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National Education Policy-2020

Common Minimum Syllabus for Uttarakhand State Universities and Colleges

Four Year Undergraduate Programme- FYUP/Honours Programme/master's in arts

PROPOSED STRUCTURE FOR FYUP/MASTER'S HOME SCIENCE SYLLABUS

DEPARTMENT OF HOME SCIENCE

List of Experts in drafting NEP (2020) syllabus (Home Science)

S.no	Name and Designation of Expert	
1	Professor Lata Pande Convenor and Head, Department of Home Science D.S.B Campus, Kumaun University, Nainital, Uttarakhand	Convenor
2	Dr Chhavi Arya Associate Professor Department of Home Science, D.S.B Campus, Kumaun University, Nainital, Uttarakhand	Co-Convenor
3	Dr Meena Batham Associate Professor Department of Fabric and Apparel Science, Institute of Home Economics, Delhi	Expert
4	Dr Parth Banerjee Consultant, Asian Development Bank	Expert
5	Professor Mukta Singh Head Department of Home Science, M.M.V., B.H.U, Uttar Pradesh	Expert
6	Professor Manisha Ghalot Head Department of Apparel and Textile Science, College of Community Science, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand	Expert
7	Professor Rekha Naithaini Department of Home Science, BGR Campus, Pauri, C.U Gharwal	Expert
8	Professor Jyoti Tiwari Convenor and Head, Department of Home Science Srinagar Campus, Srinagar, C.U Gharwal	Expert
9	Professor Anju Bisht Head Department of Home Science, M.B.P.G College, Haldwani	Committee member
10	Prof Preeti (Home Science) Principal Govt P.G College Joshi math Uttarakhand	Committee member
11	Dr Prabha Bisht Associate Professor Department of Home Science, Govt PG Degree college Doiwala Dehradun	Committee member

Year	Year Semester Course Paper Title		Theory/ Practical	Credit	
	I	DSC	Fundamentals of Nutrition and Human Development	Theory	3+1
			Practical (a) Cooking Skills and Healthy Recipe Development	Practical	
FIRST YEAR		GE	Techniques of Food Preservation	Theory	4
		SEC	House Keeping	Theory	2 (1+1)
	П	DSC	Introduction to Clothing, Fashion and Family Resource Management	Theory	3+1
			Practical (b) Clothing and Textile	Practical	
		GE	Entrepreneurship Management	Theory	4
		SEC	Fruits and Vegetables Preservation	Theory + Practical	1+1
	Undergradu	ate Certifi	cate (in the field of Multidisciplinary stud		
	III	DSC	Housing, Interior Decoration and Extension Education	Theory	3+1
			Practical (c) Interior Decoration and Development of Extension Teaching Aids	Practical	
		DSE	Family finance management	Theory	4
		GE	Entrepreneurship for Small Catering units	Theory	4
SECOND YEAR		SEC	NGO Management and Corporate Social Responsibility	Theory	2
	IV	DSC	Communication Process and Human Development II	Theory	3+1
			Practical (d) Practical based on communication process and Human Development	Practical	
		DSE	Food Processing and storage	Theory	4
		GE	Early Childhood Care and Education	Theory	4
		SEC	Food Safety, sanitation and hygiene	Theory	2

	V	DCC	See See Ourse and the SEE Leiter	T1	
	V	DSC	Surface Ornamentation of Fabrics	Theory	3
		DSC	Practical (e) Techniques of Surface Ornamentation of Fabrics	Practical	1 (Compulsory)
		DSE	Community Development and Programme Planning	Theory	4
THIRD YEAR		GE	Community Development Organizations	Theory	4
	VI	DSC	Dietetics and Therapeutic Nutrition	Theory	3
		DSC	Practical (f) Therapeutic Diet Preparation and Nutrient Evaluation	Practical	1(Compulsory
		DSE	Family Welfare and Community Education	Theory	4
		GE	Diet and Nutrition Counselling	Theory+ Practical	3+1

	VII	DSC 01	Advanced fabric and clothing construction	Theory	4
		DSE 1a	Research methods and statistics	Theory	4
		DSE 2a	Theories of human development	Theory	4
		DSE 3a	Advance food science	Theory	4 (Compulsory)
		DSE 4a	PRACTICAL 1- Clothing Construction and Food preparations	Practical	4 (Compulsory)
FOURTH		GE	Rural Sociology	Theory	4
YEAR		DISSERTATION	Dissertation on Major OR Dissertation on Minor OR Academic Project/Entrepreneurship	Theory	6
	VIII	DSC 02	Food safety and preservation	Theory	4
		DSE 1b	Life span development	Theory	4
		DSE 2b	Advance home management	Theory	4
		DSE 3b	Extension in home science	Theory	4 (Compulsory)
		DSE 4b	PRACTICAL 2- Practical Aspects of Extension Education	Practical	4 (Compulsory)
		GE	Marriage and Family Dynamics	Theory	4
		DISSERTATION	Dissertation on Major OR Dissertation on Minor OR Academic Project/Entrepreneurship	Theory	6
		Bachelor	s with Honors in Home Science		
	IX	DSC 03	Community nutrition	Theory	4
		DSE 1c	Indian embroideries and dying and printing techniques	Theory	4 (Compulsory)
		DSE 2c	Child welfare in India	Theory	4
		DSE 3c	Human physiology	Theory	4
FIFTH YEAR		DSE 4c	PRACTICAL 3- Nutritional Assessment and Surface ornamentation of fabrics	Practical	4 (Compulsory)
		GE	Psychological testing and Measurement	Theory	4

	DISSERTATION	Dissertation on Major OR Dissertation on Minor OR Academic Project/Entrepreneurship	Theory	6
X	DSC 04	Interior decoration	Theory	4
	DSE 1d	Human nutrition and diet therapy	Theory	4 (Compulsory)
	DSE 2d	Children with special needs	Theory	4
	DSE 3d	Fashion Design and Development	Theory	4
	DSE 4d	PRACTICAL 04- Interior Decoration and Therapeutic Nutrition	Practical	4 (Compulsory)
	GE	Gender in Extension	Theory	4
	DISSERTATION	Dissertation on Major OR Dissertation on Minor OR Academic Project/Entrepreneurship	Theory	6

Masters of Home Science

Abbreviations-

DSC-Discipline Specific Course; DSE-Discipline Specific Electives; GE-Generic Electives; SEC-Skill Enhancement Course;

Multidisciplinary Course of Study (Three Core Disciplines) B.A. HOME SCIENCE (First Draft of Syllabus)

Sem este	Course code	Core (DSC)	Elective (DSE)	Generic Elective	Skill Enhancement
I	HSC/DS C/UG 01 (4 credit)	Fundamentals of Nutrition and Human Development- (3TH) Cooking Skills and Healthy Recipe Development (1 Practical)			Course (SEC) House Keeping (2) HSC/SEC/UG 003
I	HSC/ DSC/ UG 004 (4 credit)	Introduction to Clothing, fashion and Family Resource Management- (3 Th) Clothing and Textile- (1Practical)		_	Fruits and Vegetables Preservation (1+1) HSC/SEC/UG 06
I I I	HSC/DS C/UG 007 (4 credit)	ء ڪ	Family finance management HSC/DSE/UG 008 (4)	hip for Small Catering units (4)	NGO Management and Corporate Social Responsibility (2) HSC/SEC/UG 010
V	HSC/DS C/UG 011 (4 credit)		Food Processing and storage HSC/DSE/UG 012 (4)	` /	Food Safety sanitation and hygiene (2) HSC/SEC/UG 014
V	HSC/ DSC/ UG 015 (4 cred	Surface Ornamentation of Fabrics -(3 Th) Techniques of Surface Ornamentation of Fabrics- (1Practical)	Community Development and Programme Planning- (4) HSC/DSE/UG 016	Community Development Organizations (4) HSC/GE/UG 017	
V	HSC/D SC/UG 018 (4 credit)	Dietetics and Therapeutic Nutrition-(4 Th) Therapeutic Diet Preparation and Nutrient Evaluation-(2 Practical)	Family Welfare and Community Education- (4) HSC/DSE/UG 019	Diet and Nutrition Counselling (4) HSC/GE/UG 020	

Sem ester	Core(DSC)	Elective (DSE)	General Elective (GE)	Abilit y Enha ncem ent cours e (AEC	Skill enhanc ement course (SEC)	Value addition course (VAC)	Tota cred
VII	Advance fabric and clothing construction (4) (HSC/DSC/PG 103)	Research methods and statistics (4) (HSC/DSE/PG 101) Theories of human development (4) (HSC/DSE/PG 102) Advance food science (4) (HSC/DSE/PG 104) (Compulsory) Practical (HSE/ DSE/PG 105) Compulsory (4)	Rural Sociology (HSC/GE/ PG 106) (4)			Dissertation on major (4+2) Or Dissertation on minor or academic projects / entrepreneursh ip (HSC/VAC/P) G 107)	22
VIII	Food safety and preservation (4) (HSC/DSC/PG 108)	Life span development (4) (HSE/DSE/PG 109) Advance home management (4) (HSE/DSE/PG 110) Extension in home science (4) (HSE/DSE/PG 111)(Compulsory) Practical (HSE/ DSE/ PG 112) Compulsory (4)	Marriage and Family Dynamics (HSC/GE/ PG 113) (4)			Dissertation on major (4+2) Or Dissertation on minor or academic projects / entrepreneursh ip (HSC/VAC/P) G 114)	22
IX	Community nutrition (4) (HSC/DSC/PG 115)	Indian embroideries and dying and printing (4) (HSC/DSE/PG 116) (Compulsory)	Psycholog ical testing and Measurem ent			Dissertation on major (4+2) Or Dissertation on minor	22

		Child welfare in India (4) (HSC/DSE/PG 117) Human physiology (4) (HSC/DSE/PG 118) Practical (HSE/ DSE/ PG 119) Compulsory (4)	(HSC/GE/ PG 120) (4)	or academic projects / entrepreneursh ip (HSC/VAC/P G 121)	
X	Interior decoration (4) (HSC/DSC/PG 122)	Human nutrition and diet therapy (4) (HSC/DSE/PG 123) (Compulsory) Children with special needs (4) (HSC/DSE/PG 124) Fashion Design and Development (4) (HSC/DSE/PG 125) Practical (HSE/ DSE/PG 126) Compulsory (4)	Gender in Extension (HSC/GE/ PG 127) (4)	Dissertation on major (4+2) Or Dissertation on minor or academic projects / entrepreneursh ip (HSC/VAC/P G 128)	22

(Chucigi	raduate Programme) After this programme, the learners will be
able to:	
PSO 1	Learn about the discipline of Home Science, promote all-round development of individuals and families, equip students with practical skills for managing homes and resources, and foster critical thinking and problem-solving abilities, ultimately aiming to improve quality of life and contribute to better society.
PSO 2	Students will be able to develop capabilities to start earning by enhancing their skills in the field of Food and Nutrition, Clothing and Textiles, Human development, Family Resource management and Extension education.
PSO 3	Equip learners with practical skills in meal-planning, preparation of recipes, apparel construction, home management, and child development
PSO 4	Understands the physical, emotional, and cognitive development of children.
PSO 5	Gain knowledge in fabric selection, garment construction, and maintenance.

