folders, Chart, Poster, and Collage

Books Suggested:

1. Sweera Rehlan (2018) Hygiene, S. Dinesh Sales Corporation, Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar.
2. Santosh S, Tikoo (2018) Health, Hygiene and Applied Science, Modern Publishers,
3. Gulab Bhawan,-6, Bahadur Shah Zafar Marg, New Delhi
4. Yash pal Bedi (1976) Hygiene & Public Health. Anand Publishing Co., gali No. 1,Nawan Kot Amritsar.
5. V. N. Hhave, (1975) You & Your HealthNational Book Trust
6. Bihari Lal Bhatia, (1961) Elementary. Hygiene, Orient Longmans, Ltd. Calcutta -13
7. J.E. Park, (1983) Preventive & Social Medicine, Jabalpur Messrs. Banarsidas Bhanot
8. Birendra Nath Ghosh, (1969) Hygiene & Public Health Calcutta Scientific PublishingCo. 4.

Course Outcome:

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

- CO1 Identify various diseases based on their symptoms
- CO2 Elaborate the importance of hygiene and health.
- CO3 Create awareness regarding prevention of diseases
- CO4 Perform Surveys of Immunization Schedules
- CO5 Apply principles & procedures of first aid in life of self & others

Mapping of CO with PO

Outcomes	PO1	PO2	PO3
CO1	S	M	S
CO2	W	S	M
CO3	S	M	S
CO4	M	S	W
CO5	S	W	M

S= Strong

M=Medium

W=Weak

Home Science
Hand Fabric and Printing Dyeing Techniques(Semester I)
Skill Enhancement Course (SEC)

Course Code: C24SEC113T
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 the course is for students to explore a variety of block, stencil making and fabric printing skills, learn about dyes, print and fabrics. You are encouraged to develop a creative approach to printed textiles, build up confidence and enjoyment working with fabrics.*

Unit - I

Meaning of Dyes and pigments, Classification of Dyes based on source and application.
Difference in Dyeing and Printing,
Printing techniques: Direct, resist and discharge printing.

Unit – II

Traditional Hand Printing methods: Kalamkari, Stencil printing, Hand screen printing, Hand Block Printing, Batik, Ikat, Double ikat, Khadi printing, etc.
Other hand printing methods: Fabric painting, Iron on, flock printing, etc.

Hand Fabric and Printing Dyeing TechniquesLab

Course Code: C24SEC113P
30 Hrs. (2 Hrs./Week)
Credit : 1
Exam Time: 2 Hrs.

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

Tie and Dye, Batik, Fabric painting with brush, Stencil, Screen, Spray, Block, Iron on printing, Khadi printing. Resist printing, Metallic printing, Puff prints, Flock Print, Discharge print, etc.

Books Suggested:

1. Corbman. P., Fibre to Fabric, 1983, 6 th edition, Mc Graw-Hill international editions.
2. Hall. A.J., 1955, Handbook of Textiles dyeing and printing, the national trade press PP: 39-66.
3. Gohl.E.P.G and Vilensky.L.d. Textile science, 1987, CBS Publishers and distributors. pp: 120.
4. Norma Hollen, Jane saddler, 1979, Textiles, 5thedition, Macmillan Publishings.Co., Inc. New York.1979.
5. Vatsala.R, 2003, Text book of textiles and clothing, Indian council of agricultural research. pp: 111-122.

Course Outcome:

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

- CO1 Name different types of dyes
- CO2 Apply different methods of dyeing.
- CO3 Use different types of printing technique

Mapping of CO with PO

Outcomes	PO1	PO2	PO3
CO1	S	W	S
CO2	W	M	M
CO3	M	W	S

S= Strong M=Medium W=Weak

Home Science
Family Resource management (Semester II)
Discipline Specific Course (DSC)

Course Code: C24HOS201T
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 student about management in the family as well as in other sphere of life. To make student aware about maximum utilization of their resources to meet their goals.*

Unit - I

Functions of Home: Home as an economic unit
Resource Management - definition, importance, and steps in the process of management
Family Resources - definition, classification, and management of resources.

