

Bhagat Phool Singh Mahila Vishwavidyalaya Khanpur Kalan
Scheme of Examination for
Four Year UG Programme
Bachelor of Home Science (Interdisciplinary scheme)
With Effect from the Academic Session 2024-25

First Semester												
Sr. No.	Course Code	Course Type	Course Title	Workload			Credits	Division of Marks				
				L	P	T		Internal Marks		External Marks		Total Marks
								T	P	T	P	
1	B-BFN-101	DSC-A	Basic Food & Nutrition Science	3	2	0	4	20	10	50	20	100
2	B-FHD-102	DSC-B	Fundamentals of Human development	3	2	0	4	20	10	50	20	100
3	B-ITX-103	DSC-C	Introduction to Textiles	3	2	0	4	20	10	50	20	100
4	B-ICH-104	MIC	Introductory Chemistry	2	0	0	2	15	0	35	0	50
5	B-IHS-105	MDC	Introductory Home Science-I	3	0	0	3	25	0	50	0	75
6		AEC	To be Selected from Common Pool of AEC				2					50
7		SEC	To be Selected from Common Pool of SEC				3					75
8		VAC	To be Selected from Common Pool of VAC				2					50
Total Credits							24	Total Marks				600

Second Semester												
Sr. No.	Course Code	Course Type	Course Title	Workload			Credits	Division of Marks				
				L	P	T		Internal Marks		External Marks		Total Marks
								T	P	T	P	
1	B-ID-201	DSC-A	Interior Decoration	3	2	0	4	20	10	50	20	100
2	B-EEC-202	DSC-B	Extension Education & Communication	3	2	0	4	20	10	50	20	100
3	B-FCC-203	DSC-C	Fundamentals of Clothing Construction	3	2	0	4	20	10	50	20	100
4	B-IP-204	MIC	Introduction to Psychology	2	0	0	2	15	0	35	0	50
5	B-HIS-205	MDC	Introductory Home Science-II	3	0	0	3	25	0	50	0	75
6		AEC	To be Selected from Common Pool of AEC				2					50
7		SEC	To be Selected from Common Pool of SEC				3					75
8		VAC	To be Selected from Common Pool of VAC				2					50
Total Credits							24	Total Marks				600

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Third Semester												
Sr. No.	Course Code	Course Type	Course Title	Workload			Credits	Division of Marks				Total Marks
				L	P	T		Internal Marks		External Marks		
								T	P	T	P	
1	B-CN-301	DSC-A	Community Nutrition	3	2	0	4	20	10	50	20	100
2	B-AD-302	DSC-B	Adulthood Development	3	2	0	4	20	10	50	20	100
3	B-FRM-303	DSC-C	Family Resource Management	3	2	0	4	20	10	50	20	100
4	B-CE-304	MIC	Consumer Education	3	2	0	4	20	10	50	20	100
5	B-IHS-305	MDC	Introductory Home science-III	3	0	0	3	25	0	50	0	75
6		AEC	To be Selected from Common Pool of AEC				2					50
7		SEC	To be Selected from Common Pool of SEC				3					75
Total Credits							24	Total Marks				600

Forth Semester												
Sr. No.	Course Code	Course Type	Course Title	Workload			Credits	Division of Marks				Total Marks
				L	P	T		Internal Marks		External Marks		
								T	P	T	P	
1	B-CD-401	DSC-A	Community Development	3	2	0	4	20	10	50	20	100
2	B-AA-402	DSC-B	Adulthood & Ageing	3	2	0	4	20	10	50	20	100
3	B-TT-403	DSC-C	Traditional Textiles	3	2	0	4	20	10	50	20	100
4	B-FS-404	MIC(VOC)	Food Science	2	4	0	4	15	15	35	35	100
5		AEC	To be Selected from Common Pool of AEC				2					50
6		VAC	To be Selected from Common Pool of VAC				2					50
Total Credits							20	Total Marks				500

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Fifth Semester												
Sr. No.	Course Code	Course Type	Course Title	Workload			Credits	Division of Marks				
				L	P	T		Internal Marks		External Marks		Total Marks
								T	P	T	P	
1	B-NN-501	DSC-A	Normal Nutrition	3	2	0	4	20	10	50	20	100
2	B-ECE-502	DSC-B	Early Childhood Education	3	2	0	4	20	10	50	20	100
3	B-DPF-503	DSC-C	Dyeing, Printing and Finishing Techniques	3	2	0	4	20	10	50	20	100
4	B-FM-504	MIC(VOC)	Food Microbiology	2	4	0	4	15	15	35	35	100
5		Internship	Internship				4					100
Total Credits							20	Total Marks				500

Sixth Semester												
Sr. No.	Course Code	Course Type	Course Title	Workload			Credits	Division of Marks				
				L	P	T		Internal Marks		External Marks		Total Marks
								T	P	T	P	
1	B-THN-601	DSC-A	Therapeutic Nutrition	3	2	0	4	20	10	50	20	100
2	B-HHP-602	DSC-B	Hygiene & Human Physiology	3	2	0	4	20	10	50	20	100
3	B-HSM-603	DSC-C	Housing & Space Management	3	2	0	4	20	10	50	20	100
4	B-NBC-604	MIC	Nutritional Biochemistry	3	2	0	4	20	10	50	20	100
5	B-ETT-605	MIC(VOC)	Entrepreneurial Trends & Techniques	2	4	0	4	15	15	35	35	100
Total Credits							20	Total Marks				500

