

केन्द्रीय अध्ययन मण्डल द्वारा अनुशंसित स्नातक पाठ्यक्रम की परीक्षा योजना

I Sem

कक्षा – B.Sc. I

विषय – Home Science

प्रश्नपत्र	प्रश्नपत्र का शीर्षक/प्रायोगिक	अधिकतम अंक	कुल योग
I	Anatomy & Physiology	50/25	50/25
II	Introduction to Resource Management	50/25	50/25
III	Introduction to Human Development	50/25	50/25
IV	Introduction to Textiles & Clothing	50/25	50/25
V	Introduction to extension Communication	50/25	50/25
VI	Introduction to Computer Basics	50/25	50/25
	Project work (Related to any Subject mentioned above)	50	50

परियोजना :

- कार्य का मूल्यांकन प्रति सत्र में 50 अंक के लिये होगा।
- प्रत्येक सत्र में प्रायोगिक कार्य 25 अंक का होगा।
- विद्यार्थी को परियोजना का प्रतिवेदन जमा करना होगा। साथ ही जिस संस्थान में परियोजना पर कार्य किया गया है। उसका प्रमाण पत्र भी प्रतिवेदन में संलग्न करना होगा।
- प्रथम सत्र में परियोजना का मूल्यांकन आन्तरिक परीक्षक द्वारा किया जायेगा तथा द्वितीय सत्रीय परियोजना का मूल्यांकन बाह्य परीक्षक के सहयोग से आन्तरिक परीक्षक द्वारा किया जाएगा।

.परियोजना-कार्य में मूल्यांकन का आधार निम्न बिंदुवार होगा :

(i)	परियोजना कार्य का प्रतिवेदन	25 अंक
(ii)	प्रस्तुतिकरण (Presentation)	15 अंक
(iii)	मौखिक परीक्षा (Viva-Voce)	10 अंक

कुल 50 अंक

Department of Higher Education Govt. of M.P.
Semester Wise Syllabus for Undergraduates
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B.Sc (Home Science)
SEMESTER -I
Paper-I Anatomy & Physiology

Periods/Week: 3

Max. Marks : 50
Hrs

Objectives:

1. To enable the students to have knowledge about the essential of Human Physiology and functions of organs.
2. To educate a person in such a way so that she can become an active worker during emergency conditions.

Unit I.

CELL:-	Cell its structure & functions
TISSUES-	Types of tissues structure & functions. Bones – Types.
BLOOD-	Functions, Types of blood Cells, Clotting Process and Blood Groups.

Unit II.

CIRCULATORY SYSTEM-	Structure & function of Heart, Heart Beat, Rate, Heart Sound and Blood Pressure, definition, measurement and factors affecting Blood Pressure.
DIGESTIVE SYSTEM -	Organs of Digestion. Process of digestion & absorption. Functions of liver & Pancreas.

Unit III

RESPIRATORY SYSTEM-	Organs of Respiration (Structure & functions). Mechanism of Respiration
NERVOUS SYSTEM-	Study of neurons, their structure & functions. Structure & functions of Brain, Spinal nerves & Cranial Nerves.

Unit IV

EXCRETORY SYSTEM-	Structure and functions of Excretory Organs
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REPRODUCTIVE SYSTEM-

Male and Female Reproductive Organs structure & functions.

Unit V

Principles & Methods of Home Nursing- Common accidents and First Aid- Burning, Poisonings Bleeding, Shock, fractures, wounds, dislocation & drowning.

Practical :

MM: 25

1. Microscopic Examination of Different Tissues
2. Identification of Bones.
3. Clotting & Bleeding Time..
4. Estimation of Hemoglobin.
5. Study of Models of Different System.
6. Different Types of Bandages & their Use.
7. Common First Aid Techniques.
8. Measurement of Blood Pressure.
9. Identification of blood group.

References:

1. शरीर रचना एवं शरीर क्रिया विज्ञान – वी. न. भावे
2. Concise Physiology by – Choudhary.
3. Anatomy and Physiology for Nurses – by Evelyn Pears.
4. शरीर रचना एवं शरीर क्रिया विज्ञान – इवलिन पीयर्स
5. Physiology by – Chenulingham
6. Physiology by – R.K. Marya.
7. Physiology by- Agrawal.
8. Physiology by – C.C. Chatterjee

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B.Sc (Home Science)
SEMESTER -I
Paper- II Introduction to Resource Management

Periods/Week: 3

Max. Marks : 50

Unit – I

- Introduction and definition of management
- Significance and scope of management
- Purpose of management.

Unit – II

- Factor's influencing management.
- Obstacles to the improvement of management.
- Misconceptions about resource management.

Unit-III

Factor's motivating management.

- Values : Importance, meaning and types
- Goals : Definition, types and utility.
- Standards : Importance, meaning and types.

Unit- IV

Decision Making

- Meaning, Importance
- Steps of decision making process
- Types of decision
- Factor's influencing decision.

Unit-V

Process of Management

- Planning
- Controlling
- Evaluation

Practical :

MM: 25

1. Preparation of invitation card / envelope for different occasions.
2. Use decision making process for solving your own problem (Any two)
3. Make a record book (With collection of review, invitation cards, pictures etc.
4. Identify and formulate family goals (Survey of 10 families.)

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**B.Sc. (H.Sc.) Semester I
Paper III
Introduction to Human Development**

Periods/Week: 3

Max. Marks : 50

Objectives :

1. To introduce the students to the field of Human Development.
2. To bring awareness amongst the student regarding the concept, scope and dimensions.
3. To educate the students about the importance of Human Development studies.
4. To acquaint the students about the areas of Human Development.

Unit I

- A. Introduction To Human Development.**
1. Definition of Human Development.
 2. History of Human Development.
 3. Scope of Human Development.
- B. Individual differences in Human Development.**
- C. Opportunities in the field of Human Development.**

Unit II

Early Childhood Care and education.

1. Pre- Schools.
2. Day Care – Centers.
3. Hobby Centers. Unit III

**ICDS – Programme - Aims, Objectives, Areas, Working of ICDS.
Types of programme**

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Unit IV
Growth and Development

1. Definition.
2. Principles of growth.
3. Principles of Development

Unit V
Heredity and environment

1. Laws of heredity.
2. Rh factor.
3. Sex Determination.
4. Environment.

Practicals

M.M 25

1. Preparing a resource file on Human Development.
2. Case study of individual difference.
3. Observation of Nursery School etc.
4. ICDS information Brochure.
5. Prepare charts on Heredity and Environment

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**B.Sc (Home Science)
SEMESTER -I
Paper- IV Introduction to Textiles & Clothing**

Periods/Week: 3

Max. Marks: 50

Objectives:

To enable student to:

- Acquaint with the different textile and their performances.
- Impart knowledge about different textile finishes.

UNIT-I

Study of Textile Fibers:

1. Introduction of textiles
2. Terminology in textiles.
3. Classification of natural fiber
4. History, composition, types, production, properties and uses – Cotton, linen, wool and silk.

UNIT-II

Study of Artificial Fibers:

1. Polymer –types (homo polymer & co-polymer)
2. Polymerization-definition,
3. Classification of artificial fiber
4. History, composition, types production, properties and uses – Rayon, Polyamide, polyester and acrylic fibers.

UNIT-III

Study of Yarn:

1. Types of yarn-simple and novelty
2. Metallic , textured, stretch, and core spun yarn,
3. Bi and multi component yarns characteristics,
4. Methods of spinning, making of sewing thread,
5. Yarn twist ,yarn numbering systems(Cotton count, denier, tex- conversion from one to the other)

UNIT-IV

Fabric finishes:

1. Physical –singeing, napping, brushing, shearing, sizing, shrinking, calendaring etc.
2. Chemical- bleaching, mercerizing
3. Special purpose finishes- wrinkle resistant, water resistant and repellent, flame retardant, durable press, soil release and resistant, anti pilling

UNIT-V

Weaves and finishing techniques:

1. Weaves-Plain, Rib, Twill, Satin, Sateen, Dobby, Jacquard
2. Dyes- Introduction and Classification
3. Printing- Introduction and classification

Practical

M.M 25

1. Identification of Textile Fibers- Visual, Microscopic, Burning and Chemical.
2. Identification of yarn types.
3. Identification of Weaves and their variations
4. Sample collection for weaves and finishes and identification.

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B.Sc (Home Science)
SEMESTER -I
Paper- V Introduction to Extension Communication

Periods/Week: 3

Max. Marks: 50

Objectives:-

1. To gain knowledge about family and social relation.
2. To become about women empowerment.
3. To become about legal aspect of women.

Unit - I

Analysis of Family as a Social Unit -
Family - definition, types, function.

Unit - II

Analysis of social relation to environment, customs, mores, rules and regulation in relation to eco-friendliness.

Unit - III

Empowerment of Women.
Women Development - personal, familial societal and national perspectives.

Unit - IV

Awareness on legal issues.

Unit - V

Gender Analysis -
Concept of gender distinct from sex.
Gender issues : Inequalities & Discrimination.

Practical

M.M: 25

1. Planning & its evaluation of programme.
2. Case study of rural/urban women of different communities (any 3).

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B.Sc (Home Science)
SEMESTER -I
Paper- VI Computer Basics

Periods/Week: 3

Max. Marks: 50

UNIT I

- a. Overview about computer
- b. Components of a computer
- c. Input/Output
- d. Secondary storage devices.
- e. Representation of information

UNIT II

MS Windows

- a. Introduction
- b. Exploring the desktop
- c. Running multiple programmes
- d. Accessories

UNIT III

Ms word

- a. Starting M.S. Word
- b. Changing and formatting a document
- c. Changing fonts and font size
- d. Table creation and operations

UNIT IV

M. S .Excell

- a. Starting excell
- b. work sheet ,cell ,inserting data in to rows/columns.
- c. Alignment, text wrapping
- d. sorting data, autosum
- e. use of functions ,referencing formula cells in other formula.

