B.Sc. HOME SCIENCE - III  
Semester – VI  
FOOD SCIENCE & NUTRITION  
NUTRITION & DIETETICS  
Paper-I  

Total Marks 75  
Theory - 50  
Practical -15  
Internal Assessment-10  

OBJECTIVES:  
1) To provide knowledge about the causes and symptoms of various diseases.  
2) To understand the role of diet in the management of these conditions.  
3) To plan, calculate and prepare diets for various diseases.  

Theory  
Unit – I  
Hypertension, Coronary and Renal Disorders: 
Causes, Symptoms and Principles of Dietary Management of  
Hypertension, Coronary Heart diseases and Renal Disorders  

1) Hypertension : a) Normal Blood pressure and types of Hypertension  
a) Role of Sodium / Salt in hypertension  
b) Role of diet in management of various types of hypertension.  

2) Coronary Heart diseases : A) Hyperlipidemias : a) Types /Classification  
B) Atherosclerotic Heart disease: a) Types  
b) role of diet  
C) Prevention: control of risk factors and life style changes.  

Unit – II  
Renal disorders: a) Glomerulonephritis  
b) Nephrotic syndrome  
c) Acute and chronic renal failure  
d) Importance of dialysis  
e) Renal Calculi  

Unit –III  
Conditions Requiring Nutrition Support: 
Causes, Symptoms and Principles of Dietary Management of some of the special conditions requiring Nutritional Support:  

1) Fevers : Short and long  
2) Surgery : Pre and postoperative care  
3) Burns: Types, degree
Unit –IV

Conditions Requiring Nutrition Support:
Causes, Symptoms and Principles of Dietary Management of some of the Special conditions requiring Nutritional Support
1) Anemia: Types
2) Cancer: Types of Cancer, carcinogens
3) AIDS

Practicals
Planning, Calculation and Preparation for the following disorders:
1) Hypertension and CHD
2) Renal disorders : Nephritis, and Nephrorotic Syndrome
3) Fever : Short and long
4) Anemia : Iron Deficiency

Internal Assessment
Any one of the following
1) Field work
2) Canteen

Books Recommended:
Home Science Syllabus

B.Sc.

Semester-VI

HUMAN DEVELOPMENT

[Developmental Assessment & Children with Special Needs]

Paper-II

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Objectives:

1. To make students aware of developmental assessment.
2. To introduce to the students concept of psychological testing.
3. To sensitize students towards children with special needs.

Unit-I: Developmental Assessment

- Meaning, importance & need & function
- Sources of information – interview, case study, checklist & rating scales, observation
- Identifying the developmental milestones as an important aspect of assessment.
- Psychological Testing – origin, uses & functions, standardization (reliability & validity).
- Ethical considerations in testing – confidentiality, privacy, communication of test result.

Unit-II: Testing

- Test for infants (Bayleys, Brazelon, Denver).
- Test for children (CPM)
- Test for children “at risk” (VSMS, Bender Gestalt)
• Test for family school relation (Bells adjustment inventory, PCR)
• Assessment of personality (TAT, SCQ, CPQ, General Anxiety Scale)
• Intelligence Test (WISC, SFBT)

Unit-III: Children with Special Needs - I

• Meaning and definition of children with special needs
• Importance and methods of studying children with special needs
• Etiology and characteristics of children with special needs – sensory, visual, auditory, orthopedic, mental and linguistic.
• Multiple disabilities – definition, characteristics & problems.

Unit-IV: Children with Special Needs - II

• Children with behavioural deviation
• Children with emotional disturbances
• Social maladjustments and delinquents.
• Role of family members and welfare programmes for meeting the needs of exceptional children.

Practicals: Conducting various psychological tests.

1. Parent child relationship
2. Academic anxiety scale
3. Adjustment inventory
4. Intelligence Test – SFBT, CPM
5. CPQ

Visit to the local institute for handicapped.

