

### Kamla Nehru Institute of Physical and Social Sciences,



Sultanpur U.P. India

(An Autonomous Institute) Affiliated to Dr. Ram Manohar Lohia Avadh University Ayodhya U.P.



New education policy 2020 Structure of Syllabus for the B.Sc. Home Science NEP Syllabus

Syllabus developed / proposed by:

S. No.	Name	Designation	Department	College / University
1.	Dr. Mamta Jaiswal	Convenor	Home Science	K.N.I.P.S.S., Sultanpur
2.	Dr. Pushpa Maurya	Member	Home Science	K.N.I.P.S.S., Sultanpur
3.	Dr. Seema Dubey	Member	Home Science	K.N.I.P.S.S., Sultanpur
4.	Prof. Sadhana Singh	Member (Nominee Academic Council)	Home Science	Dean , faculty of Home Science, A.N.D.U.A.T., Kumarganj, Ayodhya
5.	Dr. Babita Verma	Member (Nominee Academic Council)	Home Science	A.N.D.U.A.T., Kumarganj, Ayodhya
6.	Dr. Deepa Verma	Member (Nominee V.C., Dr. RMLAU)	Home Science	Rajkiya Mahavidyalaya, Hansaur, Barabanki
7.	Shri. Baldev Singh (Industrialist)	Member (nominated principal)	NA	Punjabi Colony, Kurwar Naka, Sultanpur
8.	Shri. Jagjeet Singh (Ex- Student)	Member (nominated principal)	NA	Near Vijay Deluxe, Laldiggi, Sultanpur

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July 9.23

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### Kamla Nehru Institute of Physical & Social Sciences, Sultanpur (UP)-228118

(An Autonomous Institute)

'NAAC - 'A' Grade'

#### Structure of syllabus for the program

B.Sc.: Subject- Home Science

#### Syllabus developed/proposed by

S.No.	Name	Designation	Department	College/University/Address
1.	Dr. Mamta Jaiswal	Convenor	Home Science	K.N.I.P.S.S., Sultanpur
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6.	Dr. Deepa Verma	Member (Nominee V.C., Dr. RMLAU)	Home Science	Rajkiya Mahavidyalaya, Hansaur, Barabanki
7.	Sri Baldev Singh (Industrialist)	Member (Nominated Principal)	NA	Punjabi Colony, Kurwara Naka, Sultanpur
8.	Sri Jagjeet Singh (Ex-student)	Member (Nominated Principal)	NA	Near Vijay Delux, Laldiggi, Sultanpur

As per syllabus development guidelines of Higher Education for UG Course-

Member

(Prof. Sadhana Singh)

Member (Nominee Academic Council) Dean, Faculty of Home Science, A.N.D.A.U.T. Kumarganj, Ayodhya

Member (Nominee V.C., Dr. RMLAU) Rajkiya Mahavidyalaya, Hansaur, Barabanki

(Sri Jagjeet Singh) Ex-student Member (Nominated Principal) Near Vijay Delux, Laldiggi, Sultanpur Convenor

K.N.I.P.S.S., Sultanpur

Member

K.N.I.P.S.S., Sultanpur

Member (Nominee Academic Council)

A.N.D.A.U.T. Kumarganj, Ayodhya

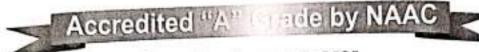
(Sri Baldev Singh) Industrialist Member (Nominated Principal) Punjabi Colony, Kurwar Naka, Sultanpur



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8.	Shri. Jagjeet Singh (Ex- Student)	Member (nominated principal)	NA	Near Vijay Deluxe, Laldiggi, Sultanpur	

#### Programme Objectives:

The objective of the Course is to develop responsive and responsible home-makers and skillful, talented, productive citizens of the nation with high potential and professionalism by imparting knowledge in various areas of Home Science and creating suitable attitude for the same. The major objectives are:

- Women empowerment
- Skill development and enhancement
- · Capacity building
- Entrepreneurial development
- Student centric and job oriented course

#### Learning outcomes:

In contemporary times, Home Scientists promote capacity building of individuals and communities for social and economic empowerment. They train community women and youth from various strata of society for entrepreneurship. Many Home Scientists have done exceptionally well as entrepreneurs themselves. They do not remain job seekers but have also become job creators. They gain and provide employment in research organizations, food and textile industries, dietetic practice, education and child development domains, accreditation of green buildings, strategic planning and communication technologies. Years of national and international experience in the field has contributed to the wisdom that all the five windows of opportunity that Home Science offers be opened for i.e. Food and Nutrition, Human Development, Resource Management, Extension and Communication and Fabric and Clothing and Textile. In this course, the students will learn the fundamental principles and foundations of all the five areas. They are expected to internalize the principle of a Home Scientist, that is, to give back to the community from which they draw, for sustainable development.

- Understand and appreciate the role of interdisciplinary sciences in the development and well-being of individuals, families and communities
- Understand the sciences and technologies that enhance the quality of life of people
- Acquire professional and entrepreneurial skills for economic empowerment of self in particular, and community in general

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- Develop professional skills in food, nutrition, textiles, housing, product making, communication technologies and human development
- Take science from the laboratory to community.

#### Course Content-

- Core Courses I –IV Semester- 3 Core Courses of 06 credit each [18 x 4 = 72 Credits]
- Core Courses V –VI Semester- 8 Core Courses of credit each [20x2 = 40 Credits]
- Minor Elective I-IV Semester-2(paper) 1 in each year of any semester[4x2=8Credits]
- Vocational I-IVISemester-1 paper in each semester (4X3=12 Credits)
- Co-curricular (Qualifying)- I -VI -1 paper in each semester (6X0=0 Credit)
- Research Project- I and II (Qualifying) V and VI semester (8 Credits)

#### Total Credits - 132

- I Year -Certificate in faculty- 46 Credits
- II Year- Diploma in faculty- 92 Credits
- III Year- Bachelor in faculty- 132 Credits

Group - 1	Food & Nutrition
Group - 2	Child Development
	Extension Education
Group -3	Family Resource Management
-	Clothing & Textile

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## Course Structure of B.Sc. Home Science

Year	Sem.	Course	Subject	Paper title	credit T/P	Evaluati on CIE+UE
1 Year	1	HSFN - 111	Core1	Fundamentals of food and human physiology	4+2	T-25+75 P-50+50
		HSCD - 112	Core2	Life Span Development	4+2	T-25+75 P-50+50
		HSCT - 113	Core3	Fundamentals of clothing and Textiles	4+2	T- 25+75 P- 50+50
			Vocationa 1	As available	0+3	Qualifyi ng
			Core4	Food, Nutrition and Hygiene	-	Qualifyi ng
			Minor	Offered by other department	4+0	Qualifyi ng
	11	HSFN - 121	Corel	Nutrition Science	4+2	T-25+75 P-50+50
		HSFRM – 122	Core 2	Family Resource management	4+2	T-25+75 P-50+50
		HSEE - 123	Core 3	Home Science extension extension education and Communication	4+2	T-25+75 P-50+50
			Vocationa 1	As available	0+3	Qualifyi ng
			Co- curricular	First Aid and Health	-5%	Qualifyi ng
			Minor	Offered by other department	4+0	Qualifyi ng
II year	Ш	HSFN - 211	Core 1	Nutrition During Life Cycle	4+2	T-25+75 P-50+50
		HSCA - 212	Core 2	Computer Application Research Methodology	4+2	T-25+75 P-50+50

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		HSCT - 213	Core 3 Vocationa	713 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0+3	T-25+75 P-50+50 Qualifyi ng Qualifyi
			Co- curricular	Human values and Environment studies		ng
			Minor	Offered by other department	4+0	Qualifyi ng
	IV	HSFN – 221	Core 1	Food Preservation & Microbiology	4+2	T-25+75 P-50+50
		HSEE - 222	Core 2	Entrepreneurship	4+2	T-25+75 P-50+50
		HSCT - 223	Core 3	Fabric Construction and Finishing	4+2	T-25+75 P-50+50
			Vocationa I	As available	0+3	Qualifyi ng
			Co- curricular	Human values and Environment studies	•	Qualifyi ng
			Minor	Offered by other department	4+0	Qualifyi ng
III year	v	HSFN - 311 HSFN - 312 HSCD - 313 HSEE - 314	select anytwo groups from Group 1- 3	Group 1  Therapeutic Nutrition  Food Science  Group 2  Early Childhood Careand Education Extension Training Management  Group 3	4+2 4+0 4+2 4+0 4+0	T- 25+75 P- 50+50 T- 25+75  T- 25+75 P- 50+50  T-25+75
		HSFRM - 315 HSCT – 316	Project	<ul> <li>Consumer         Economics     </li> <li>Advance         Garment     </li> </ul>	4+2 0+4	T-25+75

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	HSRP - 317		Construction  Research project-I		T- 25+75 P- 50+50 Qualifying
VI	HSFN - 321		Group 1  • Community  Nutrition	4+0 4+2	T-25+75 T-25+75 P-50+50
	HSFN 322	select any	<ul> <li>Food Service Management</li> </ul>	4+2 4+0	T-25+75 P-50+50 T-25+75
	HSEE - 323 HSCD - 324	two groups from Group 1-3	• Community development & education • Theories of Human	4+0 4+0 4+2	T-25+75
	HSCT – 325 HSFRM – 326	Project	Development Group 3  Traditional Textiles of India Interior	0+4	P-50+50 Qualifying
	HSRP - 327		Designing and Decoration  Research Project - II		

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Program/Class: Bachelor in Home science	Year: i	Semester: I (Paper 1)	
	Subject: Home Science		
Course Code: HSFN - 111		ndamentals of food and numan physiology 6(4+2)	

- Comprehend relationship between food, nutrition and health.
- Develop understanding about the methods of preparing food.
- Gain the basic knowledge of human anatomy and physiology. Define the main structures composing human body.

#### Course outcomes:

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After completion of this course, a student will be able to

demerits.