UNIT V

M.S. POWERPOINT

- a. Starting MS Powerpoint**
- b. Auto wizard, creating a presentation using auto content wizard**
- c. Blank presentation, creating, saving and printing a presentation.**
- d. Adding a slide to a presentation.**
- e. Navigating through a presentation, Slide sorter, slide show, editing slides.**

Practicals

M.M: 25

- M.S. Word- As based on Theory
- M.S.Excell- As based on Theory

केन्द्रीय अध्ययन मण्डल द्वारा अनुशंसित स्नातक पाठ्यक्रम की परीक्षा योजना

II Semester

कक्षा – B.Sc. I

विषय – Home Science

प्रश्नपत्र	प्रश्नपत्र का शीर्षक/प्रायोगिक	अधिकतम अंक	कुल योग
I	Basic Nutrition	50/25	50/25
II	Introduction to Home Decoration	50/25	50/25
III	Introduction to Human Development	50/25	50/25
IV	Introduction to Textiles & Clothing	50/25	50/25
V	Introduction to Extension Communication	50/25	50/25
VI	Introduction to Computer Basics	50/25	50/25
	Project work	50	50
(Related to any Subject mentioned above)			

परियोजना :

- कार्य का मूल्यांकन प्रति सत्र में 50 अंक के लिये होगा।
- प्रत्येक सत्र में प्रायोगिक कार्य 25 अंक का होगा।
- विद्यार्थी को परियोजना का प्रतिवेदन जमा करना होगा। साथ ही जिस संस्थान में परियोजना पर कार्य किया गया है। उसका प्रमाण पत्र भी प्रतिवेदन में संलग्न करना होगा।
- प्रथम सत्र में परियोजना का मूल्यांकन आन्तरिक परीक्षक द्वारा किया जायेगा तथा द्वितीय सत्रीय परियोजना का मूल्यांकन बाह्य परीक्षक के सहयोग से आन्तरिक परीक्षक द्वारा किया जाएगा।

.परियोजना-कार्य में मूल्यांकन का आधार निम्न बिंदुवार होगा :

(i) परियोजना कार्य का प्रतिवेदन	25 अंक
(ii) प्रस्तुतिकरण (Presentation)	15 अंक
(iii) मौखिक परीक्षा (Viva-Voce)	10 अंक

कुल 50 अंक

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B.Sc. (Home Science)
SEMESTER -II
Paper-I Basic Nutrition

Periods/Week: 3

Max. Marks: 50

Objectives:

1. To impart basic knowledge of food, food constituents & their role in human nutrition.
2. To impart knowledge of proper methods of Cooking to Conserve nutrients for better nutrition.
3. To understand importance of Simple methods in improving nutritional status.

Unit I.

Concept of Nutrition, Definitions, Functions of food.

Nutrients – Classification as macro & Micro nutrients.

Sources functions recommended dietary allowances deficiency and excess of Water and Energy.

Unit II.

Sources, Classification, Functions recommended dietary allowances, deficiency and excess of the following.

1. Proteins
2. Fat
3. Carbohydrate
4. Fibers.

Unit III

Sources, functions, R.D.A, deficiency and excess of fat soluble Vitamins in brief.

Sources, function, R.D.A, and deficiency of Water Soluble Vitamin 'C' and B complex in brief.

[Thiamine, Riboflavin Niacin, Pyridoxine, folic acid, vitamin B12]

Unit IV

Sources, function, R.D.A., deficiency symptoms and excess of following minerals [in brief]

1. Calcium
2. Phosphorus
3. Sodium
4. Potassium
5. Iron
6. Zinc
7. Copper
8. Iodine
9. Magnesium

Unit V

- Cooking methods – Principle of Cooking, Cooking mediums and methods.

- Minimizing nutrient losses, during process of Cooking.
- Improving nutritional quality of foods – germination fermentation, supplementation, fortification & enrichment.

References :-

1. Fundamentals of Food & Nutrition – by Mudanbi
2. Text book of Food Nutrition dietetics – by Raheena
3. Food & Nutrition [Hand book] – by Swaminatham
4. Normal & Therapeutic Nutrition – by Robinson & Lawler
5. Food & Nutrition – by Shubhangiri Joshi
6. आहार एवं पोषण – अरुणा पल्टा
7. आहार एवं पोषण – शिवा प्रकाशन

Practical

M.M: 25

1. Use and care of kitchen equipments.
2. Controlling techniques-
 - Weights and measures, standards and household measures for raw and cooked food.
 - Recipe and evaluation of production
3. food preparation and classifying recipes as good, moderate, or poor sources of specific nutrients. Amount of ingredients to be used in standard recipe vis-à-vis portion size.
 - Beverages-Tea, Coffee, Cocoa, Fruit juice, mild milkshakes.
 - Cereals and flour mixtures- basic preparations.
 - (i) Boiled Rice and rice Pulao
 - (ii) Chapati, Puri, Paratha.
 - (iii) Sandwiches.
 - (iv) Pastas
 - (v) Pancakes, Biscuits, Cookies, cakes.
 - Pulses and legumes using whole dehusked and sprouted
4. Vegetables:
 - Simple Salads
 - Dry vegetables
 - Curries
5. Fruits: Fruit preparations using fresh and dried-stewed fruit, fruit salad.
6. Milk:
 - Porridges
 - Curds, Paneer, and their commonly made preparations
 - Milk based simple desserts , pudding-custards, kheer, ice-cream
7. Meats- cuts of meat.
 - Meat preparation
 - Poultry
 - Fish
8. Hard and soft cooked, Poached, scrambled, fried, omelets, egnogs.
9. Soups Basic, clear and cream soups.
10. Snakes, Pakoras, Cheese toast, Upma, Poha.
11. Peanut Chikki, Till Laddu

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B.Sc (Home Science)
SEMESTER -II
Paper-II Introduction To Home Decoration

Periods/Week: 3

Max. Marks: 50

Unit – I

- Meaning and definition of decoration.
- Aims and objectives of decoration.
- Beauty, expressiveness & functionalism
- Application of decoration in home.

Unit- II

- Introduction of elements of Art.
- Line, Form, texture, pattern, space and light.
- Application of element of art in decoration.

Unit – III

Colour

- Origin, theory and source of colour
- Characteristics, effect of colour.
- Colour wheel and colour schemes.

Unit- IV

Design

- Definition, types structural and decorative design.
- Principle of design : proportion, balance, harmony, rhythm and emphasis.

Unit-V

Indian Handicraft

- Traditional, regional and contemporary art.
- Floor decoration: Alpana, rangoli and flower carpet.
- Flower decoration: Importance, types, use of element of art principles and design.

Practical :

MM 25

1. Floor decoration : Alpana, Rangoli
2. Gift Wrapping
3. Identify different texture.
4. Preparation of record book.
5. Flower Arrangement.
6. Preparation of colour wheel and various colour schemes by using different design.

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B.Sc (Home Science)
SEMESTER -II

Paper-III Introduction to Human Development

Periods/Week: 3

Max. Marks: 50

Objectives :

1. To educate the students about the importance of Human Development studies.
2. To acquaint the students with areas of Human Development studies.

Unit I

A Pre-natal development.

1. First trimester.
2. Second trimester.
3. Third trimester

Unit II

B Birth Process.

1. Labour.
2. Types of Birth.
3. Care of the neonate.

Unit III

C. Birth to 2 Years.

1. Physical development.
2. Motor Development
3. Social Development
4. Emotional Development
5. Language Development.

Unit IV

D. Personality Development.

1. Definition.
2. Theories of Personality.
3. Determinants of Personality.

Unit V

E Marriage and family.

1. Definition, types ,functions .
2. Mate selection
3. Marital adjustment
4. Marriage counselling

Paper-III Introduction to Human Development
II Semester

Practical :

MM 25

- 1 Pre-natal development records.
2. Care of the neonate report.
- 3 Observation of any two developmental Areas.
- 4 Prepare Resource file on family.
- 5 Test of Marital adjustment.

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B.Sc (Home Science)
SEMESTER -II
Paper-IV Introduction to Textiles & Clothing

Periods/Week: 3

Max. Marks: 50

Objectives:

- To enable student to:
- To acquaint with proper notion regarding choice of fabrics.
- To develop skills in clothing constrictions.

UNIT-I

Tools and Equipments:

1. Equipment and supplies used in clothing construction
2. Maintenance, problem faced, remedies with specific reference to sewing machine.

UNIT-II

Selection of fabrics:

1. Factors influencing selection of fabrics-budget, age, season, occupation, figure, fashion, occasion etc.

UNIT –III

Principles of clothing construction:

1. General principles of clothing construction.
2. Drafting-definition and importance
3. Paper pattern. –symbols and making paper pattern.

UNIT –IV

Clothing construction:

1. Taking body measurements for different types of garments.
2. Calculation of materials for different types of garments.
3. Preparation of fabric for garment making.

UNIT –V

Principles of Tailoring:

1. Layout of patterns, cutting and marking.
2. Principles of tailoring
3. Sewing techniques; basic stitches, seams and seam finishes

Paper-IV Introduction to Textiles & Clothing

II Semester

Practical :

MM 25

1. Sewing Techniques:

Sewing techniques; basic stitches, seams and seam finishes, fullness placket, neckline, finishes, fasteners, simple collars, patch- pocket and their application to the garments given below.

