

GOVT. D.B. GIRLS' P.G. AUTONOMOUS COLLEGE
RAIPUR (CHHATTISGARH)

FACULTY OF HOME SCIENCE

SYLLABUS
OF
B.SC. (HOME-SCIENCE)
(WITH TRADITIONAL PAPERS)
Part-I,II and III
2020-21

DEPARTMENT OF HOME SCIENCE
B.Sc. (H.Sc.)-III
SESSION 2020-21
Group – A
PAPER - I

M.M. 50

NUTRITIONAL BIOCHEMISTRY

UNIT-I

- (A) Introduction to Biochemistry - definition, objectives, scope and interrelationship between Biochemistry and other biological sciences.
- (B) Carbohydrates - Definition, classifications functions and properties of
 - Monosaccharides - Glucose, Fructose, Galactose
 - Disaccharides - Maltose, Lactose, Sucrose
 - Polysaccharides - Dextrin, Starch, GlycogenGlycolysis, Gluconeogenesis, Glycogenesis
Glycogenolysis, Citric and Cycle.
Blood sugar regulation.

UNIT-II

- (A) Lipids - Definition, composition, importance and classification
Fatty acids - Functions, properties
Significance of Acid value, Iodine value and saponification value.
Chemistry and function of Phospholipids, Glycolipids and sterols.
Metabolism - Beta Oxidation
- (B) Aspects of transport – Passive diffusion, Facilitated diffusion, Active transport

UNIT-III

- (A) Proteins - Definition composition function, and classification.
Amino acids - Essential and Nonessential
Metabolism - Urea cycle, Nitrogen balance, Amino acid pool
- (B) Enzymes - Definition, properties, classification, Mode of action of enzymes, factors affecting velocity of enzyme catalyzed reactions, coenzymes.

UNIT- IV

- (A) Hormones - Biological roles of hormones of Pituitary, Adrenal cortex and medull, Thyroid, Parathyroid, Pancreas, Sex glands.
- (B) Urine - Formation and Composition

UNIT-V

- (A) Energy - Definition, Unit, calorimetry, caloric value of foods, BMR, RQ, SDA of Foods.
- (B) Nucleic Acid and Nucleoproteins – Chemistry, composition, structure, functions

1. PRACTICALS (Any Six)

1. Identification of Glucose, Fructose, Maltose, Lactose, Sucrose, Starch.
2. Colour and precipitation reactions of Protein.
3. Colour reactions of cholesterol.
4. Estimation of Glucose by Benedict's method.
5. Estimation of Ascorbic acid by Iodometric method.
6. Estimation of Glycine by Titration.
7. Estimation of Haemoglobin by acid haemolysis method.
8. Preparation of Haematin crystals.
9. Action of Salivary amylase on conversion of starch.

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Group – A

PAPER –II

FOOD PRESERVATION

UNIT-I

Food and its preservation.
Home and community level including commercial operations.
Principles of food Preservation
Causes of spoilage of food.

UNIT-II

Fresh Food Storage
Principles - Plant product.
Storage, animal product
Storage, Effect of Storage
Condition on quality
Canning - Principles and methodology influence of canning on food quality. Storage of canned foods.

UNIT-III

Pasteurisation

Effect on food quality.
Storage of pasteurised food.

Drying & Dehydration

Methods used and effect on food quality. Types of driers. Storage and deterioration of dehydrated food products.

UNIT-IV

Use of low temperature

Refrigeration and freezing methods, principles and applications. Preparation of foods for freezing influence on food components and structure. Self life of frozen foods

Pickling and Fermentation

Pickles, chutneys, ketchups sauces. Fermentation - Types, products and method use
Establishment of a small scale industry / cottage industry.

UNIT-V

Chemical Preservatives

Preparation of Fruit, Juices, Squashes, Fruit Syrups, Cordials, Jam Jelly.

High Acid & High Sugar Products –

common defects, Preservation of crystallized and glazed fruits.

Nutritional Implications of food processing

Causes for loss of vitamins and minerals, Enrichment, Restoration and Fortification

PRACTICALS :(Any Six)

1. Preparation of Jam, Jellies marmalades.
2. Preparation of Pickles & chutneys.
3. Dehydration of Vegetables & Fruits.
4. Preparation of synthetic syrups & squashes.
5. Preparation of Sauces.
6. Preparation of Papad, Badi, Chips.
7. Survey of market products.
8. Packaging.