Programme Specific Outcomes (PSOs) - MASTER'S IN HOME SCIENCE

After thi	s programme, the learners will be able to:
PSO 1	Develop a sophisticated understanding of discipline of Homes Science, including key concepts, methodologies, and debates in the field, and apply these theories effectively to analyze the survey/ practical work.
PSO 2	Investigate significant problems or trends within the field of home science, such as nutritional deficiencies, child development challenges, or effective home management practices.
PSO 3	Promote research and innovation and design (product) development favoring in all the disciplines in home science.
PSO 4	Add to the existing body of knowledge in home science by presenting new findings, theories, or perspectives
PSO 5	Inculcate both generic and subject-specific skills to succeed in the employment market and standards of life.
PSO 6	Assess and aim to improve the social impact of home science practices, focusing on areas like community health, family dynamics, or sustainable living.
PSO 7	Suggest policy changes or new policies that could improve outcomes in areas like public health, family welfare, or consumer rights.

Department of Home Science

Semester-I

BACHELOR OF HOME SCIENCE

DISCIPLINE SPECIFIC COURSE (DSC)- Fundamentals of Nutrition and Human Development

Year: I	Semester: I
	Paper: DSC
,	•
on and Human	Development
ı	n and Human

Course Outcomes:

The student at the completion of the course will be able to:

- Students will get familiar with different methods of cooking
- Acquaint students with practical knowledge of nutrient rich foods
- Explain the need and importance of studying human growth and development across life span
- Identify the biological and environmental factors affecting human development
- Learn about the characteristics, needs and developmental tasks of infancy & early childhood years

Credits:3+1	Core Compulsory/Elective				
Units	Topic				
	Part A- Fundamentals of Nutrition				
I	Traditional Home Science and its relevance in current era. Contribution made by Indian				
	Home Scientists i.e. Swaminathan, C.V. Gopalan, S.K. Dey, Rabindra Nath Tagore, Shanti				
	Ghosh, etc.				
II	Food and Nutrition				
	Food- meaning, Classification and function				
	Basic food groups, Importance of basic food groups, balanced diet				
	Nutrition-Concept of Nutrition, health				
	Nutrients-Macro (Carbohydrates, Fat, Protein and Energy)				
	Micro nutrients (Vitamins and Minerals), sources, functions, requirement and deficiency				
	diseases				
III	Cooking Methods-Objectives,				
	Preliminary preparations-advantages and disadvantages.				
	Methods (Dry and Moist Heat methods), importance, Advantages and Disadvantages.				
	Preservation of Nutrients while Cooking. Traditional methods of enhancing nutritional value				
	of foods-germination, fermentation, etc. Microwave and Solar Cooking				
	Human Development				

IV	Introduction to Human Development
	Concept, Definition and need to study Human Development
	Domains, Stages of development.
	Principles of Growth and Development. Determinants of Development heredity and environment
V	Prenatal Development and Birth Process:
	• Conception, Pregnancy and Childbirth, Problems of Pregnancy, Stages of prenatal development, Factors affecting pre-natal development
	Physical appearance and capacities of the new-born Maternal and Infant mortality.
VI	Infancy:
	Developmental task during Infancy and Preschool Stage
	Physical and Motor Development
	Social and emotional development
	Cognitive and language development
	Common ailments of baby hood
	Suggested Reading
	 Dr. Brinda Singh, Manav Sharir evam Kriya Vigyan Panchchee lPrakashan, Jaipur,2015,15th Ed.
	 Chatterjee, C.C, "Human Physiology" Medical Allied Agency: VolI, II. Textbook of Biology for 10+2 Students (NCERT)
	 Sumati R Mudambi, "Fundamentals of food Nutrition and Diet Therapy", New Age International Pvt. Ltd, New Delhi, 6th Ed. (2018)
	 Punita Sethi and Poonam Lakda, "Aahar Vigyan, Suraksha evam Poshan"; Elite Publishing House, New Delhi; 2015
	Dr. Anita Singh, Aahar Evam Poshan Vigyan, star Publication, Agra
	 Dr.Devina Sahai, Aahar Vigyan, New Age International Publishers, NewDelhi
	• Berk, L.E. Child Development New Delhi: Prentice Hall (2005)(5 th ed.).
	BerkL.E. Child Development Allyn and Bacon 1992 (6th) Edition
	This course can be opted as an elective by the students of the following subjects: Open for all
	The eligibility for this paperis10+2with any subject
	Suggested Continuous Evaluation Methods:
	 Seminar/Presentation on any topic of the above syllabus
	Test with multiple choice question/short and long answer questions Attendance
	Course prerequisites: The eligibility for this paperis 10+2 with any subject

Practical (a) Cooking skills and Healthy Recipe Development) Programme/Class: Year: I Semester: I Certificate **Subject: Home Science** Course Code: HSC/DSC/UG/01 Practical (a) Cooking skills and healthy recipe development **Course Outcomes:** • Students will get familiar with different methods of cooking • Acquaint students with practical knowledge of nutrient rich foods Credits:01 **Core Compulsory/Elective** Unit Topic I **Basic Cooking skills** Weighing of raw materials, Preparing of different food items II Preparation of various dishes using different methods of cooking Boiling/steaming Roasting Frying-Deep/shallow • Pressure cooking • Hot air cooking Baking Ш Different styles of cutting fruits and vegetables Salad Decoration/Dressing Table setting, Napkin Folding IV Preparation of nutrient rich dishes Protein rich dish Carbohydrate rich dish Fat rich dish Vitamins rich dish Minerals rich dish Fiber rich dish Suggested Readings: ❖ Dr.Brinda Singh, Manav Kriya Vigran Panchsheel Prakashan, Jaipur; 2015,15th Ed. ❖ Dr.Nitu Singh, Prayogik Grih Vigyan, Sahitya Prakashan, Agra ❖ Chatterjee, C.C, "Human Physiology" Medical Allied Agency; VolI, II. ❖ Text Book of Biology for 10+2 Students (NCERT) Sumati R Mudami, "FundamentalsoffoodNutritionandDietTherapy",NewAgeInternationalPv t.Ltd, New Delhi, 6th Ed. (2018) Punita Sethiand Poonam Lakda, "Aahar Vigyan, Suraksha evam Poshan"; Elite Publishing House, NewDelhi;2015

This course can be opted as an elective by the students of the following subjects: Open for all

Suggested Continuous Evaluation Methods:

- Test with multiple choice question/short and long answer questions
- Menu planning and calculation of nutrient requirement
- Nutritive value calculation of various nutrient rich dish

Course prerequisites: The eligibility for this paperis10+2 with any subject.

Suggested equivalent online courses

I IGNOU and other centrally/state operated Universities/MOOC platforms such as "SWAYAM" in India and abroad.,

http://heecontent.upsdc.gov.in/Home.aspx

Further Suggestions:

Student may develop their cooking skills with new healthy recipe development after completion of this course and even start their own food service center.

Generic Elective HSC/UG/GE 02- TECHNIQUES OF FOOD PRESERVATION

			OF FOOD I RESERVA	HON	
Programme/ Class: Year: I					
	Certificate				
			ome Science		
Cours	e Code: HSC/GE/UG 02	Course Title: '	TECHNIQUES OF FOOI		
	Credits: 4		Minor	Elective	
Unit		Topic			
I	Food Microbiology				
	Principles of Food Pres	ervation, micro	organisms associated with	foods- bacteria, yeast and	
				fication of microorganisms	
				lassification of food based	
				ife, perishable foods, semi	
	perishable foods, an			,	
II	Food Preservation by	Low temperatu	re		
	-	-	tion to refrigeration, co	ld storage and freezing,	
				zing, types of freezing i.e.,	
slow freezing, quick freezing, introduction to thawing, changes during thawing					
	effect on food.				
III	Food Preservation by	high temperatı	re		
	Sterilization, Pasteurization, and blanching.				
	Food Preservation by Moisture control- Drying and Dehydration - Definition, drying as a				
	means of preservation, differences between sun drying and dehydration (i.e. mechanical drying),				
	heat and mass transfer, factors affecting rate of drying, types of driers used in the food industry.				
V	Food Preservation by				
	_		f ionizing radiations used in	n food irradiation.	
			on processing in food indu		
		,	1 &	J	
VI	Traditional Methods o	f Food Preserv	ation		
	a) Smoking b) Sun dryi	ng c) Pickling/ S	Salting		
	d) Fermentation	<i>C</i> , <i>C</i>			
	,				
VII	Project – visit to food	processing unit	(such as fruit and vegeta	able Processing Unit,	
	milk processing unit, cold storage plant etc.) observing various production				
	processes and qual			•	
Sugge	ested Readings:				
	. B. Srilakshmi, Food science,	New Age Publ	shers,2002		
2	M F - 1 Cl N		-		

- 2. Meyer, Food Chemistry, New Age, 2004
- 3. Bawa. A.S, O.P Chauhan et al. Food Science. New India Publishing agency, 2013
- 4. Frazier WC and Westhoff DC, Food Microbiology, TMH Publication, New Delhi, 2004

Semester I Skill Enhancement Courses (SECs) Course HSC/SEC/UG 03: HOUSE KEEPING

2(2-0-0)

Corse code: HSC/SEC/UG 03

Course title & Code	Credits	Lecture	Tutorial	Practical\Practice	Eligibility criteria	Pre- requisite of the course (if any)
HSC\SEC\UGC\03- House keeping	2	1		1	Class XII	NIL

Learning objectives:

- 1. To understand the role of house keeping in hospitality industry.
- 2. To understand the roles and responsibilities of personnel in the housekeeping department.
- 3. To know more about accidents and fire safety measures in institutions.
- 4. To understand care of laundry in house keeping.

Learning outcomes:

By the end of the course students will:

- 1. learn about room cleaning procedure. List down the daily, weekly and yearly tasks.
- 2. About the cleaning procedure and care of glass articles.
- 3. learn cleaning procedure and care of metals like brass and silver articles.
- 4. learn the method of cleaning lampshades, fans and other electrical fixtures.
- 5. learn the method of bed making.
- 6. learn the method of setting maid cart (trolley).
- 7. learn the procedure of preparing room inspection check list.

Theory Topics

Unit I Housekeeping Department

- Role of housekeeping in hospitality industry
- Layout of Housekeeping department
- Planning, organization & communication of House keeping activities.
- Co-ordination with other department
- Roles/responsibilities of personnel in the housekeeping department

Unit II Cleaning Activity and Pest Control

- Cleaning agents- selection and use for different surface
- Cleaning equipment- selection, care and maintenance
- Cleaning techniques- Daily, weekly, yearly-procedure for cleaning of guest room and public area
- Types of common pests and effective methods to control

Unit III In House accidents, Fire safety and First Aid

• Types of accidents commonly occur in hospitality institution, methods to avoid and/or reduce.

- Fire safety measures in the institution
- First aid for commonly occurring health problems.

Unit IV: Linen and Uniform Room

- Layout/plan and Physical features of linen and uniform room
- Types of linen and uniform, their selection
- Storage procedure for linen and uniforms
- Stock determination, control and distribution, record keeping, inventory taking
- Linen and Uniform room staff and their duties

Unit V: Laundry

- Types of laundry systems In House, contracted out and linen on hire
- Layout plan and physical features of a laundry
- Laundry procedure: Collection, sorting & making, stain removal & Prepare washing, extractions & drying, ironing & folding, inspection, packaging, storage delivery
- Laundry supplies and materials: Water, Soaps, Detergents, Bleaches, Laundry blues, Stiffening agents & Iron
- Dry cleaning procedure

Practical

- Visit to establishment to get familiar with the role of house keeping
- Make a list of activities which house keeper must look after in an establishment
- Prepare a report on job specification and description of various housekeeping personnel
- List the requirements for cleaning unit or laundry unit attached to and establishment
- Visit hospital /clinic and list the disease caused due to neglect of personal hygiene
- Prepare a first aid box learn to operate fire extinguishers and report any emergency
- Practice various means of eradication of pest like cockroaches, mosquitoes, white ants etc.

