

DIRECTION, SCHEME AND SYLLABUS

FOR

CBCS SEMESTER PATTERN

IN

B.Sc. HOME SCIENC

GONDWANA UNIVERSITY

GADCHIROLI (M.S.)

INDIA

2017-2018

B.SC. HOME SCIENCE SEMESTER –I
PAPER-I
Fundamentals of Food Science and Nutrition-I
(1T-1)

Total Marks	100
Theory	60
Internal Assessment	15
I Practical	25

Objectives :-

1. To understand the function of food and the role of various nutrients, their requirements and effect of deficiency and excess.
2. To promote basic knowledge pertaining to various food groups and nutrients.
3. To make students familiar with the different methods of cooking, their advantages and disadvantages.
4. To develop ability to improve the nutritional quality of food.

THEORY

UNIT- I:-

INTRODUCTION TO FOOD AND NUTRITION

1. Basic terms used in Food and Nutrition. Definitions-Foods, Nutrition, Optimum nutrition, Nutritional status, Nutrients and Health.
2. Functions of food-Physiological, psychological and social
3. Characteristics of basic food groups and their contribution to the diet.
4. Nutrients and their type (Macronutrient / Micronutrient)
5. Scope of Nutrition
6. Specific dynamic action of food (SDA)
7. Protein sparing action of carbohydrates.

UNIT II: -

BALANCED DIET AND RDA

1. Balanced Diet

Definition.

Concept of Balanced diet.

Factors affecting balanced diet.

2. THE RECOMMENDED DIETARY ALLOWANCES (RDA)

Definition of RDA, Recommendations set-up, Reference Person and Recommended Dietary Allowances for Indians

Uses of Recommended Dietary Allowances (RDAs)

Food value Table

Unit III- Macronutrients

1. Protein- Definition, classifications, functions, sources, Digestion and absorption and deficiency states.
2. Fats - Definition, classifications, functions, sources, Digestion and absorption and deficiency states.

UNIT- IV

Fat Soluble Vitamins and Minerals

1. **Fat Soluble Vitamins** :Functions, Sources and Deficiency of:
 - a. Fat Soluble Vitamins -1) Vitamin A 2) Vitamin D 3) Vitamin E 4) Vitamin K
2. **Minerals**: Functions, Sources and Deficiency of :
 - b. Major Mineral -1) Calcium 2) Phosphorous 3) Iron 4) Iodine.

PRACTICALS

Total Marks	25
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1. Food Presentation and Table Setting.
2. Preparation of Ingredients : Pre-preparation, methods of mixing, methods of cooking.
3. Simple cooking- preparation, serving, calculation of cost and yield
 - a) Appetizers : Soups (any 2).
 - b) Starters: a) Paneer Preparations b) Samosa c) Kabab d) Cutlet (any 2).
 - c)Salad : a) Sprouted b)Vegetable c) Fruits (any 2).
 - d)Raita: (any 2).
 - e)Snacks : Pakoras, Namkin, Sandwiches, Idli, Dhokla (any 2)

INTERNAL ASSESSMENT (Refer Direction) Total Marks:-15

1. Market survey of the Food Commodities as per Food Groups and their cost.
2. Latest Kitchen appliances in the market-their use & upkeep (any 5).

Books Recommended:-

1. **Nutritive Value of Indian Foods:** *Gopalan C, Rama Shastri & Balasubramanin S.C., National Institute of Nutrition, 1993*
2. **Food Science, Chemistry and Experimental Foods:** *Dr.M.Swaminathan, The Bangalore Printing and Publishing Co. Ltd. 1995.*

3. **Essentials of Food and Nutrition**, Vol.I (Fundamental aspects): *Dr. Swaminathan*, 2nd edition BAPPCO, 1985.
4. **Applied Nutrition**: *R. Rajlakshami* Oxford & IBH Pub. Co.pvt Ltd,3rd edition, 1981.
5. **Foods and Nutrition**: *The Educational Planning Group, Delhi*, Arya Publishing House. 3rd edition, 1991.
6. **Food Chemistry**: *Meyer, L.H.* CBS Publishers & Distributors, Delhi, 1987.
7. **Scope manual on Nutrition**: *Latham M.C., McGandy, McCann M.B.& Stare F.J.* Published by the Upjohn Co, Kalamazoo, Michigan, 2nd edition. The Upjohn Co, Kalamazoo, Michigan 1972.
8. **Every Day Indian Processed foods**: *K.T. Achaya*, National Book Trust, India, 1984.
9. **The book of Ingredients**: *Philip Dowell & Adrian Bailey, Michaey*, Michael Joseph, Ltd, 1980.
10. **Nutrition an integrated approach** : Pike Ruth L and Brown Myrtle L. 1970 :: Wiley Eastern Pvt Ltd.
11. **Nutrition Science**: *B. Srilakshmi* 4th Edition. New Age International Ltd.
12. **Fundamentals of Foods, Nutrition and Diet Therapy** :*S.R Mudambi and M.V.Rajgopal.* New Age International Ltd.
13. **Modern Cookery**: Thangam Phillip

