

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

T.Y.B.A. Paper No-I

Home Science

Diet Therapy Effect from 2002 to 2003

3 Periods / Week

External 45 Theory

Internal 20 Theory

Practical 2 Periods / Week

External 25 Practical

Internal 10 Practical

Objectives:-

- 1 To provide Knowledge & clinical information about various disease that will be necessary for the diet therapy.
- 2 To understand the role of diet in the management of various diseases and apply the same to patients.
- 3 To provide practical laboratory Training in the preparation of special diet.
- 4 To adapt these diets to patients with various dis-orders

Course content theory

Unit – I

- I. Introduction to diet therapy.
- II. Basic concepts of the diet therapy.
- III. Rote of dietition as a member of health team.
- IV. The rqpeutic adaptation of the normal diet. Soft diet, liquid diet & bland diet
- V. Modes of feeding:-
 - a. Internal
 - b. Tube Feeding
 - c. Composition of tube Feeds
 - d. Preparation of tube feeding
 - e. Paraenteral feeding: Indication for use
- VI. Factors in nutritional case of the patient
- VII. Diet in fevers & infections
 - a. Types of fever
 - b. Physiology fever

- c. Metabolic changes during of fever
- d. Dietary treatment of
 - i. T.B.
 - ii. Typhoid
 - iii. Cholera

Unit- II

1. Dietary Management of Gastro intestinal disorder

- a. Peptic ulcer
- b. Gastritis
- c. Diarrhea & dysentery
- d. Constipation
- e. Ulcerative Collitis
- f. Colic and tropical sprue
- g. Gastro

2. Dietary Management of liver and gall bladder

- a. Jaundice & hepatitis
- b. Cirrhosis of liver
- c. Alcoholic liver disease
- d. Hepatic coma
- e. Cholecystitis & Cholelithiasis

Unit – III

1. Dietary Management of Hypertension & Diabetes Mellitus

I Hypertension

- a. Types of hypertension.
- b. Role of diet in management of various types of hypertension.
- c. Non-pharmacologic treatments like life style changes such as behavior modification & others in the control of hypertension.
- d. Use of salt-alternatives, their composition & long term effects of regular consumption.

2. Diabetes Mellitus

- a. Types of diabetes
- b. Causes of diabetes
- c. Symptoms of diabetes
- d. Diagnosis of diabetes
- e. Complication in diabetes
- f. Hypo glycaemia & hyper glycaemia
- g. Role of diet in the management of various types of diabetes mellitus & diet plan
- h. Use of food exchange list
- i. Non-pharmacological treatment aiding diet therapy in the management of diabetes
- j. Use of sweet alternatives their composition and long term effects regular consumption

Unit – IV Dietary management of Coronary Heart Disorders.

1 Hyper lipidemia

- a) Types, classification
- b) Role of diet in management of Various types of hyperlipidemia
- c) Non – pharmacologic treatments aiding diet therapy, exercise.

2 Atherosclerosis

- a) Types
- b) Role of diet
- c) Diet after by- pass surgery and heart attacks
- d) Prevention control of risk Factors and life style Changes.

Unit- V

1 Dietary Management of renal disease

- (A) Renal function: Normal & deranged
- (B) Glomerulonephrities
- (C) Nephritic Syndrome
- (D) Acute & chronic renal failure
- (E) Dialysis
- (F) Renal Calculation

(G) Reasons symptoms & dietary treatment of gout

2 Dietary management of nervous disturbance

(A) Epilepsy

(B) ketogenic Diet

Unit- VI

Anaemia

- a. Causes, symptoms, types & dietary treatment
- b. Dental Disorders
- c. Lathyrism
- d. Allergy of food-Definition, classification common food allergies test for allergies dietetic treatment
- e. Diet in for burns
- f. Diet in for cancer
- g. Genetic disorder i.e. galactosemia

Practicals:

- 1 First the students should plan day's menu for the patient & calculate nutritive value for the same.
- 2 Next the foods should be categorized as follows.
 - A Foods to be avoided
 - B Foods to be taken in limited amount
 - C Foods to be taken in required amount
- 3 One of the Recipe from the above mentioned plan should be selected & actually prepared by the students.
- 4
 - i. liquid diet & clear liquid diet-----1
 - ii soft or blond diet-----1
- 5 Diet plan for fever -----1
- 6
 - i. Diet plan for ulcer (Acute stage)-----1
 - ii. Diet plan for ulcer convalescent-----1
- 7 Diet plan for Diarrhoea-----1
- 8 Diet plan for Constipation-----1
- 9 Diet plan for ulcerative colitis-----1
- 10 Diet plan for tropical spure-----1