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**Group-B
PAPER - I
APPAREL MAKING & CLOTHING CONSTRUCTION**

M.M.-50

UNIT-I

Introduction

- Importance of Clothing
- Sociological & psychological aspects of clothing Fabrics to be considered while selecting of fabric for different garment.
- Estimation of material required for different garments (cloth estimation)
- Study of fabric finishes - Meaning, objective facilities, General & special.

UNIT-II

Experiments & principles of design : Meaning methods of creating importance Elements of principles of design as applied, to apparel designing - Harmony, balance proportion, Rhythm & emphasis.

Element :- Lines, shapes / forms.

Colour consideration : Definition, Dimensions, characteristics colour systems & colour schemes.

Classification & Process of designing.

Structural.

Decorative.

Realistic

Abstract

Stylized

Geometric

Traditional

Big & small design

UNIT-III

Fashion - Definition

- Fashion trends in India & changes
- Theories
- Body measurements
- Tailoring tools & Equipments
- Methods of taking body measurements
- For different garments
- Importance
- Pattern making techniques
- Flat pattern
- Drafting
- Drapping

UNIT-IV

Fashion Illustrations:- Disposals of fullness

1. Plackets One piece two piece seam irreversible Continuous
2. Neck lines

3. Collie's
4. Sleeve details
5. Factories
6. Frill & gather
7. Pleats & Tucks
8. Darts
9. Patch work
10. Seams & seam finishes

UNIT-V Fundamentals of Embroidery :-

- Techniques, design colour, uses of different combination - threads;
- embroidery stick – Types
- Types of thread, needle, used for different fabrics.
- Study of traditional Embroideries of India.
 - Kasida of Kashmiri
 - Kantha of Bengal
 - Chichenkari of Lucknow
 - Kutch & Kathiawan
 - Kasuti of Karnataka
 - Phulkari of Punjab .
 - Gold & Silver (Zari work)
 - Applique work

PRACTICALS :-TECHNIQUES

(any seven)

1. Preparation of paper pattern for all age groups
 - (A) Creeping age
 - (B) Preschools
 - (C) For Children wear
 - (D) For men's wear
 - (E) For Ladies wear
2. Adoption of the basic block to various clothes & their stitching Saree - blouses; Salwar; Chudidar Kameez; Petticoats; Frock; Night Dress.
3. Making samples of traditional embroideries of India (any five) :
 - (i) Kashida of Kashmir
 - (ii) Kantha of Bengal.
 - (iii) Kasuti of Karnataka
 - (iv) Kutch Kathiawan
 - (v) Phulkari of Punjab
 - (vi) Chikankari of Lucknow
 - (vii) Gold & Silver (Zari work)
4. Free hand sketching of simple objects involving various shapes & forms.
5. Drawing designs for various textile articles by adopting, principles of design.
6. Drawing & colouring a colour wheel.
7. Painting designs with different colour schemes.
8. Reducing & enlarging a design.
9. Creating various textures.

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**GROUP-B
PAPER-1I**

M.M.-50

EXTENSION EDUCATION

UNIT-I

1. Concept of Education
 - (a) Meaning of Extension
 - (b) Origin of Extension
2. Extension Education Process
 - Environment for learning
 - Role of educator
 - Role of the people participants
3. Communication Process

UNIT-II

- 4 Concept of adult / non formal education
 - (a) Meaning
 - (b) Purpose
5. Five Year Plans
 - (a) History of planning in India.
 - (b) Five year plans and their focus.
6. Planning at different levels - National to Grass roots.

UNIT-III

7. Programmes to enhance food production
 - (a) National food production programmes.
8. Poverty alleviation efforts
 - (a) Programmes for poverty alleviation for rural and urban areas.
 - (b) Current programmes for rural and urban poor.

UNIT-IV

9. Programmes for women and children
 - Women as target groups - specific measures for women and children such as DWCRA, ICDS, IMY. Current programmes for women as initiated and implemented by the different ministeries and Departments.
10. Role of NGOs
 - Need for participation of Non-Governmental organisations in developmental efforts. Encouragement given NGO's - Role of CAPART.

UNIT-V

Advertising Media

11. Different media for advertising - print media, Newspapers and periodicals.
12. Broadcast media - Television - Films.
13. Non-media advertising
14. Outdoor advertisement - Hoardings, Posters, Billboards, Bulletin Boards, Electronic signs, Letterbins, Aerial methods.
15. Transportation media (Mobile Vehicles)
16. Exhibition and Trade fair.

PRACTICALS :

1. Visits to Raido / T.V. stations.
2. Script writing for Radio.
3. Visit to Extension Education Unit.
4. Write slogen about Adult-Education.
5. Desigening an Advertisement for any product with relaventslogenatleast Two.