Seventh Semester(with Specialization Textile and Apparel designing)												
Sr. No.	Course Code	Course Type	Course Title	Workload			Credits	Division of Marks				
				L	P	T		Internal Marks		External Marks		Total Marks
								T	P	T	P	
1	B-TCH-701	DSC-H1	Textile Chemistry	3	2	0	4	20	10	50	20	100
2	B-ATD-702	DSC-H2	Advanced Textile Designing	3	2	0	4	20	10	50	20	100
3	B-APM-703	DSC-H3	Advanced Pattern Making & Draping	3	2	0	4	20	10	50	20	100
4	B-AQA-704	DSC-H4	Apparel Quality Analyses	4	0	0	4	25	0	75	0	100
5	B-HT-705	DSC-H5	Home Textiles	3	2	0	4	20	10	50	20	100
6	B-TDI-706	MIC	Textile Design & Illustration	3	2	0	4	20	10	50	20	100
Total Credits							24	Total Marks				600

Eighth Semester(4 year UG Hon.) (with Specialization Textile and Apparel designing)												
Sr. No.	Course Code	Course Type	Course Title	Workload			Credits	Division of Marks				
				L	P	T		Internal Marks		External Marks		Total Marks
								T	P	T	P	
1	B-TQC-801	DSC-H6	Textile Testing and Quality Control	3	2	0	4	20	10	50	20	100
2	B-TAA-802	DSC-H7	Textile Auxiliaries and their Application	3	2	0	4	20	10	50	20	100
3	B-SAC-803	DSC-H8	Socio-Psychological Aspects of Clothing	4	0	0	4	25	0	75		100
4	B-FCA-804	DSC-H9	Fabric Construction and woven Fabric Analyses	3	2	0	4	20	10	50	20	100
5	B-TII-805	DSC-H10	Textile Industry in India	4	0	0	4	30	0	70	0	100
6	B-EMG-806	MIC	Entrepreneurship Management	4	0	0	4	30	0	70	0	100
Total Credits							24	Total Marks				600

Eighth Semester(4 year UG Hon. With Research) (with Specialization Textile and Apparel designing)													
Sr. No.	Course Code	Course Type	Course Title	Workload			Credits	Division of Marks					
				L	P	T		Internal Marks		External Marks		Total Marks	
								T	P	T	P		
1	B-TQC-801	DSC-H6	Textile Testing and Quality Control	3	2	0	4	20	10	50	20	100	
2	B-FCA-804	DSC-H9	Fabric Construction and woven Fabric Analyses	3	2	0	4	20	10	50	20	100	
3	B-RMS-807	MIC	Research Methodology and Statistics	4	0	0	4	30	0	70	0	100	
4			Dissertation				12					300	
Total Credits							24	Total Marks				600	

7th Semester (With Specialization in Food and Nutrition)													
Sr. No.	Course Code	Course Type	Course Title	Workload			Credits	Division of Marks					
				L	P	T		Internal Marks		External Marks		Total Marks	
								T	P	T	P		
1	B-DT-701	DSC-H1	Diet Therapy	3	2	0	4	20	10	50	20	100	
2	B-AFS-702	DSC-H2	Advance Food Science	3	2	0	4	20	10	50	20	100	
3	B-NHP-703	DSC-H3	Nutrition Health and Physical Fitness	3	2	0	4	20	10	50	20	100	
4	B-ABC-704	DSC-H4	Advance Nutritional Biochemistry	3	2	0	4	20	10	50	20	100	
5	B-HP-705	DSC-H5	Human Physiology	3	2	0	4	20	10	50	20	100	
6	B-AN-706	MIC	Ayurvedic Nutrition	3	2	0	4	20	10	50	20	100	
Total Credits							24	Total Marks				600	

8 th Semester (4 year UG Hon.) (With Specialization in Food and Nutrition)												
Sr. No.	Course Code	Course Type	Course Title	Workload			Credits	Division of Marks				Total Marks
				L	P	T		Internal Marks		External Marks		
								T	P	T	P	
1	B-IFA-801	DSC-H6	Introduction to Food Administration	3	2	0	4	20	10	50	20	100
2	B-AFM-802	DSC-H7	Advance Food Microbiology	3	2	0	4	20	10	50	20	100
3	B-FPD-803	DSC-H8	Food Product Development	3	2	0	4	20	10	50	20	100
4	B-HN-804	DSC-H9	Human Nutrition	3	2	0	4	20	10	50	20	100
5	B-PHN-805	DSC-H10	Public Health Nutrition	3	2	0	4	20	10	50	20	100
6	B-EMG-806	MIC	Entrepreneurship Management	4	0	0	4	30		70		100
Total Credits							24	Total Marks				600

8 th Semester (4 year UG Honours with Research) With Specialization in Food and Nutrition												
Sr. No.	Course Code	Course Type	Course Title	Workload			Credits	Division of Marks				Total Marks
				L	P	T		Internal Marks		External Marks		
								T	P	T	P	
1	B-PHN-805	DSC-H10	Public Health Nutrition	3	2	0	4	20	10	50	20	100
2	B-HN-804	DSC-H3	Human Nutrition	3	2	0	4	20	10	50	20	100
3	B-RMS-807	MIC	Research Methodology and Statistics	4	0	0	4	30	0	70	0	100
4			Dissertation				12					300
Total Credits							24	Total Marks				600

Basic Food and Nutrition Science
B-BFN-101

Total marks: 70
Internal marks: 20
External marks: 50

Total Credits: 3
Time: 3 Hrs.