11	Diet plan for Jaundice-----	1
12	Diet plan for Diabetic overweight-----	1
13	Diet plan for diabetic children-----	1
14	Diet plan for severe hyper tension-----	1
15	Diet plan for Low blood pressure-----	1
16	Diet plan for anthrosclerosis-----	1
17	Diet plan for Heart Attack-----	1
18	Diet plan for Nephritis-----	1
19	Diet plan for Gout -----	1
20	Diet plan for Anaemia-----	1
	Total -----	19

References:-

- 1 Antia F.P. 1993
Clinical Dietetics & Nutrition (3rd ed.)
Delhi Oxford Uni. Press
- 2 Shri Laxmi B 1993
Dietetics 1st ed. Wilay Eastern Ltd.
- 3 Kraus & Mahon 1984
Food Nutrition Diet therapy (4th ed.)
London W.B. Saunders Company
- 4 Sue Rodwell Williams 1993.
Nutrition Diet Therapy (7th ed.) London
WB Saunders Company.

Practical Marking Scheme

	Marks
Journal	04
Selection	06
Planning	05
Preparation of Dish	05
Viva	02
Calculation	03
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	25 Total Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY

T.Y.B.A.

Home Science Paper – II

Basic Science (Biology) As Applied To Home Science

Theory- 3 periods / week

Theory –45 mark

Practical –2 period /week

Practical –25 mark

Objective –The theory & practical course is designed to serve as a sound basis for the study of Nutrition , Food science , Biochemistry etc.

Theory Syllabus

Unit – I Human Physiology

1. Animal tissues – classification, structure and Functions .
2. Cell division – Mitosis – phases and importance.
3. Vitamins, Mineral elements –Food sources, importance in human body, deficiency diseases.
4. Digestive system –A brief study of anatomical organization of digestive tract, process of digestion, absorption and assimilation , Accessory digestive glands – structure and functions.
5. Circulatory system – circulatory organs - Heart , Artery Vein.
6. Respiratory system – Structure of respiratory organs , mechanism of respiration transport of O_2 and CO_2 .
7. Excretory system – structure of kidney, ureter, bladder. Formation of urine. Structure and functions of skin.
8. Reproductive system – structure and Functions of reproductive organs of male and female.
9. Nervous system –structure of brain, spinal cord, their Functions . Reflex action.
10. Endocrine glands- Hormones and their Functions.

Unit - II Plant Physiology

- 1 Types of vascular bundles . Anatomy of young root , stem and leaf of Sunflower and Maize
- 2 Importance of Mineral elements in plants.
- 3 Plant growth hormones – their Physiological effects, practical applications.
- 4 Photosynthesis – process types factors affecting photosynthesis.
- 5 Respiration – Process types, factors affecting respiration.
- 6 Growth – stages , Factors affect growth in plant.

- 7 Reproduction – Methods of vegetative, asexual and sexual reproduction
Pollination and fertilization, development of seed and fruit Dispersal of seeds and fruits.

Unit - - III Parasitology, Genetics And Ecology

- 1 Parasitology – Detailed study of parasites growing in human body and diseases caused by these parasites.
- 2 Viral, Bacterial and Fungal diseases of the plants – wheat rust, red rot of sugar cane, citrus canker, bunchy top of banana.
- 3 Elementary knowledge about some diseases like AIDS, Hepatitis, Cancer – causes, symptoms and preventive measures.
- 4 Chromosome and genetic disorder – Types of chromosomes, karyotype. Numerical and structural chromosomal abnormalities . Gene abnormalities .
- 5 Sex determination in man. Inheritance of X – linked recessive gene – colour blindness and haemophilia. Genetic engineering .
- 6 Ecological adaptations in plants and animals, Defence mechanism in plants and animals.