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**B.Sc. (H.Sc.)-III
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**GROUP-C
PAPER-1**

M.M.-50

EARLY CHILDHOOD EDUCATION

FOCUS-

The course focuses on need to provide various early childhood care and educational facilities through different programmes, for early childhood education. Types and present status of ECCE programmes are covered in this course. The recent policies affectionary young children are also included.

The course introduces students to the concept of curriculum for all round development of children. The main emphasis is on various components of curriculum to be included in daily program through medium of play. Method of learning by doing which forms the basis for understanding and knowledge is extended to the first two years of primary school.

OBJECTIVES :-

1. To know importance of early childhood care and significance of intervention programmes for early child development.
2. To understand major theoretical approaches and implication for early child development.
3. To become acquainted with current policies and programs in ECCE.
4. To meaning of curriculum and various components to be included in the daily programmesto promoteall round development of children.
5. To recognize role of play in children's development.
6. To understand goals, principles, factors and approaches used in programme planning.
7. To recognize the advantages of project method and learn to use integrated approach in the development of daily programme.

UNIT-I

Significance and objectives of early childhood care and education.

1. Significance of early childhood years in individuals development.
2. Meaning and need for intervention programmes for better growth and development.
3. Objectives of ECCE.
4. Different types of programs currently offered. Objectives of the program routine and target group covered by each of the following. ECE programme - Balwadi, anganwadi, Nursery school, Kindergarten, Montessori, laboratory nursery school ECCE Program - ICDS and mobile crech. Play group : day care.

UNIT-II

Current Status and Expansion of Scope of ECE to ECCE

18

- Expansion from ECE to ECCE.
- Current Status of ECCE programme.
- Objectives : staff qualifications, teacher-children ratio, indoor and outdoor play space and play facilities, equipment, curriculum and evaluation.
- Admission tests and effects on children.
- Effects of pressures on young children due to formal education.
- Need for ECCE programmes to provide quality care where mothers are at work.
- Historical overview of ECCE.

- Global perspective - views of educationists - Froebel, Mac Millan sister, Dewey and Montessori,
- ECE in India : Overview of pre and post independence period.
 - Contributions of Ravindranath Tagore, Mohandas Gandhi, Gijubhai Bodheka, Tarabai Modak, Anutai Wagh.

Recent Developments : Policies, Institutions and contributions of NGOs 10

- national policy on children.
- National policy on education 1986.
- Adoption of Ram Joshi Committee Report on Child Education by Government of Maharashtra.
- Role of Indian Association of Preschool Education, National Institute of Public Cooperation and Child Development, National Council for Educational Research and Training, SCERT and NGOs.

UNIT-III

- Meaning of curriculum, Foundation of curriculum development.
- Impact of play as means of development and learning.
- Developmental stages of play.
- Types of Play - Solitary play, parallel play, associative play and cooperative play.
- Functions of play - play as a means of assessing children's development.
- Teachers Role in creating environment and Promoting play.
- Classical theories of play - Surplus energy theory, relaxation theory, Pre-exercise & recapitulation theory.

Programme Planning

- Approaches to learning : Incidental and planned learning.
- Principles of programme planning :
 - from known to unknown, simple to complex, concrete to abstract.
- Balance between individual and group activity, indoor and outdoor play, quiet and active plays, guided and free activities.
- Factors influencing programme planning.
- Formal versus non-formal approach in education : advantages and disadvantages.
- Integrated learning approach or project method that is covering various components of curriculum that is focussing on one topic/theme at a time.
- Short and long term planning.

UNIT-IV Languages

- Goals of language teaching.
- Readiness for reading and writing. Meaning of readiness.
- Factor to be considered for readiness : Age, Vision, Hearing, Physical, emotional, social, experiential background, attention span, finer motor coordination, eye hand coordination, reading from left to right and top to bottom.

Mathematics

- Importance of number and mathematics.
- Number as a language and history of its development.
- Abstract nature of number.
- Mathematical readiness.
- Analysis of prerequisite skill for number classification, comparing, seriation, patterning, counting, shape and space, measurement fractions, vocabulary, numeral operations.

- Decimal system of numeration (base 10)
- Number line-position and relevance of zero.
- Operations and relevant rules and properties; subtraction, multiplication and division.
- Two and three dimension shapes, properties, characteristics.
- Basic principles of measurements 0 time/distance, weight, capacity and money.

Environmental studies (2)

- Scope of environmental studies.
- Importance and goals of environmental studies.
- Content : to conclude understanding from biological, physical and social environment. .