- Understand the functions of food, basic concepts of food groups and balanced diet.
- Understand the selection, nutritional contribution the commonly consumed foods
- . Explains structure and functions of cells, tissues and organs, systems of the human body

	Credits:6(4+2)	Core Compulsory	
	Max. Marks: 25+75 Min. Passing Marks: 40		
	Total No. of Lectures-Tutorials-Pro		
Unit	Торіс	es	No. of Lectures
I	recommended dietary allow	health, define balanced diet, vances (RDA), functional food, ticals, nutraceuticals, dietary	08
	<ul> <li>Food Groups and food guide p</li> </ul>	yramid and its importance,	08

Objectives of cooking, processing, preservation, methods of cooking (Dry, moist and combination) with their merits and

Effect of cooking and heat on nutritive value of foods

1111	Introduction to Human body: Organs, tissue and cell, cell structure, cellular organelles and their functions, skeletal system.     Blood and Lymphatic System: Blood - Composition and functions, plasma Protein -Composition and functions.	10
IV	Digestive system:     Overview of the Gastrointestinal Tract, organization and functions of digestive system	10
v	Cardiovascular system:  Structure and function of heart, blood vessels (systemic, pulmonary, and portal), Blood pressure (Definition and factors affecting)  Respiratory Physiology:  General overview of the respiratory passage, structure and functions.	14
VI	Endocrine System: Overview of endocrine system, functions of endocrine glands: Pituitary, Thyroid, Parathyroid, Adrenal Glands, sex and Pancreatic hormone     Reproductive system: Structure and function of uterus and ovaries, Menstruation and Menopause	10
Practical	<ul> <li>Identification and use of different kitchen items and equipment</li> <li>Knowledge of different food stuffs in English, Hindi and locallanguage.</li> <li>Different Styles of cutting fruits &amp; vegetables</li> <li>Salad Decorations &amp; Dressings</li> <li>Determination of pulse rate in resting condition and after exercise (30 beats/10 beats method)</li> <li>Determination of blood pressure by Sphygmomanometer (Auscultator method).</li> <li>Detection of Blood group (Slide method).</li> <li>Measurement of Hemoglobin level (Sahli's or Drabkin method).</li> </ul>	

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- Bamji MS, Krishnaswamy K, Brahmam GNV (2009). Textbook of Human Nutrition, 3<sup>rd</sup> edition.
- Oxford and IBH Publishing Co. Pvt. Ltd.
- Srilakshmi (2007). Food Science, 4th Edition. New Age International Ltd.
- Wardlaw and Insel MG, Insel PM (2004). Perspectives in Nutrition, Sixth Edition.
- Mosby, Chadha R and Mathur P (eds), Nutrition: A Lifecycle Approach. Orient Blackswan, Delhi, 2015
- Dr Deepa Verma and Dr Rajeshwari Pandey (2021) Ucch poshan ewam manav vikas (Advance Nutrition and human development), Sahitya Prakashan
- Dr. vrinda singh, (2020). Aahar vigyan evam poshan (Dietetics & Nutrition)
- Dr. Reena Khanuja, (2012). Aahar Evam Poshan VigyanDas, A. (2004) Medical Physiology-Vol. 1 and II 3rd Books and Allied (P) Ltd.
- Tortora, G.J and Grabowski, S.R. (2000) Principles of Anatomy and Physiology.9th ed.John Wiley and Sons.Inc.
- Chaudhari S K. (2000) Concise Medical Physiology.3rd Edition. Central
- Mahapatra, A.B.S. (2003): Essentials of Medical Physiology.3rd Edition. Current BooksInternational

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ome Science	
Course Title: Life	e Span Development
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- Develop an understanding about the need and importance of studying human growth and development across life span
- Develop professional attitude for working with human beings across life span

#### Course outcomes:

After completion of this course, a student will be able to

Credits:6(4+2)

- Learn about the biological and environmental factors that affect development
- Learn about the characteristics, needs and developmental tasks of different stages in the humanlife cycle
- Understand the different theoretical frameworks fundamental to HDFS
- Learn about the classic human development theories

	Credits:0(4+2)			
	Max. Marks: 25+75	Min. Passing Marks	Min. Passing Marks: 40	
	Total No. of Lectures-Tutorials-Practica L-T-P: 3-1-2	(in hours per week):		
Unit	Topics		No. of Lectures	
1	<ul> <li>Prenatal, perinatal and postnatal stages- Issues and scientific concepts associated with conception, pregnancy, prenatal development, labor/ birth, postnatal life.</li> <li>Infancy- physical, motor, social, emotional, cognitive and language characteristics.</li> </ul>		15	
11	<ul> <li>Physical, motor, social, emotion characteristics. Stimulating ap- development during: Early Child Adolescence, Adulthood, Old age Decline of language in the age disorders).</li> </ul>	hood, Early Childhood, and (Speech impairment and	15	
111	<ul> <li>Development stages of play: Pland learning. Social dimension of onlooker behaviour, solitary play, and co-operative play.</li> </ul>	play, unoccupied benaviour,	15	

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Core Compulsory

IV	<ul> <li>Marriage: Meaning, definition, purpose, motives, functions and types of marriage. Laws related to marriage and family. Stages of family life cycle;</li> </ul>	15
Practical	<ol> <li>Observing children indifferent situations, recording the observations, analyzing the observations and writing report</li> <li>Assessment of physical development of children</li> <li>Assessment of motor development of children: gross motor skills, fine motor skills</li> <li>Assessment of social behavior</li> <li>Plan and develop activities to facilitate development in different domains</li> <li>Prepare play materials and teaching aids for children</li> <li>Observational visits to baby clinic to observe full term and preterm babies.</li> </ol>	

- Rice, F. P. (1998). Human Development: A lifespan approach. New Jersey: Prentice Hall.
- Rutter, M. and Rutter, M. (1992) Developing Minds. Challenge and continuity across the life span. London: Penguin.
- Santrock, J. W. (2007). A topical approach to life-span development. New Delhi: TataMcGraw-Hill.
- Singh, A. (Ed). 2015. Foundations of Human Development: A life span approach. NewDelhi: Orient BlackSwan.
- Tennant, M. and Pogson, P. (1995) Learing and Change in the Adult Year, San Francisco: Jossey-Bass.

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Program/Class: Hachelor in Home science	Year: 1	Semester: 1 ( Paper 3)	
Su	bject: Home Science		
Course Code: HSCT - 113	Course Title: Fundamentals of clothing and Textiles		
Fundamental understanding of Te     Knowledge development regarding     Learning development regarding p	various types of basic		

#### Course outcomes:

After completion of this course, a student will be able to:

Credits:6(4+2)

- · Learning development regarding processes involved in yarn manufacture.
- Comprehension development regarding use of various types of fibers and yarns.

Comprehension development regarding use of various types of fibers and yarns.

	Max. Marks: 25+75	Min. Passing Marks: 40
	Total No. of Lectures-Tutorials-Practical (in L-T-P; 3-1-	
Unit	Topics	No. of Lectures
1	Basics of textile and clothing     Scope and importance of textile and c     Importance and function of clothes are choices     Terminologies used in textile and clothes.	d factors affecting clothing
11	<ul> <li>Yarn: definition and basic concepts, t</li> <li>Manufacturing process: Mechanical s Spinning</li> <li>Yarn numbering system-count, denied</li> <li>Twists in yarns, Textured yarns, Fibe</li> <li>The effect of yarn on the finished fab</li> </ul>	pinning and Chemical  Tex blends

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**Core Compulsory** 

ш	Definition and Classification of textile fibers     History, manufacture, properties (physical, chemical andmicroscopic) and importance of following textile fibers:     Natural Fibers:     Protein: wool, silk     Cellulose: cotton,     linen     Mineral: Asbestos	15
IV	Man-made/Synthetic Fibers:     Cellulose: Rayon     Polyamide:     NylonPolyester     Acrylic and Mod     acrylicOlefin     Elastomeric     Mineral: Glass, Metallic	15
Practical	<ol> <li>Study of general physical properties of fibers</li> <li>Fiber identification: Identification of natural and manmade fibers appearance microscopic test, burning test and solubility test.</li> <li>Study of effect of various acids on fibers</li> <li>Study of effect of various alkalis on fibers</li> <li>Collection and study of various types of Yarns.</li> <li>Study of S twist and Z twist</li> </ol>	10

- Dantyagi, S. (1996). Fundamentals of Textiles and their Care. India: Orient Black swan Private Limited.
- 2. D'Souza, N. (2014). Fabric Care. New Delhi: New Age International Publishers.
- Greaves, P.H., Saville, B. P. (1995). Microscopy of textile fibres.bios Scientific Publishers
- Gohl, E., Vile sky, L. (2003), Textile Science: an explanation of fiber properties (2 edition), New Delhi.
- 5. Hollen, R. N., Saddler, J., & Langford, A. (1979). Textiles. Macmillan Publishers.

- Joseph, M. (1992), Introductory Textile Science. Sixth edition. California: Harcourt College Publishers
- Rastogi, D., & Chopra, S. (2017). Textile Science. India: Orient Blackswan Private Limited
- 8. Dr. Reena Khanooja, Vastra Vigyan ewam paridhan.
- 9. Dr. Reena Khanooja, Vastra Vigyan ke Siddhant,
- 10. Dr. Pramila Verma. Vastra Vigyan evam Paridhan,
- Dr Deepa Verma and Monica Tiwari (2021) vastra vigyan ,paeidhan evam parivarik sansadhan vywastha, Sahitya Prakashan

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Program/Class: Bachelor in Home science	Year: 1	Semester: II ( Paper 1)
Su	bject: Home Science	
Course Code: HSFN - 121	Course Title: Nutritio	n Science

- 1. To study the bio-molecules present in biological system of energy metabolism and its nutritional aspects.
- 2. To study the chemical/biochemical properties of carbohydrates, lipids, and proteins.
- 3. To study the functional role of proteins.