B.Sc HOME SCIENCE SEMESTER - I
PAPER -II
Fundamentals of Human Development
(1T-2)

Total Marks	100
Theory	60
Internal Assessment	15
I Practical	25

Objectives :

1. To make the students aware of science of Human Development.
2. To make student aware of methods of studying human behaviour.

Theory:

Unit I - Introduction to Human Development

1. What is Human Development? Definition of HD, why do we need to study HD?
2. Brief history and studies of HD
3. HD as a scientific discipline
4. Scope of the subject
5. Developmental period
6. Rate of development and developmental task.

Unit II – Growth & Development

1. Meaning of growth & development, Principles of growth & development
2. Principal of growth and development
3. Factors influencing growth and development and dimensions of development
4. Role of heredity and Environment, maturation, genetic endowment and learning
5. Needs and Rights of children's

Unit III :- Stages of development –

1. Female reproductive system, menstrual cycle, Fertilization, Conception.
2. prenatal Development- Factors influencing prenatal Development.
3. Complications / Hazards during pregnancy.
4. Disturbance and care during pregnancy.
5. Birth process, kind of birth

Unit IV – Creche

1. **Creche:-** Meaning , importance, setup, programme planning ,staff, type of records and maintenance

2. **Play:-** Meaning, definition ,type, values, characteristics,theories
3. **Discipline:-** Definition, type and principals.

Total Marks	25
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Practicals

1. Methods of child study –
 - Anthropometry, Observation, Interview, Questionnaire, Case study, Projective, Psychological tests, Sociometry, Longitudinal and cross sectional approach
2. Survey of 10 pregnant women (use of questionnaire is compulsory)
3. Observation of children while play.(record to be maintained)
4. Various development of children.

Internal Assessment (Refer Direction) (Total marks:-15)

1. Visit to crèche and Anganwadi
2. Preparation of resources files on human development.
3. Preparation of work book on any one.
4. Type of play.
5. Type of discipline, Heredity and environment etc.

References :

- Santrock, J.W. (2006). Child development New York : Mc Graw Hill.
- Swaminathan, M. (1998), The first five years : A critical perspective on early childhood care and education in India. New Delhi : Sage .

B.Sc. HOME SCIENCE SEMESTER – I
PAPER – III
Fundamentals of Textile & Clothing
(1T-3)

Total Marks	100
Theory	60
Internal Assessment	15
I Practical	25

OBJECTIVES:

1. To get acquainted with basic knowledge of textile fibers.
2. To acquire knowledge of various principles of clothing constructions, and their application.

Unit I:

1. Scope of textile and Importance of clothing :.
2. Classification of textile fibers, General and essential properties of textile fibers
3. Manufacturing process of natural fibers.:-Cotton, silk, wool ,jute.
4. Physical and chemical properties of natural fibres

Unit II :

1. Manufacturing process, of man made fibers :- viscose rayon, nylon, polyester
Acrylic.
2. Physical and chemical properties of man made fibres
3. Latest fibres :- Introduction and use of - Organic cotton , Bamboo , Soy, Lyocel, Metallic,
Lycra (spandex)

Unit III :

1. Factors affecting clothing : Age, Sex, Cultural influence, Occupation, Economic
Status, Social status, Regional beliefs.
2. Introduction to Tools for pattern making and Garment construction- Measuring tools,
marking tools, Cutting tools, sewing tools, Pressing tools,

3. Sewing machine –parts, functions, care
4. Types of sewing machines and their uses (over lock ,embroidery, computerized, industrial)

Unit IV: Clothing

1. General principles of clothing construction .Process of Taking body measurements for different garments,
2. Importance of drafting method.
3. Preparation of Cloth for clothing construction. Cutting & stitching according to design and textures of fabric (plaids, stripes, border and bold designs).