Course outcomes: A successful completion of this course, the students will be able to:
CO1: Summarize and critically discuss and understand both fundamental and applied aspects of Food Science and nutrition. To Gain knowledge about different cooking methods.
CO2: Able to explain and select the food among different food groups in maintaining good health.
CO3: To gain the knowledge about the sources and effect of deficiency in the body of different minerals.
CO4: To gain the knowledge about the vitamins and their deficiency diseases.

UNIT I

Basic terms used in food and nutrition and Methods: Definition and Terms used in Food and Nutrition: Health, Food, concept of Nutrition, BMI, BMR, Balanced Diet, Food groups, Functions of Food, Food guide pyramid, Different methods of cooking their merits and demerits, Importance of cooking food and Effect of cooking on different nutrients, Methods of enhancing nutritive value of foods: germination, sprouting and supplementation.

UNIT II

Carbohydrates, Protein and Lipid: Carbohydrates: Classification, functions, sources and daily requirement, effects of deficiency and excess, Protein: Classification, functions, sources and RDA, effects of deficiency and excess, Lipid: Classification, functions, sources and RDA, Effects of deficiency and excess.

UNIT III

Vitamins and Fibre: Classification, functions, sources, Clinical signs and symptoms of deficiency, RDA of: Fat Soluble Vitamins - A, D, E and K, Water Soluble Vitamins-B Complex Vitamins- Thiamine, Riboflavin, Niacin, Pyridoxine, Folic acid, Cyanocobalamin and Vitamin, Fibre -Types, functions, sources, RDA and health benefits, effects of deficiency and excess.

UNIT IV

Minerals and Water: Definition and Classification of minerals: Macro minerals: Functions, Sources, RDA, Effects of deficiency and excess of Calcium, Phosphorus, Magnesium, Sodium and Potassium, Micro Minerals: Functions, sources and RDA, Effects of deficiency and excess of Iron, Iodine Fluorine & Zinc Water: Physiological functions and sources of water for the human body, effects of excess and low intake of water in the human body.

Recommended Readings:

1. Maney S (2008). Foods, Facts and Principles, 3rd Edition Published by Wiley Eastern, New Delhi.
2. Usha Chandrasekhar (2002) Food Science and Application in Indian Cookery, Phoenix Publishing House P. Ltd., New Delhi.
3. Raina U, Kashyap S, Narula V, Thomas S Suvira, VirS, Chopra S (2010) Basic Food Preparation: A Complete Manual, 4th Edition, Orient Black Swan Ltd, Mumbai.
4. Srilakshmi, B. (2017) Nutrition Science, New Age International (P) Ltd., New Delhi,
5. Mahtab, S. Bamji, Kamala Krishnasamy, Brahmam G.N.V (2012) Text Book of Human Nutrition, Third Edition, Oxford and IBH Publishing Co. P. Ltd., New Delhi.
6. Sunetra Roday (2017). Food Science and Nutrition, Oxford University Press, New Delhi.
7. Longvah, T, Ananthan, R., Bhaskarachary, K., Venkaiah, K (2017). Indian Food Composition
8. Tables (IFCT), Indian Council of Medical Research, National Institute of Nutrition, Hyderabad

Instructions for External Theory Paper Setter/Examiner:

The examiner will set 9 questions asking two questions from each unit and one objective type questions covering the entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions carry equal marks.

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Practical

Total marks: 30

Internal marks: 10

External marks: 20

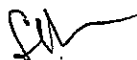
Total Credits: 1

Time: 3 Hrs.

Use and Care of Kitchen Equipment. Standard weights and measures. Household measures for raw and cooked food. Sensory and textural evaluation of food items according to source of nutrient. Preparation of recipes rich in: Vitamin A, B, C, D, carbohydrate, protein, fat, fiber, Iron and calcium

Instructions for External Practical Paper Setter/Examiner:

The examiner will set two questions at the time of practical examination by taking course learning outcomes into consideration. Equal weightage will be given to both the questions. The evaluation will be done on the bases of practical record, viva-voce, write up and execution of the practical work done in the class and at the time of the examination.



Fundamentals of Human Development
B-FHD-102

Total marks: 70
Internal marks: 20
External marks: 50

Total Credits: 3
Time: 3 Hrs.

Course Outcomes: A successful completion of this course, the students will be able to:

CO1: Explain the need and importance of studying human growth and development across lifespan.

CO2: Identify the biological and environmental factors affecting human development.

CO3: Describe the characteristics, needs and developmental tasks of different stages in human life.

CO4: Learn about the classic human development theories

Unit-I

Prenatal Development and Birth Process, Prenatal Development – stages, factors affecting, diagnostic techniques Birth Process, Stages of birth, Types of delivery, Immediate care of newborn, adjustments made by newborn, Types of feeding - natural and artificial, weaning, Infant and mother mortality and morbidity, Immunization schedule, Factors affecting development.