Practicals

- 1 Study of animal tissues. (permanent slides)
- 2 Study of stages of mitosis . (permanent slides)
- 3 Study of human physiological systems, from models, charts – Digestive system, Heart, Respiratory system, Excretory system, Reproductive system (male and female) and Nervous system (brain).–
- 4 Study of histological slides of human physiological system T.S. of stomach, small intestine, liver, pancreas , spinal cord, pituitary gland, adrenal gland, testis ovary, V.S. of skin.
- 5 Study of types of vascular bundles.
- 6 Study of tissue organization-(mounting) T.S. of sunflower stem, leaf.
- 7 Study of tissue organization –(mounting) T.S. of maize root, stem , leaf.
- 8 Plant Physiology –Demonstration of experiment on – Mineral nutrition – water culture experiment.
Photosynthesis – Light screen experiment
Molls experiment
Oxygen is evolved in photosynthesis
Chlorophyll is necessary for photosynthesis
Respiration – Carbon dioxide is evolved in respiration.
Heat generated in respiration .
Anaerobic respiration .
Growth – Indication of growth by arc – indicator.

- 9 Methods of reproduction in plants- Natural method of vegetative Propagation – Budding in yeast, gemma in marchantia, under ground stem sub aerial stems, bulbils etc.
Asexual reproduction – aplanospores in mucor, spore formation in fern.
Sexual reproduction – conjugation in spirogyra and mucor.
- 10 Study of available human endoparasites (specimens, charts, models)
- 11 Study of types chromosomes, karyotype of man by charts.
- 12 Inheritance of diseases due to chromosomal disorder by charts- Downs syndrome, turners syndrome, kline felters syndrome.
- 13 Study of sex determination of man by chart.
- 14 Ecological adaptations in plants – Hydrophytes, mesophytes, xerophytes, Halophytes, epiphytes. (locally available plants)
- 15 Ecological adaptations in animals.
- 16 Defence devices in plants and animals.
- 17 Determination of AIDS by ELISA test.

References - -

- 1 A Text Book of Botany, Popular prakashan, Surat by Dr. J.V. Joshi. and H. Patel.
- 2 Collage Botany vol. I to IV Himalaya publishing house by S. Sundara Rajan.
- 3 Human physiology by Chetterji and J.L. Jain.
- 4 Human physiology by Swaminathan.
- 5 A Text of Botany – A.C. Datta.
- 6 Plant Physiology by Verma.
- 7 Cytology - Rustogi
- 8 Manual of Botany practical by D.K. Apsangikar.

- ૧ પ્રાણીવિદ્યા – અખિલ હિન્દ પ્રકાશન , અમદાવાદ – પ્રો . એન.એમ. શાહ.
- ૨ પ્રાણીવિદ્યા –દૂબળે પંડયા, સોલંકી , છાયા – પોપ્યુલર પબ્લીશ હાઉસ , સુરત.
- ૩ પ્રાણીશાસ્ત્ર – ગુજરાત ગ્રંથનિર્માણ બોર્ડ અમદાવાદ.
- ૪ જનીનવિદ્યા – ડો. બી.એસ. વેદ . –યુનિ. ગ્રંથનિર્માણ બોર્ડ – ગુજરાત રાજ્ય.

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Practical Examination

Home Science Paper – II

Basic Science (Biology) As Applied To Home Science

Time : 2 Hours

Total Marks : 25

Section : 1 (Rotation)

12

For each specimen – 5 mts.

Sp. No.	1	Identify & describe (animal tissue)
	2	" (stages of mitosis)
	3	" (histological slide)
	4	" (type of Vascular bundle)
	5	Experiment to demonstrate plant physiological process.
	6	Method of reproduction in plant.
	7	Human endoparasite.
	8	Genetics
	9	Ecological adaptation in plant
	10	Ecological adaptation in animal .
	11	Defence device in animal.

Section : - II

1	Mounting – preparation of slide & viva (T.S. of root, stem , leaf)	(05)
2	Identify human physiological system – labeled organs From chart, model etc. – Viva.	(04)
3	Journal.	(04)

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Home Science Paper – III

Food Preservation

3 Periods/ week – Theory	External Theory	45	Internal	20
2 Periods/Practical - /week	External Practical	25	Internal	10

Objectives :-

- 1 Understand the scientific Principles underlying food Preservation.
- 2 Develop skills Techniques in food Preservation ensuring safety, conservation of nutrients & palatability
- 3 Understand the basic principles understanding food preservation as an income generating activity.