PRACTICALS

Total Marks	25
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1. Demonstration of taking body measurements.
2. Drafting, cutting & stitching of :-Apron, , Bloomer, Baby Frock
3. Embroidery album Decorative stitches - chain, herringbone, stem, running, lazy-daisy, satin, French knot, bullion stitch, buttonhole(Make 4 samples of combination of 2 decorative stitches)
4. Introduction to a sewing machine with a demonstration and practice of learning the running of sewing machine on paper on straight lines, curved lines and corners

Internal Assessment (Refer Direction) (Total marks:-15)

1. Make a decorative article by using combination of decorative stitches(embroidery)
2. Visit to Textile Mill or handloom unit

References:

- Deulkar Durga - Household Textile and Laundry Work, Orient Longman, Delhi.
- Dantyagi S. - Fundamentals of Textile and their care. Orient Longman, Delhi.
- Dorling Kindersley- The complete Book of Sewing, London, New York.
- Dorothy Siegart, Lyle-Modem Textiles, John Wiley and Sons.Inc New York
- Doongaji. S and Deshpande R - Basic Process of Clothing Construction.
- Erwin, Mabel and kinchen- Clothing for Modern ,Mac Milan publishing, New York.
- Fabrics science by Joseph Puzuto
- Modern textiles by Dorothy Siegert Lyle
- Understanding fabric from fiber to finished cloth by Dbbie and Giollo
- Understanding textiles by Phyllis G. Tortora and Billie J Collier
- Corbman,P.B., Textiles-Fibre to Fabric, Gregg Division/McGraw Hill Book Co.,US, 1985.

- Joseph M.L.,Essentials of Textiles (5th Edition), Holt, Rinehart and Winston Inc.,Florida, 1988.

B.Sc. HOME SCIENCE SEMESTER – I
Paper – IV

(Fundamentals of Family Resource Management)

(1T-4)

Total Marks	100
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Theory	60
Internal Assessment	15
I Practical	25

Objective :

- 1) To develop good taste through the study of basic elements and principles of design
- 2) To develop aesthetic sense and to be good art consumer

COURSE CONTENT: Theory

Unit I – Introduction to Foundation of art and Design

1. Meaning of art
2. Elements of art:- a) Line b) Form c) Colour d) Texture e) Space d) Light g) Pattern h) Idea
3. Concept of design
4. Objectives to design – i) Beauty ii) Expressiveness iii) Functionalism
5. Design and principles of art
- 6.Types of design : - i) Structural ii) Decorative iii) Naturalistic
iv) Stylized v) Geometric iv) Abstract vii) Modern viii) Traditional

Unit II Principal of Design in interior

3. **Harmony:-** a) Definition and importance
4. b) Line and shape ,texture, idea and colour
c)Application in Interior decoration
- 3. Balance:-** a) Definition and Importance b) types of Balance – Formal, Informal, Redial
c) Balance in interior & exterior decoration
- 4. Rhythm –**
a) Definition and importance
b) Application in interior decoration
- 5.Proportion –**
a) Definition and importance
- 6 .Emphasis –**
a) Definition and importance

Unit III – Importance of colour and colour scheme in Interior Decoration

1. Classification of color

- i) Primary ii) Secondary iii) Intermediate iv) Tertiary
- iv) Quaternary v) Neutral

2. Characteristics or dimensions of colour

- i) Hue ii) Value iii) Intensity

3. Colour wheel, Warm & cool colours

4. Colour Schemes:

- a) Related colour scheme: i) Monochromatic ii) Analogous
- b) Contrast colour scheme: i) Complementary ii) Double complementary
- iii) Split complementary iv) Triad v) Neutral

5. Colour schemes for different rooms

- i) Kitchen and dining
- ii) Drawing room /Living room
- iii) Bed room

Unit IV–

Decorating Interior & Exterior:

1. Flower Arrangement :- Definition and importance

- 2. i) Elements of Art in flower Arrangement. ii) Principles of Art in Flower arrangement.

3. Types of flower arrangement

- a) Traditional b) oriental / Japanese c) Modern d) Floating e) Miniature b) Dry

4. Use of Flower arrangements: i) Personality ii) Occasion iii) Placement in rooms

- iv) Flowers as gift

5. Objectives and Material required for floral decoration.

Total Marks	25
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Practical

Experiment No. 1.- Types of design

- i) Structural ii) Decorative

No. iii - Naturalistic and stylized

No.iv - Geometric and Abstract

No.v - Modern and Traditional

No.vi - Types of Balance

ENGLISH AND COMMUNICATION SKILLS

PAPER V

Total Marks : 50
Theory : 40
Internal Assessment : 10

- No.2. - Ways & of obtaining rhythm
No.3. - Harmony of line and shape
No.4. - Classes of colors
i) Primary ii) Secondary iii) Intermediate
No.5. - Colour Wheel
No.6. - Warm & cool colours
No.7. - Value Scale -
No.8 - Types of flower decoration / Arrangement
i) Single stick ii) Small Bunch iii) Miniature iv) Modern

INTERNAL ASSESSMENT(Refer Direction)