2. Garment construction:

Drafting and stitching of simple garment such as vest, bib and jhabla.

References:

- Wingate, I.B. (1976): textile fabric and their selection, englewood (New Jersey), prentice Hall, Inc.
- Anna Jacob (1993): Art of sewing UBS PD, New Delhi.
- Bane, (1974): Tailoring, Mc Graw Hill Publication New York.
- Readers Digest (1982): Complete. Guide to sowing, association Inc, New york, New Delhi.
- Savitri Pandit (1976): Manual for children's clothing, orient Longman

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B.Sc (Home Science)
SEMESTER -II
Paper-V Introduction to Extension Communication

Periods/Week: 3

Max. Marks: 50

Objectives :-

1. To learn about self through personality analysis.
2. To learn stress management.
3. To understand the meaning of field of Home Science in relation to other discipline.

Unit - I

Personal growth and personality development :
Meaning, Definition, Types, Factors influencing personality development.

Unit - II

Conflicts & stresses, simple coping strategies.

Unit - III

Understanding one self - strengths & Weakness.
Methods of solving these problems.

Unit - IV

Home Science Education as empowerment -
The role of Home Sc. Education for personal growth and professional development.

Unit - V

The inter disciplinary of Home Sc. Education with science, arts, commerce and other discipline.

Practical :

MM 25

1. Preparation of audio visual Aids Chart, flash card, puppets.
2. Visit and field work-nursery school Aganwadi (ICDS).

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B.Sc (Home Science)
SEMESTER -II
Paper-VI Computer Basics

Periods/Week: 3

Max. Marks: 50

Unit I - Representations of date - Files, Records files.
(1) File organization and accers.
(2) Security and safety of data
(3) Introduction to operation system.

Unit II- Control Panel.
(1) Managing Documents and folders.
(2) Auto Correct , Auto text , Spelling check ,
(3) Word Out, inverting objects.
(4) Mail merge , Letter , label envelope,

Unit III (A) Page ----- page preview.
(B) Printing a Document.
(C) Naming cell and Ranges , Good Neek,
(D) Generating graphs.
(E) Integrating work sheet data and charts with word.

Unit IV (A) Page setup, Print Preview, Printing worksheet.
(B) Using Clipart , Word art gallery,
(C) Adding traactions and animation effects , setting Timings for slide show
preparing ghote pages Preparing and Jence Handouts Presentation Document

Unit V (A) Genesis and use of Internet
(B) Software and hard ware requirement for internet.
(C) Accessing the internet from M. S. – Office application.

Practical :

MM 25

(A) M-S- Power Point – As Based on theory
(B) Use of Internet.
(C) Use of C.D. and floppy.

केन्द्रीय अध्ययन मण्डल द्वारा अनुशासित स्नातक पाठ्यक्रम की परीक्षा योजना

III Semester

कक्षा – B.Sc. II

विषय – Home Science

प्रश्नपत्र	प्रश्नपत्र का शीर्षक/प्रायोगिक	अधिकतम अंक	कुल योग
I	Meal planning & Normal & Therapeutic Nutrition.	50/25	50/25
II	Management of Family Resource.	50/25	50/25
III	Early childhood & Childhood Education	50/25	50/25
IV	Textile Science	50/25	50/25
V	Extension and Communication	50/25	50/25
VI	Job Orient Course Optional (Any One)	50/25	50/25

1. Food & Nutrition

- Fundamental of Bakery.
- Dietetic Practice Counseling.

2. Resource Management.

- Soft Furnishing.

3. Human-development

- Pre. School Education.

4. Clothing and Textile.

- Textile designing.

Project work

50

50

परियोजना :

- कार्य का मूल्यांकन प्रति सत्र में 50 अंक के लिये होगा।
- प्रत्येक सत्र में प्रायोगिक कार्य 25 अंक का होगा।
- विद्यार्थी को परियोजना का प्रतिवेदन जमा करना होगा। साथ ही जिस संस्थान में परियोजना पर कार्य किया गया है। उसका प्रमाण पत्र भी प्रतिवेदन में संलग्न करना होगा।
- प्रथम सत्र में परियोजना का मूल्यांकन आन्तरिक परीक्षक द्वारा किया जायेगा तथा द्वितीय सत्रीय परियोजना का मूल्यांकन बाह्य परीक्षक के सहयोग से आन्तरिक परीक्षक द्वारा किया जाएगा।

.परियोजना-कार्य में मूल्यांकन का आधार निम्न बिंदुवार होगा :

(i) परियोजना कार्य का प्रतिवेदन	25 अंक
(ii) प्रस्तुतिकरण (Presentation)	15 अंक
(iii) मौखिक परीक्षा (Viva-Voce)	10 अंक

कुल 50 अंक

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B.Sc (Home Science)
SEMESTER -III
Paper I-Meal Planning and Normal Nutrition

Periods/Week: 3

Max. Marks: 50

Objectives:

1. To impart knowledge of food groups & their use in meal planning.
2. To enable student to plan meals for various physiological conditions.

Unit I.

Food Groups; their nutritional composition and nutritional contribution.
Balanced diet – Concept. Recommended allowances of various food groups in balanced diets.

Unit II.

Recommended dietary Allowances (RDA Table). Food Exchange test.
Principles of Meal Planning. Factors affecting Food intakes, - Economical, Social, Psychological, Cultural, Food related factor.

Unit III

Meal Planning for different Groups: Dietary calculations for different physiological conditions. Planning meals for Adults.

Unit IV

Nutritional requirements and planning meals for pregnancy, lactation, infancy and childhood.

Unit V

Nutritional requirements and planning meals for adolescent boys and girls and elderly.

Practical :

MM 25

1. Planning meals using meal exchange system. for, pregnancy, lactation, Weaning foods, Supplementary foods,
2. Planning meals for adults according to various physical activity levels.
3. Planning meals for School, College boys & girls.
4. Planning meals for elderly (old age)

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**B.Sc (Home Science)
SEMESTER -III
Paper II-Management of Family Resource**

Periods/Week: 3

Max. Marks: 50

Unit – I

- Resource of the family
- Meaning, definition, importance
- Characteristics and classification of resources.
- Principles of using resources.

Unit- II

Management of specific resources.

- Money Management : Meaning, source of income
- Budget Making, financial demand of different stage of family life cycle.

Unit –III

Time Management

- Meaning, importance and tools of time management.
- Process of Time management.
- Time management in different stages of family life cycle.

Unit – IV

Energy Management :

- Concept and importance of energy management.
- Value of energy for different household activities.
- Process of energy management.
- Fatigue : Type of
- fatigue, measure to relieve fatigue.

Unit- V

Work Simplification :

- Meaning, importance and definition of work simplification.
- Techniques of Work simplification.
- Classes of change.

Practical :

MM 25

1. Making budget for a middle Income family.
2. Making time plan for a week for student.
3. To Work at maximum and minimum work height.
4. List out household activities with various work effort heavy, moderate and light.
5. To develop simplified working method for household.
6. Activity with path way chart or process chart method.

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B.Sc (Home Science)
SEMESTER -III
Paper III-Early Childhood and Childhood Education

Periods/Week: 3

Max. Marks: 50

Objectives: -

1. To know the importance of early childhood and significance of early child – development.
2. To understand major theoretical approaches and implications for early childhood development.
3. To become acquainted with current policies and programmes in ECE.

Unit I

Early and Late Childhood

Characteristics of early and late childhood. Developmental tasks of early and late childhood .
Physical development of early childhood.

Unit II

Motor development of early childhood, Effects of delayed development, Socialization and Social development, Importance of play in social relationship.

Unit III

Emotional development Language development Factors affecting vocabulary and language development.

Unit IV

Moral development, Kohl berg's views, Personality development, Determinants of personality, Factors affecting personality.

Unit V

Effects of parental control on child's personality, Discipline, Authoritative and permissive parenting styles and their effects on children.

Practical :

MM 25

Observation of children of the 2 – 6 age group.

1. Physical development – Height, Weight, Proportion.
2. Social development – Gangs, relations with parents, peers authority.
3. Emotional Development – Expressions Control.

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B.Sc (Home Science)
SEMESTER -III
Paper IV-Textile Science

Periods/Week: 3

Max. Marks: 50

Objectives: -

- Impart knowledge pertaining to basic principles of dyeing.
- Creating awareness of use of different techniques of coloring textiles through the use of different dyes.
- To impart skill in hand printing.
- To acquaint students with the difference between selling and marketing.

UNIT-I

Dyes:

1. Dye – definition
2. Theory and kinetics of dyeing.
3. Classification of natural dyes.-History, composition, types, properties and uses - vegetable, animals, minerals

UNIT-II

Synthetic Dyes:

1. History, composition, types, properties and uses - Direct, acid, basic, reactive, vat, sulphur, mordant, disperse and pigments.
2. Household method of dyeing.
3. Faults in dyeing.

UNIT-III

Printing:

1. Printing– definition
2. Theory of Printing
3. Printing-its significance, method of printing block, stencil, screen, roller printing.

UNIT-IV

Printing:

1. Preparation of printing Paste.
2. Use of various ingredients and thickeners.
3. Preparation of cloth for printing.

UNIT-V

Printing:

1. After treatment of printed goods.
2. Faults in different printing.
3. Advantage and disadvantages of various method of printing.

Practical:

MM 25

Making different articles from different types of printing- Block, Stencil, Batik and screen.
Household methods of dyeing Cotton, Wool & Silk.

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B.Sc (Home Science)
SEMESTER -III
Paper V-Extension & Communication

Periods/Week: 3

Max. Marks: 50

Objectives:-

- (1) To understand the process of communication in development work.
- (2) To develop skill in the use of methods and media.