Theory :-

- 1 Importance, History & scope of food preservation.
- 2 General principles of food spoilage
 - (a) Causes
 - (b) Changes in food ; physical & chemical changes taking place when food spoil.
- 3 Basic Principles of food preservation.
- 4 Various methods of food preservation
- 5 Equipments used in food preservation
- 6 Post – harvest Technology :-
 - (a) Preservation by use of Low Temperature
 - Principles involved in freezing
 - Types of container and storage at low temperature
 - Different methods of freezing various food.
 - changes during freezing- colour, texture, Nutrient.
 - (b) Preservation by use of high temperature
 - History
 - canning & bottling
 - method of canning used
 - spoilage of canned food
 - (c) Preservation by use of drying
 - Principles of drying
 - Various methods of drying
 - different types of dryers
 - Frcecers drying
 - Packing & storage

- (d) Preservation by Preservatives
 - Natural Preservatives
 - Artificial preservatives
- (e) Preservation by Irradiation
 - Sources of ionizing radiations
 - units of measurement
 - application of irradiation on different foods
 - use of radiation in food preservation

7 Preservation of Fruit juices

- pasteurization
- preservation with chemicals
- preservation by addition of sugar
- preservation by freezing
- preservation by drying
- preservation by carbonation
- preservation by filtration
- other methods of preservation

8 Fruit Beverages

- Squashes and cordials
- juices, syrups.
- carbonated beverages
- juice concentrates
- Fruit juice powder

9 Jam

- Definition, material
- Step by Step method of making jam
- Qualities of good jam
- Difficulties of making jam
- Spoilage of jam

10 Jellies

- Definition
- Material
- Step by step method of jelly making
- Theory of jelly formations
- Qualities of good jelly
- Difficulties in jelly making
- Spoilage of jelly

11 Marmalades

- Definition
- Material
- Step by Step method of making marmalade

- Qualities of good marmalade
- Spoilage of marmalade
- 12 Chutneys, Thin Sauces, thick Sauces
- 13 Pickles
 - Pickling process
 - Causes of spoilage
- 14 Milk and Milk product
 - Various methods of preservation of milk
 - Cheese – manufacturing process of cheese
 - Manufacturing process of other milk product –
Examples – Ghee, butter.
- 15 Evaluation of food quality.
 - Subjective and objective methods of measuring quality
of preserved food products
- 16 Food Act and other Food laws in India = (F.P.O.) and Ag. mark
- 17 Food Additives.
 - Various kinds of food additives
 - Advantages & disadvantages of food additives
- 18 Food Poisoning
 - Causes
 - Prevention

Practicals –

- | | | |
|----|--|-----|
| 1 | Sterilization | (1) |
| 2 | Drying Vegetables & Cereal Dehydration by Solar energy | (3) |
| 3 | Freezing Vegetable, Fruit, Cooked food | (3) |
| 4 | Pickles | (2) |
| 5 | Jam | (2) |
| 6 | Jellies | (2) |
| 7 | Marmalades | (2) |
| 8 | Fresh fruit sauces | (2) |
| 9 | Preservation of fruit juice by | |
| | (a) Pasteurization | (1) |
| | (b) Chemical | (1) |
| | (c) Sugar | (1) |
| | (d) by solar energy | (1) |
| 10 | Preservation of mango pulp | (1) |
| 11 | Tomato ketchup | (1) |
| 12 | Preserved chutneys | (2) |

Assignment

- 1 Visit to Food preservation unit or food industries or dairy farm and prepare a report

References :-

- 1 Frazier W.C.
Food Microbiology Mc. Graw Hill Book Co. 1978
- 2 Girdharilal G.S. siddappa
" Preservation of Fruits & Vegetables"
- 3 Food Preservation - by (CFTRI Hyderabad)
- 4 The Brochure of Home seed food preparation services - by (CFTRI Hyderabad)
- 5 Advance Food Science Roytroype wood Orient longman (Bombay) 1973
- 6 Mudambi Sumodir & M.V. Rajgopal,
" Fundamentals of food & Nutrition wiley Eastern Ltd. 1983.
- 7 Modern food preservation MC Williams and pain Surjeet publications
- 8 Home scale food preparation by - (FTRI Hyderabad)

Marking Scheme for Practical

Q. 1	To write full procedure of the Following Canning / bottling / Drying / freezing / sterilization	4 mark
Q.2	To prepare any one of the Following squash/ Synthetic syrup/ Cordial/ Chutney	4 mark
Q.3	To prepare any one of the following Jam/ Jelly/Marmalade/pickle/ Tomato ketchup/ preservation of mango pulp	10 mark
Q.4	Viva	3 mark
	Journal	4 mark
	Total	25 mark

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T.Y.B.A.