Total Marks	15
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- Accessories in interior (Any two)
1) Accessories in home decoration (Creative Art)
2) Floral Carpets
3) Artificial Flowers
4) Rangoli-Using various types of materials
Note-Workshop to be conducted to teach new articles

Books Recommended

- 1) Goldstein H/ Goldstein v – ‘ Art in Everyday Life’ Macclian co, New York 4th Edition
- 2) Mann M- Home Furnishing, weley Easterly Pvt Ltd.
- 3) Sundaraj ‘Text Book of Household arts’ orient long man, Bombay

Unit IV

Grammar

Articles, Prepositions

1. Change of Narration
2. Tenses
3. Transformation of Sentences : Assertive, Interrogative, Exclamatory

Books Recommended

Objective Grammar Practice by Raj N. Bakshi ed. by Orient Longman.

1. Macmillan Foundation English by R.K. Dwivedi pub. by Macmillan India Ltd.
1. To prepare the students to communicate effectively in English.
2. Business Communication by Rajendra Pal and P.S. Korfadali pub. by Sultan Chand and Sons, New Delhi, Students to master reading, writing, speaking and listening skills.
3. English Grammar and Composition by C.S. Mudambadi Vikas Publishing House Pvt Ltd.
4. English Grammar and Composition by Raviindra Pratap Singh, published by Sultan Chand etc in New Delhi, idiomatic English.
5. English Grammar, Composition and Usage training through situational role play, F.T. Wood
6. Creative English For Communication by N. Krishna Swamy and T. Sriraman published by Macmillan India Ltd.

Unit I

Text: English prose for Pleasure and Profit (An Anthology)

By R. N. Roy published by S. Chand and Co. New Delhi

Prescribed Lessons: i) Home to Gandhi ii) All About A Dog

Internal Assessment :

Marks : 10

Unit II The Conversational Skill will be taught. Role play method is recommended. The VWXGHQW ZLOO EH DVVHV VHG GXULQJ WKH UROH SOD\ SUDFWLFDO,
1) Comprehension:

Handling of audio – visual aids such as OHP. The topic for role play can be taken from any part of the Passage Based on text will be given for analysis. Questions will be based on comprehension of content and vocabulary. Answers must be written in the students own language, with minimum use of words and phrases from the
Method of Assessment :

The student will be assessed for language fluency, correct grammar and logical sentence

Unit III

1) **Passage Writing** on the basis of given hints 80% of the total marks (50) and for the Sessional 10% of the total marks (25)

It will test the descriptive vocabulary and constructive logical narrative capabilities of the students.

2) Letter Writing

Students should be trained thoroughly in dealing with formal and informal letters.

1. Letters to Parents/Relatives/ Friends
2. Letters to Principle

Paper Pattern

B.SC Home Science Part I

English and Communication Skills

Time : 3 Hours

Max. Marks :40

Q.1) One LAQ. of about 200 words is to be attempted out of Two based on English prose pleasure and profit.

Marks :

10

Q. 2) Two SAQ of about 75 words is to be attempted out of Four based on English prose for pleasure and profit.

Marks 10

Q. 3) Question based on Unseen Passage for comprehension.

Marks : 10

Q. 4a) Paragraph Writing on the basis of given points.

Marks :

05

Q. 4b) One letter out of Two to be attempted.

Marks :

05

Q. 5) Ten question out of fourteen are to be attempted on the basis of prescribed Grammar

Topics.

Marks : 10

B. Sc. Home Science
SEMESTER I
BASIC COMPUTER

Int. pract Marks - 50

1. **Introduction To Computer**
2. **Introduction To Operating System**
 - 2.1) What Is O.S.
 - 2.2) Introduction To Windows Xp
 - 2.3) Starting Of Window
 - 2.4) Working Of Start Menu
 - 2.5) Shutting Down The Computer
 - 2.6) Using Windows Explorer
 - 2.6.1) Moving A File Or A Folder
 - 2.6.2) Creating Shortcuts
 - 2.7) Working With Files And Folder
 - 2.7.1) Creating A Folder
 - 2.7.2) Deleting A file Or Folder
 - 2.8) Customizing The Desktop
 - 2.8.1) Changing Desktop Background
 - 2.8.2) Changing Screen Resolution
 - 2.8.3) Setting Up A Screen Saver
 - 2.9) Customizing Taskbar
 - 2.9.1) Move And Resize The Taskbar
 - 2.9.2) Hiding The Taskbar
 - 2.10) Working With Multimedia
3. **Ms-Word 2013**
 - 3.1) What Is Microsoft Office 2013?
 - 3.2) Introduction To Word 2013
 - 3.3) Starting Word 2013
 - 3.4) Creating A New Document
 - 3.5) Saving Anew Document
 - 3.6) Closing A Document
 - 3.7) Exiting Word 2013
 - 3.8) Opening An Existing Document
 - 3.9) Undo & Redo
 - 3.10) Moving Text
 - 3.11) Copying Text
 - 3.12) Formatting Text