UNIT-II

Characteristics and developmental tasks of; Physical, Cognitive, Language, social, emotional development of Neonate (birth-1 month), Infancy (1 month-2 years), Early childhood (2-6 years) and Middle childhood (6-11 years)

UNIT-III

Characteristics and developmental tasks of individuals in relation to physical, cognitive, language, social and emotional development in adolescence (12-18 years). Play and its importance and characteristics. Theories of play- surplus energy theory, recreational theory, stages and types of play, role of play in overall development of children.

UNIT-IV

Overview of theories of human development: Freud's theory of psychosexual development, Erikson's theory of psychosocial development and Piaget's theory of cognitive development.

Recommended Readings:

1. Berk, L.E. (2005). *Child development* (5th ed.). New Delhi: Prentice Hall.
2. Bhangra, R., & Kapadia, S. (in press). Human Development Research in India: A historical overview. In G. Misra (Ed.), *Hundred years of Psychology in India*. New Delhi: Springer.
3. Feldman, R., & Babu, N. (2009). *Discovering the lifespan*. New Delhi: Pearson
4. Kakar, S. (1998). *The inner world. Psychoanalytic study of childhood and society in India*. Delhi: Oxford University Press.
5. Kapadia, S. (2011). Psychology and human development in India. Country paper. *International Society for the Study of Behavioural Development Bulletin Number 2, Serial No. 60, pp. 37-42*.
6. Keenan, T., Evans, S., & Crowley, K. (2016). *An introduction to child development*. Sage.
7. Lightfoot, C., Cole, M., & Cole, S. (2012). *The development of children* (7th ed.). New York: Worth Publishers.

Instructions for External Theory Paper Setter/Examiner:

The examiner will set 9 questions asking two questions from each unit and one objective type questions covering the entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions carry equal mark

Practical

Total marks: 30
Internal marks: 10
External marks: 20

Total Credits: 1
Time: 3 Hrs.

Preparation of an album on developmental milestones of children 2-12 yrs. Plotting growth monitoring chart and interpretation. Observation of motor activities of a toddler. Collection of stories and rhymes for nursery school children. Prepare charts, flash cards, puppets for children 3-6 years. Prepare low-cost play materials/equipments for children 5-10 years. Engaging in games and activities that enhance self-understanding in building professional skills. Interviews of adolescent girls and boys to understand their life style and behavior based on gender and socio-economic status.

Instructions for External Practical Paper Setter/Examiner:

The examiner will set two questions at the time of practical examination by taking course learning outcomes into consideration. Equal weightage will be given to both the questions. The evaluation will be done on the bases of practical record, viva-voce, write up and execution of the practical work done in the class and at the time of the examination.

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Introduction to Textiles
B-ITX-103

Total marks: 70
Internal marks: 20
External marks: 50

Total Credits: 3
Time: 3 Hrs.

Course Outcomes: A successful completion of this course, the students will be able to:
CO1: Develop an understanding of concepts and basics of textile fibers.
CO2: Develop critical understanding of the techniques of yarn manufacturing.
CO3: Identify different weaving methods, weaving, knitting and non-woven fabric.
CO4: Analyse and appropriate use of laundering reagents.

Unit-I

Introduction to Textiles: Definition of textile fibers and terminology. Classification of textile fibers: Physical and Chemical properties of fibers. Natural fibers: Cotton, Silk and Wool, Manufacturing process, properties and end use. Man-made fibers: Nylon and Polyester Manufacturing process, properties and end use.

Unit-II

Yarn and Fabric: Classification of yarns: simple, ply and cord, Types of Yarn: Textured and novelty, Twist in yarn: "s" and "z", number of twists and yarn count, Properties of yarn: strength, extension, fineness, length and diameter.

Unit-III

Woven fabrics: Looms and its part, Classification of weaves: Basic weaves Plain, Twill and Satin, Novelty weaves – Pile, Leno-Gauze, Honeycomb. Knitted fabrics: Types of knitting, Hand knitting and Machine knitting. Introduction of nonwoven fabrics

Unit-IV

Laundry, storage, and care of textiles (cotton, wool, silk and synthetic). Water, Soaps and Detergents. Methods and care during laundering of different textiles (cotton, wool, silk and synthetic).

Recommended Readings:

1. Booth, J.E. (1996). Principles of Textile Testing. New Delhi: CBS Publishers & Distributors Pvt. Ltd.
2. Corbman, P.B. (1983). Textiles: Fibre to Fabric. McGraw-Hill Publishers.
3. Dantiyagi, S. (1996). Fundamentals of Textiles and their Care. India: Orient Black swan Private Limited.
4. Greaves, P.H., Saville, B. P. (1995). Microscopy of textile fibres. bios Scientific Publishers
5. Gohl, E., Vile sky, L. (2003), Textile Science: an explanation of fiber properties (2 edition), NewDelhi.
6. Hollen, R. N., Saddler, J., & Langford, A. (1979). Textiles. Macmillan Publishers.
7. Joseph, M. (1992), Introductory Textile Science. Sixth edition, California: Harcourt College Publishers
8. Mahapatra, N.N. (2015). Textile Technology. New Delhi: A.P.H. Publishing Co-oration.
9. Needles, L.H. (1986). Textile Fibers, Dyes, Finishes, and Processes. USA, New Jersey: Noyes publications.
10. Rastogi, D., & Chopra, S. (2017). Textile Science. India: Orient Blackswan Private Limited.
11. Robert, R. & Mather, R. H. (2015). The Chemistry of Textile Fibers. Cambridge: RSC Publishers.
12. Sekhri, S. (2011). Textbook of Fabric Science: Fundamentals to Finishing. India: PHI Learning Pvt. Ltd.
13. Smith, J.L. (2015). Textile Processing: Printing Dyeing Finishing. Chandigarh: Abhishek Publication.