Home Science Paper – IV

Home Management

Theory- 3 periods / week
Practical –2 period /week

Theory –45 mark
Practical –25 mark

Objectives :-

- 1 To learn to apply management process to money income
- 2 To evaluate the sources of saving and investment.
- 3 To have a knowledge regarding wise use of credit.
- 4 To develop enter prenural skills to begin a small enterprise.

Contents Theory

I Management process applied to use of money .

- 1 Money as a non – human resources.
- 2 Sources of income
Money income , Real income, Psychic income , Total income.
- 3 Steps involved in management process applied to use of money.
Planning , Controlling and Evaluation.
- 4 Budget
Importance, steps involved in making budget, Advantages.

II Saving and Investment.

- 1 Purpose and meaning of saving and investment.
- 2 Types of Saving.
 - A Compulsory Saving.
 - a Provident Fund
 - b Pension Plan
 - c Gratuity
 - B Voluntary Saving.
 - a Bank.
Current account, Saving account, Fixed deposit account, Recurring deposit account.
 - b Post Office
Saving account, Recurring account Time deposit account, National saving certificate, National development bond, Social Security Certificate , Indira Vikas Patra, National

Saving Annuity Certificate , 15- years Public Provident Fund,
Kisan Vikas Patra, Gift Coupons, Postal Life Insurance
Scheme.

c. Insurance

C.1 Types of insurance

- General Insurance
- Life Insurance

C.2 Types of life insurance Policy

- Whole life
- Limited payment
- Joint life
- Double Endowment.
- Triple Benefit
- Money Back Policy

C.3 Schemes given by Life Insurance Company.

1. Jeevan Sukanya
 - Jeevan Kishore
 - Jeevan Mitra
 - Jeevan Sathi
 - Aasha Deep
 - Jeevan Chhaya

d Shares

Definition, Types, Advantage, Disadvantages.

e. Debentures :

Characteristics, Type, Advantages

f. Unit Trust of India.

Schemes given by Unit Trust

- Ulip
- Grand master
- Retirement Benefit Plan
- Rajlaxmi Unit Plan
- Childrens college and career Fund.
- Childrens Gift Growth Fund.

Investment

Types, Investment in Family members, Jewellery, Interest bearing and Rent bearing.

III. Credit.

- 1 Family's use of credit
- 2 Basis of credit.
- 3 Guidelines for the use of credit.
- 4 Legal credit Instruments.
 - a. Promissory Note
 - b. Collateral Note

- c. Instalment Sales contract.
- d. Real estate.

5 Types of Credit

- a. Investment credit
- b. Commercial credit.
- c. Consumers credit.

7 Sources of consumers credit.

- a Life Insurance Policy
- b Commercial Bank credit
- c Industrial Bank credit
- d Credit Union
- e Store credit.

IV. Consumer Economics

1. Definition of consumer.
2. Consumer and his wants.
Nature, Origin. Characteristics and Factors effecting of human wants.

- Necessary wants
- Comfort wants
- Luxury wants

3. Malpractices prevelant in the market and Producers aids to consumers

- a Advertisement
Objectives, Characteristics, Advertisement misleading to consumers.
- b. Labels.
(a) Labels misleading to consumers
 - incompelete information
 - wrong information
 - weight on labels
 (b) Characteristics of good labels on
 - Packed Food items
 - Fabrics
 - Medicines
 - Cosmetics
- c. Packaging
 - Meaning, Objectives,Characteristics Packaging material, Advantages and disadvantages.
- d. Brands and Grading.
- e. Weights and measures
Importance, Laws regarding weights and measures.
- f. Adulteration

Causes, Consequences and common methods of detection.