- 3.13) Formatting Paragraphs
- 3.14) Tables In Words 2013
- 3.15) Formatting A Tables
- 3.16) Mail Merge
- 3.17) Protecting The Document
- 3.18) Macros In Word 2013
- 3.19) Hyperlinks
- 3.20) Printing Of Documents

4 Ms - Excel 2013

- a. Introduction To Excel 2013
- b. Starting With Excel 2013.
 - Opening A New Workbook
- d. Saving The Workbook
- e. Entering Data In A Worksheet
- f. Selection Techniques
- g. Editing Cell Data
- h. Copying The Data
- i. Moving The Data
- j. Deleting The Data
- k. Inserting Rows And Columns
- l. Using Formulas In Excel
- m. Using Function In Excel
 - 4.1) Mathematical Function
 - 4.2) Text Function
 - 4.3) Date & Time Function
 - 4.4) Logical Function
- n. Creating Chart
- o. Sorting Of Data
- p. Printing The Worksheet

B.Sc. HOME SCIENCE

SEMESTER –II

CBCS

B.Sc HOME SCIENCE SEMESTER –II

PAPER-I

Basic Food Science and Nutrition-II

(2T-1)

Total Marks	100
Theory + IA	60 +15 = 75
Practical	25

Objectives :-

1. To understand the function of food and the role of various nutrients, their requirements and effect of deficiency and excess.
2. To promote basic knowledge pertaining to various food groups and nutrients.
3. To make students familiar with the different methods of cooking, their advantages and disadvantages.
4. To develop ability to improve the nutritional quality of food.

COURSE CONTENT THEORY

Unit I

Carbohydrates and Fibre

1. Carbohydrates – Definition, classifications, functions, sources, Digestion and absorption and deficiency states.
2. Importance in disease prevention.

Unit II

Vitamins

1. Water Soluble Vitamins: Functions, Sources and Deficiency of :
i) Thiamine (B₁) ii) Riboflavin(B₂) iii) Nicotinic acid (B₃) iv) Pyridoxine (B₆)
v) Biotin vi) Folic Acid vii)Cyanocobalamine (B₁₂) viii)Vitamin C.

Unit III

Minerals and Water

1.Minerals Functions, Sources and Deficiency of

Trace element- 1) Sodium 2) Potassium 3) Magnesium 4) Zinc

2. Water - Functions of water in human body, water balance, sources of water in human body, effect of dehydration and its prevention.

Unit IV

Energy and Methods of Cooking

1. **Energy** :Definition and factors affecting BMR .Units of Energy.
Energy measurement of food (Bomb calorimeter).
2. **Methods of Cooking**
 1. Objective of cooking food
 2. Different cooking methods, different cooking media
 3. Effect of different methods of cooking on nutrients.

PRACTICAL :Total marks -25

Simple cooking- preparation, serving, calculation of cost and yield.

- a) Cereals – Plain Rice, Pulao, Sweet Rice Masale Bhat
(any2)
- b) Chapati, Puri, Paratha, Missi Roti, PuranPoli, Bhakri
(any 2).
- c) Pulse Preparation – Whole, Dehusk and Sprouted (any 2).
- d) Vegetable Preparation- Dry Curries and Baked (any 2).
- e) Fruit Preparation – Fresh, Dried Baked and Steamed (any 2).
- f) Milk Preparation – Porridge, Desserts, Curds, and Paneer Preparation (any 2).
- g) Egg. Preparation – Boiled, Fried, Poached and Custard (any 2)

INTERNAL ASSESSMENT

Any one of the following

Total Marks	15
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1. Market survey of the Food Commodities as per Food Groups and their cost.
2. Scrap Book: Related to food groups, Sources, Deficiencies of Various nutrients.
1. Canteen.

Books Recommended:-

1. **Nutritive Value of Indian Foods:** *Gopalan C, Rama Shastri & Balasubramanin S.C.*, National Institute of Nutrition, 1993
2. **Food Science, Chemistry and Experimental Foods:** *Dr.M.Swaminathan*, The Bangalore Printing and Publishing Co. Ltd. 1995.
3. **Essentials of Food and Nutrition**, Vol.I (Fundamental aspects): *Dr. Swaminathan*, 2nd edition BAPPCO, 1985.
4. **Applied Nutrition:** *R. Rajlakshami* Oxford & IBH Pub. Co.pvt Ltd, 3rd edition, 1981.
5. **Foods and Nutrition:** *The Educational Planning Group, Delhi*, Arya Publishing House. 3rd edition, 1991.