Suggested Readings

- Asler, (1970): Management of Hospitality Operations, Bobbs Merill, London.
- Andrew Sudhir (1985): Hotel Housekeeping- training manual. Tata McGraw-Hill Publishing Co. Ltd., New Delhi.
- Charavarti, B.K.: A technical guide to Hotel Operation, Metropolitan Book Co. Pvt. Ltd., and New Delhi.
- David, M.Allen: Accommodation and cleaning service, Vol. 1 & 2. Hutchinson Publishing Group 17-21 Conway street, London
- Gladwell Derek: Practical Maintenance of equipment for hoteliers, Licenses and caterers, Hutchinson and Co. Pvt. Ltd.
- Hurst Rosemary: Accommodation Management for Hostel and residential establishment.
- Hurst Rosemary: Service and Maintenance for Hotel and Residential establishment. William Heinemann Ltd., 10Upper Grosvenor Street, London.

(Home Science) Semester II Introduction to Clothing, Fashion and Family Resource Management (Theory)

Programme/Class: Certificate	Year: I	Semester: II
S	Subject: Home Science	
Course Code: HSC/DSC/UG 04	Course Title:	
Credit 3+1	Introduction to Clothin Management	g, Fashion and Family Resource

Course Outcomes: • Learn about scope of textile and clothing Understanding why fabrics are different • Learn how fabrics can be manufactured • Understand basic concepts of clothing and fashion • Learn basic concepts of family resource management • Understand the decision making and use of resources throughout the lifecycle Credits:3+1 Core Compulsory Unit **Topic** Part-A (Clothing and Fashion) Introduction a) Introduction to Clothing and Textile (b) Its importance in day-to-day life I (c)Scope, (d)Classification of textile fiber on the basis of their source (e)General properties of fibers (f) Identification of fibers: visual test, microscopic test, chemical test and burning test II **Knowing Fibers-** Manufacture, processing, properties and uses of (a) Cellulosic Fiber -cotton, Linen, Jute, hemp (b)Protein Fibers-Wool, Silk (c)Synthetic/Manmade Fibers-Nylon, Polyester, Acrylic, Rayon Ш Clothing Construction (a) Tools for Clothing construction (b) Introduction to sewing machine, its parts and maintenance, (c)Importance of Drafting, Flat pattern techniques (d) Fabric preparatory steps for stitching a garment-preshrinking, straightening, layout, pinning, marking and cutting. IV Introduction to Fashion and Fashion Illustration-Fashion terminologies; Theories of fashion adoption- trickle-down theory, trickle across theory, bottom-up theory; factors affecting fashion **Fashion Illustration-** importance and scope, tools for sketching, preparation of fashion figures; different poses and style, fashion sketching; shapes and silhouette Part B (Family Resource Management) V **Introduction to Home Management:** Basic Concepts, Purpose and Obstacles of Management. Process of Management–Planning, Organization, Controlling and Evaluation. Motivating Factors in Management –Values, Goals and Standards-Definition and Classification. VI **Resources**-Meaning, Characteristics, Types and Factors affecting the use of Resources. Family lifecycle-Stages of family lifecycle. VII **Decision making** –Concept and characteristics, definition, steps and role of decision making in management, types of decision, factors influencing decision process. **Suggested Readings:** Colbmen P Bernard: Textiles Fiber to Fabric Hollen & Saddler: Introduction to Textile ❖ Joseph M: Introduction to Textiles

* Trotman: Textile Fiber Science

Cutting Tailoring and Dress Making: National open School, B-31-BKailash Colony, New Delhi-96-3

- R Bhatia & C Arora (1999), Introduction to Clothing and Textile, Printed by Macho Printery, Raopura, Baroda.
- Complete Guide to Sewing by Reader's Digest: published by the Reader's Digest Association (Canada) Ltd. Montreal-Pleasantville, NY, 2002.
- Deacon R.E. and Firebaugh F.M. (1998) Family Resource Management-Principles and application. N. Delhi: Roy Houghton Mifflin Company.
- Faulkner, R.&Faulkner, S. (1961). Management for Modern Families. N. Delhi: Sterling Publisher Ltd.
- MoorthyG.(Ed.).(1985).HomeManagement.N.Delhi.:AryaPublishers,Mullick,P.Textbook of Home Science. Ludhiana. :Kalyani Publishers.
- Nickell,P.,andDorsey,J,M.(2002).ManagementinFamilyLiving.NewDelhi:CBS Publishers(ISBN13:9788123908519)
 - Patni Manju & Sharma Lalita, Grah Prabandh, Star Publication Agra
 - Varma, Pramila, Vastra Vigyan Avam Paridhan: Madhya Pradesh Hindi Granth Academy, Bhopal.
- Varghese, M.A, Ogale, N.Nand Srinivasan, K. (2001). Home Management. New Delhi, New Age International (P) Ltd.
- ❖ Varghese, M.A. House hold Equipment Manual, S.N.D.TWomen's University, Mumbai.
- Suggestive digital platform web links-Svayam Portal, http://heecontent.upsdc.

This course can be opted as an elective by the students of the following subjects: Open for all

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Suggested Continuous Evaluation Methods:

- Seminar on any topic of above syllabus.
- Test with multiple choice question/short and long answer questions
- Attendance

Course prerequisites: To study this course, a student must have had ALL in class 12th.

Suggested equivalent online courses

IGNOU and other centrally/state operated Universities/MOOC platforms such as "SWAYAM" in India and abroad.

Practical (b)Clothing & Textiles

Programme/Class: Certificate	Year: I	Semester: II		
Subject: Home Science				
Course Code: HSC/DSC/UG 04	Course Title: Practical	(b) Clothing & Textiles		

Course Outcomes:

- Ability to identify fibers and fabrics
- Understanding why fabrics are different
- Lea

	• Lea		
	• Learn how garments are stitche	d	
Credits:1		Core Compulsory/Elective	
Total No.	of lab. periods-30(60hours)		
Unit	Topic		
I	Identification of fiber sand fabrics (a) Fiber identification tests-Visual burning, solubility and microscopic test-natural and synthetic, pure and blended fibers. (b) Weaves identification and understanding their usage		
II	Learning to Stitch- (a) Knowing how to stitch-straight-line stitching, stitch in gat curves and corners (b)Basic Stitching-Temporary Stitching, Permanent and decorative stitching		
III	Basic Sewing - (a) Seams-Plain French seam (b)Attaching differ	C ,	

Suggested Readings:

Cutting Tailoring and Dress Making: National open School, B-31-B Kailash Colony, New Delhi-1100048

gathers, tucks and pleats (d) Neckline Finishing- Facing & Binding

- RB hatia & C Arora (1999), Introduction to Clothing and Textile, Printed by Macho Printery, Raopura, Baroda.
- ❖ Complete Guide to Sewing by Reader's Digest: published by the Reader's Digest Association (Canada) Ltd. Montreal-Pleasantville, NY,2002.
- Helen J Armstrong, Pattern Making for Fashion Design, Prentice Hall.
- ❖ Gerry Cooklin, Introduction to Clothing Manufacture, Blackwell Science, UK,1991
- ❖ Metric Pattern cutting & Grading by Winfred Aldrich.
- Suggestive digital platform web links-Svayam
 Portal, http://heecontent.upsdc.gov.in/Ho me.aspx

Suggested Continuous Evaluation Methods:

- Preparation of samples of various types on fabrics'
- Evaluation of Prepared garment
- Record file preparation and evaluation, Attendance

Course prerequisites: Class12thwith any subject

• learning basic sewing skills

Entrepreneurship Management (Generic Elective)

Programme/ Class: Diploma		Year: II	
±		Subject: Home Science	
	HSC/GE/UG 05	Entrepreneurship Management	
Course Outcomes:		 Students will be able to explain the core concepts of entrepreneurship, including its role in economic development, the characteristics of entrepreneurs, and the challenges of entrepreneurial ventures. students will learn to assess and identify viable business opportunities by analysing market needs, customer preferences, and industry trends. Students will acquire the skills to create comprehensive business plans, including market analysis, financial planning, operational strategies, and risk management. 	
	Credits: 4	Minor Elective	
Unit		Topic	
		Part- A (Theory)	
I	Entrepreneurship — Definition, need, scope and characteristics of entrepreneurship development and employment promotion Identification of Opportunities		
II	Entrepreneur and enterprise, entrepreneurial qualities, assessing entrepreneurial qualities, environment scanning and opportunity identification. Methods source and type of opportunity, assessment criteria and profiling opportunities.		
III	Infrastructure and support system, Industrial support agencies, Procedure and steps involved in setting up an enterprise, sources of information and industry organization.		
IV	Project planning and formulation of project, identification and product selection, generating project ideas, short listing, final selection market survey, market alternatives, an overview of the future, Product development, Product Selection, Preparation of project report		
V	Enterprise management, Basic management concepts, personnel management, product management, material management, financial management and accounting, market management, crisis management.		
VI	VI Interaction with entrepreneurs and report writing, visit to any entrepreneurial unit and report writing		
	NDED READINGS handran, Entrepreneu	ırship Development, Mc Graw Hill	
2. Katz, F	Entrepreneurship Sma	ıll Business, Mc Graw Hill	

- 3. Byrd Megginson, Small Business Management An Entrepreneur's Guidebook 7th ed, McGrawHill
- 4. Fayolle A (2007) Entrepreneurship and new value creation. Cambridge, Cambridge University Press
- 5. Hougaard S. (2005) The business idea. Berlin, Springer
- 6. Lowe R & S Mariott (2006) Enterprise: Entrepreneurship & Innovation. Burlington, Butterworth Heinemann

Semester II Fruits and Vegetables preservation Skill Enhancement course

Course title &code	Credits	Lecture	Tutorial	Practical\Practice	Eligibility criteria	Pre- requisite of course (if any)
HSC/SEC/UG 06 – Fruits and vegetables preservation	2	1		1	Class XII	NIL

Subject: Home Science		
Course Code: HSC/SEC/UG 06 Course Title: Fruits and Vegetables		
Preservation		

Learning Objectives:

- To know about various types of fruits and vegetables and their nutritive value.
- To understand the reasons for spoilage of fruits and vegetables.
- To develop practical skills in preservation of fruits and vegetables.
- Learn proper storage methods to maintain quality and taste.

Learning Outcomes:

On successful completion of this course the students will be able to

- 1. Identify various types of fruits and vegetables and explain their nutritive value.
- 2. Understand the fragile nature of fruits and vegetables and causes for their

damage.

- 3. Explain various methods of preservation for fresh fruits and vegetables.
- 4. Get to know the value-added products made from fruits and vegetables.

Торіс	Vocational Minor	T
Topic		
T	heory	
inition, elementary lary) with local /comm : Definition, elemen bot, leafy, stem, flow of fruits and vegetal perishable plant pro- need for preservati	knowledge, types and class non examples. Itary knowledge, types and wer and fruit) with local/coables in human nutrition.	classification of mmon examples.
r	To fruits and veget finition, elementary larry) with local /comm s: Definition, element toot, leafy, stem, flow the of fruits and vegetar f perishable plant pro	Theory a to fruits and vegetables inition, elementary knowledge, types and classic ry) with local /common examples. So Definition, elementary knowledge, types and coot, leafy, stem, flower and fruit) with local/ cook of fruits and vegetables in human nutrition. If perishable plant products – maturation and sponed for preservation of fruits and vegetables.