4. Consumer Protection
 - A. Rights and responsibilities of consumers.
 - B. Government and Non- government institutions for consumer protection.
 - C. Government laws for consumer Protection.
 - D. Standardisation
 - importance, Definition of standard Grading on basis of standards Food standardization.
 - Quality Assurance Scales.
 - 1. Indian standard Institute
 - Method to take licence of ISI
 - Goods which get licence of ISI
 - Advantages of ISI
 - to producers
 - to consumers
 - to wholesale dealers
 - to exporters.
 - Definition and sign of ISI.
 - Offices of ISI
 - Publishing of ISI.
 - 2. A. G. Mark.
 - Problems to standardize useful goods
 - E. Consumer Co-operatives.
 - F. Consumer Association and Research Centre.

V. Introduction to Enter Preneurship Development

- 1 Basic Concepts related to Women enterpreneurship development, ship, income generating activity/ self – employment, small scale industry.
- 2 Market and Marketing.
 - Types, Function, Channels of distribution Retail outlets.
 - Marketing : Meaning, Marketing Mix, P's of marketing.
- 3 Small scale industries
 - SSI and Woman Entrepreneurs
 - Role and Function of SSI
- 4 Behavioural and managerial competencies.
 - Risk taking, initiative, confidence, self development ,
 - Problem solving and decision making influencing strategy and systematic Planning innovation, creativity , efficiency and Quality conciousness.
- 5 Identification of Business Opportunities
 - Role of feasibility, study and market survey.

- 6 Role of public and Private institution and women entrepreneurs.
- (a) Banks, Government, ILO, Chamber of commerce, DIC, SFC, STC, export promotion council etc.
- (b) Intraining : Entrepreneurship development programmes by Govt. and Private Institutions. ICECD

Content : Practicals :

- I. Banking.
1. Opening a account.
 - I Current account
 - II Saving account
 - III Fixed deposit account
 2. Depositing money
 3. With drawing money (2 Practicals)
 - By withdrawal slip
 - By Cheque.
- II Fabric Painting.
1. Rules of fabric painting. (2 practical)
 2. Various lechniques of shading (1 practical)
 3. Painting on Saree or choonaris or bed – spread or a wall piece (2 practical)
 - 4 Non – Conventional printing.
 - spray printing
 - Vegetable printing
 - Finger – tips printing
 - Leaf printing (2 practical)
 4. Non Conventional printing on Saree, or choonaries or bed-
 5. Spread or a wall piece. (2 Practical)
- III Oil Painting
1. Tiles painting (2 Practical)
 2. Velvet painting (2 Practical)
 3. Glass painting (2 Practical)
 4. Pottery painting (2 Practical)
- IV Floor Decoration For Festivals
1. Flowers and leaves
 2. Karothi
 3. Alpana (3 Practical)
 4. Kolam

- 5 Pulses and Grains
6. Saw Dust
7. Salt.

Total Practical 21

References :

1. Bigelow H.F. Family Finance, J.B. Lippin Cott.
2. Deweit K.K, and Varma, Elementary Economics Theory, c. Chand & Company.
3. Gross I.H.and Crandall E.W. Management for Modern Families.
4. Gordon L.S., Economics of Consumers American Book Company, 1961.
5. Nickell and Dorsey Management in family Living John Wiley and Sons 1978
6. Gupta B.D., Consumption Pattern in India, Tata McGraw Hill 1973.
7. Calvin A kent. Encyclopaedia of Entrepreneurship, Englewood Clife N.Y. Prentice Hall.
8. Giles G.B. Marketing Management Londen : Macdonald and Evans Ltd.1964

Marking Scheme For Practical

1.	Journal	4 Mark
2	Class work	8 Mark
3.	Theory of banking and Form Filling.	3 Mark
4.	Falric Painting or Non Conventional	4 Mark
5.	Floor Decoration	3 Mark
6.	Oil painting. on Tiles/ Glass/ Velvet /Pollery	3 Mark
	Total	25 Mark

VEER NARMAD SOUTH GUJARAT UNIVERSITY

T.Y.B.A.