Instructions for External Theory Paper Setter/Examiner:

The examiner will set 9 questions asking two questions from each unit and one objective type questions covering the entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions carry equal marks.

Practical



Total marks: 30
Internal marks: 10
External marks: 20

Total Credits: 1
Time: 3 Hrs.

Practical

Fiber identification: Identification of natural and manmade fibers by following three methods i.e. microscopic test, burning test and solubility test. Make samples of different types of weaves. Study of Yarn count using pick glass. Care of Textiles: Stain removal, mending of textiles and Starching using different types of starches.

Instructions for External Practical Paper Setter/Examiner:

The examiner will set two questions at the time of practical examination by taking course learning outcomes into consideration. Equal weightage will be given to both the questions. The evaluation will be done on the bases of practical record, viva-voce, write up and execution of the practical work done in the class and at the time of the examination.

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Introductory Chemistry
B-ICH- 104

Total marks: 50
Internal marks: 15
External marks: 35

Total Credits: 2
Time: 1:30 Hrs.

Course Outcomes: A successful completion of this course, the students will be able to:

- CO1: Understand with the basic concepts of chemistry
CO2: Understand the molecular structure of elements and compounds
CO3: Develop skills for measurement of physical properties

Unit -I

General Introduction to the structure of atom (electron, proton and neutron), Quantum numbers, Aufbau, s principle, Hund's rule, Pauli's exclusion principle. Electronic configuration of atoms (upto atomic no. 30). Periodic classification of elements (s, p, d and f block). Periodic trends in properties (Atomic radii, Ionisation energy, Electron affinity, Valency). Chemical bonding (Covalent, Ionic, Coordinate and Hydrogen bonding). Chemical equations: balancing and chemical calculations.

UNIT-II

Chemical energetics: exothermic and endothermic reactions, enthalpies of formation, combustion, neutralization, fusion, solution, vaporization and sublimation, Calorific values of foods and fuels. Mole concept and Concentration units: molarity, molality, formality and normality, Concepts of acids and bases: Arrhenious , Bronsted and Lewis concept of acid and bases, Acid base equilibrium, pH, pH Scale and buffer solutions

Recommended Readings:

1. Sienko/ Plane : Chemistry: Principles & Application ,Mc Graw Hill.
2. Robret J. Silbey & Robert A.Albert: Physical Chemistry, John Wiley sons.
3. P.L.Sony: Fundamental of Inorganic Chemistry, S.Chand & Sons.
4. P.L.Soni, O.P.Darmarha: Text book of Physical Chemistry, S.Chand & Sons.
5. S.N.Dhawan: New Course chemistry Vol -I and Vol-II, Pradeep Pub.
6. A.D Chawla: New college practical chemistry Vol -1, Vijaya pub.
7. A.D Chawla: New college practical chemistry Vol -1I, Vijaya pub.

Instructions for External Theory Paper Setter/Examiner:

The examiner will set 5 questions asking two questions of 12 marks from each unit and one compulsory question by taking course outcomes (CO) into consideration. The compulsory question (Question No. 1) will contain 5 parts of 11 marks covering entire syllabus. The examinee will be required to attempt 3 questions, selecting one question from each unit and the compulsory question.

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Introductory Home Science-I
B-IHS-105

Total marks: 75
Internal marks: 25
External marks: 50

Total Credits: 3
Time: 2 Hrs.

Course Outcomes: A successful completion of this course, the students will be able to:

CO1: Understand and appreciate the role of interdisciplinary sciences in the development and well-being of individuals, families and communities.

CO2: Acquire professional and entrepreneurial skills for economic empowerment of self, and community in general.

CO3: To develop pragmatic and comprehensive understanding of applications of Home Sc in community and individual life.

UNIT -I

Important concepts: Objective, Education, formal and informal Home, Home maker, home making, home scientist. Home science education — Definition, Meaning and Objectives Scope and need of home science.

UNIT -II

Structure and areas of home science- Food and nutrition, clothing and textile, home management, human development, extension education, Job opportunities in different areas of home science- Self-employment and Gainful employment

UNIT -III

Institutions offering Home Science under agricultural and conventional/traditional universities, Role of Home Science Education in development of individual, family and communities.