II	 Fruits – ripening and biological aging; storage and preservation concerns. Fruit preservation at room temperature as juices and squashes Preservation of fruits by application of heat; making of fruit products (jams, jellies). Preservation by dehydration, -Drying of fruits and vegetables Pickles and causes of spoilage of pickles.
III	 Vegetables – losses after harvesting and causes; problems in handling and storage. Modern methods of packaging and storage to reduce losses. Preservation of sliced vegetables in factories by canning and bottling, General steps of canning of fruits and vegetables

Practical

- 1. Assignments/Group discussion.
- 2. Invited lecture and demonstration by local expert.
- 3. Exhibition and report writing on various types of locally available fruits and vegetables.
- 4. Hands on training on making fruit juices, jams, jellies and pickles.
- 5. Preservation of vegetables by drying and dehydration.
- 6. Report making and presentation of various preserved fruit products available in local market.
- 7. Hands on training on making of potato, Colocasia, and banana chips.

Suggested Reading

- 1. Giridharilal, G. S. Siddappa and G.L.Tandon (2007) Preservation of Fruits and Vegetables, Indian Council of Agri. Res., New Delhi.
- 2. Srivastava, R.P., and Sanjeev Kumar (2019) Fruit and Vegetable Preservation: Principles and Practices, CBS Publishers & Distributors Pvt., Ltd., New Delhi
- 3. Thompson, A.K. (1995) Post Harvest Technology of Fruits and Vegetables. Blackwell Sci., U.K.
- 4. Verma, L.R. and V.K. Joshi (2000) Post Harvest Technology of Fruits and Vegetables. Indus Publ., New Delhi
- 5. Website links- https://nchfp.uga.edu/

B.A. (Home Science)Semester III Housing, Interior Decoration and Extension Education (Theory) (DSC)

Programme/Class: Diploma	Year:	Semester: III
	II	

Course Code: HSC/DSC/UG 07	Course Title: Housing, Interior Decoration and Extension
	Education (Theory)

Course outcomes:

- Grasp knowledge of Housing, need & selection of site in real life situations.
- Comprehending Housing plans for residential purpose.
- Appreciate principles of design and the contributing factor store fine personal aesthetic senses.
- Learn the widening concepts of Extension Education.
- Develop understanding for Effective teaching and learning.
- Gain skills to use technologically advanced Audio-visual aids.

	Credits:3+1 Core Compulsory/Elective	
J	Unit Topic	
	Part-A (Housing and Interior Decoration)	
I	Housing : Need and functions; Difference between House and Home, ways to acquire house (rented). Factors influencing selection and purchase of house and site for house building	
II	House Planning: Principles of house planning,	
	Planning house for different income groups.	
	Types of Kitchens	
III	Interior Designing: Introduction to Interior designing.	
	Objective of interior decoration.	
	Elements of Art- Line, Shape, Texture, Colour, Pattern, Light and Space, types of design.	
	Colour: Importance in home decoration, meaning, functions, principles of colour, Prang's color	
	- hue, value and intensity, factors affecting selection of colour in home decoration, colour sch	iemes.
	Principle of design-Proportion, Balance, Rhythm, Emphasis, Harmony.	
	Elements of Design and types of design – naturalistic, stylized, geometric and abstract	
	Structural and decorative design	
IV	Home Decors:	
	Furniture: importance, selection of furniture, types of furniture	
	Accessories – Importance, classification	
	Flower Arrangement – Importance, styles, classification, care of cut flowers.	
	PART B (Extension Education)	
V	Extension Education: Meaning, Concepts, Objective, Scope,	
	Principles, objectives, need and importance. Scope of Extension Education,	
	Early Extension Efforts in India,	
	Formal and Non-Formal Education.	
VI	Extension Teaching & Learning Process: Role and qualities of an extension worker, Steps	in
	Extension Teaching	
X 7 T T	Process, Criteria for Effective Teaching and Learning.	
VII	Extension Teaching Methods- Classification, Factors guiding the selection and use of Ext teaching methods.	ension

VIII

Audio- visual Aids: Definition, Importance,

Classification, Selection, Preparation and effective use of Audio-visual aids

Suggested Readings:

- Khanuja. Reena(2018) Grah Vyavastha avam Grah Sajja .Agarwal Publications, AgraISBN:978-93-81124-96-3
- Patni Manju & Sharma Lalita, Grah Prabandh, Star publications Agra.
- Craig, H.T. and Rush, O.D. (1966). Homes with Character. Heath, 1966.
- Faulkner, R., and Faulkner, S., (1961). Inside Todays Home. Rev. ed., New York: Holt, Rinehart & Winston, Inc.
- Goldstein. H& Goldstein. V.(1954) Artin Everyday Life Macmillan Publishers.
- Rutt, A. H. (1963) Home furnishing, John Wiley & Sons, Inc.;
- Supriya ,K.B.(2004).Landscape gardening and designing with plants. Pointer Publishers.
- Teresa ,P.Lanker.(1960).FlowerArranging:Step-by-stepInstructionsforEverydayDesigns Florist Review
- Aggarwal, R.(2008)."Communication-todayandtomorrow",NewDelhi:SublimeCompany
- Dubey V.K., Srivastava Archana, Agrawal Garima, Grah Vigyan Prasar avam Sampreshan, Star Publications Agra.
- Harpalini B .D.Patni.Manju,(PrasarShikshaAvamSanchar)StarPublications,Agra.ISBN978-93-81246
- Shaw Geeta Pushp, Shaw Jois Sheela, Prasar Shiksha, VinodPustakMandirAgra.ISBN81-7457-104-3
- Dhahama, O.P., & Bhatnagar, O.P. (1988). "Education and Communication for Development".
 New Delhi. Oxford and IBH Publish in Co.Pvt. Ltd.
- Jaipal Singh."Prasar Shiksha avam Gramin Vikas" SR Scientific publications, Agra
- Reddy A.(1987)."Extension Education". Bapatha, Andhra Pradesh, India: Sreelakshmi Press.
- SupeA.N.(1983).An introduction to Extension Education, Delhi: Oxford IBH publishing

Suggestive digital platform websites Swayam Portal,

• https://heecontent.upsdc.gov.in/Homeaspx

This course can be opted as an elective by the students of following subjects: Open for all

Suggested Continuous Evaluation Methods

- Seminar on any topic of the above syllabus
- Test with multiple choice questions/short and long answer questions.
- Preparation of Audio-visual aids.
- Attendance

Course prerequisites: Class 12th with any subject

Suggested equivalent online courses:

IGNOU&Othercentrally/stateoperatedUniversities/MOOCplatformssuchas "SWAYAM "in India and Abroad

Further Suggestions:

It widens the scope for students to join Government and Non-Government organization, up skilling the people at different level sasper their socio-economic structure. Extension work will speed up the basic structures (Gram Panchayat, Village School and Cooperative Societies) etc.

Interior Decoration and Development of Extension Teaching Aids (Practical)

Programme/Class:	Year: II	Semester: III	
Diploma			
Course Code: HSC/DSC/UG007	Course Title: Practical (c) Interior Decoration and		
	Development of E	xtension Teaching Aids	

Course outcomes:

- Developing skills for making time plan for effective balance of work & leisure.
- Plan & prepare budget for the family.
- In corporate appropriate work simplification in using house hold equipment's.
- Develop understanding for house planning & decoration

	Credits:1	Core Compulsory	
Unit	Topic		
I	 Preparation of Color wheels Display of following colour Monochromatic, analogous, Flower Arrangement and Fl 		
II	Plans and elevation of different furniture pieces. Preparing drawings for furniture arrangements considering incomes, size and needs of family.		
III	Draw House Plans with Stand	dard Specifications and Furniture Layout.	
IV	 Preparation of Projected (PowerPoint presentation, Slides) and Preparation of non-projected communication aids (chart, poster, flashcard). Construction of message through mobile SMS, email, reels or short video on social and environmental issues 		
	Suggested Readings:		
	Alexander.N.J.,(1972).DesigningInteriorEnvironment.NewYork:HarcourtBrace,		
	Bhargava,B.(2005). Family Resource Management and Interior Decoration, Jaipur: Apple Printer and V. R. Printers.		
	 Faulkner,R.,andFaulkner,S.,(1975).InsideTodaysHome,NewYork:Rinehart Gnndotra,V.andJaiswal,N.(2008).ManagementofWorkinHome,New Delhi:DominantpublishersandDistributors.(ISBNNo. 81-7888-526-3) 		
	• Harmon,S.and Kennon,K.(2 (5 th Ed.).New York: Wiley (1	018).The code cguide book for Interiors ISBN:978-1-119-342319-6)	
	 JohanovichInc. Ball, V.K. (1982). Art of Interior Design. New York: JohnWiley&Sons. 		
	 Leach, S. D. (1978). Techniques of Interior Design Rendering and Presentation (1stEd.). Architectural Record Books(ISBN-13:978- 0070368057) 		
	Mohanty, A.B. (1985). Guide Publications	to house buildings. New Delhi: Inter India	

Datui Manin & Channa Lalita Cuah Duahan dh Ctannahliastiana Asua
Patni Manju & Sharma Lalita, Grah Prabandh, Starpublications Agra.
Suggestive digital plat form websites
Bit.ly/3fJfghi
• https://bit.ly/39mTwGQ
• https://bit.ly/2JoXB2e
• https://bit.ly/3ljkrWf
Swayam Portal,
 https://heecontent.upsdc.gov.in/Homeaspx
This course can be opted as an elective by the students of following subjects: Open
for all
Suggested Continuous Evaluation Methods
Assessment of Time-Energy, Budget & House Plans.
Assessment of Market Survey Records
Assessment of Flower Arrangements and Rangoli.
Attendance.
Course prerequisites: To study this course, a student must have had the
subjectin class/12 th /certificate
Suggested equivalent online courses:
IGNOU & Other centrally/state operated Universities/MOOC platforms such as
"SWAYAM" in India and Abroad
Further Suggestions:
 Students may develop their managerial skills & Interior Designing skills
aftercompletionthiscoursewiththecapabilitytoforajoborstarttheirown
ventures. The area grown sixting company and truthed dyon a consent the informative declaration and the informative dyon
Theprogramgivinganopportunitytoadvancementtheirknowledgebyenrolli ngforadvancedspecialized program of their own areas & interest.
ngroradvaneedspecianzed program of their own areas & interest.

B.A. (Home Science)Semester III HSC/DSE/UG 08 Family Financial Management (DSE) Credit. Hrs. 4 Course code- HSC/DSE/UG 008

Course outcomes

After completing the course, students will be able to:

- 1. Acquire knowledge of income, saving and investment management in the changing socio-economic environment.
- 2. Develop an understanding about the issues related to consumer protection, legislative measures and redressal mechanisms.
- 3. Gain conceptual knowledge of critically evaluating and designing various consumer aids and about consumer education and protection.
- 4. Learn to undertake food adulteration tests through lab analysis.
- 5. Understand the schemes and services offered by banks and post office

HSC/DSE/UG 08 Family Financial Management (DSE)

Unit 1. Income- concepts, productive income, money income, hidden income, limits and factors affecting fluctuations in real income, depreciation in money value, inflation, deflation, consumer price index.