Unit - I

Development of concept of communication. Meaning, Definition and Importance of communication. Education process, important models of communication process.

Unit - II

The purpose of communication qualities of good communicator, factors that help or hinder communication.

Unit - III

Types of communication, One way and two way of interactive communication. Importance of two way communication.

Unit - IV

Basis for effective interactive communication - Sender, Message, Channel, Receiver or Audience.

Unit - V

Different approaches of communication.

Individual approach.

Group Approach.

Mass Approach.

Practical:

MM 25

- (1) Preparation of learning materials. (Each student will prepare one material).
- (2) Use of prepared material.
- (3) Evaluation of effectiveness of prepared material.

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B.Sc. (Home Science)
SEMESTER -III
Paper VI- Job Oriented Course
BAKERY

Periods/Week: 3

Max. Marks: 50

Fundamental of Bakery:

Unit – I

- Basic equipments required in bakery unit types, use maintenance and cleaning.
- Introduction in brief of small scale and large scale mechanical devices used in bakery unit.

Unit- II

1. Flour – types and use in bakery, flour treatment.
2. Shortening (fats & margarines) – types and use in bakery.

Unit-III

Introduction of leavening agents - Physical, Chemical (baking powder) and Biological leaveners (Yeast).

Unit – IV

Food additives – colouring agents, flavouring agents, emulsifiers, antioxidants, thickeners.

Unit- V

Biscuits – types, ingredients used and their role, methods of preparation, failure / faults and their remedies.

Practical :

MM 25

1. Handling of Bakery equipments, Utensils and Tools- Cleaning, Care and Maintenance.
2. Savory Biscuits- Groundnut biscuits, Jeera, Ajwain biscuits, Atta biscuits.
3. Sweet Biscuits- choco chip cookies, Jam biscuits, Coconut cookies, Nankhatai.
4. Fancy Biscuits- Fancy cookies for kids, Rolled cookies, Chocolate Pinwheel biscuits

Note:- Costing and sensory evaluation of each product prepared is essential.

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B.Sc. (Home Science)
SEMESTER -III
Paper VI- Job Oriented Course
Dietetic Practice Counseling

Periods/Week: 3

Max. Marks: 50

Unit – I

Dietetics – Its scope and Importance, dietitians as a part of medical team and its services. Team approach to health care, Assessment of patient's needs.

Unit- II

Medical History, assessment of techniques and obtaining relevant information for patient profiles.

Unit- III

Assessment of nutritional status, Correlating clinical and dietary information. Methods of dietary calculation.

Unit – IV

Patient's education and counseling assessment of patient needs, establishing rapport, counseling relationship, resources and aids for counseling.

Unit- V

Development of resource, material for Dietetic practices. Performa for recording medical history, Food list with nutritive value, standardized foods.

Practical

Total Marks 25

1. Assessment of Patient profiles (At least three)
2. Assessment of nutritional status using anthropometry. (BMI, Waist, hip, ratio etc.)
3. Assessment of nutritional status, using dietary record.
4. Preparation of educational material for patient (including electronic materials)
5. Planning formats for recording patient history diet record. Nutritional Status.

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B.Sc. (Home Science)
SEMESTER -III
Paper VI- Job Oriented Course
Soft Furnishing

Periods/Week: 3

Max. Marks: 50

Unit – I

Soft furnishing – Introduction and meaning
Importance, History and Development in Interior decoration.
Interior Decoration – Objective of interior decoration.

Unit – II

1. Factors influencing furnishing decisions – climatic conditions, family needs, furnishing cost budget.
2. Tools and Equipment and their uses.

Unit- III

1. Knowledge of fabrics – materials suitability for different uses in furnishing.
2. Selection of fabrics for different uses.
3. Selection of colour, design and pattern.

Unit- IV

1. Importance of Upholstery and characteristics of upholstery.
2. Simple cover and cushion designs and their making.

Unit- V

1. Importance and use of lamps and shades and screens in interior.
2. Types of lamp shades.
3. Making techniques of additional decoration in shades and screens and their care and maintenance.

Practical

Total Marks: 25

1. Study of element of art in line, form, pattern and space through collection of pictures and drawings.
2. Application of principles of design.
3. Colors – color wheel, color schemes. Through paint and pictures.
4. Application of sewing techniques,
5. Collection of materials used in soft Furbishing,

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B.Sc. (Home Science)
SEMESTER -III
Paper VI- Job Oriented Course
Pre School Education

Periods/Week: 3

Max. Marks: 50

Objectives:-

1. To educate the students about pre-school education.
2. To educate the students about importance of play.

Unit I

1. History of Pre School Education
2. Organization of early childhood education.

Unit II

1. Nursery School education, Meaning, Aims and objectives.
2. Kindergarten education, meaning, aims and objectives.

Unit III

1. National nutrition programme for children.

Unit IV

1. Role of National and International agencies in the development of early childhood education.

Unit V

1. Play material and methods of pre school education.
2. Significance of play.
3. Values of play, types of play and play equipments.

Practical

Total Marks: 25

1. Planning of Daily Routine in Nursery school.
2. Means of Transport.
3. Environmental studies.
4. Prepare play materials for children.

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Semester Wise Syllabus for Undergraduates
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B.Sc. (Home Science)
SEMESTER -III
Paper VI- Job Oriented Course
Textile Designing

Periods/Week: 3

Max. Marks: 50

UNIT-I

1. Importance of textile in home decoration.
2. To study the manufacturing process of the fabric used in curtains, Bed lines, carpets towels.

UNIT-II

Selection & Care of the following

1. Curtains
2. Bed linens
3. Carpets
4. Towels

UNIT-III

1. Elements of design-colour systems and schemes
2. Principles of design

UNIT-IV

Classification of design-structural, decorative, abstract, Stylized, geometric and traditional designs.

UNIT-V

1. Analysis of different textile designs and their suitability for different purposes.
2. Layout in design: repeat

Practical

Total Marks: 25

1. Structural, decorative, abstract, Stylized, geometric and traditional designs.
2. Colour Systems and schemes.

केन्द्रीय अध्ययन मण्डल द्वारा अनुशंसित स्नातक पाठ्यक्रम की परीक्षा योजना
IV Semester

कक्षा – B.Sc. II		विषय – Home Science	
प्रश्नपत्र	प्रश्नपत्र का शीर्षक/प्रायोगिक	अधिकतम अंक	कुल योग
I	Therapeutic Nutrition.	50/25	50/25
II	Housing and home decoration.	50/25	50/25
III	Early childhood & Childhood Education	50/25	50/25
IV	Textile Science	50/25	50/25
V	Extension and Communication	50/25	50/25
VI	Job Oriented (Any One)	50/25	50/25

1. Food and Nutrition-

- A. Bakery cake making.
- B. Quality food production.

2. Resource Management

- a. Soft Furnishing.

3. Human-development

- a. Pre. School Education.

4. Clothing and Textile.

- a. Textile dyeing & Printing.

Project work

50

50

परियोजना :

- कार्य का मूल्यांकन प्रति सत्र में 50 अंक के लिये होगा।
- प्रत्येक सत्र में प्रायोगिक कार्य 25 अंक का होगा।
- विद्यार्थी को परियोजना का प्रतिवेदन जमा करना होगा। साथ ही जिस संस्थान में परियोजना पर कार्य किया गया है। उसका प्रमाण पत्र भी प्रतिवेदन में संलग्न करना होगा।
- प्रथम सत्र में परियोजना का मूल्यांकन आन्तरिक परीक्षक द्वारा किया जायेगा तथा द्वितीय सत्रीय परियोजना का मूल्यांकन बाह्य परीक्षक के सहयोग से आन्तरिक परीक्षक द्वारा किया जाएगा।

.परियोजना-कार्य में मूल्यांकन का आधार निम्न बिंदुवार होगा :

(i) परियोजना कार्य का प्रतिवेदन	25 अंक
(ii) प्रस्तुतिकरण (Presentation)	15 अंक
(iii) मौखिक परीक्षा (Viva-Voce)	10 अंक

कुल 50 अंक

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B.Sc (Home Science)
SEMESTER -IV
Paper I- Therapeutic Nutrition

Periods/Week: 3

Max. Marks: 50

Objectives:

1. To make students aware of various health problems and their dietary management.

Causes, pathogenesis, symptoms, treatment, dietary principles and meal planning for the following:-

Unit I

1. Weight related problems – overweight, obesity and underweight.
2. Fevers and infections – Acute and chronic

Unit II

Gastro- intestinal disorders- Constipation, Diarrhea, Peptic Ulcer.

Unit III

1. Liver disorders – Viral Hepatitis, Cirrhosis,
2. Kidney disorders – Acute and chronic Glomerulonephritis.

Unit IV

1. Diabetes Mellitus – IDDM, NIDDM.
2. Gout.

Unit V

Cardiovascular disorders – Hypertension, Atherosclerosis.

Practical

Total Marks: 25

Planning and preparation of meals for different diseased conditions mentioned in theory.

PREFERENCE:

1. Nutrition and Dietetics by Kumud Khanna, Phoenix
2. Nutrition and Dietetics by Shubhangiri Joshi
3. Dietetics by Shrilaxmi, New age International
4. Nutrition and Therapeutic Nutrition – C.Robinson
5. सामान्य एवं उपचारात्मक पोषण : डॉ. ज्योति कुलकर्णी
6. सामान्य एवं उपचारात्मक पोषण : डॉ. आणापाल्य

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B.Sc. (Home Science)
SEMESTER -IV
Paper II- Housing and Home Decoration

Periods/Week: 3

Max. Marks: 50

Unit – I

Family housing needs:-

- Protective, economic, affect ional, educational, social, cultural, religious, prestige, recreational.
- Selection of site: Physical feature, soil condition sanitary, practical consideration, family requirement, legal aspect.