Recommended readings:

1. Blankship, M.L. 1991. Home economics education Boston, Houghton Mifflin company.
2. Chandra, A. 1995. Introduction to home science, new Delhi metropolitan book Co.640 Ar 897 C.
3. Dhama, O.P. and Bhatnagar, O.P. 1991. Communication for development. New Delhi, oxford and IBH Publishing Co.
4. Dhama, O.P. 1986. Extension and rural welfare. Agra, ram Prasad and sons. Directorate of extension 1961. Extension education in community development, new Delhi, ministry of food and agriculture, govt. of India.
5. Devdas, R.P. 1978. Methods of teaching home science, new Delhi, national council of education, research and training.
6. Tikoo santosh, 2018, family resource management, Modern publishers, Gulab bhawan-6, bahadur Shah zafar Marg, New Delhi

Instructions for External Theory Paper Setter/Examiner:

The examiner will set 7 questions asking two questions from each unit and one compulsory question by taking course outcomes (COs) into consideration. The compulsory question (Question No. 1) will contain 5 parts covering entire syllabus. The examinee will be required to attempt 4 questions, selecting one question from each unit and the compulsory question

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- 1324 -

Interior Decoration
B-ID- 201

Total marks: 70
Internal marks: 20
External marks: 50

Total Credits: 3
Time: 3 Hrs.

Course Outcomes: A successful completion of this course, the students will be able to:

CO1: To encourage experimentation with traditional and contemporary materials, technical processes, and methods

CO2: To develop skills, abilities & knowledge that enable artistic production & creative problem-solving skills.

CO3: To develop and apply concepts of art & design to create aesthetically pleasing interiors.

CO4: To acquire professional and entrepreneurial skills like interior decoration, use of waste material and decorative pieces for economic empowerment.

Unit-I.

Objectives of interior decoration, importance of elements of art in interior decoration. Types of design: structural and decorative and its application. Elements of art: line, form, texture, light, pattern, colour, space and its application in interior decoration.

Unit-II.

Principles of design: Rhythm, balance, proportion, emphasis, harmony and its application in interior decoration. Colour: Properties of colour, psychological effect of colour, color schemes and its application in the interior of a house. Lighting: Types and requirement for various activities, Lighting fixtures in the home.

Unit-III.

Table setting and table manners: Informal and formal table settings (buffet style, Indian style restaurant style, Cafe style). Furniture: Types of furniture, furniture arrangement for different areas (bedroom, drawing room, dining room, kitchen and its types) Factors affecting the selection and purchase of furniture, care and maintenance of furniture.

Unit-IV.

Flower arrangement: Different types of flower arrangement. Accessories used and points to be considered for flower arrangement. Flower decoration for different occasions Furnishings: Soft Furnishing (curtains, cushions, pillow and material for upholstered furniture). Wall treatment and its types, Window treatment and decoration, Types of floor coverings

Recommended Readings:

1. Seetharaman P.(2019), Interior Design And Decoration, India:CBS.
2. M.Pratap Rao (2020), Interior Design: Principles and Practice,India, Standard Publishers and Distributors Pvt Ltd
3. Frida Ramstedt (2020), The Interior Design Handbook: Furnish, Decorate, and Style Your Space,Clarkson Potter publishing.
4. Dr. Bhargava B. (2007), Principles of art,University Book House Pvt. Ltd.
5. Lawrence M, (1987), Interior Decoration, New Jersey: Chartwell Books.
6. Riley &Bayen., (2003), The Elements of Design, Mitchell Beazley.
7. Rutt Anna Hong (1961): Home furnishing, Wiley Eastern Pvt.Ltd.

Instructions for External Theory Paper Setter/Examiner:

The examiner will set 9 questions asking two questions from each unit and one objective type questions covering the entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions carry equal marks.

Practical

Total marks: 30

Internal marks: 10

External marks: 20

Total Credits: 1

Time: 3 Hrs.

Preparation of house plans for different income groups (manual/computer aided). Floor decoration: Alpana and rangoli. Pottery painting and decoration. Creating various art pieces/accessories using various types of materials and techniques like paper cutting, collage, candle making, stone painting, gift wrapping, greeting cards with decorative envelopes, shopping bags/decorative pouches, accessories for fashion designing including Jewellery making (any 5). Table setting and napkin folding. Flower arrangement for different rooms and occasions. Planning color schemes for different rooms manual/computer aided.

Instructions for External Practical Paper Setter/Examiner:

The examiner will set two questions at the time of practical examination by taking course learning outcomes into consideration. Equal weightage will be given to both the questions. The evaluation will be done on the bases of practical record, viva-voce, write up and execution of the practical work done in the class and at the time of the examination.



Extension Education and Communication
B-EEC- 202

Total marks: 70
Internal marks: 20
External marks: 50

Total Credits: 3
Time: 3 Hrs.

Course Outcomes: A successful completion of this course, the students will be able to:

- CO1: To understand the concept of extension education and its need.
CO2: To gain knowledge about extension education and its relationship with other social sciences
CO3: Understand the concept and different communication methods.
CO4: Enhance knowledge about audio visual aid and non-projected audio-visual aid in Communication.

UNIT-I

Definition, meaning, objectives and scope of extension education, Need for extension education in India. Principles of extension education, Difference between formal education and non-formal education.

UNIT II

Elements of extension education. Role and qualities of an extension education worker. Extension education and its relationship with other social sciences. Philosophy of extension education.

UNIT III

Definition, concept and scope of communication. Functions and importance of communication. Types and elements of Communication and their characteristics. Problems and barriers of communication.

UNIT-IV

Communication effectiveness. Classification of communication methods: Individual methods- farm and home visit, Farmers call, personal letter and group methods-Study tour, small group training and group meeting, Role of audio-visual aid in Communication: -Television, mobile phone and cinema, Role of non-projected audio-visual aid in Communication: -Drama, Puppet show and Talking doll.