2. Money as a crucial resource in economic welfare

Unit 2 Saving

Saving, methods of saving, institutions for saving,

Investment: methods of investment- Mutual funds, shares, debentures, dividends

Unit 3 Budget

Budget: Definition, Types, Importance, Principles, Characteristics of good budget, steps in making budget and misconceptions, household budget, factor affecting budget

Unit 4 Financial management

Financial management, Financial Planning, Family Income, Financial Spending Plans, Methods of handling Money, Family life stages and use of Money, Record keeping, Account keeping

Unit 5 Taxation

Taxation, type of taxation and its effect, value added tax, Income Tax: Income tax slabs, Pan card, information regarding taxation, income tax section, tax rebate, tax evasion, advantages and disadvantages, principles of sound taxation system.

spending plan

Expert lectures to be arranged for students by experts from commerce/economics/financial back ground

Suggested Readings:

- 1:- Dr F C Sharma & C S Rachit Mittal, financial management, SBPD Publications. 2022
- 2:- Premavarthy Seetharaman, Preeti Mehra & Sonia Batra Family Resource Management , CBS Publisher and Distributers Pvt ltd , 2015

B.A. (Home Science) semester III

Course title-Entrepreneurship for Small catering units (GE)

HSC/GE/UG 09

Course Outcomes

Students will be able to:

- 1. Acquire fundamental knowledge of menu planning and resource management in a food service establishment.
- 2. Develop understanding of recipe standardization and quantity food production.
- 3. Develop understanding of making a business plan for a small food service unit.
- 4. Apply the knowledge gained for starting a successful food service unit.

Course Title - Entrepreneurship for Small catering units (GE)

Course code - HSC/GE/UG 09

Theory (Credit 4)

Unit I: Introduction to Food Service Management

Basics of management and food service for a small food establishment

- Principles of Management
- Functions of Management
- Types of food service systems

Unit II: Production Process in a Food Service Establishment

Components of food production cycle to run a small-scale food service unit.

- Menu Planning: Importance of menu, Factors affecting menu planning, Types of menu
- Food purchase and receiving
- Storage
- Quantity food production: Standardization of recipes, Recipe adjustment and portion control, Techniques of quantity food production
- Food service
- Food hygiene and sanitation, National food regulations

Unit III: Resource Management in a Food Service Unit

Understanding fundamentals of space, personnel and financial management

- Types of kitchen areas, Flow of work and work area relationship
- Equipment: Factors affecting selection of equipment, Equipment needs for different situations
- Personnel Management: Functions of a personnel manager, Factors to consider while planning the kind and number of personnel
- Financial Management: Importance of financial management, Budgets and budgeting process, Cost concepts

Unit IV: Planning a Food Service Unit

Developing business plan and strategies for establishing a small-scale food service unit

- Identifying resources, developing project plan, Determining investments
- Basics of marketing: 4P's
- Development of a business plan

Unit V: project -: Visit to a catering unit, studying its functioning and various operations and report writing

Suggested Readings

- 1:- Sanjeet sharma & Prerna, udhyamita awam laghu stariya vyawsay, VK Global Publication private Limited,
- 2:- Lora Arduser and Douglas Robert Brown, The Professional Caterer's Handbook, Atlantic Publishing Company, 2006
- 3:-Dr Avinav Sharma, Udhyamita awam laghu vyawsav pravandhan, Educreation publishing, 2017

<u>Semester III</u> Skill Enhancement Course

Course title and code	Credits	Lecture	Tutorial	Practical\ Practice	Eligibility criteria	Pre- requisite of
						the course (
						if any)
HSC/	2	1		1	Class XII	NIL
SEC/UG 10-						
NGO						
Management						
and						
corporate						
social						
responsibility						

Subject: Home Science		
Course Code: HSC/ SEC/UG 10	Course Title- NGO Management and corporate	
	social responsibility	

Learning Objectives:

- To equip students with knowledge and skills to manage NGOs effectively.
- To help students understand role, structure and function of NGO.
- To help students understand CSR principles and contribute positively to social change.

Learning Outcomes:

On completion of this course,

- 1. The student will be able to understand the concept of NGO.
- 2. Will gain ability to critically analyze challenges face by NGOs.
- 3. To develop knowledge and skill with regard to fund raise strategies.

Credits: 2	Vocational Minor	
	Total No. of Lectures-45	
Units Topic		
Theory		

I Concept of NGO

- Meaning of NGO and GO
- Difference between Government Organizations and NGO
- Characteristics of good NGO
- Structure of NGO
- Functions of NGO
- Historical Perspective of NGO
- Advantages of NGO
- Present status of NGO
- Contribution of NGO in the Development

Role of Development Communicator in developing NGO

II Starting of NGO

- Steps for starting NGO
- Registration of NGO
- Selection of Personnel
- Training of Personnel
- Proposal writing under NGO
- Identifying Funding agencies
- Resource Mobilization
- Planning, Implementation and Evaluation strategy under NGO
- Documentation
- PR in NGO

III NGO Management

- Organizational types and structures
- Managing people and teams in NGOs
- NGO management competencies
- Applying NGO principles and values
- Accountability and impact assessment for NGOs

IV Problems of NGO

- Training
- Recruitment
- Funding
- Resource Mobilization
- Documentation

Learning Experiences:-

- 1. Visit of Local NGO
- 2. Studying the Annual report of NGOs
- 3. Studying the ongoing Activities
- 4. Studying the problems

Suggested 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.
- 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.

B.A. (Home Science) Semester IV

Communication Process and Human Development II (Theory) (DSC)

Programme/Class: Diploma	Year: II	Semester: IV	

	Sub	ject: Home Science		
Course Co	ode: HSC/DSC/UG 11	Course Title: Communication Process and Human Development II (Theory)		
Course C	Outcomes:			
The stude	nt at the completion of the cou	arse will be able to:		
Understar	nd communication process			
Credits:3		Core Compulsory		
Unit	Topic		No. of lectures	
	Part A- (C	Communication Process)		
I	Communication- Meaning and definition, concept, functions, problems and barriers of communication, elements of communication, types of communication process, classification of communication methods			
II	ICT and New communication media, social networking sites, social awareness regarding cyber-crime and cyber security			
III	Models of Communication- Different models of communication, important characteristics of good communicators, communication barriers and strategies to overcome barriers			
IV	Innovation, Adoption and Diffusion: Innovation, adoption, diffusion of innovation, innovation decision process, factors affecting adoption process, role of extension agent in diffusion process			
	Part B (F	Human Development II)		
V	Middle Childhood Years			
	Development tasks and cha	racteristics of middle childhoo	od period	
	 Physical and motor Social and emotiona Cognitive developm Language developm 	al development. nent		
VI	puberty. Self and Identity, Factors in • Family and peer rela	physiological influencing and afluencing Identity & Personal	lity development.	

VII	Cognitive, Language and Moral Development during Adolescence:		
	 Perspective on cognitive development, development of intelligence 		
	and Creativity		
	Adolescent language		
	Adolescent Morality		
VIII	Introduction to Adulthood		
	 Concept, transition from adolescence to adult hood 		
	Development tasks of Adulthood		
	Physicalandphysiologicalchangesfromyoungadulthoodtolateadulthood		
	Responsibilities and adjustment-educational, occupational, material and parenthood		
	Suggested Readings:		
	Monaster G.J. 1 Adolescent Development Life Tasks. Mc. Graw Hill (1997)		
	AmbronS.R.Child Development Holt, Renehart and Winston 1978		
	(IIEdition)		
	MussenP.H.CongerJ.J.KaganJand HustonA.C.1990.Child development		
	and Personality (VI Edition) Harper and Row Publishers New York.		
	BoeknekG. Human Development Book and Cole Publishing Company		
	1980.		
	Aadunik Vikasatmak Mano vigyan, Shri Vinod Pustak Mandir Agra		
	Edition3 rd 2015.		
	Harpalani, Aahar vigyaan avam Upchar atmak Poshan, Star Publication,		
	Agra		
	Suggestive digital platform web links-IGNOU &UPRTOU online study		
	material		
	Svayan Portalhttp://heecontent.upsdc.gov.in/Home.aspx		
1			

Suggested Continuous Evaluation Method:

- Seminar on any topic of the above syllabus.
- Test with multiple choice questions/short and long answer questions
- Attendance

Suggested equivalent online courses:

IGNOU&Othercentrally/stateoperatedUniversities/MOOCplatformssuchas "SWAYAM "in India and Abroad

Further Suggestions:

Students can opt. dietitian; nutrition advisor/Nutritionist as a career in private and government sector as well as extend knowledge by joining advance course in same discipline. ItwidensthescopeforstudentstojoinGovernmentandNon-

Governmentorganizationupskillingthepeopleatdifferentlevels as per their socio-economic structure.

Suggested Continuous Evaluation Method:

- Seminar on any topic of the above syllabus.
- Test with multiple choice questions/short and long answer questions

Attendance

Practical (d) Practical based on communication process and Human Development

Program	me /Class:	Ye	ar: II		
Dip	loma				
	de: HSC/DSC/UG 0	11		-	
Credits:1					
Unit	Topics		•		
I	Preparation of spee	oh on socially	rolovent tonics		
1				tion	
	Planning and Conducting small group communication Preparation of folder, booklet				
II		I, DOORICE			
11	Preparation of radi	talk			
	Construction of so	ial maggaga th	wayah mahila	tout and video	
III	Construction of soc	iai illessage ii	irough mobile –	text and video	
111	To study masont maso	anda antialaa a	m adalasaants and	A vywita a mamant	
	To study recent rese	arch articles of	n adolescems and	i write a report.	
	To conduct a survey	to access near	nraccura/impact	t of media on adolescents.	
	10 conduct a survey	to assess peer	pressure/ impact	t of media off adolescents.	
IV	To write a narrative	account on add	olescent years to	understand the development of self.	
1 4				n and creativity in adolescents.	
	To develop different	detivities to it	delititute cognition	if the creativity in adorescents.	
V	Interviews of adole	scent girls and	l boys to understa	and their lifestyle, behavior and	
	problems.				
VI	Carry out case studies to know more about the different life stages, school going				
	children, adolescents, young adults.				
	Suggested Readin	2 S:			
	00	_	Development L	ife Taska, Mc Graw Hill(1977)	
			1	enehart and Winston 1978	
	(IIndEdition				
	`	·	Kagan Land Hu	ıston A.C. 1990.Child	
		, ,	_	Harper and Row Publishers	
	New York.	it dild i Cisone	inty (VI Lattion)	Trusper una real realismers	
		Human Devel	onment Brook at	nd Cole Publishing Company 1980	
	BoeknekG. Human Development Brook and Cole Publishing Company 1980 Aadhunik Vikasatmak Manovigyan, Shri Vinod Pustak Mandir Agra				
	Aadhunik Vikasatmak Manovigyan, Shri Vinod Pustak Mandir Agra Edition3 rd 2015				
	Editions 2	,13			
	Suggestive digital	latfor me web	links_ eDG Datl	hshala infilibnet, IGNOU, &	
	UPRTOU online st		miks- CFO- Pau	nshala ilililibilet, IGNOU, &	
	https://bit.ly/3922Z	•			
	1111ps.//011.1y/3/222	111			
	Swayam Portal, http	s·//heecontent	unsde gov in/He	omeasny	
	Swayani Funai, <u>iill</u>	s.//IICCCOIIICIII	upsuc.gov.III/ПС	<u>πιτασμα</u>	

Suggested Continuous Evaluation Methods
Assessment of observation report
Preparation of questionnaireVisits records
Attendance
Treestaution

Food Processing and Storage (DSE) Cr. Hrs. 4

Course Code- HSC/DSE/UG 12

Course Outcomes:

Students after successful completion of the course will be able to:

- 1:- Understand the principles behind food preservation technologies such as freezing, drying, canning, and pasteurization.
- 2:- Learn about the factors affecting food spoilage and the methods to prevent it.

Theory Topics

Unit 1) Processing and storage of foods in the national perspective and their role in human nutrition. Processing of cereals, millets and legumes by traditional and unconventional methods. Changes in nutritional quality as affected by: pounding, milling. Puffing, flaking, cooking, parboiling. Fermentation, sprouting, malting Processing and packaging of milk products and their effect on nutritional quality

Unit 2) Common methods of preservation for fruits and vegetables and effects on nutritional quality characteristics

Unit 3) Processing of oilseeds for extraction of oils and use of oilseed cakes in human nutrition, l imitations and possible improvements.