### Course outcomes: After completion of this course, a student will be able to

- Learn to examine the functional role of vitamins and minerals.
- understand the research techniques used in basic biochemistry and nutritional biochemistryresearch

Credits:6(4+2)	Core Compulsory
Max. Marks: 25+75	Min. Passing Marks: 40
Total No. of Lectures-Tutorials- L-T-P:	

Unit	Topics	
Carbohydrate:  Importance and classification. Structures of Monosaccharides, Disaccharides and Poly saccharides.  Carbohydrate metabolism, glycolysis, gluconeogenesis, glycogenesis, glycogenosis, blood sugar regulation, Inborn errors of metabolism  Factors affecting energy requirements. BMR, PAL, SDA  Digestion and absorption of Carbohydrates.		10
п	Lipid: Definitions and classification of lipids Types and properties of fatty acids Ketone bodies and ketosis & significance of cholesterol Digestion and absorption of Fat	

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111	Protein: Definition, classification and properties of amino acids Proteins quality: methods of assessment, Factors affectingprotein bioavailability Urea cycle Digestion and absorption of Protein.	10
IV	Vitamins – Functions, and biochemical role:  • Fat soluble vitamins – A, D, E and K • Water soluble vitamins – B and C Functions, dietary sources and clinical manifestations of deficiency/ excess of the following nutrients	10
V	Minerals:     Biological role of inorganic elements – iron, calcium, phosphorous, iodine, selenium and zinc     Functions, dietary sources and clinical manifestations of deficiency/ excess of the following nutrients: Minerals – Calcium, Iron, Phosphorus, Iodine, Selenium & Zinc Enzymes Enzymes: Classification and properties of Enzymes,     Water: electrolyte and acid base balance	10
Practical	Qualitative Tests for reducing and non-reducing sugars in foods     Estimation of ascorbic acid content of foods by titrimetric method     Identification of different types of tissues (permanent slides)     Identification of different types of blood cells -slide preparation     Monitoring of heart beat, pulse rate and blood pressure	

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- Deepa verma; (2016) Fal evam sabji parirakshan: Ayushman publication, New delhi
- Sehgal, S., Grewal, R.B., Kawatra, A. and Kruir, Y. (1997). Practical Aspects of Food Preservation. Directorate of Publications. Haryana Agricultural University, Hisar.
- Vijay K., (1999), Text book of Food, Storage and Preservation, Kalyani Publishers, New Dehi.
- Kalia, M. and Sood, S. (2010). Food Preservation and Processing. Revised Edition, Kalyani Publishers, New Delhi.
- Jood, S. and Khetarpaul, N. (2002). Food Preservation. Geeta Somani Agrotech Publishing Academy, Udaipur.
- Swaminathan M.-(1985) Essentials of food and nutrition Vol. I & II, Ganesh & Co. Madra.
- Gopalan C. et. al., (1991) Nutrition Value of Indian Foods, Indian Council of Medical Research, (1989).
- Nutrition Requirements and Recommended Dictary Allowance for Indian, New Delhi.
- FAO/WHO/UNO- Technical Report-Series 724 (1985) Energy and Protein Requirement Geneva.
- WHO Technical Report Series for Different Nutrition
- Lehninger A L, Nelson D L and Cox M M (2009). Principles of Biochemistry, 6th Ed. CBS Publishers and Distributors.

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rogram/Class: Bachelor in Home science	Year: 1	Semester: II ( Paper 2)
	Subject: Home Sci	енсе
Course Code: HSFRM - 122	Course Title:	Family Resource Management
se Objectives:	Course Title:	Family Resource Wallagemen

- Comprehend the fundamentals of resource management in changing scenario.
- Familiarize the students with the available resources, their uses and conservation.

## Course outcomes: After completion of this course, a student will be able to

- To utilize resources in a prudent manner.
- Understand the processes of management in a scientific manner in the use of resources,

Credits:6(4+2)	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks: 40	
Total No. of Leatures, Tutorials	-Practical (in hours per week):	

#### Total No. of Lectures-Tutori L-T-P: 3-1-2

Unit	Topics	No. of Lectures
Ī	Introduction to management:     Basic concepts of management, Purpose of Management     Obstacles to the improvement of management     Lack of awareness of management, Lack of awareness of resources, Failure to evaluate result of management, Lack of information, Seeking readymade answer to problems	15
п	<ul> <li>Management Process: planning, controlling, evaluation etc.</li> <li>Factors motivating management: Goal-definition, types and utility, Values- importance, sources of values, classifications, characteristic, changing values, Standards-definition, classification</li> </ul>	15
ш	Decision making: Role of decision making in management, Steps in decision making  Resources in the family: Classification, Factorsaffecting the use of resources, The family life cycle	15

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IV	Money Management: Family income, Expenditure, Family budget, Savings     Time management: Importance and Tools in time management     Work simplification- importance, steps, advantages and disadvantages, principles, techniques, Mundell's Classes of change in method of work	15
Practical	Application of management process to organize an event – planning, organization, evaluation.     Listing out human and non – human resources, listing community resources     Preparation of resource book.	

- Nickell& Dorsey: Management in Family Living
- Gross & Crandle: Management for Modern families
- Vargese: Introduction to Home Management
- Dr. Manju Patni. Vastra vigyan, paridhan ewam pariwarik sansadhan vayastha (Clothing, tixtiles and family resource management), Star Publications.
- Dr Deepa Verma and Monika Tiwari (2021) Vastra vigyan, paridhan ewam pariwarik sansadhan vayastha (Clothing, textiles and family resource management), Sahitya Prakashan
- Manju Patni, Grih Prabandhan
- Dr. Reena Khanuja, Grih Prabandha, Sadhan yayastha ewam aantarik sajja. Aust Sains

Program/Class: Bachelor in Home science	Year: I	Semester: II ( Paper 3)
Su	bject: Home Science	
Course Code: HSCEE - 123	Course Title: Home S Communication	Science Extension Education and

- Gain knowledge on the need and importance of extension education and its significance in exchange of information
- Scope and importance of Home Science Extension Education
- Acquire knowledge on the extension models and approaches

### Course outcomes: After completion of this course, a student will be able to:

- · Understand about extension techniques
- Able to extend knowledge in rural and urban areas.

	Credits:6(4+2)	Core Compulsory	
Max. Marks: 25+75		Min. Passing Marks: 40	
	Total No. of Lectures-Tutorials-Practical (i	in hours per week): L-T-P: 3-1-2	
Unit	Topics		No. of Lectures
1	Concept, Meaning, origin, hist	ory and importance of	15
	Extension Education with special re     Principles, scope, Goals, objective     Extension Education     Home Science Education a     Theinterdisciplinary role of Home Science Sc	s and philosophy of empowerment,	
п	History and scope of Home science     Extension worker- Role and Quality     extension worker     Types of Education, differences to     and non-formal education ,Characteristics, Characteristics, Characte	between formal, informal	15

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ш	Teaching Learning process: Meaning and Definition of Teaching, Learning, Learning experience and Learning situation, Elements of learning situation and its characteristics. Principles of learning and their implication forteaching.      Motivation, needs, cone of experience	10
IV	<ul> <li>Concept of development communication</li> <li>Meaning, scope, importance, nature, level and purpose of communication in development</li> </ul>	10
v	Communication process- concept, importance and elements     Theories and models of communication     Methods of communication to reach individuals     ✓ Individual, Group and Mass methods: types and characteristics, Selection, preparations, use and evaluation of the above methods	10
Practical	Interaction with villagers and understand the felt and unfelt need  Visit to a community organization/women development and understand the organizational structure and Interact with the staff and understand their functions  Use Supportive techniques – secondary sources, direct observation, and semi structured interviews, case studies and stories, drama, games, role play, workshops etc. as per the situation  Develop common information materials	

- Reddy A: Extension Education, Bapatia, India, Sri Laxmi Press
- WHO- Education for Health
- Gorges, Alan Teaching Adults in Extension Education
- Ray, G. L. (2003), Extension Communication and Management. Kalyani Publishers.
- Dahama, O.P. and Bhatnagar, O.P. (2003). Education and Communication for Development. Oxford and IBH Publishing Co. Pvt. Ltd.
- Sandhu, A.S. (1993) Textbook on Agricultural Communication: Process and Methods. Oxford and IBH Publishing Co. Pvt. Ltd.
- Manju Patni, Prasaar Siksha ewam sanchar
- Huma Zaidi. Introduction To Home Science. Omega Publications

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Program/Class: Bachelor in Home science	Year: II	Semester: III ( Paper 1)
S	ubject: Home Science	
Course Code: HSFN - 211	Course Title: Nutritie	on During Life Cycle

- Understanding the basic concept of balance diet, principles of meal planning, food pyramid.
- Acquire knowledge about the nutritional needs of an individual through the life cycle.
- Competent in calculating nutritive value of food product.

Credits:6(4+2)

### Course outcomes: After completion of this course, a student will be able to:

- Gain knowledge of nutrition consideration, guidelines, food selection for different age groups, activity levels and income groups.
- Able to provide balanced meal to different age groups and physiological conditions.

Max. Marks: 25+75		Min. Passing Mark	s: 40
	Total No. of Lectures-Tutorials-Practic P: 3-1-2	cal (in hours per week): L-T-	
Unit	Topics		No. of Lectures
1	<ul> <li>Basic concepts and importance meal planning: Factors affecting meal planning. Dietary guidelines for Indians</li> <li>Hormonal and Physiological changes. RDA and selection of food during pregnancy and lactation.</li> </ul>		15
11	<ul> <li>Complications of pregnancy and the impact of nutrition on the outcome of Psycho-physiology of lactation; in maternal needs during lactation, con mature human milk.</li> </ul>	f pregnancy. ilk synthesis and secretion,	15
ш	<ul> <li>Nutrition during Infancy- on physical Weaning and supplementary food common ailments in infancy</li> <li>Nutrition during childhood: Growth guidelines &amp; nutritional concerns, R Infants&amp;Preschool children,</li> </ul>	s. Nutritional disorders and standards, nutritional	15

Core Compulsory

	<ul> <li>Nutritional guidelines, RDA and selection of food for School children &amp;Adolescents</li> <li>Nutrition during the adult years and old age.: RDA, sex and</li> </ul>	15
IV	different activities, food selection	
	Use of Food Composition Table and food exchange list for meal planning	
	Planning and preparation of diets for	
	a. Pregnant and Lactating woman	
	b. Weaning food	
	c. Preschool child	
Practical	<ul> <li>d. School age child and adolescents</li> </ul>	
	<ul> <li>e. packed lunches for preschoolers and school children, adolescent boys and girls,</li> </ul>	
	f. Young adult	
	g. Elderly	
	<ul> <li>Sensory evaluation of all the developed products</li> </ul>	