Unit – II

Money Management - meaning, types of income, process of money management, budget.
Savings: Bank Schemes, Post Office Schemes, etc.
Investment: Gold, Real estate, etc.

Unit – III

Time Management - process of time management and peak loads.
Energy Management: - process of energy management, fatigue, and rest periods.
Work Simplification - meaning and methods.

Family Resource management Lab

Course Code: C24HOS201P
30 Hrs. (2 Hrs./Week)
Credit : 1
Exam Time: 2 Hrs.

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

- Keeping income and expenditure records; Making family budget.
- Collection of product labels, standard marks, imitation goods
- Making time plan: College Student, Housewife, Working adult male
- Project Report on saving / investment schemes: Bank/ post office/ other.
- Preparation of house plans: 100 sq. yd. 200 sq. yd. 300 sq. yd. (Any one)
- Layout of different rooms (with furniture): Drawing cum dining room, Bed room, Four types of kitchen
- Cleaning & polishing of – Brass/Copper, Silver, Aluminum, Steel, Mirror/Glass articles.

Books Suggested:

1. Bela Bhargava (2005). Family Resource Management and Interior decoration. Apple Printer and V.R. Printers, Jaipur.
2. Premalatha Mullick (2011). Textbook of Home Science, Kalyani Publishers, New Delhi.
3. Sushma Gupta, Neeru Garg and Amita Aggarwal (1993). Home Management, Hygiene and Physiology. Kalyani Publishers, Ludhiana.
4. Varghese, M. A., Ogale, N.N., Srinivasan, K. (1917). Home Management. New Age International (P) Limited, New Delhi.
5. Tikoo, S.S. (2022). Family Resource Management. Modern Publishers, Jalandhar.
6. Sweera Rehlan (2018) Family Resource Management, S. Dinesh Sales Corporation, Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar.
7. Santosh S, Tikoo (2018) Resource Management, Modern Publishers, Gulab Bhawan, -6, Bahadur Shah Zafar Marg, New Delhi
8. Ruth E. Deacon. Francille M. Firebaugh (1975): Family Resource Management – Principle and Application, Roy Houghton Mifflin Company
9. Devdas Rajamal. P. The meaning of Home Science, Sri Avinashlingam Home Science College, Coimbatore.
10. P. Kalpana R. "What is Home Science," Evira Publications, Vadodra.
11. ThaniY. (1991). Encyclopedia of Athletics. GianPub., Delhi.

Course Outcome:

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

- CO1 Manage human and non-human resources for maximum output
- CO2 Prepare balance sheets of income & expenditure
- CO3 Design layouts of different rooms.
- CO4 Use work simplification techniques in daily life.

Mapping of CO with PO

Outcomes	PO1	PO2	PO3
CO1	S	W	S
CO2	W	M	M
CO3	S	S	S
CO4	M	M	S

S= Strong

M=Medium

W=Weak

Home Science
Early Childhood Care & Education (Semester II)
Minor Course (MIC)

Course Code: C24MIC213T
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 Early Childhood Care and Education is to facilitate optimum development of the child's full potential and lay the foundation for all round development and lifelong learning.*

Unit - I

Early Childhood care & Education: Nature, meaning, need, importance, aims, objective, principles & scope of ECCE, Types of pre-schools/programmes play centers, day care, kindergarten, balwadi, anganwadi, mobile crèches, Contribution of thinkers to the development of ECCE: Pestalozzi, Rousseau, Froebel, Montessori, Gandhi, Tagore, Tarabai Modak etc.