Unit 4) Different methods of cooking and preservation of meat, fish and poultry. effects on nutritional quality and merits and demerits of various methods

Unit 5) Traditional methods for storage of food grains viz, cereals, millets, legumes and oilseeds, limitations, losses in nutritional quality as influenced by insect and fungal infestation

Current strategies for storage of food grains at national and international level

Practical

Practical on Fermentation, sprouting, malting and puffing of cereals, millets and pulses Practical based on different methods of domestic food preservation

Suggested Readings

- Frazier WC and Westhoff DC (2014). Food Microbiology, Fifth Edition. TMH Publication, New Delhi.
- Manay NS and Shadaksharaswamy M (2008). Food-Facts and Principles, Third Edition.New Age International (P) Ltd. Publishers, New Delhi.
- Mathur P. (2018). Food Safety and Quality Control. Orient BlackSwan Pvt. Ltd., Hyderabad.
- Potter NN and Hotchkiss H J (1996). Food Science, Fifth Edition.CBS

Publication, New Delhi.

- Suri, S. and Malhotra, A. (2014). Food Science Nutrition and Safety. Delhi: Pearson India Ltd.
- Mohini Sethi, Eram Rao (2011). Food science- Experiments and applications, Second Edition. CBS publishers & Distributors Pvt Ltd.

HSC /GE/UG 13 EARLY CHILDHOOD CARE AND EDUCATION CREDIT: 04

I. Course Outcomes:

Students after successful completion of the course will be able to:

- 1. Understand the meaning and importance of Pre-school/Early childhood education
- 2. Acquire a critical knowledge about various activities for pre-school children

Unit I early childhood years: developmental milestones, development during early childhood: physical, cognitive, social, emotional, moral and language development factors influencing physical, cognitive, social, emotional, moral and language development

Unit II: Historical perspective

Concept of learning: definition, essential features, types and principles of learning Learning environment: reinforcement, punishment, motivation and discipline

Unit III: Learning philosophies

Theories for classroom teaching and its applicability-Jean Piaget, Erik Erikson, Maria Montessori, Lawrence Kohlberg Indian: Rabindranath Tagore (1861–1941), Gijubhai Badeka, M.K Gandhi, Tarabai Modak

Unit IV Family: types of families and their effect on development of child Types of parenting and their effect on children

Unit V: Principles of Early Childhood Education

Objectives; Need and significance; Basic Principles;

The Playway Method; Early Childhood education services in India- Government Sector-ICDS, NIPCCD, NCERT etc; Voluntary Sector-ICCW, Balwadi, MobileCreche's, ECCE centers etc.; Private Sector (Nursery,Pre- Primaryetc)

Unit VI: Play

Concept of Play; Play and Learning; Role of play in development; Play as a means of understanding children's development; Different types of play among preschool children (unoccupied behaviour, onlooker, solitary independent play, parallel activity, associative play, cooperative or organized, supplementary play)

Unit V:: Project - Visit a locality and other public spaces to note all the facilities available for children for play, learning and skill building and report writing Preparation of education material for nursery school children

References:

1.NCERT (1991), A Guide for Nursery School Teachers, NCERT, New Delhi

- 2.Seth Kanta, Ahuja Kavita (1996), Minimum Specifications for Pre-Schools, NCERT, NewDelhi
- 3.Kohn Ruth (2003), The Exploring Child- A Handbook for Pre-Primary Teachers, Orient Longman, Delhi
- 4. Chowdhury D Paul (1995), Child Welfare/Development, Atma Ram & Sons, Delhi
- 5. Certificate Course in Organizing Child Care Services, IGNOU, (Block1to6)
- 6.Grewal JS (1998), Early Childhood Education—Foundations and Practice, Har Prasad Bhargava, Agra

FOOD SAFETY, SANITATION AND HYGIENE

(Skill Enhancement Course) (Elective)

HSC/SEC/UG 14

Course title & code	credits	lecture	Tutorial	Practical\ practice	Eligibility criteria	Pre- requisite of the course (if any)
HSC /SEC/UG 14- Food safety, sanitation and hygiene	2	1		1	Class XII	NIL

Learning objectives

- To understand food safety principles and its importance in preventing the foodborne illnesses.
- To understand the importance of sanitation in food handling and preparation.
- Implementing personal hygiene standard.

Learning Outcomes

After successful completion of the course, the students will be able to

- 1. Enumerate the various aspects of food safety and to identify the causes and prevention procedures for food borne illness, intoxication and infection
- 2. Understand the need for consumer education and discuss occupational safety and health administration requirements.
- 3. Analyze food handling procedure, describe food storage and refrigeration techniques.
- 4. Evaluate labelling methods by following the principles of food safety, sanitation and hygiene
- 5. To create awareness regarding sanitation of dishes, equipment and kitchen.

II. Theory Syllabus

- Unit I Food safety- Definition, Meaning factors affecting food safety importance of food safety Risks and hazards Food related hazards microbial consideration in food safety- Food safety and standards bill 2005
- Unit II Basic principles of Food hygiene and Sanitation Personal and environmental Hygiene Hygiene aspects of Food handlers- Hygiene aspects in preparation and storage of food dish washing and garbage disposal-Safety of leftover foods Methods of sanitation and hygiene
- Unit III Food Adulteration and Adulterants: Meaning, Methods to identify the presence of adulterants-Types of adulteration in various foods-Intentional, incidental and metallic contaminants - Consequences of adulteration
- Unit IV Safety in Food processing –Regulatory compliance requirement for establishment of food outlets Frame work for enabling environment for serving safe and nutritious food at food establishment or outlets. Sterilization and disinfection using heat and chemicals Solid and liquid waste management and disposal.
- Unit- V Objectives of developing Food Safety and Standards- Enforcement of structure and procedure - Role of food analyst- good practices- statutory and regulatory requirements - Certification - HACCP, ISO-22000, FSSC-22000

References:

- 1:- Sunetra Roday, Food Safety and Sanitation, Tata McGraw-Hill Education, 2017
- 2:- Norman G. Marriott and Robert B. Gravani, Principles of Food Sanitation, Springer, 2018
- 3:- Dr. Anju Singh & Dr. Gouri Goyal, Bhojan posan awam swachhta, Sahitya Bhawan Publication, 2022
- 4:- krishna Sinha, Bhojan posan awam swachhta, Rakhi Prakashan, 2021

regional diversity of traditional embroidery techniques.

B.A. (Home Science) Semester V (DSC)

Surface Ornamentations of fabrics (Theory)

Programme/Class:	Year: III				
Degree					
Course Code: HSC/DSC/UG 15					
	Credits:3				
Course outcome: - 1:-Students will gain					
contemporary techniques for embellish	ing fabrics, including embro	idery, printing, dyeing,			
and appliqué.					
2:- To provide students with in-depth knowledge of mechanical finishing processes used in					
extiles and materials, including their purpose, applications, and impact on fabric properties.					
3:- To provide students with a thorough knowledge of the history, cultural significance, and					

Unit	Topics
I	Textile Finishes
	Definition, purpose, type, basic / routine /preparatory finishes, singeing, desiring,
	scouring, bleaching, stiffening, weighting, mercerization, carbonizing, sanforising
TT	Markania I Diniakan
II	Mechanical Finishes
	Napping, Gigging, sue ding, glazing, raising, immersing, flocking, brushing, shearing, beating, tendering, calendaring, schreiner zing, moaring and embossing
	beating, tendering, carefulating, sememer zing, moaring and embossing
III	Functional Finishes
	Waterproof and water repellency, shrinkage control, wrinkle resistance, durable press and flame retardant finish, mildew proof, soil resistance, anti-static, anti-piling, wash and
	wear, flame resistance, flame proof and anti-bacterial finish
	wear, frame resistance, frame proof and anti-oacterial finish
IV	Dyeing (a) Classification of dyes- Natural v/s Synthetic, advantages and
	limitations(b)Theory of Dyeing(c)Properties and use of Dyes-Basic, Acidic, Direct, Azoic,
	Neutral, Sulphur, Vat, Disperse and Reactive dyes (d)Resist Dying
	Techniques-Tie-Die, Batik
V	Printing (a) Direct Printing- Block, Screen, Stencil, Roller (b) Transfer Printing (c)
	Discharge printing, Resist Printing (d)Polychromatic, Inkjet and Digital printing
VI	techniques(e)After treatment of dyed and printed goods Introduction to various components required for hand- embroidery
V I	Knowledge of basic hand embroidery, stitches- running, hemming (visible/invisible), back
	stitch, overcasting, catch stitch, button whole stitch, basting, slip stitch, satin, chain,
	herringbone, cross, French knot
VII	Traditional Embroideries: Meaning and status of traditional crafts of India, Knowing
	about the Traditional Embroideries of different states: Zardozi, Kashida of Kashmir,
	Phulkari of Punjab, Kantha of Bengal, Chikankari of UP, Kasuti of
	Karnataka, Sindh and Kutch work of Gujarat.
VII	Traditional Textiles: Knowing the Traditional textiles of different states of India(a) Woven
	fabrics- Baluchars, Brocades, Kashmir carpets, Patola, Ikat, Pochampalli, Chanderi (b)
	Printed, painted and dyed –Sanganeri, Bhagru,
	Kalamkari, Madhubani, Bandhani

Suggested Readings:

- Marsh JT: Textile Finishes
- Trotman Er: Dyeing and Chemical Technology of Fibers
- Joseph M: Introduction to Textiles
- Corbman P Bernard: Textiles- Fiber to Fabric
- Hollen & Saddler: Introduction to Textile
- J. Hall: The standard Handbook of Textiles, Wood Head Publication, 2004
- J.E. Smith: Textile Processing-Printing, Dyeing, Abhishek Publishing, 2003
- Kate Broughton: Textile Dyeing, Rockport Publishers, 1996
- W.S. Murphy: Textile Finishing, AbhishekPublication,2000
- Naik.D.Shailaja,TraditionalEmbroideriesofIndia,NewAgeInternationalPubli shers,1996
- Naik.D.Shailaja,Jacquie.A.Willson:SurfaceDesigningofTextileFabrics,NewAgeInternationalPublishers, 2006
- Bharga,Bela.VastraVigyaan,Univ.BookHousePvt.AvamDhulaiKala,UniversityBook HousePvtLtd.Jaipur
- Patni, Majnu, Vastra Vigyaan Avam Paridhanka Parichay, Star Publications, Agra. Sug gestivedigital platforms weblinks-

Swayam Portal, https://heecontent.upsdc.gov.in/Homeaspx

This course can be opted as an elective by the students of following subjects: Open for all

Suggested Continuous Evaluation Methods

- Seminar on any topic of the above syllabus
- Test with multiple choice questions/short and long answer questions.
- Subjective long questions
- Attendance

Course prerequisites: To study this course the student must have had the subject ALL in $class/12^{th}$

Practical (e) Techniques of Surface Ornamentation of Fabrics

Programme/Class: Degree		Year: III		
Course Code: HSC/DSC/UG 15				•
	Credits:1			
Unit	Topic			
Ι	Demonstration of dry cleaning, visit to a commercial dry-cleaning unit/Textile mill.			ial dry-cleaning
II	Identification of labels.			
III	Dying Techniques- Tie- Die, Batik			
IV	Printing Techniques- Block, Screen, Stencil, Roller, Spray			
V	Traditional Embroideries of different states: Zardozi, Kashida of Kashmir, Phulkari of Punjab, Kantha of Bengal, Chikankari of UP, Kasuti of Karnataka, Sindhi and Kutch work of Gujarat			
VI	Preparation of different weaves on Cardboard			