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- Seth V and Singh K (2006). Diet Planning through the Life Cycle: Part 1 Normal Nutrition. APractical Manual, Elite Publishing House Pvt. Ltd. New Delhi.
- Gopalan C, Rama Sastri BV, Balasubramanian SC (1989) Nutritive Value of Indian Foods.
- National Institute of Nutrition, ICMR, Hyderabad.
- 4. Khanna K, Gupta S, Seth R, Passi SJ, Mahna R. Puri S (2013). Textbook of Nutrition and Dietetics. Phoenix Publishing House Pvt. Ltd.
- 5. Wardlaw GM, Hampi JS, DiSilvestro RA (2004). Perspectives in Nutrition, 6th edition. McGraw Hill.
- 6. ICMR (2011) Dietary Guidelines for Indians. Published by National Institute of Nutrition, Hyderabad.
- 7. ICMR (2010) Recommended Dietary Allowances for Indians. Published by National Instituteof Nutrition, Hyderabad.
- 8. Chadha R and Mathur P Eds. Nutrition: A Lifecycle Approach. Orient Blackswan, New
- 9. Dr. Anita Singh, Advance Poshan ewam manav Vikas,
- 10. Srivastava/ Agnihotri, Unnat Poshan ewam manav vikas
- 11. Dr. lalita Sharma, Matra evam Shishu poshan
- 12. Dr Deepa Verma and Dr Rajeshwari Pandey (2021) Ucch poshan ewam manav vikas (Advance Nutrition and human development), Sahitya Prakashan Sudy Upwal-

Program/Class: Bachelor in Home science	Year: 11	Semester: III ( Paper 2)
	Subject: Home Sci	ence
Course Code: HSCA - 212	Course Title: Methodology	Computer Application and Research

- To understand the role of statistics and computer applications in research.
- To apply statistical techniques to research data for analyzing and interpreting data meaningfully.

Course outcomes: After completion of this course, a student will be able to

- Apply statistical techniques in research.
- Know the importance of computer applications in research.
- Analyzing and interpreting data in research.

Credits: 6(4+2)	Core Compulsory
Max. Marks: 25+75	Min. Passing Marks: 40
	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

#### Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 3-1-2

Unit	Topics	No. of Lectures
1	Fundamental of computer: History, Generation of computer, language, Components application of computers, Operating system and internet.	
11	Experimental designs: Completely randomized design, Randomized block design, Latin square design, Factorial design; Trend Analysis.	15
111	Social research- concept, meaning, scope and importance types and classification     Sampling- Concept, Techniques, Principles and Limitations of sampling      Data collection tool and techniques- survey, interview, questionnaire etc.     Report writing	15

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ıv	Statistics – concept, meaning, scope and importance     Some common statistical tests – Measures of central	15
• 7	tendency, Measures of variability dispersion etc.	

- Garrett, Henry E (1971). Statistics in Psychology and Education. David Heleyand Co.
- Mukherjee, R.(1989): The Quality of life: Valuation in Social Research, Sage publications, New Delhi.
- Edwards. Experimental design as Psychological Research.
- Kerlinger: Foundation of Education Research.
- SPSS/PC for the IBM PC/XT, SPSS Inc.
- Suggestive digital platforms web links- Swayam Portal; <a href="http://heecontent.upsdc.gov.in/Home.aspx">https://heecontent.upsdc.gov.in/Home.aspx</a> <a href="https://ecourseonline.iasri.res.in/course/view.php">https://ecourseonline.iasri.res.in/course/view.php</a>

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Program/Class: Bachelor in Home science	Year: li	Semester: III ( Paper 3)
	Subject: Home Sci	ence
Course Code: HSCT - 213	Course Title:	Basics of Clothing Construction

- Understanding fundamentals of Clothing Construction
- Learning terms and terminologies used in clothing construction
- Development of ability for selection of fabrics
- Acquiring practical knowledge about construction of some basic garments

### Course outcomes: After completion of this course, a student will be able to

- · : Development of ability for selection of fabrics
- Acquiring practical knowledge about construction of some basic garments

Credits:6(4+2)	Core Compulsory
	Min. Passing Marks: 40
Max. Marks: 25+75	With Passing Frances

#### Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 3-1-2

Unit	Topics	No. of Lectures
I	<ul> <li>Basic terminologies used in clothing construction</li> <li>Equipment's and supplies used in clothing construction, their maintenance, and problems faced remedies with specific reference to sewing machine.</li> <li>Drafting and general principles of clothing construction,</li> <li>Selection of Fabrics, understanding width and right side of fabric, Arranging Stitching area, Layout of paper pattern, marking, cutting and stay stitching</li> </ul>	15
п	<ul> <li>Body measurement for different types of garments</li> <li>Preparation of fabrics for garment making, laying out of pattern, marking and cutting of different types of fabrics (like checks, floral prints, pile etc.)</li> <li>Interfacing, lining and interlining</li> </ul>	15
ш	<ul> <li>Different types of stitches, necklines, fasteners etc. used in clothing construction</li> <li>Fullness, gathers, pleats, tucks etc.</li> </ul>	15

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	Finishing of raw edges and disposal of fullness in clothing construction	
IV	<ul> <li>Especial considerations for sewing for babies and children</li> <li>Household Linen: Importance, factors affecting selection of various household linen, care and maintenance.</li> </ul>	15
Practical	<ul> <li>Sewing machine and its parts, common defects and remedy for them, equipment used for clothing construction.</li> <li>Sewing techniques: basic stitches, seams, fullness, gathers, pockets, tucks</li> <li>Fasteners in common use, their application to the garments</li> <li>Drafting, cutting and stitching of some common garments such as: Bib, apron, frock, blouse, petticont, suits etc.</li> </ul>	

- Holman, Gillian. (1997), Pattern Cutting Made Easy, BSP.
- Janace E. Bubonia. (2012), Apparel production terms and processes, Fairchild Books, New York.
- Anna Jacob: Art of Sewing UBSPD, New Delhi
- Bane A Tailoring, Mc Graw Hill Publication
- Reader's Digest: Complete Guide to Sewing, Association inc New York
- Doongaji&Deshpandey: Basic Process and Clothing Construction, New Delhi, NewRaj Book Depo
- Dr Deepa Verma and Monika Tiwari (2021) Vastra vigyan, paridhan ewam pariwarik sansadhan vayastha (Clothing, textiles and family resource management), Sahitya Prakashan

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Program/Class: Bachelor in Home science	Year: li	Semester: IV ( Paper 1)
	Subject: Home Sci	ence
Course Code: HSFN - 221 Course Title: Food Preservation & Microbiole		Food Preservation & Microbiology

- To provide knowledge of microorganisms associated with foods and their origin and role;
- Knowledge of the factors that determine the presence, growth and survival of microorganisms in food.
- Knowledge of the main microbial groups involved in different food types and their prevention.

#### Course outcomes: After completion of this course, a student will be able to

- · Learn about different types of microbes, useful vs. harmful
- Learn different techniques of preservation.

Credits:6(4+2)	Core Compulsory
Max. Marks: 25+75	Min. Passing
	Marks: 40

#### Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 3-1-2

Unit	Topics	No. of Lectures
ī	<ul> <li>Importance and scope of food preservation and storage.</li> <li>Principles and methods of food preservation - drying and dehydration, use of high temperature, use of low temperature, foods as preservatives, use of chemicals, radiation, combination of above methods.</li> </ul>	15
	<ul> <li>Storage of common perishable, semi perishable and non perishable foods. Packaging and packing material, labelling of the product.</li> </ul>	
п	<ul> <li>Introduction to microbiology and its relevance to everyday life,</li> <li>General morphology of micro-organisms- general characteristics of bacteria, fungi, virus, protozoa and algae</li> <li>Growth of micro-organism- growth curve. Thermal Death Time</li> <li>Control of micro-organisms- Physical and chemical methods</li> </ul>	15

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m	<ul> <li>Microbial contamination and spoilage of different kinds of foods and their prevention:</li> <li>Cereal and cereal products, vegetables and fruits, Meat andfish, eggs and poultry, milk and milk products, canned foods</li> </ul>	15
IV	Food fermentation: definition and types (batch, fed batch and continuous)	15
Practical	<ul> <li>Market survey of raw and preserved foods.</li> <li>Drying of fruits and vegetables (blanched &amp; un-blanched) – Solar drying, Sun drying, oven drying.</li> <li>Domestic preservation of foods by freezing.</li> <li>Preparation of preserved products. Squash, crush, jams, jellies, marmalade, preserves, murabbas, pickles with and without oil, chutneys, ketchup, sauces, candies.</li> <li>Demonstration on storage of food grains and canning and bottling of fruits and vegetables.</li> <li>Visits to food processing and preservation units, canning and bottling units, grain storage institute, dairy plant and FCI godown.</li> </ul>	

- Deepa verma; (2016) Fal evam sabji parirakshan; Ayushman publication, New delhi
- Sehgal, S., Grewal, R.B., Kawatra, A. and Kaur, Y. (1997). Practical Aspects of Food Preservation. Directorate of Publications. Haryana Agricultural University, Hisar.
- Vijay K., (1999), Text book of Food, Storage and Preservation, Kalyani Publishers, New Dehi.
- Kalia, M. and Sood, S. (2010). Food Preservation and Processing. Revised Edition, Kalyani Publishers, New Delhi.
- Jood, S. and Khetarpaul, N. (2002). Food Preservation. Geeta Somani Agrotech Publishing Academy, Udaipur.
- Food Microbiology by Stanier
- Microbiology by Frazier
- Textbook of microbiology by Pclezar

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Program/Class: Bachelor in Home science	Year: 2	Semester: IV( Paper 2)
	Subject: Home Science	
Course Code: HSEE - 222	Course Title: Entrepr	eneurship

- · Development of concept of Enterprise and Entrepreneurship
- · Development of Understanding of scope of Entrepreneurship
- Development of Understanding of process of Emrepreneurship
- Development of Understanding of support institutions to promote Entrepreneurship

#### Course outcomes: After completion of this course, a student will be able to

- Develop Understanding of process of Entrepreneurship
- Develop Understanding of support institutions to promote Entrepreneurship

Credits:6(4+2)	Core Compulsory	
Max. Marks: 25+75	Min. Passing	
	Marks: 40	

#### Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 3-1-2

Unit	Topics	No. of Lectures
1	Definition and concept of Entrepreneurship, difference between Wage Employment, self-employment and Entrepreneurship     Role of entrepreneurs in economic development of India.     Role of women entrepreneurs: opportunities and problems	15
11	Qualities of personality of an entrepreneur     Process of Enterprise development and management     Process of initiating enterprise.     Identification of opportunity     Preplanning of formalities     Preparation of preliminary project report	20
ш	<ul> <li>Types of entrepreneurs, functions and characteristics of entrepreneurs, importance of entrepreneurial development, and process of entrepreneurship development.</li> </ul>	15
īv	Government policies and schemes for entrepreneurship development among farm women.	10

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	Project Planning, formulation and report preparation (individual/group exercise)
Practical	Interaction with entrepreneurs (industry visits)     Visit to small scale industries.     Interaction with successful entrepreneurs.     Visit to financial institutions and support agencies.  Preparation of project proposal for funding by different agencies.