Recommended Readings:

1. Dahama, O.P and Bhatnagar O.P. (1995). Education and Communication for Development. New Delhi: Oxford and IBH Co.
2. Gupta, D. (2007). Development Communication in Rural Sector. New Delhi: Mukhopadhyay Abhijeet Publication
3. Nisha, M. (2006). Understanding Extension Education. New Delhi: Kalpay Publications
4. Reddy, A.A. (2001). Extension Education. Bapatla: Sri Lakshmi Press
5. Rogers Everett, M. (2003). Diffusion of Innovations, 5th Ed. New York: The Free Press
6. Singh, U.K and Nayak, A.K. (2007). Extension Education. New Delhi: Common Wealth Publishers
7. Wilson, M.C., and Gallup, G. (1955). Extension Teaching Methods. Washington: US Department of Agriculture
7. Bhalla, C.L.(2009). Audio Visual Aids in Education. Cornell University
8. Ray, G.L. (2004). Extension education and Management. Kalyani Publisher, New Delhi.

Instructions for External Theory Paper Setter/Examiner:

The examiner will set 9 questions asking two questions from each unit and one objective type questions covering the entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions carry equal marks.

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Practical

Total marks: 30

Internal marks: 10

External marks: 20

Total Credits: 1

Time: 3 Hrs.

Preparation and use of different Audio-Visual Aids in urban and slum area, chart, poster, leaflets, pamphlets, flash card, flip card. Preparation of puppet as a media of communication and writing drama for puppetry. Field visit to get the field experience of family status (with special reference to women living in rural/urban slum areas). Preparing a skit/role play on any social issue and making a short video to disseminate a message

Instructions for External Practical Paper Setter/Examiner:

The examiner will set two questions at the time of practical examination by taking course learning outcomes into consideration. Equal weightage will be given to both the questions. The evaluation will be done on the bases of practical record, viva-voce, write up and execution of the practical work done in the class and at the time of the examination.

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Fundamentals of Clothing Construction
B-FCC-203

Total marks: 70
Internal marks: 20
External marks: 50

Total Credits: 3
Time: 3Hrs.

Course Outcomes: A successful completion of this course, the students will be able to:

- CO1: Comprehend the importance and function of clothes.
CO2: Gain an insight of various sewing machines and other sewing equipment's available in the market, their functioning & common problems faced while usage.
CO3: Utilize design components in garment construction.
CO4: Understand basic principles of clothing construction.

Unit-I

Introduction: History of Clothing, Origin of Clothing, Use of clothing among primitive people. Functions of clothing in relation to culture, Psychological, sociological, economic, and political aspects. Theories of clothing, Terminology: Clothing, fabric, fashion, fad, silhouette, weaving, knitting, felting,

Unit-II

Sewing Machines: Types of sewing machines, Mechanical Sewing Machine, Electronic Sewing Machine, Computerized or Automated Sewing Machine and Embroidery Machine. Parts of sewing machine: Types and function, Maintenance, Common problems, and its remedies. Tools and equipment used for clothing construction: Measuring tool, drafting tool, marking tool, cutting tool, stitching tool, pressing tool, Needles, threads and their relation to fabric, Types of needles for hand and machine sewing. Types of threads hand and machine sewing, Selection of right thread, needle for the fabric to be sewn.

Unit-III

Introduction to Clothing Construction: Anthropometric measurements, Instruments used for anthropometric measurements. Introduction to drafting and paper pattern. Factors affecting selection of fabrics: Social factors, Economic factors, Physiological factors, Environmental factors.

Unit-IV

Basic Principles of Clothing construction, Harmony, balance, rhythm, emphasis etc. Basic elements of Clothing construction, color, line, texture, shape etc. Relation between elements and principles of design/construction to the Clothing and Fashion Color, line and texture in relation to: Age, Season, Occasion, Figure and Complexion.

Recommended Readings:

1. Armstrong, Pearson. (1995), Pattern making for Fashion Design, Fairchild Publication, New York 1995 (Indian Ed.)
2. Cream, Penelope., (1996), The Complete Book of Sewing - A Practical Step by Step Guide to Sewing Techniques, DK Publishing Book, New York,
3. Dorothy wood, the practical encyclopaedia of sewing, Anneess publishing Ltd, London.
4. Holman, Gillian. (1997), Pattern Cutting Made Easy, BSP.
5. Janace E. Bubonia. (2012), Apparel production terms and processes, Fairchild Books, New York.
6. Kallal, Mary Jo, (1985), Clothing Construction, Mc Millan Publishing Company, New York.
7. Norma Hollen, Jane Saddler, Anna L. Langford & Sara, J.,(1988) Textiles 6th ed., Macmillan Publication, New York
8. Readers, Digest, Complete Guide to Sewing, The Reader's Digest Associations (Canada) Ltd. Montreal, Pleasantville, New York.
9. Thomas, A, (1986), the Art of Sewing UBSPD Publishers Distributors Ltd. New Delhi.

Instructions for External Theory Paper Setter/Examiner:

The examiner will set 9 questions asking two questions from each unit and one objective type questions covering the entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions carry equal marks.