Community Development and Programme Planning (Theory)

Prog	ramme/Class:	Y ear: III	
Course	Degree Code: HSC/DSE/UG 016		
Course			
	Credits:4		
Unit		Topics	
I		ent: Meaning, Definition, f Community Developmen	
II		ent Organization: Meaning & Administrative Structure elevels.	
III			nity Development: Origin, ome Science Extension Education
IV	training and Employmen	rogramme for Women & at for women (STEP), Swa ed Child development Serv	rn Jayanti Gram Swarozgar
V	Support Service of You Clubs etc.	nth Development: NCC, N	NSS, Youth Camp, Youth
VI	& Role of NGO-WHO,		rds community services, Types DIA.
VII		Definitions, Types, Importation thods of Identifying and T	nce, Function and Role of raining of Leaders
VIII	components-Designing		mponent cycle and its bjectives, Identifying resources, on, Monitoring and Evaluation

Community Development Organizations (GE)

Cr. Hrs. 4

Course Code- HSC/GE/UG 17

- **Unit 1:-** Definition, need, types of community organizations and institutions, Principles and procedures in community organization, Involvement of basic institutions in rural development programmes
- **Unit 2**:- Importance of Mahila Mandals, objectives and functions. Importance of youth clubs, organization and functions of youth clubs, Panchayat Raj System in India Government sponsored programmes for family development-IRDP, DWCRA, NREP, RLEGP, TRYSEM etc.
- Unit 3:- Role of non-governmental and voluntary organizations of family development.
- Types of co-operatives in the development of weaker sections in the rural areas.
- **Unit 4:-** Programme planning meaning, need and principles Abilities needed by the planners Steps in programme planning, Criteria for good programme planning
- Unit 5:- Programme implementation, monitoring and evaluation; Identification of local leaders, local bodies, Government Organizations for development of family programme

 Important aspects in programme execution. Identification of local leaders, local bodies, Government

 Organizations for development of family programme

Suggested Readings:

- 1:- Meera Goyal, samudayik vikas awam karyakram niyojan, SBPD publishing house, 2023
- 2:- D N Srivatava and Vartika Agnihotri, Samudayik vikas awam karyakram niyojan, Sahitya Bhawan, 2023

B.A. (Home Science) Semester VI

Dietetics and Therapeutic Nutrition (Theory) (DSC)

Programme/Clas	SS	Year:	Semeste	r: VI	
Degree		III			
Subject: Home			·		
Science					
Course Code		Course Title: Dietetics and T	Course Title: Dietetics and Therapeutic Nutrition (Theory)		
HSC/DSC/UG/1	8				
Course outcome					
1- Knowledge o					
2-Develop and understand modification of the normal diet for therapeutic purposes 3-					
Practical knowledge of dietary management in some common disorders.					
Credits:4				Core Compulsory	
	-				
Unit	Topics			No. of Lectures	
I	Introduction				
	` '	on of Health Dietetics and Therap	peutic Nutrition		
	\ / <u>-</u>	ance of Diet Therapy			
	· /	oout fast foods/Junks foods			
	` '	ves of therapeutic Diet			
		les of diet therapy			
II		eding methods			
	(a) Modification of normal diets for therapeutic purposes				
	(b) (b)Methods of modifications				
	On the basis of nutrients				
	On basis of consistency				
	(c) Differen	t feeding methods			
	• Oral	l feeding			
	• Tub	e feeding			
III	Energy Metabolism				
	(a) The ca	lorific value of food			
		rement of energy exchange in the			
	(c) Factors	s influencing the Basal Metabolic	Rate		
	(d) Factors	s influencing total energy requires	ment of body		
***	D: . 1 :	0 1:0 ::			
IV		fevers and infections			
	(a) Intro	oduction to fever–Acute Fever, Cl		A 1'C C .1	
	Important changes in nutrition during fever (c) Modification of the				
X 7	D: -4 -1:	D:	diet		
V	V Diet during Digestive systems disorders			D: 1 1	
		lcers-Causes, symptoms and diet		Diarrnea and	
Constipation-Causes, treatment and diet modification					
VI	Weight Mar	nagement			
V 1	_	r weight and Obesity			
		roduction to obesity			

	-Causes of Obesity -Diet Modification (b)Underweight -Causes -Treatment			
	-Diet Therapy			
VII	Therapeutic Diets in Cardiac Diseases			
	(a) Atherosclerosis			
	-Introduction			
	-Dietary factors influencing lipid level in blood			
	-Modification of diet and Meal Pattern			
	(b) Hypertension			
	-Causes and symptoms			
	-Diet in Hypertension			

Suggested Readings:

- ❖ Sumati R Mudambi-"Fundamentals of food, Nutrition and Diet Therapy", New Age Internation Pvt. Ltd, New Delhi, 6th Edition (2018).
- ❖ BSrilakshmi-"Dietetics", New Age International Publishers, New Delhi2017.
- ❖ Bamji MS, Krishna swamy K and Brahman GNV (Eds) (2009), Text book of Human Nutrition, Edition, Oxford & IBH Publishing Co. Pvt. Ltd New Delhi.
- Dr.Brinda Singh-Aahar Vigyan evam Poshan, Panchsheel Prakashan, Jaipur, 2015; 13thEd.
- Dr.Devinasahani, Samanya Evam Upcharatmak Poshan, New Age International Publishers.
- ❖ Dr.SheelSharma, "Nutritionand Diet Therapy", PEEPEE Publishers and Distributers (P) Ltd. Delhi, 2014, Ist Ed.
- ShubhanginiAJoshi,-"Nutritionand Dietetics", McGraw Hill Education Private Ltd., NewDelhi,2013.
- ❖ KumudKhanna-"Textbook of Nutrition and Dielectric", Elite Publishing House Pvt. Ltd, New Delhi, 7th Ed. 2013.
- ❖ MS waminathan-Essentials of food nutrition, VolII, Applied Aspects, The Bangalore Printing Publishing Co. Ltd, Bangalore, 2ndEdition 1985, Reprint1997.

Suggested Continuous Evaluation Methods:

- Test with multiple choice questions/short and long answer questions
- Menu Planning and calculation of nutrient requirement
- Seminar on any above topics

Suggested equivalent online courses:

IGNOU and other centrally/state operated Universities/ MOOC platforms such as "SWAYAM" India and abroad.

http://heecotent.upsdc.gov.in/Home.aspx

Further Suggestions:

• Students can opt. dietitian, nutrition advisor/Nutritionist as a career in private and government sector as well as extend knowledge by joining advance course in same discipline.

Subject: Home Science				
Course Code:		Course Title: Practical (f) Therapeutic Diet		
HSC/DS	C/UG/018			Nutrient Evaluation
Courseout	comes:1-Gain Knowledge	e of principle	s of diet therapy	ý
	andunderstandmodification			
Practicalki	nowledgeof dietary manag	gement in sor	ne common dis	orders.
	Credits:2		Co	ore Compulsory
	1			
Total No.	of lab. Periods-30			
Unit	Т	Copic		No. of lab. Periods
I	Modification of normal	diet for thera	apeutic	06
	purposes, preparation a	nd presentation	on	
II	Therapeutic Diet prepar	ration and Nu	ıtrient	08
	Calculation of			
	-Diet in fever			
	-Diet in diarrhea			
	-Diet in Constipation			
III	TherapeuticDietPrepara	itionandNutri	entC	08
	alculationofsomecomm	onDisorders		
	-Diet in Diabetes Mellit	tus		
	-Diet in Hypertension			
	-Diet in Atherosclerosis			
IV	Dietary Modification for weight management-		08	
	Preparation and Nutrier	nt Calculation	of diet in-	
	-Over weight & obesity	7		
	-Underweight			
Cyronastad	Doodings			

Suggested Readings:

- ❖ SumatiR. Mudambi- "Fundamental of food, Nutrition and Diet Therapy", New Age. International Pvt. Ltd, New Delhi, 6thEdition (2018).
- ❖ B.Srilaksmi, "Dietetics", New Age International Publishers, New Delhi 2017
- ❖ Bamji MS, KrishnaswamyK and Brahmam GNV (Eds) (2009), Text book of Human Nutrition, 3rdedition, Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi.
- ❖ Dr.Sheel Sharma, "Nutrition and Diet Therapy" PEEPEE Publishers and Distributers (P) ltd. Delhi, 2014,Ist Ed.

Suggested Continuous Evaluation Methods:

- Test with multiple choice questions/short and long answer questions
- Menu planning and calculation of nutrient requirement.

Suggested equivalent online courses:

IGNOU and other central/state operated Universities/MOOC platforms such as "SWAYAM" in India and a broad Svayam Portal.

Family Welfare and Community Education (Theory)

Program	me/Class:	Year:	III	Semester: VI	
De	gree				
	Subject: Home Science				
Course Code	: HSC/DSE/UG 019	Course Title:	Family Welfa	are and Community Education	
			(Theory)		
	Credits:4		C	Core Compulsory	
TotalNo.ofPeri	iods-60				
Unit		Topic			
I	Child and Family W	elfare:			
	Children's rights an	nd National Polic	y for Childre	n. Demographic profile of child in	
	India. Children with				
	Deprived Children a		en, juvenile D	elinquency.	
				•	
II	Family and child welfare services working at national and international level;				
	C.S.W.B., ICCW ICDS and others, W.H.O. UNICEF, CARE, and ILO.				
	Rural extension services and community ICDS, DWCRA, IRDP and CHEB				
III	Family relationship, Child Parent relationship, responsibilities of parts				
		relationship of h	ome, school a	nd community.	
		•		•	
IV	The role of teacher and other specialists in parents and community education				
		-	-	ork, guidance of child, youth ethical	
	consideration in dea		•		
		•	nd community		

Suggested Readings:

- 1. Gangrade, K.D. (1971) Community Organization in India. Popular Prakashan, New Delhi
- 2. Dahama, O.P. and Bhatnagar, O.P. (1980) Extension and Communication for Development, Oxford and IBH.
- 3. State of World Children, UNICEF Annual Publication.
- 4. HansNagpaul.(1980)Culture, Education and Social Welfare. Chand and Company, New Delhi.
- 5. Chaudhry, D. Paul, (1980). Child Welfare and Development. NIPCCD, NewDelhi.

Suggested Continuous Evaluation Methods:

- Test with multiple choice questions/short and long answer questions
- Menu planning and calculation of nutrient requirement.

Suggested equivalent online courses:

IGNOU and other central/state operated Universities/MOOC platforms such as "SWAYAM" in India and abroad Svayam Portal.

http://heecontent.upsdc.gov.in/Home.aspx

Diet and Nutrition Counselling

Generic Elective

HSC/GE/UG 20

I. Learning outcomes

After successful completion of the course, the students will be able to

- 1. Define Dietician and recall the qualities, role and responsibilities of a dietician
- 2. Describes or explains the steps in diet and nutrition counseling
- 3. Uses the skills in assessment of nutritional status of normal and diseased people
- 4. Relate practical skills in dietary counseling of various health and disease conditions
- 5. Develop teaching aids and uses computer applications and smart phones in diet counseling

II. Theory Syllabus

UNIT-1 Introduction to Dietitian and IDA

- Dietician Definition and Educational qualification
- Types of Dieticians Clinical, academic, research, specific, food service, public/ Community, industrial, consultant, sports, business etc.
- Qualities, Role and responsibilities of Dietician
- IDA Objectives, membership; Registered Dietician eligibility for R.D. exam

UNIT-2 Diet Counselling/ Nutrition Care Process (NCP)

- Diet Counseling/ Nutrition Care Process (NCP) Definition, importance, purposes and ethical principles
- Steps in Diet counseling Process; Documentation SOAP
- Counseling Skills for a Dietitian; Tools of Dietitian; Guidelines for effective Counseling

UNIT-3 Counselling Approaches

- Counselling Approaches Meaning, Developing a counselling approach
- Different Counselling Approaches Psychoanalytical, behavioural, humanistic, Patient centered GALIDRAA approaches etc.