- Kaulgud A Entrepreurship management
- Ormerod A Textile Project Management, the Textile Institute, 1992.
- SangramKeshariMohanti Fundamentals & Entrepreneurship: 2009: PHI learning.
- Vasanth Desai the dynamics of entrepreneurial development & Management: 6thedition Himalaya publish house. 2009.
- Franklin, T. Principles of Management, AITBS. 2002

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Program/Class: Bachelor in Home science	Year: 11	Semester: IV( Paper 3)
3+1	Subject: Home Science	
Course Code: HSCT - 223	Course Title: Fabric C	Construction and Finishing

- Understanding techniques and processes involved in fabric construction
- Understanding the principles and processes of finishing fabrics
- Understanding applications and use of various types of fabric finishes for specific purposes

#### Course outcomes: After completion of this course, a student will be able to

- · Identify Finishes of Fabric.
- · Construct Fabric.

	Credits:6(4+2)	Core Compulso	ry
Max. Marks: 25+75		Min. Passing Marks: 40	
	Total No. of Lectures-Tutorials L-T-P		
Unit	Topic	40	No. of

Unit	Topics	No. of Lectures
1	Fabric construction     Structure and working of handloom     Types of weaves and Weaving process	10
11	Other processes of fabric preparation- Felting, Braiding, Netting, Knitting, Bonding, Lace etc.	10
111	Definition, Classification and purpose of finishes     Finishing of Textiles     Bleaching     Mercerization     Weighing and sizing     Singeing     Beetling     Calendaring	15
	Calendaring     Tentering	

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- Corbman, P.B. (1983). Textiles: Fibre to Fabric. McGraw-Hill Publishers.
- Dantyagi, S. (1996). Fundamentals of Textiles and their Care. India: Orient Black swan Private Limited.
- D'Souza, N. (2014). Fabric Care. New Delhi: New Age International Publishers.
- Gohl, E., Vile sky, L. (2003), Textile Science: an explanation of fiber properties (2 edition), New Delhi.
- Hollen, R. N., Saddler, J., & Langford, A. (1979). Textiles. Macmillan Publishers.
- Joseph, M. (1992), Introductory Textile Science. Sixth edition, California: Harcourt College Publishers
- Rastogi, D., & Chopra, S. (2017). Textile Science. India: Orient Blackswan Private Limited.
- Dr Deepa Verma and Monika Tiwari (2021) Vastra vigyan, paridhan ewam pariwariksansadhan vayastha (Clothing, textiles and family resource management), Sahitya prakashan

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Program/Class: Bachelor in Home science	Year: 111	Semester: V( Paper 1)
,	Subject: Home Science	
Course Code: HSFN - 311	Course Title: Therapeutic Nutrition	

- Knowledge of principles of diet therapy
- Understanding the various therapeutic modification of normal diet
- Ability to counsel the persons and individuals about dietary intakes and modifications

### Course outcomes: After completion of this course, a student will be able to

- Know about therapeutic diets.
- To treat a patient by therapeutic modification of diet

<ul> <li>To treat a patient by therapeutic modific</li> </ul>		
Credits:6(4+2)	Core Compulsory -Group 1 Min. Passing Marks: 40	
Max. Marks: 25+75		
Total No. of Lectures-T	utorials-Practical (in hours per week):	

Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 3-1-2

Unit	Topics	No. of Lectures
1	Introduction to Diet Therapy  Basic concepts of diet therapy, role of dietitian  • Determination of nutritional requirements: recommended dietary allowance, caloric consumption unit,  • Therapeutic modifications of the normal diet, types of diets  • Methods of feeding (Normal and artificial)	15
11	Common diseases/ disorders     Actiology, symptoms and dietary management in acute and chronic fevers. Typhoid, influenza, tuberculosis     Etiology, clinical features and dietary management of: GIT disorder- Peptic ulcers, Diarrhea, constipation, pancreatitis Underweight, overweight and obesity	15
111	Lifestyle disorders     Etiology, clinical features and dietary management of: Diabetes,     Cardiovascular disease Hypertension, Hypothyroidism	15

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	Chronic diseases	15
IV	<ul> <li>Etiology, symptoms and dietary management in liver diseases.         Hepatitis, jaundice, cirrhosis of liver, cholilethiasis.</li> <li>Functions of the kidney, nephritis, urinary calculi, types of renal failure, dialysis</li> <li>Etiology, symptoms and dietary management in Arthritis, osteoporosis, and Gout.</li> </ul>	
	Visit to hospitals with therapeutic kitchen setup	
	1. Planning of different types of diets: Bland, liquid, semi-	
	liquid.Soft and normal  2. Planning and preparation of diets in-	
	a. Overweight and underweight	
	b. Fevers	
	<ul> <li>Constipation and Diarrhea, ulcers</li> </ul>	
	d. Jaundice and other liver diseases	
Practical	e. Diabetes mellitus, Hypertension and coronary heart	
	diseases. f. Renal diseases	
	g. Gout	
	h. Arthritis	
	<ol> <li>Planning and preparation of diets for pregnant and lactating women.</li> </ol>	
	<ul> <li>Planning and preparation of diets for special occasion.</li> <li>Birthdays, festivals, packed lunches.</li> </ul>	

#### RECOMMENDED READING:

- Khanna K, Gupta S, Seth R, Passi SJ, Mahna R. Puri S (2013). Textbook of Nutrition and Dietetics. Phoenix Publishing House Pvt. Ltd.
- Stacy Nix (2009). William's Basic Nutrition and Diet Therapy, 13th Edition. Elsevier Mosby.
- ICMR (1989) Nutritive value of Indian Foods. National Institute of Nutrition, Indian Council of Medical Research, Hyderabad.
- ICMR (2011) Dietary Guidelines for Indians A Manual, National Institute of Nutrition, Indian Council of Medical Research, Hyderabad.
- Seth V and Singh K (2007). Diet Planning through the Life Cycle Part II: Diet Therapy. A Practical Manual, 4th edition. Elite Publishing House Pvt. Ltd.

Prograt	n/Class; Bachelor in Home science	Year: 111	Semester: V(	Paper 2)
	Sub	ject: Home Science		
Co	ourse Code: HSFN - 312	Cours	e Title: Food Science	
Course Obj		-	SO SOURCE SE	87 - 07197
and	in knowledge of nutritional con Istorage guidelines, acquainted with the different th		ood commodities, its	wise selection
<ul> <li>Un</li> <li>Acc</li> </ul>	comes: After completion of this cou derstand the basic concept of foo quire brief and coherent knowled towabout therapeutic diets.	d science and its multi	disciplinary nature.	in cookery
	Credits:6(4+0)	Core Comp	ulsory -Group 1	
Max. Marks: 25+75 Min. Passing Marks		arks: 40		
	Total No. of Lectures-T	utorials-Practical (in h L-T-P: 3-1-0	ours per week):	
Unit	Topics		No. of Lectures	
1	<ul> <li>Introduction to food science and its multidisciplinary approach</li> <li>Cereals; Functional properties: gelatinization, dextrinization &amp; factors affecting the same, Effect of processing on nutritive value of cereals</li> </ul>		15	
n	<ul> <li>substitutes, Role in cook</li> <li>Pulses: Effect of proces</li> <li>nutritional factors of pul</li> </ul>	substitutes, Role in cookery, Deterioration of fats/oils     Pulses: Effect of processing on nutritive value, Antinutritional factors of pulses.		15
ш	Meat, Fish and poultry: Nutritional contribution in diet, brief description of ageing, tenderization and curing     Egg: Structure, composition and nutritive value, storage,		15	

evaluation of quality of egg, role of egg in cookery.

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Food additives. Preservatives, coloring agents, antioxidants, emulsifying agents, leavening agents and stabilizing agents	IV	<ul> <li>Fruits and vegetables: Nutritional contribution, effect of processing on nutritive value and different pigments of Fruits and vegetables.</li> <li>Food additives. Preservatives, coloring agents, antioxidants, emulsifying agents, leavening agents and stabilizing agents</li> </ul>
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#### RECOMMENDED READINGS

- Khanna K, Gupta S, Seth R, Mahna R, Rekhi T (2004). The Art and Science of Cooking: APractical Manual, Revised Edition. Flite Publishing House Pvt Ltd.
- Raina U, Kashyap S, Narula V, Thomas S, Suvira, Vir S, Chopra S (2010). Basic FoodPreparation: A Complete Manual, Fourth Edition, Orient Black Swan Ltd.
- Bamji MS, Krishnaswamy K, Brahmam GNV (2009), Textbook of Human Nutrition, 3rdedition, Oxford and IBH Publishing Co. Pvt. Ltd.

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- · Srilakshmi (2007). Food Science, 4th Edition. New Age International Ltd.
- Wardlaw and Insel MG, Insel PM (2004). Perspectives in Nutrition, Sixth Edition.
   Mosby, Chadha R and Mathur P (eds), Nutrition: A Lifecycle Approach. Orient Blackswan, Delhi.2015 P13

Program/Class: Bachelor in Home science	Year: III	Semester: V( Paper 1)
	Subject: Home Science	
Course Code: HSCD - 313	Course Title: - Early Childhood Care and Educati	

- Explain the need and importance of studying childhood as a distinctive stage of the life-span.
- · Explain the importance of early childhood years and significance of intervention programs forearly childhood development.