6. **Food Chemistry:** Meyer, L.H. CBS Publishers & Distributors, Delhi, 1987.

**B.Sc. Home Science
Semester II**

**Infant Stimulation And Toddlerhood
Paper- II
2T2**

	Total Marks ±	100
	Theory-	60
Pra -		25
-	IA	15

UNIT-I Infancy:-

- (0-2 years) Neonate- an overview, reflexes, APGAR scale, adjustments of neonate, factors affecting, Physical development height, weight, head circumference. Definition, changes in body proportion & structure, common motor skills, pre-speech forms of communication, speech skills, cognitive developmental process, sensory motor development, socio-emotional development.

Unit-II Care:-

- Immunization.
- Guidance in feeding, weaning, teething, toilet training, bathing, sleeping, health &
- Postnatal care of mother & baby, importance of breast feeding , advantages of breast feeding , scientific method feeding .

Unit – III Toddlerhood:-

- Characteristics, developmental tasks, physical development, muscle control,
7. **Scope**
manual on Nutrition: Latham M.C., McGandy, McCann M.B. & Stare F.J. Published by the Upjohn Co, Kalamazoo, Michigan, 2nd edition. The Upjohn Co, Kalamazoo, Michigan 1972.

speech development, emotional behavior, socialization, interest in play, development of understanding beginnings of morality, hazards & happiness.

Unit – IV Stimulation

- Development of senses, role of care giver in providing a safe environment for developing motor abilities. Significance of stimulation during infancy, type of stimulation, [visual, motor, auditory, language & tactile].
- Personality: - meaning, definition, factors influencing heredity environment, peer group, social interaction.

Practicals:-25 Marks

1. Anthropometric measurement, introduction, height, weight, head, midarm, chest, circumference, measurement of 5 children & compare with norms
How to take measurements.
2. Learning & preparation of different activities for stimulation, tactile, auditory, motor, language, visual & cognitive.
3. Preparation of educational toys a) constrictive, b) matching / sorting / classifying, c) simple mathematical.

Internal Assesment :-15 Marks

1. Survey of ten lactating mother(use of questionnaire is compulsory)
2. Visit to maternity ward.
3. Visit to well baby clinic
(Record to be maintained)

Book Recommended:-

1. Developmental Psychology : Elizabeth Hurlock, 5th edition, 1981, Tata McGraw Hill Publishing Co. New Delhi
2. Human Development : Dian E Papalia & Sally Wendkos olds, 5th Edition 1981,
1. Tata McGraw Hill Publishing Co. New Delhi
- 3 Child Psychology : Vatsayayan, 3rd edition KedarNath Ram NathMeerul.
4. Developmental Psychology : Vatsayayan, 3rd edition KedarNath Ram NathMeerul.
- 5 Children in Crèche : Alfred D`Souza, Intellectual Publishing House, Delhi

B.SC. HOME SCIENCE SEMESTER – II
PAPER – III
Fabric Study
(2T-3)

Total Marks	100
Theory + IA	60+15
Practical	25

OBJECTIVES:

1. To understand the importance and necessity of various construction techniques for different fabrics, and to acquire the skills to apply those construction techniques in a sample form
2. To enhance the knowledge of fabrics.

Unit I :

1. Types of Yarn – Simple, novelty, textured yarns. Yarn twist,
2. Spinning Process- Mechanical- Ring spinning, Open-end spinning.
3. Chemical spinning – Dry, wet, melt.
4. Blends : Reasons for blending, methods of blending,

Unit II :-Methods of Fabric construction

Weaving Knitting, Felting and Bridingand non woven fabric,

Weaving – Parts of Hand looms and Process

1. Standard weaves :- Plane and derivate, twill and derivatives, satin and sateen, honeycomb, mockleno.
2. Basic Knitting Technology :- Principles of weaving and knitting, Introduction to weft and warp knitting.
3. Knitting:- Classification of weft knitting machines. Terms and definition of weft knitting.
4. Study of basic weft knit structures and their characteristics

Unit III

1. Finishing Process :- General and special finishing.

Purpose of finishes.

2. Sizing, singeing, desizing, scoring, bleaching, mercerizing, calendaring and special calendaring., tentering and napping finishes.
3. Wrinkle free finishes:- Water repellent, Flame retardant and antimicrobial finish, shrinkage

control.