Unit- II

House Planning

- Principles of house plan: Aspects, prospect furniture requirement roominess, grouping circulation, privacy, sanitation, elegance, economy.

Unit- III

Allocation of space in the house:

- Planning of different rooms: living room, dinning room, bed room, kitchen, store room, bathroom, passage and stair case.
- Kitchen planning: planning types of kitchen, work centre, storage and safety.

Unit- IV

Housing Problem

- Housing condition and problem in India and its causes and eradication.
- Housing byelaws.
- Housing agencies for solving the problem.
- Housing loans.

Unit – V

Landscape Planning

- Meaning, objectives
- Principles of landscape planning
- Landscaping of plot area.

Practical:

MM 25

1. Draw a floor plan for middle income group.
2. Residential space planning with reference to scale, abbreviation defining space by shade.
3. Draw landscape plan for medium size plot.
4. Collection of brochures, pumplet related to housing loans.
5. Construction of Record Book.
6. Draw layout of different types of kitchen.

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B.Sc. (Home Science)
SEMESTER -IV
Paper III- Early Childhood and Childhood Education

Periods/Week: 3

Max. Marks: 50

Objectives:-

1. To understand importance of early childhood and significance for the early child – development.
2. To understand major theoretical approaches and implications for early childhood development.
3. To become acquainted with current policies and programmes in ECE.

Unit – I

Parental attitudes. Common behavioral problems of early childhood. Parent child teacher relationship.

Unit II

Significance and objectives of early childhood education. Types and objectives of programme currently offered – Balwadi, Anganwadi.

Unit III

Nursery School, Kindergarten , Montessori.

Unit IV

Major theoretical approaches in early childhood education, Psychoanalytical Approach, Opportunities for expression of anger, joy, fear, jealousy etc.

Unit V

Importance of drama and role play, Cognitive approach – Piaget’s theory of Cognition

Practical:

MM 25

1. Observation of children of the 2 – 6 age group.
2. Language Development – Listening, Narration.
3. Motor Development – Singing rhymes with action, Rhythmic body movement according to beats and sounds.

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B.Sc. (Home Science)
SEMESTER -IV
Paper IV-Textile Science

Periods/Week: 3

Max. Marks: 50

Objectives:

- Impart knowledge of traditional textiles of India.
- To acquaint students about the difference between selling and marketing.

UNIT-I

Study of traditional textiles of India:

1. Woven –in- design –, Brocade, Chanderi, Paithani, , Maheshwari.
2. Plain- woven fabric-Dacca muslin, Tassar, Kota Doria.
3. Resist yarn Dyeing and weaving (IKAT)- Patola, Pochampalli

UNIT-II

Study of traditional textile of India.

1. Printed- Sanganeri, Kharhi Print of Gujrat
2. Painted- Kalamkari, Madhubani.

UNIT-III

Essentials of children clothing:

1. Importance of clothing
2. Psychological effect of clothing on children.
3. Effect of clothes. Growth, safety & Health features in Children's clothing.
4. Sociological and Psychological aspects of clothing.

UNIT-IV

Children's Clothing:

1. Desirable features in infants clothing.
2. Factors to be considered while selecting and making children's garments.
3. Clothing Budget-Clothing and family budget, children's clothing budget in relation to family clothing budget.

UNIT-V

Marketing:

1. Nature and role of marketing
2. Meaning , nature and scope of marketing
3. The marketing system.
4. Product Mix, Pricing.
5. Standardizing and grading Roes and types of advertising.

Practical:

MM 25

1. Analysis of different textile designs- Brocade, Chanderi, Ikat, Madhubani.
2. Drafting of Child's Basic Bodice Block, Sleeve Block and Collar.
3. Cutting and stitching of any one Kid's wear for special occasion.

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B.Sc. (Home Science)
SEMESTER -IV
Paper V- Extension and Communication

Periods/Week: 3

Max. Marks: 50

Unit - I

Methods of communication. Interview. Demonstration. Flash card. Puppets.

Unit - II

Methods of communication. News Paper stories. Letter folders pamphlets. Television programme.

Unit - III

Adult education, Meaning and purpose of Adult education and nonformal education. Difference between adult education and nonformal education. Goals of literacy. Kinds of literacy materials.

Unit - IV

Goals of literacy. Kinds of literacy materials. Role of teacher and learner in literacy programmes.

Unit - V

Need for participation of non-government organization in development efforts. Role of UNICEF ,W.H.O., CARE, I.C.D.S.

Practical:

MM 25

- (1) Planning educational programmes for adult literacy.
- (2) Preparation of Articles for Newspapers.
- (3) Preparation for Radio Talk.
- (4) Preparation of programme for folk media.

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**B.Sc. (Home Science)
SEMESTER -IV
Paper VI- Job Oriented Course
BAKERY – Cake Making**

Periods/Week: 3

Max. Marks: 50

Unit – I:

Baking Powder: types, role in bakery, use and precautions.

Unit- II:

Cakes: types, variations, ingredients used and their role, principle involved, method of preparation, failure/ faults and remedies.

Unit – III:

Pastry: Principles involved in pastry preparation, methods, ingredients and their role, failure / faults and remedies in pastry preparation.

Unit – IV

Decoration of cakes: types of icing, ingredients and their role, additions used and precautions to be taken.

Unit –V

Sensory evaluation and shelf life of cakes.

Packaging – types and precautions to be taken.

PRACTICAL

Total Marks 25

1. Eggless cakes: sponge cake, chocolate cake, plain cake.
2. Cakes with Egg: Sponge cake, cup cakes, plain & chocolate cake.
3. Fancy Cake: Swiss roll, Angle cake.
4. Pastry: Jam tart, Pineapple & Chocolate Pastry.
5. Decoration of Cake: Glazed icing, Butter icing, Cake Pastry.

Note: - Costing and sensory evaluation of each product prepared.

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**B.Sc. (Home Science)
SEMESTER -IV
Paper VI- Job Oriented Course
Quantity Food Production**

Periods/Week: 3

Max. Marks: 50

Unit – I

Food Production – Kitchen management, purchase and storage of various kinds of food. Hygiene, sanitation and safety.

Unit- II

Standardization of recipes and portion control.

Unit – III

Food Service: - Food service areas methods, styles, food presentation, Delivery and services of food in different system.

Unit – IV

Definition of Cost and Casting, Elements of food cost. Food Cost Control – Objectives and methods, obstacles.

Unit – V

Laws, governing food service Institutions, Food Laws, Labour Laws, Laws Concerning Food hygiene and safety.

Practical

Total Marks 25

1. Standardization of recipes and portion sizes.
2. Calculation of food cast.
3. Table setting for different patients for room service, keeping in mind hygienic and safety measures.

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**B.Sc. (Home Science)
SEMESTER -IV
Paper VI- Job Oriented Course
Soft Furnishing**

Periods/Week: 3

Max. Marks: 50

Unit – I

1. Principles of decoration.
2. Elements of Art and their application in soft furnishing.

Unit – II

1. Role of colours in soft furnishing
2. Qualities of colour theory of colour
3. Colour schemes and its application in soft furnishing

Unit- III

1. Method and techniques of cutting different materials
2. Basics sewing techniques and commonly used stitches in “Soft Furnishing”

Unit- IV

1. Different types of cushion and their making.
2. Design of covers of sofas stools and settees.

Unit- V

1. Selection principles for frames and fabrics for lamp shades and screens.
2. Making techniques of additional decoration in shades and screens and their care and maintenance.
3. Curtains: Selection, types, and application.

PRACTICALS:

M.M -25

1. Measurement and cutting techniques for basic soft furnishing like mats covers, pillows etc.
2. Simple stitches as relevant to soft furnishings.
3. Making of a small upholstered cushion for a chair or a stool.
4. To make a record and sample book.
5. Design and making of a drawing room screen.

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B.Sc. (Home Science)
SEMESTER -IV
Paper VI- Job Oriented Course
Pre School Education

Periods/Week: 3

Max. Marks: 50

Objectives:-

1. To acquaint the students about correct methods of teaching children.
2. To teach the students about Nursery school management.

Unit I

1. Areas of activities.
2. Science, Nature. Creative stories, Role of doll corner.

Unit II

1. Literature of Nursery School.
2. Role of Music in Nursery School.

Unit III

1. Activities for cognitive development.
2. Concept formation.
3. Activities for Mathematical concepts, Science Concept. Colour, Shape, Size, Shape , Time, Weight, Length.

Unit IV

1. Activities for Emotional development.
2. Activities for Social development.

Unit V

1. Planning and management of nursery school building.
2. Budget to Nursery School.
3. Curriculum of Nursery School.

PRACTICALS:

M.M -25

1. Professions and their utility services.
2. Creative activities.
3. Teaching of different concepts: Color, Size Shape, Numbers, Alphabets,

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B.Sc. (Home Science)
SEMESTER -IV
Paper VI- Job Oriented Course
Textile Dyeing And Printing

Periods/Week: 3

Max. Marks: 50

UNIT-I

Fundamentals of printing- Study of pigments for printing.
Hand printing- Vegetable and fabric painting
Dye and pigments
Paints and their uses

UNIT-II

Study of dyes
Difference between dyeing and printing
Methods of dyeing-fiber, yarn, fabric

UNIT-III

1. A brief study of dyes and their suitability to different fibers
2. Introduction to dyeing machines

UNIT-IV

Style of dyeing-direct, resist and discharge styles
Machine printing-screen, flock

UNIT-V

Introduction to computer design software.