#### Course Outcomes: After completion of this course, a student will be able to

- Describe the historical views and theories on childhood
- Describe the characteristics, needs and developmental tasks of infancy, early childhood

	Credits:6(4+2)	Core Compulsory -Grou	ip 2
Max. Marks: 25+75		Max. Marks: 25+75 Min. Passing Marks	40
	Total No. of Lectures-Tutorials-Prac L-T-P: 3-1-3		
Unit	Tonics		No. of
Unit	Topics		Lecture

		2200101
I	<ul> <li>Significance and objectives of Early Childhood Care and Education.</li> <li>Historical Overview of ECCE:</li> <li>Objectives of ECCE: ECE Programme- Balwadi, Anganwadi, Nursery Schools, Kindergarten, Montessori, Laboratory Nursery School. ECCE Programme- LC.D.S. and Mobile Creche, Play Group, Crèche and Day Care</li> </ul>	15
11	<ul> <li>View of Educationist and Philosophers - Comenius, Rousseau, Pestalozzi, Frobel, McMillan Sisters. Dewey and Montessori.</li> <li>Psychological- Recognition of Effect of experiences in early childhood years, opportunities for expression of anger, tension through creative activities and dramatic play for proper mental hygiene.</li> <li>Cognitive approach - Piaget's contribution to curriculum for cognitive development.</li> </ul>	20
Ш	<ul> <li>ECCE in India – Contribution of Rabindra Nath Tagore,         Gandhiji, Tarabai Modak</li> <li>Recent Development: Policies, Institutions and contributions of NGOs</li> </ul>	10

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IV	<ul> <li>Programme planning in ECE- Steps and types of programme planning.</li> <li>Preparing equipments lists for indoor and outdoor activities Parental involvement in early childhood education and care programmes.</li> </ul>	15
Practical	<ul> <li>Developing and conducting activities to promote all the developments i.e. physical, motor, cognitive, language, socio-emotional and personality.</li> <li>Prepare picture book/story/Resource book for infants and toddlers.</li> <li>Planning pre-reading and writing skills. Collection of traditional stories and songs.</li> <li>Plan activities/materials to promote mathematical concepts and science experience.</li> <li>Visit, observe and submit report to early childhood education center and recording observation, créches, balwadis/aganwadi and preparatory schools.</li> </ul>	

#### RECOMMENDED READINGS

- Agarwal, J. C. (2007). Early childhood care and education: principles and practices.
   NewDelhi: Shipra
- Agarwal, S.P. and Usmani, M. (2000). Children's education in India: from vedic a. times totwenty first century New Delhi: Shipra.
- Canning, N. (2010) Play and practice in the early years: Foundation stage. New Delhi:Sage.
- Fleer, M. (2010). Early learning and development: Cultural-historical concepts in play.
   Cambridge: Cambridge University Press.

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Year: 111	Semester: V( Paper 2)
Subject: Home Science	
14 Course Title: Extension Training Management	
	abject: Home Science

- Understanding the basic concept of training and its importance
- Knowledge on various training methods
- Understanding concept of adult learning

### Course outcomes: After completion of this course, a student will be able to

- Understand need of adult education.
- Expertise in training methods of extension education.

Credits:6(4+0)	Core Compulsory –Group 2 Min. Passing Marks: 40	
Max. Marks: 25+75		
Max. Marks, 25175		

#### Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 3-1-0

Unit	Topics	No. of Lectures
ı	<ul> <li>Training: Concept, need, definition, importance. Identification of training need. Types of Training.</li> <li>Training process, different phases of training and its management.</li> <li>Qualities of good trainer- communications skills, training skills, motivational skills and handling difficult situations.</li> </ul>	15
11	<ul> <li>Adult learning, characteristics of adult learner.</li> <li>Facilitation skills in training, problem and prospects of training</li> </ul>	15
ш	Designing training module: Basic guidelines, steps in moduledesigning.     Training methods- seminar, conference, symposium, workshop	15
v	<ul> <li>Training evaluation: Objectives, principle, steps and indicators of training evaluation. Important training institutions in India</li> </ul>	15

#### RECOMMENDED READINGS

- Gupta, C.B. (2001). Human Resource Management. Sultan Chand and Sons.
- Dahama, O.P. and Bhatnagar, O.P. (2003). Education and Communication for Development. Oxford and IBH Publishing Co. Pvt. Ltd.
- Lynton, R.P. and Pareek, V. (2008). Training for Development. Vistaar Publications.
- Narwani, G.S. (2002). Training for Rural Development. Rawat Publication.

Saxena, J.P. and Kakkar, A.T. (2000). Training and Development.

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Program/Class: Bachelor in Home science	Year: 111	Semester: V( Paper 1)
	Subject: Home Science	
Course Code: HSFRM - 315	Course Title: Consumer Economics	

- · To learn about the family income.
- · To have a fair knowledge about the saving methods
- To know about the consumer rights and laws

#### Course outcomes: After completion of this course, a student will be able to

- · Understand consumer rights.
- Prepare a family budget according to their need and income.

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	Credits:6(4+0)	Core Compulsory -Group 3
	Max. Marks: 25+75	Min. Passing Marks: 40

Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 3-1-0

Unit	Topics	No. of Lectures
ı	<ul> <li>Meaning and scope of family finance management.</li> <li>Family - definitions, characteristics, its types and factors affecting family income and expenditure.</li> </ul>	15
	<ul> <li>Income concepts: productive income, hidden income, money income, real income, psychic income</li> </ul>	
11	<ul> <li>Budgeting - steps and types of family budget, Engel's law of consumption. Account keeping and record keeping.</li> <li>Planning for family's financial security - savings, investments, insurance, taxation and will.</li> </ul>	15
111	Consumer – definition and role.     Consumer problems in rural and urban areas.     Consumerism - its growth, consumers right and responsibilities.	15
IV	Unfair trade practices - adulteration, faulty weights and measures etc., Sources of consumer information - advertisements, labels, packages etc.     Consumer protection and welfare, Consumer protection laws.	15

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#### RECOMMENDED READINGS:

- Bhargava, Bela. (2005). Family Resource Management and Interior Decoration. Univ.book home Pvt. Ltd. Jaipur.
- Khetarpaul, N and Grover, I. (2004). Consumer Guide for Home Maker Udaipur: Agratech Pub Academy.
- Maneesha Shukul and Veena Gandotra. (2006). Home Management and Family Finance.
   Dominant Publishers and Distributors, New Delhi.
- Mann, M.K. (2004) Home Management for Indian Families, Kalyani Publishers, NewDelhi
- Rice, Nickel and Tucker. (1976). Management in Family Finance. John Wiley and Sons., New York
- Seetharaman P, Sethi M. (2002). Consumerism Strategies and Tactics. CBS Publishersand Distributors. New Delhi.
- Tiwari, O.P. (2000). Consumer Protection Act Allahabad: Allahabad Law Agency.
- Verghese, M.N. Ugale, W. N. and Srinivasan, K. (1997). Home Management, New Delhi:New Age International.

Program	m/Class: Bachelor in Home science	Year: III	Semester: V( Paper 2)
	DESCRIPTION OF THE PROPERTY OF	Subject: Home Science	
C	ourse Code: HSCT - 316	Course Title: Advance	Garment Construction
• Ga	ejectives: derstanding the scientific app ining knowledge about use an tting acquainted about pattern	d handling of various typ	
• Lea	comes: After completion of this irn the use of components of a irn and practice about fitting	garment construction.  and common fitting prob	lems.
	Credits:6(4+2)	Core Compt	Isory -Group 3
	Max. Marks: 25+75		Min. Passing Marks: 40
	Total No. of Lectures-Tuto	rials-Practical (in hours pe	r week): L-T-P: 3-1-2
Unit	10.001	Topics	No. of Lecture
1	Fabrics for Garment     Handing of different		
п	preparation  Pattern Making: Tech	mponents and trims ills, Braids, Tassel, Pomp nniques of pattern making tterns for different styles.	
111	<ul> <li>disadvantages</li> <li>Fitting</li> <li>Principle of fitting.</li> </ul>	quirements, technique, ad	

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Common fitting problems and remedial methods.

IV	Commercial Patterns: concept, Common fitting problems and remedial methods     Embroidery stitches: basics of embondery and types	15
Practical	<ul> <li>Embroidery stitches- making a display file of various embroideries</li> <li>Make samples of different types of stitches</li> <li>Preparation of two consumer's items using contemporary embroidery.</li> <li>Pattern making: variation in collars, sleeves, yokes</li> <li>Garments: Gathered frock with Peter pan collar, Salwar kameez, Saree blouse, Nightie</li> <li>Drafting and construction of following garments for women, men and children fancy frock salwar/ pyjama/pyjami kurta (gents)/kameez (ladies) night dress/ gown</li> <li>Preparation of Yoke, gather, pleats, tucks, shirring, smocking, trimmings</li> </ul>	

#### RECOMMENDED READINGS:

- Anna Jacob: Art of Sewing UBSPD, New Delhi
- Bane A Tailoring, Mc Graw Hill Publication
- Reader's Digest: Complete Guide to Sewing. Association inc New York
- Majumdar&Vatsala: Textbook of Clothing Construction, ICMR
- Carr& Latham: The Technology of Clothing Manufacture, Blackwell Science
- Doongaji&Deshpandey: Basic Process and Clothing Construction. New Raj Book Depot, New Delhi
- Jindal R: handbook of Fashion Designing
- Frings GS fashion from concept to consumerPrentice Hall Inc New Jersey, United States of America

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Program/Class: Bachelor in Home science	Year: III	Semester: V( Research work)
	Subject: Home Science	
Course Code: HSRP - 317	Course Title: Resear	ch project - I

- Learns to communicate with community around.
- Becomes sensitized to problems being faced in community Increases awareness of candidate.

## Course outcomes: After completion of this course, a student will be able to:

Learns to prepare a survey/interview schedule.