Unit - II

Organizational Set up: Building & Equipment- Location, site, size and arrangement of rooms, playground, play equipment, storage facilities, maintenance of the equipments and furniture, administrative set up staff & personnel working at different level; Role, responsibilities and essential qualities of teacher & other personnel.
Curriculum & Activities: Principles & types of curriculum planning for pre-school, activities of curriculum for physical development, healthful living, social & emotional development, cognitive development & creative art & craft

Books Suggested:

1. Early Childhood care & Education (ECCE) - J. Mohanty & B. Mohanty - Deep & Deep Publication Pvt Ltd, New Delhi.
2. Pre-school Children Development, care & Education A. Chowdhury & R. Choudhury- New Age International Limited - Publishers, New Delhi.
3. Pre-school Education- Philosophy & practice- G. Pankajam-The Indian Publications-Ambala Cantt.
4. Theory & Principles of Education- Bhatia & Bhatia - Doaba House, Delhi.
5. Introduction to Early Childhood Education-J.A.Brewer, Allyn & Bacon. Boston,
6. Early Childhood Education- Barbara Day-Macmillan, New York.
7. Early Childhood Education-J.S. Garewal- Agra national Psychological Corporation Publishers.
8. Introduction to Early Childhood Education-Hilde brand Vena, Macmillan-New York.
9. Early Childhood Education programme, V.Kaul NCERT, New Delhi.
10. Guide to Nursery School Teacher - R. Muralidharan NCERT.

Course Outcome:

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

- | | |
|-----|--|
| CO1 | Elaborate different aspects of early childhood care and education |
| CO2 | Set up play schools, preschools or Crèches |
| CO3 | Apply the thoughts & contributions of different thinkers in the development of ECE |
| CO4 | Skillfully plan pre-school, activities as per the curriculum of ECE |

Mapping of CO with PO

Outcomes	PO1	PO2	PO3
CO1	S	W	S
CO2	W	M	M
CO3	S	S	S
CO4	M	M	S

S= Strong M=Medium W=Weak

Home Science
Early Childhood Care & Education (Semester II)
Minor Course (MIC)

Course Code: C24MIN213T
60 Hrs. (4 Hrs./Week)
Credit : 4
Exam Time: 3 Hrs.

External Marks : 70
Internal Marks : 30
Total Marks: 100

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

Objectives: *The aim of Early Childhood Care and Education is to facilitate optimum development of the child's full potential and lay the foundation for all round development and lifelong learning.*

Unit-I

Early Childhood care & Education: Nature, meaning, need, importance, aims, objective, principles & scope of ECCE, Types of pre-schools/programmes play centers, day care, kindergarten, balwadi, anganwadi, mobile crèches, Contribution of the agencies to ECCE in India (ICCW, IAPE, NCERT, ICDS, UNICEF, CARE)

Unit-II

Contribution of various thinkers to the development of ECCE: Pestalozzi, Rousseau, Froebel, Dewey, Montessori, Gandhi, Tagore, Aurobindo, Tarabai Modak etc.

Unit-III

Organizational Set up: Building & Equipment- Location, site, size and arrangement of rooms, playground, play equipment, storage facilities, maintenance of the equipments and furniture.
Administrative set up staff & personnel working at different level; Role, responsibilities and essential qualities of teacher & other personnel. Record & report-significance, types.

Unit-IV

Curriculum & Activities: Principles & types of curriculum planning for pre-school, activities of curriculum for physical development, healthful living, social & emotional development, cognitive development & creative art & craft.

Books Suggested:

1. Early Childhood care & Education (ECCE) - J.Mohanty & B.Mohanty - Deep & Deep Publication Pvt Ltd, New Delhi.
2. Pre-school Children Development, care & Education A.Chowdhury & R. Choudhury- New Age International Limited - Publishers, New Delhi.
3. Pre-school Education- Philosophy & practice- G.Pankajam-The Indian Publications-Ambala Cantt.
4. Theory & Principles of Education- Bhatia & Bhatia - Doaba House, Delhi.
5. Introduction to Early Childhood Education-J.A.Brewer, Allyn & Bacon. Boston,
6. Early Childhood Education- Barbara Day-Macmillan, New York.
7. Early Childhood Education-J.S.Garewal- Agra national Psychological Corporation Publishers.
8. Introduction to Early Childhood Education-Hilde brand Vena, Macmillan-New York.
9. Early Childhood Education programme, V.Kaul NCERT, New Delhi.
10. Guide to Nursery School Teacher - R. Muralidharan NCERT.