Home Science Paper – V

Advance Clothing, Textiles and Laundry

Theory- 3 periods / week

External Theory –45

Internal –25

Practical –2 period /week

External Practical –25

Internal –20

Objectives :-

1. To make the students aware the correct methods of laundering
2. To make the Students aware of different types of rugs and carpets available in the market.
3. To make the student aware of Various methods of fabric Construction.

Course Content

Unit - I

1. History, manufacturing process and Properties of following fibers.
 - (A) Natural Fibers
 1. Cellulosic fiber – Cotton, Linen
 2. Protein fiber – Silk, wool
 3. Mineral fiber – asbestos, metal
 - (B) Synthetic fiber -
 - Rayon
 - Nylon
 - Polyester
 - Acrylic
 - Glass fiber
 2. a) Spinning Process -
 - I Mechanical
 - ii ChemicalYarn number and Yarn twist
 - b) Types of Yarns
 - Simple, Complex, Textured, Stretch yarns
- Methods of Fabric Construction
1. Weaving -
Types of Weaves

Basic Weaves – Plain weave,
Basket weave,
Rib weave,
Twill - event will
- unevent will
- Herringbone

Satin – 1) Satin 2) Sateen

Novelty - Bird's eyeweave, Leno , pile-

2. Knitted Fabrics History & Their Types
 3. Knotted and braiding
 4. Felts & bonded fiber, fabrics
 5. Fiber blends
3. Identification of textile fibers
 - Laboratory methods
 - Household methods
 4. Finishes -
 - Objectives
 - Routine – Basic finishes
 5. A brief Study of dyes
Dyeing methods
 6. Printing methods -
History –
Types – block , Screen, Roller, Stencil Printing.

Unit - II

- 1 Principles of laundering methods of Laundering – cotton – Silk, Pure wool, lace, Synthetics fabrics
- 2 Laundry Soaps and their use manufacturing, Process, of Soap, their Properties & types
- 3 Detergent – manufacturing process, & properties of detergent
- 4 Stain removal
- 5 A study of equipment used in laundry work , construction & Function, care and cleaning of equipment.
- 6 Rugs and Carpets – selection , Steps in carpet Production, tufting Process, weaving process, Planning for carpets – size of the room, estimating cost, Cleaning and care of Carpets.

Practicals

1. Identification of textile fiber -
 - (a) Laboratory methods –

Microscopic
Burning
Solubility test

b. Household methods

- (b) Birds eye weave Household methods
- 2. Thread Count only Demonstration identification of twist
- 3. Weaves - (1) Plain weave (2) Basket (3) Twill Weave
 - A) Even twill B) Uneven twill C) Herring bone
 - A. 4. Satin 5. Sateen 6. Novelty
 - B. Leno weave
 - C. Pile weave
- 4. Construction of the following garments
 - (1) Sari Petticoat
 - (2) Punjabi dress
 - (3) Sari blouse
 - (4) Skirt blouse
 - (5) Night gown
- 5. Knitted Sweater
- 6. Tatting
- 7. Fabric painting one Sample on any one garment .

T.Y.B.A.
Home Science Paper – V
Advance Clothing, Textiles and Laundry

Marking Scheme

Q.1	Identification of fiber	03 mark
Q.2	Weaves on paper	03 mark
Q.3	Drafting or Sticking any one garment	06 mark
Q.4	Knitting or tatting or Fabric painting	03 mark
	Journal	04 mark
	Class work	06 mark
	Total	25 mark

Reference

1. Dantyagi – s –
"Fundamentals of Textile and their Care"
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2. Deulkar D –
"Hose hold textiles and laundry work"
Atmaram & Sons – N.D. 1967
3. Wingate I.B. –
"Textile fabrics and their selection"
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4. Hall A.J. –
"A hand book of textile finishing"
The National trede press Ltd.
5. Parikh, J.G.
Man made fiber – cellouose & synthetic silk mills research association –
Bombay
6. Parikh, J.G.
Manmade fibers for developing Countries
Sasmira, Bombay – 1980
7. Moncrieft, R.W.
Man made fibers –
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9. Towers E.L.
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10. Raul Jewel
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11. Kammer, Jutia
Print your own fabric B.T. Bestford ltd. London
12. Marjory L. Joseph
Introductory Textile Science
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T.Y.B.A.