	Credits:6(0+4)	Core Compulsory –Group 3	
	Max. Marks: 25+75	Min. Passing Mark	s: 40
Unit	Торіс	s	No. of Lectures
1	Candidate has to explore the surround in any one of the following. 12 It is services/ Market / Dairy/ Agricultu Nursery School/ Hospital/ Fith Boutique/Balwadi/ Youth center/ Pri age home)/ Divang school/ Mentall panchayat / School councellor/ Dyeir embroidery or food processing unit / available/ Industry producing consume	vey of community services surrounding living area of candidate The adidate has to explore the surroundings and study / identify problem any one of the following. 12 It many include Anganwadi/ Health rices/ Market / Dairy/ Agricultural farmland / NGO / Crèche/ sery School/ Hospital/ Fitness center/ Diet councellor/ atique/Balwadi/ Youth center/ Primary school/ Vridha Ashram(old home)/ Divang school/ Mentally challenged institution/ Village chayat / School councellor/ Dyeing or printing Unit/ Cottage level proidery or food processing unit / SHGs/ Bank schemes/ Subsidies	
п	Seek permission to carry the visits, Pla developing an understanding		15
Ш	Develop a tool for conducting a survey of the selected area and collect data from the area/ seek permission to conduct short training in the area.		
ıv	A detailed Report to be prepared and s	submitted.	15



Year: 111	Semester: VI ( Paper 1)
ject: Home Science	
Course Title: Commu	nity Nutrition
	ject: Home Science

- Develop basic understanding of concept of community nutrition.
- Understand the Multifaceted nature, causative factors and preventive strategies of commonnutritional problems of India.

Course outcomes: After completion of this course, a student will be able to

 Learn Direct and Indirect Nutritional assessment methods for individual, family and community.

Get insight of various aspects of nutrition education.

		Credits:6(4+0)	Core Compulsory -Group 1	
		Max. Marks: 25+75	Min. Passing Marks:	: 40
Unit	nit Topics		No. of Lectures	
1	•	Community nutrition: Definition and importance, Common nutritional deficiencies; Etiology, prevalence, clinical features, prevention and management of Protein Energy Malnutrition (PEM): Marasmus, Kwasiorkor, vicious cycle of malnutrition. Micronutrient deficiencies such as Vitamin A deficiency, iron deficiency Anemia, Iodine Deficiency Disorders, flurosis		15
11	•	Assessment of nutritional status: biochemical and clinical examina methods – vital statistics	Direct methods – anthropometry, tion, dietary surveys and Indirect	15
Ш	•	Nutrition education: Meaning, obje and methods of nutrition educa-	ctive. importance, principles ation.	15
IV	٠	Organizing nutrition education prog National programmes and role of r In improving nutritional status of SNP, ANP, FAO, WHO, UNICEF,	f the community - ICDS, MDM,	15

#### RECOMMENDED READINGS:

- 1. Wadhwa A and Sharma S (2003). Nutrition in the Community- A Textbook. ElitePublishing Pvt Ltd, New Delhi.
- 2. ICMR (1989) Nutritive value of Indian Foods. National Institute of Nutrition, IndianCouncil of Medical Research, Hyderabad.
- 3. ICMR (2011) Dietary Guidelines for Indians A Manual. National Institute of Nutrition, Indian Council of Medical Research, Hyderabad.
- Understanding Nutrition: Whitney E.N. &Rolfes S.R. 8th Edition West/ Wordsworth.1999
- 5. Nutritional Research: Current Scenario and Future Trends Editor: K, Krishnaswamy, Oxford and IBH Publication Co. Pvt. Ltd., 2000 6)
- Nutritional Problems of India: Shukla P.K., Prentice Hall of India Pvt. Ltd., Delhi1982

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Program/Class: Bachelor in Home science	Year; III	Semester: VI ( Paper 2)
Subj	ect: Home Science	
Course Code: HSFN - 322	Course Title:	Food Service Management

- Knowledge of type of food services in INDIA
- Analysis of various resources required for food service establishments

Course outcomes: After completion of this course, a student will be able to:

Understanding characteristics of various food service outlets

	Credits:6(4+2)	Core Compulsory -Group 1	
	Max. Marks: 25+75	Min. Passing Marks	: 40
Unit	Topi	cs	No. of Lectures
1	Types of food service institutions,     Factors contributing to the growth of food service industry		15
п	Menu planning: Importance at menu planning, Menu plant service units     Food Purchase and Storage     Quantity Food production: St	nd types of menu, Factors affecting ning for different kinds of food andardization of recipes, quantity recipe adjustments and portion	15
Ш	<ul> <li>Financial management- Cost pricing, book-keeping, accour</li> <li>Personnel management- Policies benefits, trainings and development</li> </ul>	nting s, recruitment, selection, facilities,	15
IV	Sanitation, hygiene and safe Laws governing food serv Current issues	ety in food service establishment. vice establishments, legal issues.	15

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# Preparation and service of Hi teas/ lunches for special occasions and a formal lunch. Visit to a Food Service Establishments to study its planning and

Practical

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- Visit to canteen attached to hospital and dietary department cafeteria, 3-star hotel/restaurant. 5-star hotel / restaurant, industrial canteen
- Standardization of recipes suitable for fast food outlet, industrial canteen, hospitals, college hostel.
- Analyze the relationship between the purchased amount, edible portion and cooked weight of food stuffs.
- · Cost analysis of menu.
- Practical exercise on planning, preparation and service in a cafeteria, snack, bar fast food outlet. Management of cafeteria – preparation, costing and fixing of price for meal items.

#### RECOMMENDED READINGS:

- West B Bessie & Wood Levelle (1988) Food Service in Institutions 6th Edition Revised ByHargar FV, Shuggart SG, &Palgne Palacio June, Macmillian Publishing Company New York.
- SethiMohini (2005) Institution Food Management New Age International Publishers
- Knight J B &Kotschevar LH (2000) Quantity Food Production Planning & Management3rd edition John Wiley & Sons
- Philip E Thangam (2008) Modern Cookery for teaching and Trade Part I & II OrientLongmam
- Taneja S and Gupta SL (2001) Enterpreneurship development, Galgotia Publishing
- Dinesh Kumar, Food service and catering managemet.

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Program/Class: Bachelor in Home science	Year: 111	Semester: VI ( Paper 1)
S	ubject: Home Science	
Course Code: HSCEE - 323	Course Tide: Com	nunity Development & Education

- · Get acquainted with extension activities for community development
- Awareness on developmental programmes and schemes

#### Course Outcomes: After completion of this course, a strulent will be able to:

- · Learn the history of community development programs in India
- Gain knowledge of extension methods and approaches

	Credits:6(4+2)	Core Compulsory -Group 2	
	Max. Marks: 25+75	Min. Passing Marks	
Unit	Topics		No. of Lectures
1	<ul> <li>History of Community D steps and process, limital</li> </ul>	evelopment: Definition, objectives, tions and elements of community	15
	<ul> <li>Pre and post-independen Shriniketan rural reconst Marthandum project, Ga</li> </ul>	mmunity development worker ce development programmes- ruction, Gurgaon experiment, andhian constructive programme, Etawah ge service. Firka development scheme,	
п	<ul> <li>Schemes and programme SGSY, TYSEM, DWCR. other latest programmes</li> </ul>	s for community development-JRY, A, CRY, SITRA, MNREGA, ICDS and	15
m	<ul> <li>Participatory tools and Approaches</li> <li>People's participation and social mobilization in development</li> </ul>		15
v	<ul> <li>Adoption: meaning, de process, factor affecting process and constraints.</li> <li>Innovation-decision pro</li> </ul>	finition, stages of adoption adoption and innovation – decision access, types of innovation decision, novation, consequences of innovations.	15

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D	Visit of Local NGO     Analysis of different development programmes	
Practical	3. Exercise on PRA tools and techniques	

#### RECOMMENDED READINGS:

- S. Chandra, Guidelines for NGO Management in India (2003), Published by Kanishka Distributors, New Delhi
- D. Lewis, Management of Non Governmental Development Organization (2001), Second Edition, Published by Routledge, Newyork.
- A. Abraham, Formation and Management of NGOs (2003), Third Edition, Published by Universal Law Publishing Co. Pvt Ltd., New Delhi.
- Sundar, P. 2013, Business and Community: The Story of Corporate Social Responsibility in India, New Delhi, Sage Publication.
- Aggarwal, S.2008, Corporate Social Responsibility in India, Sage Publication Pvt. Ltd
- Ray, G.L. (2003) Extension Communication and Management. Kalyani Publishers. Fifth revised and enlarge edition.
- Dahama, O.P. and Bhatnagar, O.P. (2003). education and communication for development. Oxford and IBH Publishing Co. Pvt. Ltd.
- Sandhu, A.S. (1993) Textbook on Agricultural Communication: Process and Methods". Oxfordand IBH West B Bessie & Wood Levelle (1988).

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Program/Class: Bachelor in Home science	Year: III	Semester: VI (Paper 2)
	Subject: Home Science	
Course Code: HSCD - 324	Course Title: Theories	s of Human Development

- · Apply the theoretical approaches to work with human being across life span
- · Learn about the classic human development theories.
- Identify the biological and environmental factors affecting human development.

#### Course outcomes: After completion of this course, a student will be able to:

- · Develop professional attitude for working with human beings across life span
- Explain the need and importance of studying human growth and development across life span.