Unit IV

1. Clothing requirement for infants, toddlers, pre-school and elementary school children. Self-help- garment.
2. Wardrobe planning- meaning, importance and budgeting, Factors influencing wardrobe planning for different age groups. Methods of arrangement of garments in wardrobe. Storage of clothe.

PRACTICALS :- 25 Marks

1. Make samples of
 - i. Surface ornamentation- Appliqué, Quilting, smoking,
 - ii. Drafting cutting and stitching of :-Baba suit, Romper, Saree Petticoat
 - iii.Plain seam and seam finishes – Pinking, Turned and Stitched, Edge stitched, overcast finish, overlocked, piped finish
 - iv. French seam, run-n-fell seam, lapped seam, top stitching, piped seam

Total Marks	25
Drafting	5
Stitching-	10
Sample	5
Record	5

INTERNAL ASSESSMENT

1. Preparation of sample book based on trimmings, fasteners.
2. Preparation of Charts/ Assignments.

Total Marks	15
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REFERENCE BOOKS:

1. Aswani K.T. Fancy Weaving Mechanism, Mahajan Books, Ahmedabad.
2. DeulkarDurga - Household Textile and laundry work, Atmaram and sons, Delhi,
3. Dongorkemy Kamala S.- The Romance of Indian Embroidery, Thakur and Co. Bombay.
4. Dorothy Siegart, Lyle - Modern Textiles, John Wiley and Sons. Inc New York.
5. Nisbet H. - Grammer of Textile Design, Taraporwala and Sons, Bombay
6. PanditSavitri - Indian Embroidery, its variegated charms.
7. Complete Guide to Sewing-Readers Digest, The reader's digest association, 1976
8. Complete Book of Sewing, Alison Smith Dorling Kindersley, 1999

9. Singer Sewing Book, Gladys Cunningham, The Singer Company

B.Sc. Home Science Semester II
Fundamentals of Home Science Extension
Paper IV
2T4

Total – 100
Theory – 60
Prac. -25
Int. Ass. - 15

Objectives :

- To impart knowledge regarding :
- To impart knowledge of extension education :
- To acquire knowledge of meaning, fields and objectives of home science extension.
- To develop understanding the importance and functions, models of communication.
- To understand the role of extension teaching method in the field of extension.

Unit – I

Extension Education : Definition of education, types of education, definition of extension education, origin & meaning of extension education, concept , objectives, principles fields, philosophy of extension education, variation between formal & extension education, essential links in the chain of rural development.

Unit – II

Home Science Extension : Definition concept of home science extension, fields of home science extension, philosophy of home science extension, characteristics of home science extension, objectives of home science extension, scope of home science extension, guiding of principles of home science extension.

Unit – III

Communication in Extension: Meaning & Definitions, importance and functions of communication in extension, scope of communication, models of communication, communication process, and problems related to elements of communication.

Unit – IV

Extension Teaching Methods : Meaning & definition, importance functions and classification of extension teaching methods according to use and according to form, study of various extension teaching methods.

Interpersonal approach : Visits (Home & Farm), calls (Office & Telephone) & letters.(Personal & Official)

Group approach : Lecture, Method demonstration, study tour, group discussion and meetings.

Mass approach : Circular letter, result demonstration, puppet show, exhibition and film show.

Practicals :25 Marks

1. Preparation & presentation of flannel cut outs on home science aspects to provide effective communication to the learners.
2. Practice of preparing circular letter to motivate homemakers for acceptance of new ideas.
3. Visits to rural areas to get information about rural living (their needs, interests, customs and traditions, standard of living, economic status, educational background, habits, etc)
4. Framing of simple questionnaire to collect data on rural life style.

Internal Assessment : 15 Marks

- 1) Preparation of a twelve page album on rural development activities.
- 2) Arranging 5 photos in photo-album on any developmental activity in village.

Reference :

1. Dahama, O.P. and Bhatnagar O.P. Education and communication for development oxford and B.M. publishing Co. New Delhi.
2. Chandra A : Introduction of home science, Metropolitan book co. New Delhi.
3. Supe S.V. An Introduction to extension education oxford and IBH publishing co. New Delhi.
4. Singh K. Rural sociology, prakashan Kendra, Lucknow.
5. FarkadeT.Gonge, S.Gruhavigyavistar, Vidyaprakashan, Nagpur.

B. Sc I Home Science
Semester II
ENGLISH & COMMUNICATION SKILLS
Paper VI

Total Marks	: 50
Theory	: 40
Internal Assessment	:10

Unit I

Text : English Prose for Pleasure and Profit (An Anthology)

By R.N. Roy published by S. Chand and Co. New Delhi.