Course Outcome:

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

- | | |
|-----|--|
| CO1 | Elaborate different aspects of early childhood care and education |
| CO2 | Set up play schools, preschools or Crèches |
| CO3 | Apply the thoughts & contributions of different thinkers in the development of ECE |
| CO4 | Skillfully plan pre-school, activities as per the curriculum of ECE |

Mapping of CO with PO

Outcomes	PO1	PO2	PO3
CO1	S	W	S
CO2	W	M	M
CO3	S	S	S
CO4	M	M	S

S= Strong

M=Medium

W=Weak

Home Science
Basics of Fashion Design (Semester II)
Multi-Disciplinary Course (MDC)

Course Code: C24MDC217T
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 creativity and its application in innovative fashion design. The curriculum presents fashion design as a fun, invigorating, topical and rewarding art. It introduces techniques for students to get new, fresh and original design ideas.*

Unit – I

Fashion terminology: Fashion, trend, ready to wear, Custom made, Fit, Costume, Boutique, Fad, Classic, Design, Fashion design, Structural design, decorative design, pattern, CAD,
Elements of dress design: Line, Colour, Texture, Pattern,
Principles of dress design: Balance, Proportion, Rhythm, Emphasis, Harmony/ Unity

Unit - II

Steps in garment construction: Selection of design, taking anthropometric measurements, pattern making, preparation of fabric, layout, cutting, sewing, finishing.
Importance and essentials of pattern making
Methods of creating patterns: Drafting, Draping, Commercial paper pattern
Equipment and supplies used in garment construction

Basics of Fashion Design Lab

Course Code: C24MDC217P
30 Hrs. (2 Hrs./Week)
Credit : 1
Exam Time: 2 Hrs.

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

Sample file: hand stitches, seams, darts, tucks, pleats, gathers, fasteners
Drafting and sewing of different sleeves and collars

Books Suggested:

1. Sushma Gupta, Neeru Garg and Renu Saini Test book of clothing, textiles, and laundry Kalyani Pub.
2. Doongaji S., Deshpande R., 1989. Basic processes and clothing construction. 2nd Ed. New raj book depot, New Delhi.
3. Nornia D'Souza, 1998. Fabric Care, New Age International Pvt. Ltd., New Delhi
4. G.J. Sumathi, 2022. Elements of fashion and apparel design, New Age International Publishers 2cc
5. Ireland Patric, 1972. Basic Fashion Design, London, B.T. Bastford Ltd.
6. W.S. Murphy, 2003. Textile weaving and design, Abhishek Publication.
7. Hideaka Chijiwa, Colour Harmony- A Guide to creative colour combination
8. Dantyagi, S. (1996). Fundamentals of Textiles and their Care. India: Orient Black swan Private Limited.
9. D'Souza, N. (2014). Fabric Care. New Delhi: New Age International Publishers.

Course Outcome:

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

- CO1 Understand the concepts of fashion and design.
- CO2 Apply the knowledge of elements of arts and principles of design in clothing construction
- CO3 Use different techniques of dress designing.
- CO4 Stitch different types of collars & sleeves
- CO5 Skillfully use different methods in developing design.

Mapping of CO with PO

Outcomes	PO1	PO2	PO3
CO1	S	M	S
CO2	W	S	M
CO3	W	M	W
CO4	S	W	S
CO5	W	M	M

S= Strong

M=Medium

W=Weak

Home Science
Ice Creams and Chocolate Craft(Semester II)
Skill Enhancement Course (SEC)

Course Code: C24SEC213T
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 objectives of an ice cream business come down to two primary goals – making customers happy and making a profit. While those objectives might seem simple enough, they need to be broken down into smaller, clearer steps.*

Unit - I

Definition of ice cream as per fssa (2006). Classification of ice cream-i, plain, fruit and nut, chocolate, ice lollies, candies, kulfi & malai-ka-baraf

Classification of ice cream: Sherbets and ices, mousses, gelato, bisque, custards, cassata, variegated ice cream, novelties, etc.