Practical

Total marks: 30

Internal marks: 10

External marks: 20

Total Credits: 1

Time: 3 Hrs.

Practical:

Taking measurements directly from body. Preparing sample of: Basic hand stitches- basting, back stitch, hemming visible/invisible, Lock stitch. Seams- plain seams and decorative seams, Fullness, Darts-Single point, Fish darts Tucks- Pin tucks, wide tucks, corded tucks, crossed tucks, Pleats-Knife, box, inverted box, permanent pleat, Gathers – Hand and machine, Shirring, Ruffles and frills, Neckline finishes- Binding and facing, Plackets: Faced and continuous bound, Pockets: Patch, in seam pocket, Snap button and fastener attachment and Stay stitching.

Instructions for External Practical Paper Setter/Examiner:

1. The examiner will set two questions at the time of practical examination by taking course learning outcomes into consideration.
2. Equal weightage will be given to both the questions.
3. The evaluation will be done on the bases of practical record, viva-voce, write up and execution of the practical work done in the class and at the time of the examination.

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Introduction to Psychology
B-IP-204

Total marks: 50
Internal marks: 15
External marks: 35

Total Credits: 2
Time: 1: 30 Hrs

Course Outcomes: A successful completion of this course, the students will be able to:

CO1: To understand the basics of human nature

CO2: To make the students understand the different aspects of human behaviour.

Unit-I

Introduction: Nature, scope and methods of psychology. Biological basics of behaviour Nervous system, Endocrine system, Genes and behaviour. learning: Role of motivation in learning, Theories of intelligence, Factors affecting learning. Intelligence: Definition and types, Measurement of intelligence, Theories of intelligence.

Unit-II

Memory: Stages of memory (encoding, decoding and revival), Types of memory: sensory STM, LTM. Causes of forgetting, improving memory. Motivation and Emotion: Nature of motivation, Different types of motives, Theories and characteristics of emotions, physiological correlates of emotion, Personality: Definition, psychoanalytical theory of personality. Types -approaches to personality traits-approach to personality. Determinants of personality: biological factors, environmental factors and Measurement of personality.

Recommended Readings:

1. Kapadia, S. (2011). Psychology and human development in India. Country paper. *International Society for the Study of Behavioural Development Bulletin Number 2, SerialNo. 60, pp.37-42.*
2. Bhangaokar, R., & Kapadia, S. (in press). Human Development Research in India: A historical overview. In G. Misra (Ed.), *Hundred years of Psychology in India*. New Delhi: Springer
3. Arnett, J. J., & Jensen, L. A. (2019). *Human Development: A cultural approach* (3rd ed.). New York: Pearson.
4. Cavanaugh, J., & Blanchard-Fields, F. (2011). *Adult development and aging* (7th ed). Stamford, CT: Cengage Learning.
5. Kakar, S. (Ed.). (1993). *Identity and adulthood*. New Delhi: Oxford University Press.

Instructions for External Theory Paper Setter/Examiner:

The examiner will set 5 questions asking two questions of 12 marks from each unit and one compulsory question by taking course outcomes (CO) into consideration. The compulsory question (Question No. 1) will contain 5 parts of 11 marks covering entire syllabus. The examinee will be required to attempt 3 questions, selecting one question from each unit and the compulsory question.

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Introductory Home Science-II
B-IHS-205

Total marks: 75
Internal marks: 25
External marks: 50

Total Credits: 3
Time: 2 Hrs.

Course Outcomes: After completing this course, the learner will be able to:

CO1: To understand basic concepts of nutrition & importance of various nutrients.

CO2: To aware students regarding the Growth and development phases of Infancy

CO3: To impart knowledge and skills for making different decoration methods and Home Science Extension education.

Unit-I

Definition, Concept and objectives Of Home Science, Basic terminology: Food, nutrients, nutrition, health, balanced diet, Malnutrition, Classification, sources, Function and deficiency of Carbohydrate, Protein, Fat, vitamin and minerals.

Unit-II

Flower arrangement: Importance and Types, Principles and Elements of Art in flower Arrangement
Floor Decoration-Types (Rangoli & Alpana) and methods, Stain – Definition, classification, methods of removing different types of stains.

Unit-III

Human Growth and Development: Meaning and concept, Factors influencing growth & development milestones of infancy (0-2 years) and early childhood (3-6 years): Physical and motor development, Social and emotional development, Cognitive and language development
Home science Extension education: Meaning, Importance and objectives, Qualities of an extension worker

Recommended Readings:

1. Dahama, O.P and Bhatnagar O.P. (1995). Education and Communication for Development. New Delhi: Oxford and IBH Co.
2. Sushma Gupta, Neeru Garg , Amita Aggarwal, Jaspreet kaur and Parminder kaur(2016) text book of Foods and Nutrition and child development by Kalyani Publications.
3. Tikko, Santosh, (2017-2018) physiology, clothing and Textiles, modern publishers ,New Delhi
4. Patni Manju,2007, Extension education, Shiva Publications, Indore

Instructions for External Theory Paper Setter/Examiner:

The examiner will set 7 questions asking two questions from each unit and one compulsory question by taking course outcomes (COs) into consideration. The compulsory question (Question No. 1) will contain 5 parts covering entire syllabus. The examinee will be required to attempt 4 questions, selecting one question from each unit and the compulsory question.

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