Sessional:

i) Project Work

Case study of special children

Books Recommended


3) Psychological Testing Anna Anastasi

4) Psychological Testing Freeman

5) Disabled Village Children David Wener Voluntery Health Association of India


7) Exceptional Children Mahesh Bhargava
B.SC. (HOME SCIENCE)

SEMESTER – VI

TEXTILES

( FASHION DESIGN )

Paper-III

Total Marks – 75

Theory- 50
Pract- 15
IA- 10

THEORY

OBJECTIVES:

• To create awareness about fashion culture.
• To impart knowledge of clothing communication and fashion expression.
• To acquaint students with knowledge of marketing & its environment.
• To make them understand the importance of fashion forecasting

UNIT-I

• Fashion terminology fashion, style, fad, classic, stereotype, boutique, croquis, fashion trends, haute couture, designer, prêt-a-porter, silhouette, Hi-fashion, mass fashion and knock-offs.
• Fashion definition, principles, components (silhouette, details, texture and color).
• Factors affecting fashion (social, economic, psychological).

UNIT-II

• Fashion cycle stages, broken fashion cycle and length of fashion cycles.
• Fashion theories- trickle down, trickle across and bottom up theory.
• National and International designers of 20th and 21st century- their profile, collection and contribution to fashion world.

UNIT-III

• Introduction to entrepreneurship development-steps in setting up an enterprise.
• Work flow and brief study of various department of apparel manufacturing unit.
• Different types of Industrial sewing machines, and their uses.
• Special purpose machines.

UNIT-IV
• Fashion market, introduction to marketing environment (macro & micro).
• Sales promotion techniques.
• Retailing- introduction, different retail operations, factors affecting retailing.
• Fashion forecasting – Process, sources of fashion forecasting information.
• Merchandising – introduction, role of merchandiser, types of merchandising.

Sessional work- Sessional work will be based on below mentioned topics

• Figure Stylization – Illustrations – Basic croquis, division of the body to make the 8, 10 and 12 head figure.
• Figure in motion-normal standing, walking, running and sitting.
• Rendering of different fabric appearances using wet mediums like poster or acrylic.
• Sketching of different views of face, eye, nose, hands, legs and hairstyles. Figure drawing in S, X, T, Y poses.

Practical

Drafting and construction of:

• Night Suit, Nighty & Gown
• Churidaar/salwar Kurta
• Circular Skirt
• Top with dart manipulation
• Cholicut Blouse

References:

• Drake and Nicholas, "Fashion Illustration", Thames & Hudson.
• Alling Bina," Fashion Sketch Book".References:
• Kathryn Mekelvey, “Fashion source book”, Blackwell science, UK
• Sharon Le Tate, “Inside Fashion Design”, Harper and Row Pub. NY.
• Carter L, “The changing World of Fashion,” G.P. Panama’s Sons, NY
• Horn MJ, “ Second Skin”
• Kafgen Mary, Individuality in clothing, Houghton Mifflin Company
• Elaine stone, “ Dynamics of Fashion”.
B.Sc. (Home Science)

Semester VI

Resource Management

(Advanced Resource Management)

Paper – IV

<table>
<thead>
<tr>
<th>Course Component</th>
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Objectives:

1) To give opportunity to develop ability to manage time, energy and money.
2) To develop ability to apply management principles in experimental house and in day to day life experience and various small events.
3) To develop ability to apply work simplification techniques.
4) To make them aware of intelligent choice of consumer goods.

COURSE CONTENT: Theory

UNIT – I

1) Time Management
   a) Definition
   b) Nature/Importance of time
   c) Specific aids or tools of time management -
      i. Work Production Curves
      ii. Rest and sleep periods
   d) Process of managing time
      i. Planning
      ii. Implementation
      iii. Evaluative feedback

2) Experimental House
   Meaning – Importance – Objectives
UNIT – II

1) Energy Management
   a) Meaning, Importance
   b) The efforts used in Home making activities
   c) Energy requirements for household tasks
   d) Forms and effects of fatigue
   e) Process of managing energy
      i. Planning
      ii. Implementing
      iii. Evaluating feedback
   f) Definition of consumer
   g) Intelligent choice of consumer goods

UNIT – III

1) Work Simplification
   a) Definition
   b) Importance
   c) Techniques
      i. Process chart
      ii. Operation chart
      iii. Pathway chart
   d) Mundel’s classes of change
   e) Consumer credit – credit purchase
   f) Consumer protection

UNIT – IV

1) Finance / Money Management
a) Income concept
b) Planning – definition, Importance of family finance plan/Budget – steps in making budget
c) Implementing
d) Evaluative feedback

2) Account keeping
   a) Definition & Importance
   b) Types of account keeping

COURSE CONTENT: Practical

Total Marks – 15

Experimental House
Home Science Colleges have a practice House in which student stay for a week or two. Each student group sets up its own goal – its organization of work, its calendar, budget and outline of project. Experimental house furnished with up-to-date equipments and furnishing with up-to-date equipments and furnishing illustrating family living at a relatively Middle income level; is made available. Colleges can experiment with shorter period and day time residence (particularly for married students).