Composition of ice cream (low fat, good average, premium) and frozen desserts (sherbets, ices, soft serve)

Unit – II

Chocolates: Types of compound and couvertures chocolates.

Molded, center filled, free hand clusters, garnishes and accessories

Faults in chocolates like sugar bloom and fat bloom, their reasons and correction. Temperature and moisture control while handling chocolate.

Ice Creams and Chocolate Craft Lab

Course Code: C24SEC213P
30 Hrs. (2 Hrs./Week)
Credit : 1
Exam Time: 2 Hrs.

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

- Making different ice creams: Plain Ice creams, Fruit and nut ice creams, Ice Candies, Kulfi, Malai ka baraf, Barafgola, etc.
- Sherbets, ices, mousses, gelato, bisque, custards, cassatta, variegated, novelties, etc.
- Sensory analysis and mouth feel of ice creams and chocolates
- Market survey of Ice cream/ chocolates with respect to label reading (ingredients).
- Equipment (molds, scrapers, piping bags, nozzles, cooking thermometers, microwave, double boiler) and precautions to be used in handling chocolate.
- Making molded compound chocolate and variations; center filled chocolate and variations; free hand chocolate clusters; chocolate accessories and garnish; ancillary chocolate recipes like chocolate sauce, ganache and hand rolled truffles.
- Packaging and labeling of ice creams / chocolates.
- Visit to ice cream / chocolate factory or ice cream / chocolate exhibition or sale trial.

Books Suggested:

1. Arbuckle, W.S. 1991. Ice Cream. AVI Publ., Co. Inc., West Port, Connecticut.
2. Hui, Y.H. 1993. Dairy Science and Technology Handbook 2- Product Manufacturing. Wiley – VCH Inc., USA.
3. Ice Cream Alliance and Ice Cream Federation. 1992. Code of Practice for the Hygienic manufacture of Ice Cream.
4. Advances in Ice Cream and Frozen Desserts. Lecture compendium, Sixth short course, Dec15, 1998- Jan 4, 1999. NDRI.
5. Robinson, R.K. 1986. Modern Dairy Technology. Vol II. Elsevier Sci. Publ. Co., Inc., New York, USA.
6. Robinson, R.K. 2002. Dairy Microbiology Handbook. 3rd ed. John Willey and sons, New York, USA.
7. Afoakwa E.O. (2013). Chocolate Science and Technology, Wiley India Pvt Ltd.
8. Beckett S.T. (2018). The Science of Chocolate, Royal Society of Chemistry...
9. Minifie B.W. (1999). Chocolate, Cocoa and Confectionary, Aspen Publication.
10. Manay, S. & Shadakshara swamy, M. (2020). Foods: Facts and Principles, New Age Publishers.
11. Panda, H. (2012). Technology of Confectionery, Chocolates, Toffee, Candy, Chewing & Bubble Gums, Lollipop and Jelly Products with Formulations, Engineers India Research Institute publisher.

Course Outcome:

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

- CO1 Identify different chocolates
- CO2 Acquire the skill to use different chocolate crafts.
- CO3 Able to prepare different types of ice creams
- CO4 Perform sensory analysis of different types of ice creams
- CO5 Make cost analysis of ice creams
- CO6 Identify and rectify faults in ice-cream preparation

Mapping of CO with PO

Outcomes	PO1	PO2	PO3
CO1	S	W	S
CO2	W	M	M
CO3	S	S	S
CO4	S	W	S
CO5	W	M	M
CO6	S	S	S

S= Strong

M=Medium

W=Weak