UNIT-V Project method (2)

- Introduction
- Meaning and advantages of using project method.
- Planning .
- Resource unit.

Alternative to Home Work (2)

- Disadvantages of learning by role.
- Suitable alternatives such as observations, exploration, experimentation and reporting orally, picture or at. Something related to the concepts covered in class.

Evaluation

- Need for evaluation.
- Formative and summative evaluation.
- Methods of evaluation : Observations.
- Evaluation of daly work, tools for evaluation
- Reporting to parents.

PRACTICALS : (any four) (30)

1. Plan three activities for children : list objectives, analyst tasks to achieve goals, select and organize instructional and learning materials, teacher's role, preparation of evaluation sheets i.e. chick list, rating scale.
2. Prewriting activities.
3. (a) Mathematics
 - (b) Readiness
 - (c) Materials for classifying, comparing, seriations, patterning, counting shapes, fractions, listvocabulary related to mathematical concepts.
 - (d) Material for addition, subtraction, multiplication and divisions.
 - (e) Graphs.
 - (f) Experiences for understanding time distance weight, capacity and money.
4. Plan science experiences.
5. Plan a project based on lessons of first and second standard, plan activities which children can do at home.

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**GROUP-C
PAPER-1I**

M.M. 50

FOUNDATION OF ART AND DESIGN

UNIT-I

Introduction to foundation of art

1. Design, Definition and types:- Structural and Decorative
2. Elements of design :-
 1. Line
 2. Size
 3. Form
 4. Structure
 5. Space
 6. Pattern
 7. Shape
 8. Light - Characteristics and Classification
 9. Study of Colour - classification, dimensions, colour schemes and effect.
3. Principles of design - definition and their characteristics and types :-
 1. Balance
 2. Harmony
 3. Scale
 4. Proportion
 5. Rhythm
 6. Emphasis

UNIT-II

1. Indian, regional, traditional and contemporary arts and their use in :-
 1. Floor decoration
 2. Home decoration
 3. Accessories
2. Appreciation of art
 1. In terms of principles of art and design
 2. In terms of composition and aesthetic appeal

UNIT-III

1. Family's Housing Needs
 1. Protective, economic, affectional, social, standard of living, housing goals, style, function occupation.
2. Factors influencing selection and purchase of site for house building
 1. Legal aspects, location, physical feature, soil conditions, cost, services
3. House planning
 1. Reading house plans.
 2. Grouping of rooms, orientation, circulation, flexibility, Privacy spaciousness, services, aestheriucs, economy, light and ventilation.

3. Planning different rooms : living room, dining room, bedrooms, kitchen, store room, toilet, passage, staircase.
4. Landscape planning - Principles and application.

UNIT-IV

1. Financial Considerations :
 1. Availability of funds for housing
 2. Housing Development finance corporation
 3. Cooperative Housing Society
 4. Life Insurance corporation
 5. Cooperative Banks
 6. Loan from provident fund
 7. Finance corporation of India
2. Disability of owning versus renting.
 1. Housing problems, causes and remedial measures.

UNIT-V

1. Furniture
 1. Styles of furniture - traditional contemporary and modern.
 2. Selection of furniture for comfort, rest and relaxation for work, for storage
 3. Arrangement of furniture for living. Sleeping, dining and multipurpose rooms.
 4. Upholstered furniture materials, techniques and designs.
2. Furnishing fabrics
 1. Types of curtains, draperies, floor coverings rugs and carpets, cushion covers
 2. Selection and use.
 1. Accessories and their role in interiors.

PRACTICALS : (Any Ten)

1. Freehand drawing : Memory drawing and sketching.
2. Scale drawing, solid geometry, orthographic.
3. Preparation of colour wheel and colour schemes.
4. Elements of design laws of field size, proportion, types of shadows.
5. Residential space planning - scale, lines, abbreviations, metric projections, defining space by shades, shadows.
6. Lettering.
7. Use of colour for wall/floor decoration and making accessories.
8. Application of design principles in flower arrangement, styles of flower arrangement, innovation of new styles.
9. Gift wrapping and preparing decorative articles of fibre, fabric, coir, bamboo, clay, metal etc.
10. Drawing houseplans with standard specification.
11. Furniture layout of living, dining. Kitchen and bedroom designs presentation with furniture layout, sectional elevation, views.

12. Development of designs and construction of any five of the under mentioned items -'.
cushions, curtains, carpets, doormats, rugs, table mats.
13. Wall paintings, picture frame design.
14. Graphic designs.

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