The students are required to perform the following duties & evaluated on their performance of each day.

Distribution of marks
   a) Duties
      1) Hostess  2
      2) Cashier-cum-Accountant  2
      3) Cook  2
      4) Asst. cook  2
      5) House keeper  2
      6) Asst. House keeper  2

   b) Report of cottage stay  3 marks

OR

Practical: 15

1) Time plan for college going students, working and non-working women.
2) Work simplification techniques applied to any activity – Pathway – process – Operation chart.
3) Establishing Budget making & actual spending (for any event)
4) Account keeping – (of any event)

Internal Assessment
(Any two from the following) 10 Marks

a) Attending seminar & conference – Report and review
b) Giving seminar on related topics
c) Assignment on related topics

Books Recommended:

OBJECTIVES:
1. To understand the importance of the knowledge of adoption of innovation.
2. To understand the techniques of advertisement in mass communication.
3. To develop an understanding of co-ordination in extension work.
4. To develop awareness regarding importance of training in extension.

UNIT I
Adoption of Innovations: Meaning and definition of adoption, steps involved in adoption process, rate of adoption, innovativeness, diffusion, characteristics of innovations, classification of adopters and characteristics of innovators.

UNIT II
Advertisement in Mass communication: Meaning and scope of Advertisement Planning of advertisement layout, Format of advertisement, Role of advertisement and its effects on consumers.

UNIT III
Co-ordination in Extension: Definition, importance, aspects, necessity of team work for effective coordination in extension, practical difficulties of team work and its solution.

UNIT IV
Extension Training: Meaning and definition of extension training, importance of extension training, types of training in extension work, problems in training.

Practicals:
1. Framing of a questionnaire to conduct survey on any home science aspect.
2. Handling and operation of opaque projector for display of non transparent materials.
3. Preparation of a folder on home science extension aspect.

Internal Assessment:
Preparation of any one type of puppet for extension work.

References:


Semester VI

Health Science

Paper-VI

Unit :-1

Parasitology -

1. Life cycles of Malarial and Filarial Parasite.
2. Life cycles of Round Worm and Tape Worm./ Ring worm

Unit :- 2

1. Disposal of waste and General Sanitation.
2. School Health hygiene and Personal Hygiene.

Unit :-3

1. Pregnancy - Antenatal care regarding regular health check up, dress, medication, diet and personal hygiene.
2. Parturition - Post natal care and child care with some common ailments.

Unit :-4

1. Lactation.
2. Family Planning.

Practicals

Max. marks : - 15 

IA- 10

2. Determination of Haemoglobin Percentage.
3. Urine Examination - Physical and Chemical (Albumin, Sugar, Acetone)
4. Examination of Permanent Slides of Micro organisms.
5. Study and Use of Common Insecticides, Disinfectants.
6. Visits :-
   a) Public Health Centre.
   b) Hospitals.
   c) Disposal Plants.
UNIT-I

1) Definition and general classification of carbohydrates. Classification of Monosaccharide based on number of carbon atoms and functional groups.
2) Hemiacetal, pyranose and furanose structure of glucose and fructose. D-L configuration based on glyceraldehydes.
3) Chemical reactions of glucose and fructose - i) formation of glycosides ii) Oxidation iii) reduction, iv) Osazone formation
4) Disaccharides - Structure and general properties of LActose, Maltose, Sucrose.
5) Polysaccharides - Structure and general idea of starch, cellulose, glycogen.
6) Hypoglycemia, Hyperglycemia, Renal Threshold.