PRACTICALS:

M.M -25

1. Tie and Dye
2. Batik
3. Spray Printing
4. Screen Printing
5. Fabric Painting

केन्द्रीय अध्ययन मण्डल द्वारा अनुशंसित स्नातक पाठ्यक्रम की परीक्षा योजना
V Semester

कक्षा – B.Sc. III	विषय – Home Science		
प्रश्नपत्र	प्रश्नपत्र का शीर्षक / प्रायोगिक	अधिकतम अंक	कुल योग
I	Fundamentals of Biochemistry.	50/25	50/25
II	Household Equipments.	50/25	50/25
III	Adolescence and Adulthood.	50/25	50/25
IV	Apparel Designing.	50/25	50/25
V	Extension and Communication	50/25	50/25
VI	Job Oriented Paper (Any One)	50/25	50/25
	1. Food & Nutrition-		
	A. Advanced Bakery.		
	B. Dietetic Practice and Planning.		
	2. Resource Management.		
	a. Interior Designing.		
	3. Human-development		
	a. Guidance & Counseling.		
	4. Clothing & Textile		
	a. Garment designing and fashion.		
	Project work	50	50

परियोजना :

- कार्य का मूल्यांकन प्रति सत्र में 50 अंक के लिये होगा।
- प्रत्येक सत्र में प्रायोगिक कार्य 25 अंक का होगा।
- विद्यार्थी को परियोजना का प्रतिवेदन जमा करना होगा। साथ ही जिस संस्थान में परियोजना पर कार्य किया गया है। उसका प्रमाण पत्र भी प्रतिवेदन में संलग्न करना होगा।
- प्रथम सत्र में परियोजना का मूल्यांकन आन्तरिक परीक्षक द्वारा किया जायेगा तथा द्वितीय सत्रीय परियोजना का मूल्यांकन बाह्य परीक्षक के सहयोग से आन्तरिक परीक्षक द्वारा किया जाएगा।

.परियोजना-कार्य में मूल्यांकन का आधार निम्न बिंदुवार होगा :

(i) परियोजना कार्य का प्रतिवेदन	25 अंक
(ii) प्रस्तुतिकरण (Presentation)	15 अंक
(iii) मौखिक परीक्षा (Viva-Voce)	<u>10 अंक</u>

कुल 50 अंक

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**B.Sc. (Home Science)
SEMESTER -V
Paper I- Fundamentals of Biochemistry**

Periods/Week: 3

Max. Marks: 50

- Objectives:** This course will enable the students to understand.
1. Principles of Biochemistry as applied to Nutrition.
 2. Biochemical process applicable to human nutrition.
 3. Importance of metabolic processes – as applied to human nutrition.

Unit I

Hydrogen ion concentration, Surface tension, Viscosity, Colloids, Acid Base balance.

Unit II

Cell and Cell membranes, Structure & Active Passive transport diffusion.
Fluid, Electrolyte.

Unit III

Enzymes: - Chemistry, Occurrence, Characteristics of enzyme, Catalyzed reactions,
Mode of enzyme action, Factors affecting enzyme catalyzed reaction, Enzyme Inhibitors
Co-enzymes.

Unit IV

Hormones: Occurrence, Mode of action, Hypo and Hyperactivity of Endocrine Glands.

Unit V

Vitamin – Absorption, storage, Chemistry and Biochemical function.

PRACTICAL:

M.M -25

1. Study & use of instruments used for measuring PH, Surface tension and viscosity.
2. PCV Study on action of salivary enzyme.
3. Normal & abnormal constituents of Urine.
4. Estimation of vitamin C by 2, 6, Dichloro Indophenol reagent.
5. Study of colloids.

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B.Sc. (Home Science)
SEMESTER -V
Paper II- Household Equipments

Periods/Week: 3

Max. Marks: 50

Unit – I

Home Appliances

- Definition of home appliances.
- Importance of appliances in daily life.
- Principles involved in operation equipment.
- Classification of household equipment.

Unit- II

Study of equipment with reference to construction, working principle, use, care and safety of -
Kitchen equipments

Unit –III

- Laundry Equipment: Types, Principles, and care of equipments used in Laundry.
- Cleaning Equipments: Types, Principles, and care of equipments

Unit – IV

Study of materials used in construction of household equipment.
Base material – Aluminum, Brass, Steel, Iron, Copper, Glass, etc.

Unit- V

Finishing Material

- Definition and meaning of finishes.
- Mechanical finishes, applied finishes.
- Insulating material
- Selection of dinnerware, glassware and silverware considering colour, texture and pattern.

Practical:

MM 50

1. Identification of different base material used in making household equipment.
2. Survey of use of time and energy saving devices of household.
3. Cleaning and care of different metals and household equipment.
4. Survey of availability of branded kitchen equipment in the market.

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B.Sc. (Home Science)
SEMESTER -V
Paper III- Adolescence and adulthood

Periods/Week: 3

Max. Marks: 50

Objective:-

1. To educate the students about adolescent growth and development.
2. To bring the awareness about role of human development in Modern time.
3. To teach the students about the importance of development as a Compulsory Science.

Unit I

Characteristics and developmental tasks of adolescence, problems of Adolescence.

Unit II

Physical changes during puberty and adolescence and effects of these changes on attitudes and behavior , Emotionality during adolescences.

Unit III

Stanley Halls views elaborating “Storm and stress” during adolescence. Adjustments during adolescence sex role.

Unit IV

Psychoanalytical and Social learning theories of sex role development and sex education.

Unit V

Interest and Hazards of adolescence.
Juvenile delinquency.

Practical:

MM 50

1. Observation of effects of physical changes on attitudes and behavior of adolescents.
2. Case studies of emotionally unstable. Adolescent – by testing method.
3. Plan for imparting sex education to adolescents.
4. Prepare resource file on Juvenile delinquency.

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B.Sc. (Home Science)
SEMESTER -V
Paper IV- Apparel Designing

Periods/Week: 3

Max. Marks: 50

UNIT-I

Element of art:

1. Lines: Meaning, types, effects.
2. Shape: Meaning, Classification and effects.
3. Forms: Types
4. Space: Meaning and importance.

UNIT-II

Element of art:

1. Color: Dimension of color, theories of color, color schemes.
2. Textures: Meaning, texture technology, texture combination, and factors affecting texture in textiles.

UNIT-III

Principles of design:

1. Proportion: Meaning, golden mean proportion, importance.
2. Balance: Meaning, their importance.

UNIT-IV

Principles of design:

1. Rhythm: meaning, method of creating, importance.
2. Emphasis: Meaning, Method of its Creation, importance.
3. Harmony: Meaning and importance.

UNIT-V

Fashion

1. Fashion – definition, fashion terminology,
2. Factors affecting fashion,
3. Fashion trends and changes.
4. Fashion Cycle

Practical:

MM 50

1. Introduction to Draping: Basic Pattern on Dress form.
2. Creating Textures.
3. Colour Schemes used in Apparel designing.

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B.Sc. (Home Science)
SEMESTER -V

Paper V- : Extension and Communication

Periods/Week: 3

Max. Marks: 50

Objectives:-

- (1) Understand the role of women as partner in development.
- (2) To understand extension education.

Unit - I

- (1) Extension Education - Meaning, Definition, Philosophy, classification, Characteristics, principles and scope.

Unit - II

- (1) Rural leadership - Meaning characteristics of leadership.
- (2) Extension work and leadership.

Unit - III

- (1) National Policy on Women.
- (2) Changing status and role of women in family and society.

Unit - IV

- (1) Role of school in the village community and urban community.

Unit - V

- (1) Objectives of Community development programme.
- (2) Scope and importance of Community development programme.

Practical:

MM 50

- (1) To collect information & articles from news papers & magazine related to women empowerment.
- (2) Study of any one community organization engaged in development and its analysis.

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**B.Sc. (Home Science)
SEMESTER -V
Paper VI- Job Oriented Course
Advanced Bakery**

Periods/Week: 3

Max. Marks: 50

Unit – I

Yeast – A Biological leavener, types of yeast, their characteristics, functions in bakery, precautions in their use and packaging.

Unit- II

Yeast goods : types of yeast goods :

Bread and Buns method of preparation, ingredients used, their role, bread staling, faults / failure and remedies in bread making, shelf life.

Unit- III

Pizza base, Soup Sticks – Method of preparation faults / failure and remedies, shelf life.

Unit – IV

Sensory evaluation of Yeast goods.

Unit – V

Packaging of Yeast goods : types and precautions to be taken.

PRACTICAL

Total Marks 25

1. Bread – Refined flour bread, whole wheat bread.
2. Buns – Sweet buns, plain buns, dinner roll.
3. Pizza base and soup sticks.

Note : Costing, Packaging and sensory evaluation of each product prepared.

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**B.Sc. (Home Science)
SEMESTER -V
Paper VI- Job Oriented Course
Dietetic Practice and Planning**

Periods/Week: 3

Max. Marks: 50

Unit – I

Basic concepts of diet therapy – Therapeutic adaptation of normal diet, principles and classification of therapeutic diets.

Unit – II

Routine hospital diets, Regular, Light, Soft, Fluid, Parenteral and enteral feeding.

Unit – III

- a) Energy modification for weight management.
- b) Low Cholesterol and low fat diets.
- c) High and Low Fiber diets.

Unit – IV

- 1) Low Protein diet.
- 2) High Protein diet.
- 3) Low sodium diet.