Home Science Paper – VI

Communication & Extension Teaching

Theory- 3 periods / week

External Theory –45

Internal –20

Practical –2 period /week

External Practical –25

Internal –10

Objectives :-

- (1) To help students to understand Various Concepts in Pertaining to communication.
- (2) To help students to understand the different types of communication media for relative effectivity.
- (3) Understand the Principal and procedure of effective extension teaching.
- (4) To enable the students to become aware of the Social Welfare Programmes in India.
- (5) Understand the principles and procedures in Extension programme planning.

Course Content Part - I

- (1) Concept and functions of communication
 - 1.1 Elements of communication
 - 1.2 Definition and Meaning of communication.
 - 1.3 Need and importance of communication.
 - 1.4 Functions of communication.
 - A) Information Function
 - B) Command or Instructive Functions.
 - C) Influence or persuasive Functions.
 - D) Interagative Functions.
- (2) Communication Channels
 - 2.1 Definition of Channels.
 - 2.2 Clasification of Channel
 - 2.3 Dimension of Channel
 - 2.4 Nature of Channel
 - 2.5 Selection of communication channels

2.6 Model of communication

- 1) Aristotle's model
- 2) Leageln's model.
- 3) Westiey & Machean model etc.

2.7 Scope of Communication.

3. Communication & Extension Approaches

3.1 Individual Approaches.

3.2 Group Approaches

3.3 Mass Approach

Part – II

Ch.1 Extension Teaching

1.1 Meaning of extension teaching.

1.2 Difference between formal and extension teaching

1.3 Factor related to effective teaching.

1.4 Principles of extension teaching.

Ch.2 Extension teaching methods.

2.1 Classification of extension teaching method

2.2 Selection, use advantages and limitations of following extension teaching methods

(1) Farm and Home visit

(2) Farmer's call.

(3) Group contact and Group discussion.

(4) General meetings.

(5) Working through Voluntary and local leaders.

(6) Campaign

(7) Exhibition

(8) Field trip

(9) Workshop's

(10) Play's

(11) Folk Drama

Ch.3 Extension Programme Planning.

3.1 Meaning of Extension programme planning

3.2 Steps in Extension programme planning.

Ch.4 Evaluation of Extension Teaching.

4.1 Meaning and Importance of evaluation in extension

4.2 Evaluation of Selected extension teaching method & learning outcome.

Ch.5 Survey Method.

- (1) Individual and Personal Survey
- (2) Family Survey.
- (3) National Survey.

Ch.6 Home Science Extension Worker :

- 6.1 Role of Home Sci. Extension worker
- 6.2 Contribution of Home Science Extension worker in programme for Better family living.
- 6.3 Job or Activities of Home Science Extension worker.
- 6.4 Qualities of Home Science Extension worker
- 6.5 Training of Home Science Extension worker.

Practical

Total mark 25

- (1) Visits to near by institutions for women, Children and youth to observe their activities (ICDS, TRYSEM, Nehru Yuvak Kendra, IRDP Lions club, Youth club, Mahila mandal etc.)
- (2) Visit to Voluntary agencies near by to Study their Services.
- (3) Conducting demonstration –
- (4) Impart extension talk with the use of Various audio – Visual aids.
- (5) Handling audio equipment Tape recorder and Projectors .
(Slide Projector , overhead projector etc.)
- (6) Maintaining a record of the Practical experiences.

References :

- (1) S.Y. Suppe , An Introduction to Extension Education.
- (2) Dhama O.P. & Bhatnagar O.P. Education and communication for Development second Edi.
- (3) Chakravarty : Audio – Visual Aids in Home Science – Oxford Book Company.
- (4) Hass and Packer : Preparation and Use of Audio – Visual – Prentice Hall of India Ltd.
- (5) Arvinda Chardra , Anupama Shah , Fundamentals of Teaching Home Science Sterling Publishers Pvt. Ltd.
- (6) S.K. Waghmare , Teaching extension education Prashant Publishers 1980
- (7) Dr. Anuradha Methu , Extension Teaching Learning the effective way. Printed by : Sign & Symbol. Baroda.

Marking Scheme For Practical.

1	Journal	4 mark
2	Class work	6 mark
3	Teaching aid	3 mark
4	Handling A.V. equipment	3 mark
5	Theory (Demonstration or Talk	5 mark
6	Viva	4 mark
	Total	25 mark