UNIT –II

Metabolism of Carbohydrates

Glycolysis

Glycogenescis

Gluconeogenesis

Krebs cycle, HMP Shunt

UNIT –III

1. Amino acids-
   a) Definition and structure
   b) Classification - i) Essential and Nonessential ii) Glucogenic and ketogenic
c) Properties- Formation of peptide bond

d) Metabolism- Transamination, Oxidative deamination and urea synthesis

2) Proteins-

a) Definition, classification (based on structure and function)
b) Structure-primary, secondary and tertiary
c) Colour reactions- Ninhydin,Biurate, Million’s Xanthoproteic

Unit IV Enzymes-

a) Nomenclature and classification according to IUB system.
b) Terms used in enzymology- Enzymes, apoenzyme, prosthetic group, holoenzyme and coenzyme.
c) Effect on enzyme activity-i) pH ii) temperature

PRACTICALS:-

1) Qualitative Analysis

a) Colour reactions of carbohydrates
b) Colour reactions of proteins

2) Quantitative Analysis–

i) Estimation of glucose by Benedict method
ii) Sorenson's Amino acids titration (formal titration)

3) Preparations- a) potato starch

i) Solubility test
ii) colour reaction
c) Isolation of Casein from milk
   i) Solubility test
   ii) Colour Reactions

4) Experiments with Enzymes
   i) Action of Ptyalin (Salivary Amylase) on starch
   ii) Inversion (hydrolysis) of sucrose by yeast Invertase
   iii) Schardinger Enzyme (Xanthine oxidase) from milk.

Reference Books:

1) Handbook of Bio Chemistry: M. Siddiqui
2) Biochemistry: U Satyanarayan
3) Principle of Biochemistry: Lehinger, Nelson and Cox
4) Medical biochemistry- Harper
5) Medical Biochemistry-Shinde and Chatterjee
B.Sc.(Home-Science)  Semester-VI

Applied Chemistry

Paper VII

Theory : 1 Period/Wk/(Credits )  Practical : 2 Periods/Wk/(Credits )

Theory Marks 50

Practical Mks.25 :

Unit-I

Cosmetics : Definition, ingredients, preparation, properties and uses of shampoo, face powder, lipstick, cold cream, sunscreen lotion. Hazards of cosmetics.

Unit-II

Dyes : Definition of dyes, Witts theory of Colour and constitution, chemical classification of dyes based on their functional groups.

Different types of dyes : (Acid dyes, Basic dyes, Direct dyes, Vat dyes, Mordant dyes)

Unit – III

Essential oils – definition, occurrence and different methods of extraction of essential oils

Perfumes - Definition, components present and general method of preparation of perfumes, characteristics of good perfume, formulation of any two perfumes.

Unit – IV

Drugs - Definition, preparation and uses of paracetamol, oil of winter green and aspirin.

Amino acids – definition, general structure of amino acids, chemical structure of some simple naturally occurring amino acids, essential and non-essential amino acids, formation of peptide bond and Zwitterion.
Practicals;

1. Preparation of basic shampoo.
2. Preparation of herbal shampoo.
3. Preparation of face cream.
4. Preparation of perfumes.
5. Preparation of dyes.
6. Preparation of oil of winter green.

Books Recommended

1. Text book of organic chemistry - Bahl and Tuli
2. Text book of organic chemistry - Finar
3. Text Book of Engineering Chemistry, S.Chand Co. Dara,
4. Text book of Basic Applied chemistry  P.C.Jain and Monica Jain
5. Text Book of Applied Chemistry  T. Jacob
6. New Cosmetic Science  Mitsul

Chemistry and manufacturing of Cosmetic Vol. I,
### B. Sc. HOME SCIENCE

#### Semester III

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f) **Pract=Practical, IA= Internal Assessment. Th=Theory**

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g) **Note:** 1) The strength of a batch of practical for Under-Graduate classes shall be 16 with an addition of 10% with the permission of Vice-Chancellor.

### h) B. Sc. HOME SCIENCE

#### Semester IV

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B. Sc. HOME SCIENCE
Semester V

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</table>

s) Pract=Practical, IA=Internal Assessment. Th=Theory

Minimum marks for passing will be 35% of the total marks allotted to theory/ internal assessment/ practical. A candidate has to pass individually in theory / internal assessment / practical separately.

Note: 1) The strength of a batch of practical for Under-Graduate classes shall be 16 be 16 with an addition of 10% with the permission of Vice-Chancellor.