Unit – V

Diets for Metabolic disorders, Diabetes, Gout, Phenylketonuria etc. Diets for special nutrient deficiency disorders

Practical

Total Marks 25

1. Preparation of Routine Hospital diets.
2. Preparation of modified diets (At least five)
3. Preparation of diets for nutrient deficiency disorders (eg. Fe, Ca, Vit. A deficiency etc.)
4. Preparation of diets for chronic metabolic disorders.

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B.Sc. (Home Science)
SEMESTER -V
Paper VI- Job Oriented Course
Interior Decoration

Periods/Week: 3

Max. Marks: 50

UNIT I

Concept of Interior Decoration.

1. Objective of Interior decoration.
2. Principles of design .
3. Introduction of element of art.

UNIT II

1. Colour study in detail.
2. Colour schemes
3. Classification of colours
4. Effect of colours
5. Room with a home like effect.

UNIT III

1. Personality expressed through choice of decoration.
2. Introduction of vastu, impact and importance
3. Application in planning of interiors.

UNIT IV

Furniture.

1. Type of furniture
2. Design of furniture
3. Selection of furniture
4. Window treatment.

UNIT V

1. Landscaping
2. Layout of front garden.
3. Terrace garden.

PRACTICAL

Total Marks 25

1. Draw a plan of room and show different types of furniture arrangement and colour schemes.
2. Make a plan of house according to Vastu.
3. Make one model according the principles of design.

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B.Sc. (Home Science)
SEMESTER -V
Paper VI- Job Oriented Course
Guidance and Counseling

Periods/Week: 3

Max. Marks: 50

Objectives:-

1. The students will develop skill in Guidance and Counseling.
2. Planning and conducting specific activity.
3. To know the different aspects of guidance and counseling.

Unit I

Principles , objectives, types and characteristics of guidance and counseling.

Unit II

Techniques of guidance and counseling methods of guidance and counseling.

Unit III

Guidance and Counseling for parenthood marriage and post marital problems.

Unit IV

Adolescence Vocation and old age.

Unit V

Guidance programme for parents of nursery school children.

PARTICAL

Total Marks 25

1. Planning of Guidance and counseling programme.
2. Visit to guidance and counseling centers.
3. Discussing dramatization technique- case profile

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**B.Sc. (Home Science)
SEMESTER -V
Paper VI- Job Oriented Course
Garment Designing And Fashion**

Periods/Week: 3

Max. Marks: 50

UNIT-I

1. Body measurements for different age group and its importance
2. Preparing measurement charts.
3. Standard measurement chart. Based on different types of figures.

UNIT –II

1. Designing and sketching of following figure:
 - a. Eight head figure
 - b. Fashion figure
 - c. Lay figure
2. Normal and abnormal body, types of figure defects.

UNIT –III

1. Definition of fashion.
2. Theories of fashion
3. Term related to fashion industry
4. Factors affecting fashion

UNIT-IV

1. Study of basic design feature in costume.
2. Costumes of different state of India and western countries.
3. Costumes for different occasions eg. Pregnancy, religious occasion.

UNIT-V

1. Clothing care and storage- undergarments, outer garments, hosiery, hand bags, shoes.
2. Evaluation and comparison of readymade, homemade and tailor made garments.

PRACTICAL

Total Marks 25

1. Designing and sketching of:-
 - a) 8- head length figure
 - b) Fashion figure
 - c) Lay Figure
2. Designing and sketching of costumes, jewellery and accessories of women of different state.

केन्द्रीय अध्ययन मण्डल द्वारा अनुशंसित स्नातक पाठ्यक्रम की परीक्षा योजना
VI Semester

कक्षा – B.Sc. III

विषय – Home Science

प्रश्नपत्र	प्रश्नपत्र का शीर्षक / प्रायोगिक	अधिकतम अंक	कुल योग
I	Nutritional Biochemistry.	50/25	50/25
II	Furniture & Furnishing.	50/25	50/25
III	Adolescence and Adulthood.	50/25	50/25
IV	Apparel Construction.	50/25	50/25
V	Extension and Communication	50/25	50/25
VI	Job Oriented (Any One)	50/25	50/25

1. Food and Nutrition-

- A. Packaging and marking of Bakery.
- B. Hospital Organization and management.

2. Resource Management

- a. Interior Decoration.

3. Human-development

- a. Guidance & Counseling.

4. Clothing and Textile.

- a. Garment designing and fashion.

Project work

50

50

परियोजना :

- कार्य का मूल्यांकन प्रति सत्र में 50 अंक के लिये होगा।
- प्रत्येक सत्र में प्रायोगिक कार्य 25 अंक का होगा।
- विद्यार्थी को परियोजना का प्रतिवेदन जमा करना होगा। साथ ही जिस संस्थान में परियोजना पर कार्य किया गया है। उसका प्रमाण पत्र भी प्रतिवेदन में संलग्न करना होगा।
- प्रथम सत्र में परियोजना का मूल्यांकन आन्तरिक परीक्षक द्वारा किया जायेगा तथा द्वितीय सत्रीय परियोजना का मूल्यांकन बाह्य परीक्षक के सहयोग से आन्तरिक परीक्षक द्वारा किया जाएगा।

.परियोजना-कार्य में मूल्यांकन का आधार निम्न बिंदुवार होगा :

(i) परियोजना कार्य का प्रतिवेदन	25 अंक
(ii) प्रस्तुतिकरण (Presentation)	15 अंक
(iii) मौखिक परीक्षा (Viva-Voce)	10 अंक

कुल 50 अंक

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B.Sc (Home Science)
SEMESTER -VI
Paper I- Nutritional Biochemistry

Periods/Week: 3

Max. Marks: 50

Objectives:

1. This course will enable the students to understand.
2. Principles of biochemistry as applied to Nutrition.
3. Biochemical process applicable to human nutrition.
4. Importance of metabolic processes – as applied to human nutrition.

Unit I.

Chemistry and classification & metabolism Carbohydrates – Glycolysis Glycogenesis, TCA cycle, gluconeogenesis.

Unit II.

Chemistry & classification of Proteins & Fats : B-Oxidation of Fatty acids, Ketosis, cholesterol synthesis, Urea Cycle.

Unit III

DNA and RNA – Occurrence, chemistry functions, metabolism of nucleoproteins, Protein Synthesis.

Unit IV

Energy metabolism : Definition of Calorie, BMR, factors affecting, R.Q, SDA Biological Oxidation : Electron transport chain.

Unit V

Mineral : Absorption, storage, Chemistry and Biochemical Function.

PRACTICAL

Total Marks 25

1. Identification of different Sugars.
2. Study of Starch Hydrolysis
3. Identification of essential AA, in Protein.
4. Estimation of glucose in urine (using Benedict's Quantitative Reagent)
5. Study of Properties of Fatty acids and Cholesterol.

REFERENCES :

1. Textbook of Biochemistry – Dr. Anil Potnis and Deval Reshma Parajpe Himalaya Publishing Hous.
2. Textbook of Biochemistry – Harper, Lange Medical Book
3. Biochemistry for Students – V.K. Malhotra Jaypee Brothers
4. Human Physiology Vol I, II – C.C. Chatterjee
5. Biochemistry [Textbook] – pant
6. जीव रसायन – आशा चौधरी

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**B.Sc (Home Science)
SEMESTER -VI
Paper II- Furniture and Furnishing**

Periods/Week: 3

Max. Marks: 50

Unit – I

Furniture

- a. Style of furniture : Traditional, cottage, modern style
- b. Selection of Furniture
- c. Arrangement and requirement of furniture for different rooms.

Unit – II

Furnishing

- d. Definition, factors influencing furniture selection.
- e. Family needs, preferences, financial limit.
- f. Types of furniture.

Unit- III

Furnishing Material.

- g. Types of furnishing material
- h. Selection of furnishing material on the basis of buying capacity, pattern, purpose, climate, effect care and polisher.

Unit- IV

Furniture Finishes

- i. Types of finishes: Natural , synthetics and traditional.
- j. Varnishes, polishes.
- k. Care and maintenance of furniture.

Unit- V

Lighting in Interior:

- l. Types, selection
- m. Arrangement in different rooms

PRACTICAL

Total Marks 25

1. Preparation of furnishing article.
2. Preparation of colour scheme, colour wheel, tints and shade.
3. Draw furniture arrangement layout of different rooms.
4. Preparation of lamp shade.
5. Preparation of decorative object.
6. Survey of space arrangement in residential interiors of six household of different income group.

Reference :

1. Management for modern families
By – Gross, Crandall & Knoll
2. Management in family Living.
Nickle and Dorsey.
3. Home Furnishing by Anna Hog Rutt
4. Family Resource Management by R.E. Deacan, F.M. Firebaugh
5. Household Equipment by Pect, Picket and Arnold
6. Art in Everyday Life, H. Goldstein
7. Foundation of Art & design. By Pranav Bhatt, Shanita Goenka, Lakhani Book Depot.
Bombay
8. Modern Ideal Homes for India by : R.S. Deshpande
9. Building your own house. By : R.S. Deshpande
10. The house its plan and use. Tessi sgan
11. Household equipment manual by M.A. Varghese (S.N.D.T Women's University, Bombay)
12. गृह प्रबंध, गृह व्यवस्था – करुणा शर्मा
13. गृह सज्जा एवं घरेलू उपकरण – मंजू पाटनी
14. गृह प्रबंध एवं सज्जा बेला भार्गव
15. गृह प्रबंध – मंजू पाटनी

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B.Sc (Home Science)
SEMESTER -VI
Paper III- Adolescence and Adulthood

Periods/Week: 3

Max. Marks: 50

Objectives: -

1. Develop awareness amongst the students about human development.
2. To give Knowledge about the scope of human development
3. To work with different age group.

Unit I

Social development during adolescence, family relationship, Adolescence suicides.