	Credits:6(4+0)	Core Compulsory -Group 2	
	Max. Marks: 25+75	Min. Passing Mark	cs: 40
Unit	1	Copics	No. of Lectures
1	Perspective of Human Dev     Development Theory and	elopment: Western and Indian velopment. Psychosexual Psychoanalytic Theory of Personality ocial Theory – Erik Erikson	15
11	Social Learning Theory –     Learning Theories – Watse	1.7	15
111	Cognitive Development Ti     Socio-Cultural theory of Ci	heory – Jean Piaget Tognitive Development – Vygotsky	15
v	<ul> <li>Kohlberg's Moral Judgem</li> <li>Ecological Theory – Urie I</li> </ul>	180AC (18132-0347C)	15 '

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#### RECOMMENDED READINGS:

- 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.
- 2. Feldman, R., & Babu, N. (2009). Discovering the life span. New Delhi: Pearson
- Kakar, S. (1998). The inner world. Psychoanalytic study of childhood and society in India, Delhi: Oxford University Press.
- 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.
- Keenan, T., Evans, S., & Crowley, K. (2016). An introduction to child development. Sage.
- Lightfoot, C., Cole, M., & Cole, S. (2012). The development of children (7thed.).NewYork: Worth Publishers.
- Santrock, J. (2017). A topical approach to life span development (9th ed.). New NY.: Mcgraw-Hill Higher Education.
- Singh, A. (2015). Foundations of Human Development: A life span approach. ND: Orient Black Swan.
- Walsh, B.A., Deflorio, L., Burnham, M.M., & Weiser, D.A. (2017). Introduction to Human Development and Family Studies. NY: Routledge

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Program/Class: Bachelor in Home science	Year: 3	Semester: VI(Paper 1)
Sul	bject: Home Science	
Course Code: HSCT - 325	Course Title:	Traditional Textiles of India

- Appreciation of diverse and rich textiles heritage of India
- Comprehending about traditional textiles from different parts of the country
- Scientific knowledge about conservation of textiles

Course outcomes: After completion of this course, a student will be able to:

- · Learn about traditional embroideries from different parts of the country
- · Understanding role and significance of khadi

	Credits:6(4+0)	Core Compulsory -Group 3	
	Max. Marks: 25+75	Min. Passing Mari	ks: 40
Unit		Topics	No. of Lectures
1		mkari (painted and block printed), f Gujarat and Rajasthan.Ikat of Orissa	15
11	Woven textiles: Brocades of Utt Brocades of South India, Muslin	ar Pradesh ,Baluchar of West Bengal, of Bengal, Shawls of Kashmir	15
111		kari of Lucknow, Phulkari of Punjab, of Kashmir, Kasuti of Karnataka, Zari ah and Kathiawar.	15
IV	economic significance of khadi, Intervention by organizations in	modern India: Evolution and socio hand loom and handicrafts sector sustenance of Indian textile craft affecting deterioration of textiles, care	15

#### RECOMMENDED READINGS:

- Chattopadhyaya K D: Handicrafts of India Indian Council for Cultura Relations
- Dhamija & Jain: Handwoven Fabrics of India. Ahmedabad Mapin Publishing Pvt Ltd
- Bhatnagar P Traditional Indian Costumes & Textiles India Abhishek publications Chandigarh
- Dar SN Costumes of India and Pakistan. Bombay D B Taraporewala sons& Co Pvt Ld

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Program/Class: Bachelor in Home science	Year: III	Semester: VI ( Paper 2 )
	Subject: Home Science	
Course Code: HSFRM - 326	Course Title: Interior	Designing and Decoration

- · Understanding on the concepts designing and decoration
- Understanding the various techniques of designing and decoration
- · Use of resources in designing and decoration

#### Course outcomes: After completion of this course, a student will be able to:

- Use resources in designing and decoration.
- Decorate your surroundings by available resources.

	Credits: 6(4+2) Max. Marks: 25+75	Core Compulsory –Group 3  Min. Passing Mark	s: 40
Unit		opics	No. of Lectures
1	Understand and apply the e interior to enhance aesthetic     Principles of Interior Desig     Basics of Decorative styles	n	15
11	<ul> <li>Types of lighting - Natural lighting - direct, semi-direct lighting.</li> <li>Lighting accessories - Select Lighting fixtures - Structure</li> </ul>	and Artificial lighting. Methods of t, In-direct, semi indirect and diffused ection of lamps and lamp shades. al lighting, Free-standing or portable tandard lamp fixtures and office task	15
111	<ul> <li>Factors influencing the selection and background for</li> <li>Kinds of accessories - Decorart, drawings, antiques and leadings.</li> </ul>	l, decorative and both accessories.	15

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IV	<ul> <li>Art and Crafts – definition, kinds of art and crafts-pot painting, idols, sculptures, glass painting, wall art, wall hanging, pillows, cushions, pebble art, wood art, shell art, origami, models, lamps and vases, baskets, doll making, hamboo crafts, folk arts and crafts of India, Application of arts and crafts in interiors</li> </ul>	15
	Application of elements and principles of interior design and Decoration     Preparation of utility and decoration articles by using various painting/printing techniques Calligraphy Use of floor decoration in interiors	
Practical	<ul> <li>Stationery designs; cover designs for books, magazines, illustrations, lettering construction etc.</li> <li>Accessories; various types, materials and techniques; pottery, collage, handicrafts, utility articles, paper items, paper sculpture, poster making, greeting cards, fabric painting, glass painting, gift wrapping etc.</li> </ul>	

#### RECOMMENDED READINGS:

- Dorothi, S. et al. (1980). Introduction to Interior Design. New York: Mc Millan.
- Faulkner and Faulkner. (1975). Inside Today's Home. New York: Holt, Rinehart and Winston.
- Gewther, M. (1970). The Home, its Furnishings and Equipment U.S.A. Mc. Graw Hill.
- Mike, L. (1986). The Complete Interior Decoration. United Kingdom: Mc Donald.
- Ruth, M. (1975). The Home and its Furnishings. U.S.A.: Mc. Graw Hill.
- Seetharaman P. Sethi M. (2002). Interior Design and Decoration. CBS Publishers and Distributors. New Delhi.
- Chaudhari, S.N. 2006, Interior Design. Aavishkar Publishers, Jaipur.
- Premavathy Seetharaman and Parveen Pannu, (2009). Interior Design and Decoration.CBS Publishers and Distributors Pvt Ltd. New Delhi.
- Goldstein, (1976). Art in Every Day Life. Oxford and IBH Publishing

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Vent: 311
ome Science
rTitle: Research project - 2

- Learns to communicate with community around
- Becomes sensitized to problems being faced in community Increases awareness of candidate.

Course outcomes: After completion of this course, a student will be able to:

Learns to prepare a survey/interview schedule.

		Cose Compulsory -Group 3	
	Credits:6(0+4)	Min. Passing Marks	: 40
	Max. Marks: 25+75	20.00	No. of
Unit	0.000	ples	Lectures
ı	Agricultural farmland / NGO Fitness center/ Diet counsel- Primary school/ Vridha As Mentally challenged institution/ Vi Dyeing or printing Unit/ Cottage I unit / SHGs/ Bank schemes/ Sub-	e inputs in any one of the following: di / Health services/ Market / Dairy/ / Crèche Nursery School/ Hospital/ or/ Bontique/Balwadi/ Youth center/ hram(old age home)/ Divang school/ illage panchayat / School counselor/ evel embroidery or food processing sidies available/ Industry producing	15
11	An intervention plan would be developed identified in the area/ a field develop an understanding of the whole the standard in the area and the standard in the area and the standard in the st	ole process.	
111	The planned intervention to be carriarea Based on the intervention, the pre-in- post intervention data has to be collabased on visit and interaction the de- has to be collected.	ntervention state and ected and compared / etailed in depth data	15
IV	A detailed Report is to be submitted	d and evaluated.	15

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## MINOR COURSES FOR B.Sc. HOME SCIENCE

S. No.	Minor Courses
1.	Food Microbiology
2.	Food Biochemistry
3.	Food Diary Microbiology
4.	Photography and Sketching
5.	Pre And Post- Natal Care
6.	Marketing Management
7.	Food Preservation
8.	Fashion Designing
9.	Public Health And Nutrition
10.	Clinical Nutrition
11.	Web Technology
12.	Graphic Designing
13.	Basic English
14.	Elementary Chemistry
15.	Home Economics

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## LIST OF VOCATIONAL COURSE FOR B.Sc. HOME SCIENCE

S. No.	Vocational Courses
1.	Clinical Microbiology
2.	Sales & Marketing Management
3.	Tailoring & Embroidery
4.	Photography & Videography

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7.	Food Preservation
8.	Fashion Designing
9.	Public Health And Nutrition
10.	Clinical Nutrition
11.	Web Technology
12.	Graphic Designing
13.	Basic English
14.	Elementary Chemistry
15.	Home Economics

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## कमला नेहरू भौतिक एवं सामाजिक विज्ञान संस्थान, सुलतानपुर स्वायत्तशासी संस्थान

दिनांकः 10.09.2023

#### निर्णय संख्या-02-

प्रश्न-पत्र प्रारूप निर्धारण निर्णय निग्नवत् है:-

- 1. समस्त प्रश्न-पत्र 2 घण्टे का होगा।
- प्रश्न–पत्र का पूर्णांक 75 अंकों का होगा।
- प्रश्न-पत्र कुल 3 खण्डों में विभक्त होगा।
- प्रथम खण्ड A में कुल 20 अति लघु उत्तरीय प्रश्न होंगे। जिसमें बहुविकल्पीय, सत्य/असत्य (दू/फाल्स) एवं रिक्त स्थानों की पूर्ति (फिल इन द ब्लैंक) आदि प्रारूप शामिल किए जा सकते हैं। प्रत्येक प्रश्न पर 2 अंक निर्धारित हैं। अति लघु उत्तरीय प्रश्न पूरे पाठ्यक्रम को कवर करते हुए बनाया जाएगा। शब्द सीमा 25 शब्द की होगी।
- प्रश्न-पत्र के दूसरे खण्ड B में कुल 05 लघु उत्तरीय प्रश्न होंगे। जिनकी शब्द सीमा 200 शब्दों की होगी। प्रत्येक प्रश्न पर 04 अंक निर्धारित होंगे। हर प्रश्न का विकल्प भी आवश्यक है।
- प्रश्न-पत्र के खण्ड C में मात्र 01 प्रश्न होगा। अधिकतम शब्द सीमा 500 शब्द की होगी। इसके कम से कम 03 विकल्प आवश्यक होंगे। इस एक प्रश्न पर 15 अंक निर्धारित हैं। इस तरह कुल अंक एक प्रश्न-पत्र का 75 अंक का होगा।
- समिति ने यह निर्णय लिया कि किसी असंगत स्थिति में समिति को अधिकार होगा कि वह आवश्यक सुझाव व परिवर्तन हेतु स्वतंत्र होगी।

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