Prescribed lessons :-

- i) Martin Luther King ii) The Little Angel iii) The Way To Equal Distribution
iv) The Dying Sun

Unit II

1. Comprehension :-

An unseen passage will be given for analysis. Questions will be based on Comprehension of Content and Vocabulary. Answers must be written in the students Own language with minimum use of words and phrases from the passage.

UNIT III

1. Paragraph Writing :-

Students would be given four topics for paragraph writing. Out of which one is to be attempted with in 150 words.

2. Letter Writing :-

Students should be trained thoroughly in dealing With Formal Letters/Business Correspondence such as :

- 1) Sales Letters 2) Enquiry Letters 3) Job application Letters
4) Letters to the Editor 5) Business proposal

Unit IV

Grammar

Change of Voice

- Degrees of Comparison
- Transformation of Sentences : Use of \pm As soon as, No sooner than, either or, neither nor, unless, until, etc.
- Phrasal Verbs
- Punctuation

Internal Assessment :-

A)Personal Interview/Viva :-

The students will be given training on how to appear for an interview, what kind of common questions to expect, the kind of language required for appropriate formal responses etc. Role Play method is recommended here.

B)GroupDiscussion :-

Students will need to acquire Correct Speaking Skills as well as leadership skills taught through this module.

Method of Assessment :-

The student will be assessed for language fluency, Correct grammar and logical sentence construction.

Passing Marks for theory paper will be (18) of the total marks of (50) and for the Internal Assessment (10) of the total marks of (25)

Books Recommended :-

1)English Grammar Practical by Raj N. Bakshi ed. by Orient Longman.

2)English Grammar and Composition by Rajendra Pal and Premlata Suri ed by Sultan Chand and Sons, New Delhi.

3)Business Communication by Rajendra Pal and J.S. Korlahalli pub. by Sultan Chand and Sons, New Delhi, ISBN 81-7014-928-2

4)Creative English For Communication by N. Krishna swamy and T. Sriraman pub. by

Macmillan India Ltd.

B.Sc. HOME SCIENCE
SEMESTER-II
BASIC COMPUTER

Practical – 50 Marks

1 Introduction to Internet

- 1.1) Basic of Internet
- 1.2) History of Internet
- 1.3) Basic Internet Terminology
- 1.4) Services on Internet
 - 1.4.1) World Wide Web (WWW)
 - 1.4.2) Newsgroups
 - 1.4.3) FTP
 - 1.4.4) Chatting
 - 1.4.5) E-Commerce
 - 1.4.6) Telnet
 - 1.4.7) Gopher
 - 1.4.8) E-mail
- 1.5) Connecting your PC to Internet
- 1.6) Creating your E-mail address
- 1.7) Sending mails
- 1.8) Reading mails
- 1.9) Forwarding mails
- 1.10) Search Engine
- 1.11) Chatting Fundamental
- 1.12) Social Networking Site
- 1.13) Cyber Crime
 - 1.13.1) Different kinds of Cyber Crime

Ms- PowerPoint 2013

- 2.1 Introduction to Power Point 2013
- 2. Basic PowerPoint Terminology
 - 2.2.1) Slide
 - 2.2.2) Presentation
 - 2.2.3) Notes
 - 2.2.4) Handouts
- 2.3) Starting PowerPoint
- 2.4) Creating a New Presentation

- 2.5) Saving a Presentation
- 2.6) Adding a New Slide to the Presentation
- 2.7) Different Views in PowerPoint 2013
 - 2.7.1) Normal View
 - 2.7.2) Slide Sorter View
 - 2.7.3) Notes Page View
 - 2.7.4) Slide Show View
- 2.8) Slide Layouts in PowerPoint 2013
- 2.9) Working with Text
 - 2.9.1) Moving a Text Box
 - 2.9.2) Resizing a Placeholder
 - 2.9.3) Rotating a Text Box
 - 2.9.4) Filling Color in a Text Box
 - 2.9.5) Changing the Font of Text
- 2.10) Theme in PowerPoint 2013
- 2.11) Clipart in Presentation
- 2.12) Organization Charts
- 2.13) Slide Show View
- 2.14) Slide Transition
- 2.15) Animating Slides
- 2.16) Master Slides
 - 2.16.1) Formatting a Slide Master
 - 2.16.2) Applying a Slide Master

p total

30

References :-

1. Elements of Computer Science, S. K. Sarkar, A. K. Gupta, S. Chand & Co., New Delhi
2. Fundamental of computers E. Balguruswamy, Mc Graw Hill Education Pvt. Ltd. New Delhi
3. Computer fundamental (concepts, system & application) Pradeep K. Sinha, Priti Sinha, Sixth edition 2011, B.P.B . Publication
4. Comdex computer course, Vikas Gupta, PM Publication, New Delhi.