Unit II

Characteristics and developmental tasks of early and middle adulthood.

Unit III

Vocational adjustment to parenthood problems in family.

Unit IV

Characteristics and developmental tasks to late adulthood problems of the aged.

Unit V

Empty nest stage, Retirement, death of spouse, loneliness, and cognitive changes related to aging.

PRACTICAL

Total Marks 25

1. Case Study –
 - (a) Socially well adjusted adolescent girl and adolescent boy.
 - (b) Adolescent from disturbed family or from a broken home.
2. Paper presentation and prepare resource file on need and problems of aged.
3. Use of adjustment and depression test on adolescent and old persons (two cases).

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B.Sc (Home Science)
SEMESTER -VI
Paper IV- Apparel Construction

Periods/Week: 3

Max. Marks: 50

UNIT –I

1. Principles of figure drawing and sketching of body features.
2. Silhouette-types
3. Figure types –designing for different figure types.

UNIT –II

1. Fitting sessions-first, second and final
2. Fitting: problems and remedies.
3. Dart.-types and manipulation

UNIT –III

1. Study of different types of necklines.
2. Study of different types of Collars –Peter pan, shirt collar, Chinese shawl sailor
3. Study of different types of sleeves-Plain, Raglan, Kimono, Puff.

UNIT –IV

Drafting & Layout of the following garments:

1. A-line dress
2. Bush-shirt and knickers
3. Sun suit/ romper
4. Simple frock with yoke.
5. Salwar-Kurta
6. Skirts: A-line, flared

UNIT –V

Traditional embroideries of India.

1. Kasida of Kashmir
2. Phulkari of Punjab
3. Kantha of Bengal
4. Kasuti of Karnataka
5. Kutch and Kathiwar
6. Chikankari of Lucknow
7. Zari embroidery

PRACTICAL

Total Marks 25

Adaptation of blocks and Stitching of the following garments:-

1. Simple Frock with Yoke.
2. Skirts:- A' Line , Flared.
3. Salwar-Kurta.
4. Blouse, Petticoat.

Department of Higher Education Govt. of M.P.
Semester Wise Syllabus for Undergraduates
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B.Sc (Home Science)
SEMESTER -VI
Paper V- Extension and Communication

Periods/Week: 3

Max. Marks: 50

Objectives:-

- (1) Understand the process of community development programme.
- (2) To understand the role of school in rural and urban community.

Unit - I

- (1) Process of community organization.
- (2) Principles and philosophy of community development.

Unit - II

- (1) Role of community organizer.
- (2) Steps in group formation/ community organization.

Unit - III

- (1) Targets achievements of community development programme.
- (2) Administration and management of community development programme.

Unit - IV

- (1) Relationship between extension education and community development programme.
- (2) Similarity and difference between community its development and extension.

Unit - V

- (1) Planning and evaluation of community development programme.

PRACTICAL

TotalMarks 25

- (1) Visit to any community organization and present its report.
- (2) Planning and preparation of dishes rich in energy, protein, iron and calcium for women.

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B.Sc. (Home Science)
SEMESTER -VI
Paper VI- Job Oriented Course
Packaging and Marketing of Bakery Goods

Periods/Week: 3

Max. Marks: 50

Unit – I

Importance of Packaging – functions of packaging, materials required – products, tubes, tetra packs, cans, bottles etc.

Unit- II

Packaging material – their properties, advantages and limitations in use of aluminum,, glass, tinned steel plate, carton board, paper, flexible films, lamination etc.

Unit – III

Advertising and Marketing – Advertising and Marketing at local and National level.

Labelling – Different types of labels, importance of labeling and use of labels, Nutritional informations in labels.

Unit – IV

Food Laws, Standard and regulations for bakery products.

Unit – V

Commercial production of bakery products and establishment of bakery unit.

Practical

Total Marks 25

1. Visit to a bakery unit
2. Visit to food and drug administration department.
3. Preparation of packaging material for biscuits, cakes and yeast goods.
4. Preparation of advertisement – for promotion of bakery goods and for sale of bakery goods.
5. Preparation of labels for different bakery goods.

References :

1. Baking : Science and industries – M.K. Kamaliya and K.B. Kamaliya. Volume – I and II
2. Bakery – Shiva Prakashan
3. Food Facts and principles – N. Shakuntala Manay, M. Shadaksharwamy
4. Food Science experiments and applications – Mohini Sethi and Eram S. Rao
5. Food and Beverage Service – Vijay Dhawan
6. Recipe books – Tarla Dalal, Sudha Mathur, Neeta Mehta, and others.
7. Consumer and the market : M.G. Reid
8. Food Analysis : Analytical and quality control methods for food manufacture and buyer.
9. Principles of food packaging – S. Sacharow and Griffin
10. Food Packaging : Principles and practice – G.L.Robertson.

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**B.Sc. (Home Science)
SEMESTER -VI
Paper VI- Job Oriented Course
Hospital Organization and Management**

Periods/Week: 3

Max. Marks: 50

Unit – I

Organization – organization chart, organization charts of Dietary food service department. Centralization and decentralization of food services. Delegation of Authority to staff.

Unit – II

Dietitian as a leadership, leadership qualities in a Dietitian. Need for communication and motivation.

Unit – III

Staffing and personal Management, Manpower planning, Recruitment, selection Induction, Performance, appraisal, Training development.

Unit –IV

Planning and layout of Hospital Kitchen, planning and purchases of equipment. Hygiene Sanitation and safety considerations.

Unit – V

Accounts and Book Keeping – Sales & purchase record, cash book (types) Inventory control of stock, dealing with supplier receiving methods.

Practical

Total Marks 25

1. Visit to hospital kitchen to understand its layout, organization and working. Student should submit a report.
2. Exercises in accounts and Book Keeping. Preparation of formats.
(Record of purchasing, receiving, storing issuing production, customer register and cash books)
3. Planning a Project for a patients follow – up at least for 3 months, patient’s counseling, dietary advice, its outcome and submission of project report.

References :

1. Dietetics - B. Shri Lakshmi
2. Normal & therapeutic Nutrition Kumud Khanna
3. Nutrition and Dietetics – S. Joshi

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B.Sc. (Home Science)
SEMESTER -VI
Paper VI- Job Oriented Course
Interior Decoration

Periods/Week: 3

Max. Marks: 50

UNIT I

1. flower arrangement
2. objective
3. style
4. materials
5. basic principles

UNIT II

- Accessories
1. Importance
 2. Use
 3. Type
 4. Selection

UNIT III

- Kitchen planning
1. Types of kitchen
 2. Work Centre
 3. Sink
 4. Storage

Unit – IV

- Curtain
1. Purpose
 2. Type
 3. Selection
 4. Use in Interior decoration
 5. Carpet and Rugs-Selection, Use & Care

Unit –V

- Kitchen Garden
1. Layout
 2. Tools of gardening
 3. Dyeing, dried materials and making synthetic flowers.

Practical

Total Marks 25

1. Flower arrangement of different types.
2. Dying dried materials and prepare any one dry arrangement.
3. Prepare synthetic flower arrangement.
4. Dyeing dried materials and making synthetic flowers.

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B.Sc. (Home Science)
SEMESTER -VI
Paper VI- Job Oriented Course
Guidance and Counseling

Periods/Week: 3

Max. Marks: 50

Objectives :-

1. Students will be able to use effective methods and techniques of guidance and counseling.
2. Students will be enabling to develop appropriate skills to work with parents and the community.

Unit I

Guidance and counseling programmes for special children and their parents.

Unit II

Use of different psychological tests in counseling.

Unit III

National and International agencies for conducting counseling.

Unit IV

Special agree of Counseling.

Unit V

Types of problems in guidance and counseling process.

Qualities of a Counselor.

Training programs for counselors.

Practical

Total Marks 25

1. Conducting guidance programme for N.S. Special children.
2. Psychological tests (Intelligence, personality and interest.)
3. Marital Adjustment test.

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B.Sc. (Home Science)
SEMESTER -VI
Paper VI- Job Oriented Course
Garment Designing And Fashion

Periods/Week: 3

Max. Marks: 50

Unit I

1. Different types of neck lines- round, square, V-shape, heart shape, coral, novelty.
2. Study of different types of collars- Peter pan, shirt collar, Chinese, Shawl, Sailor.
3. Study of different types of Yokes- Shoulder, neck line, waist and hip.
4. Study of different types of Sleeves- Plain, Raglan, Kimono, Dolman, Puff.

Unit II

1. Paper Patterns for children wear (any 3)
2. Paper Patterns for men's wear (any 2)
3. Paper Patterns for ladies wear (any 3)
4. Preparing Layout for above mentioned patterns
5. Cloth estimation.

Unit III

1. Selection of Blankets, Towels, Bed-linens, Curtains, upholstery, Carpets and Rugs.
2. Evaluating quality in garment on the basis of fabric and workmanship, cutting, stitching, seams, hems, fastening, pocket, collar, cuffs, fullness, sleeves, linings and trimming.

Unit IV

Retailing and merchandising- standardization, types of labels, consumer acts for different Textile and clothing products.

Unit V

Advertising and Sales promotion-

- a) Roles and types of advertising
- b) Methods of sales promotion- Brand standards, labeling, fashion show, exhibitions, display etc.

Practical

Total Marks 25

1. Preparation of sample of different types of collars on bodies block.
2. Preparation of sample of different types of sleeves on bodies block.
3. Preparation of sample of different types of yokes.
4. Drafting, cutting and stitching of following garments salwar , churidar kurta, house coat blouse , lancha / ghagra and choli.
5. Drafting ,cutting and stitching of kurta pajama for men's wear.