UNIT-4 Nutrition Education

- Nutrition Education Meaning and importance,
- Teaching Methods and aids used for Nutrition Education in the Community Teaching Methods Lecture, Group discussion, Role Play, Storytelling, Demonstrations, Nutrition Exhibition, Marathon race etc.
- Teaching Aids Posters, pictures, models, charts, flash cards etc.
- Teaching Materials for patients Models, pamphlets, leaflets, book

UNIT-5 Use of Modern Technology in Diet Counselling

- Use of Computers in Diet Counselling and Nutrition Education
- Use of Computer Applications and Mobile Applications in Diet Counselling and Nutrition Education; Computer and mobile applications available for Diet Counselling
- Pre requisites for setting up a Diet Counseling Center

Project- Visit to a hospital and studying routine hospital diet and report writing
Preparation of teaching aids in the field of nutrition
Preparation of case history of a patient and feeding information and report writing

References

- Srilakshmi, B. "Dietetics", 8th edition, 2018, New Age International Publishes, New Delhi
- IDA, Clinical Dietetics Manual, 2018, 2nd edition Elite Publishing House New Delhi
- Corinne H. Robinson, Marilyn R. Lawler, "Normal & Therapeutic Nutrition" 17th edition 1986
- Shubangini A Joshi, "Nutrition & Dietetics" 5th edition, 2022, McGraw hill Education India Pvt. Ltd.
- Judy Gable "Counselling Skills for Dietitians" 2nd edition, 2007, Black Well Publishing Ltd, Oxford, UK.
- "Clinical and Therapeutic Nutrition M.Sc." published by directorate of Distance Education, Swami Vivekanand Subharti University, Meerut, U.P.
- Linda Snetselaar "Nutrition Counselling Skills for the Nutrition Care Process" 4th edition, 2021, Jane and Bartlett Publishers, London

Semester VII

HSC/ DSC/PG 101: ADVANCED FABRIC AND CLOTHING CONSTRUCTION CREDIT: 04

UNIT I:

Yarn construction—mechanical and chemical spinning; Different stages of yarn construction; Types of yarn—simple, textured and spun; simple—simple, ply, cord; novelty; ply, cable, double and novelty; yarn numbering and yarn twist

Blends-meaning, types, process and reasons for blending, difference between blends and mixed.

Unit II:

Weaving technology: Definition, main operations; Characteristics of woven fabrics; Selvedge-types; Types of weaves.

Loom-Parts of loom; Classification and types of looms; Motions of the loom Non-woven fabrics-meaning, types, methods and uses (Felting, Bonded and non-woven fabrics etc.)

Knitting technology: Definition, classification, material and equipments; Methods of knitting–Weft knitting and warp knitting; Uses and disadvantages of knitted fabrics

Unit III

Equipment used in clothing construction

Sewing machine: Parts and attachments; common defects and remedial measures, care and maintenance

Anthropometric Measurements: Need; taking measurements for different garments; precautions and method; tools and materials.

Unit IV

Techniques of clothing construction:

Drafting: Meaning and importance; tools, method and precautions; drafting on paper and cloth;

Pattern making: Meaning and importance; parts of pattern; tools required; symbols used and general rules.

General principles of clothing construction; Steps in clothing construction: Preparation of fabric for clothing construction; preparing layout; marking of cloth; principles of cutting; principles of stitching; finishing

Unit V:

Use of construction features in design- seams, darts, tucks, pleats, gathers, placket opening, Shirring. Different types of—necklines, collars, yokes and sleeves.

References:

- 1. Vastra evam Paridhan, Shashi Prabha Jain and Archana Jain, Shiva Prakashan, Indore
- 2. Parivarik Paridhan Vyavastha, Manju Patni and Sapna Henry, Star Publications
- 3. Vastra Vigyan ke Mool Sidhanth, G.P. Sherry, Vinod Pustak Mandir
- 4.Griha Vigyan Vishwa kosh, Rama Sharma and M.K Mishra, Arjun Publishing House

HSC/ DSE/PG 102: RESEARCH METHODS AND STATISTICS

CREDIT: 04

- **Unit I** Research in Home Science- concept need and approaches, Research approaches-problem oriented and interdisciplinary. Type of research Historical survey, experimental and case study
- **Unit II** Definition and identification of research problem selection Hypothesis, basis assumption and limitation of research problems
- Unit II Sampling: Types of samples and selection of samples, data collection techniques: cross-selection and longitudinal, studies: questionnaire, interview schedule, observation, labtechniques.
- **Unit IV** Editing of statistical data, classification and tabulation, role of statistics in research, elementary statistics: classification, tabulation and frequency distribution of data.
- Unit V Measures of central tendency- Mean Median and Mode

Measures of dispersion—standard deviation. Probability, normal distribution and use of normal distribution, probability tables, t-test for small sample, use of computer for analysis of data, Report writing.

References:

- 1.Gupta, S.P., Statistical Methods, Sultan Chand and Sons, New Delhi, 1994
- 2.Jain, Gopal Lal, Research Methodology, Methods, Tools and Techniques, Mangal Deep Publications, Jaipur, 1998
- 3. Kothari, C.R.: An Introduction to Operational Research, Vikas Publishing House Pvt. Ltd, NewDelhi, 1994
- 4. Wright, Susan E., Social Science Statistics Allyn and Bacon Inc., London, 1986
- 5. Wisniekwski, Mik, Quantitative Methods for Decision Makers, McMillan India Ltd., New Delhi, 1986

HSC/DSE/PG 103: THEORIES OF HUMAN DEVELOPMENT CREDIT: 04

Unit I:

Maslow's self-actualization theory Freud's psychosexual or psychoanalytic theory Erikson's psychosocial theory

Unit II:

Skinner's theory of Operant or instrumental conditioning Pavlov's theory of classical conditioning

Thorndike's Trial and Error Learning

Unit III:

Kohlberg's six stages of moral reasoning

Unit IV:

Piaget's cognitive development theory

References:

- 1.Morgan, Kingetal(1999):"Introduction to Psychology", Tata McGraw-Hill Edition, Delhi, India
- 2. HurlockE (2000): "Child Development", Tata McGraw-Hill Edition, Delhi, India
- 3.Bal Vikas evam Bal Manovigyan, Brinda Singh, PanchseelPrakashan, Jaipur

HSC/DSE/PG/104 ADVANCED FOOD SCIENCE

CREDIT: 04

Unit-1

Different food groups and their nutritive values

Cereals: Breakfast cereals— Uncooked and ready to eat products; Cereal-based products—processed, fermented and baked

Pulses and legumes: Composition and processing; Toxic constituents of Pulses and elimination of toxic factors.

Nuts and oilseeds: Use and processing

Fats and oils: Functions of oils and fats in food; Processing of fats

Unit-2

Fruits: Composition and nutritive value

Vegetables: Classification, composition, nutritive value and methods of cooking

Unit-3

Meat: Composition, cooking of meat; Changes produced during meat cooking; Meat substitutes

Fish: Type, composition and cookery, preservation and processing

Egg: Nutritive value and structure; Storage and processing; Effect of heat on egg protein; Egg products; Egg cookery; use of egg as a thickening agent and an emulsifying agent. Milk: Composition and importance; Milk processing; Milk products; Milk substitute.

Unit-4

Sugar: Different types of sugars; Indian confectionary

Spices and condiments: Role of major and minor spices and their use; active principles in Some spices, Adulteration of spices.

References

 Amerine MA, Pengborn RM, RoceasierEB(1965). Principles of Sensory Evaluation and Academic Press, NewYork. 2. Srilakshmi, B. Food Science, 4thEdition, New Age Publishers, New Delhi.

PRACTICAL 01- Clothing Construction and Food Preparations (HSE/ DSE/ PG 105) Compulsory

CREDIT: 04 Practical:

- 1. Drafting and lifting plan of different weaves on graph paper and glaze paper
- 2. Visit to a cloth weaving unit and report writing
- 3. Hand knitting samples/article
- 4. Construction of darts, pleats, tucks, gathers; basic seams; collars and sleeves.
- 5. Drafting of adult basic bodice and sleeve block and stitching of blouse and kurta
- 6. Understanding and handling of sewing machine: various parts; accessories; care, common defects and remedial measures
- 7. Preparation of research proposal in home Science and its report writing. Important National and International food preparations

HSC/GE/PG 106 Rural Sociology (Credit 03)

UNIT I: Rural Sociology: Meaning, definition, need to study, scope and importance, difference between rural and urban society.

Structural differentiation, the traditional/modern dichotomy, the rural urban continuum and socio-cultural obstacles or pre-requisites to development

Unit II Planned social change

- (a) Approaches to rural planning: Improvement and transformation
- (b)Indian rural development Programmes- critical analysis of development
- (c) Programme, particularly Integrated Rural Development Programme and their consequences

UNIT III: Indian Rural social stratification

Castes -Basic notions, regional variations, changes and its role in economy and polity

UNIT IV: Indian Rural Institutions

- a- Social: Family-Nature, Forms and changes
- b- Economic-Objectives and techniques of production: land relations
- c- (Ownership, tenancy and labour)

Rural poverty – its manifestations and causes

Physical structure of rural society social organization of rural society

UNIT V: Rural leadership – meaning, principles of leadership, types of leaders,

qualities of leader,

selection of rural leaders. Status of women in Rural India, Role of women in Rural and Agricultural Development.

References: 1 nslkbZ, vkjHkkjrh; xzkeh.klekt'kkL=, University book house Jaipur

- 2. Doshi S . L. rural sociology, university book house Jaipur
- 3. Ahuja Ram Social Problems in India, University book house Jaipur
- 4. Aggrwal G. K xzkeh.k lekt'kkL= % vkxjk % lkfgR; Hkou
- 5. çlkj f'k{kk| gjiykuh | LVkj iqfCyds'kUl | vkxjk
- 6. çlkj f'k{kk ,o alkeqnkf;d fodkl | ikVuh ,oa Bkdqj| f'kokçdk'ku

HSC/VAC/PG107: Dissertation

Dissertation on major (4+2) or Dissertation on minor or academic projects / entrepreneursh

Semester VIII

HSC/DSC/PG 108: FOOD SAFETY AND PRESERVATION CREDIT: 04.

Unit1

Food sanitation and hygiene, Food borne diseases

Unit2

Food Adulteration and Consumer Protection Fortification of foods with vitamins and minerals Novel and processed supplementary foods Enzymes in food processing

Unit-3

Evaluation of foods: Visual examination and sensory evaluation (Colour, texture, flavour and taste), Fermented foods, pickles, sauces.

Unit4

Causes of food spoilage, Food preservation—Principles and methods Preserved and processed products from fruits and vegetables

REFERENCES

- 1:- Sunetra Roday, Food Safety and Sanitation, Tata McGraw-Hill Education, 2017
- 2:- Norman G. Marriott and Robert B. Gravani, Principles of Food Sanitation, Springer, 2018
- 3:- Dr. Anju Singh & Dr. Gouri Goyal, Bhojan posan awam swachhta, Sahitya Bhawan Publication, 2022
- 4:- krishna Sinha, Bhojan posan awam swachhta, Rakhi Prakashan, 2021

HSC/DSE/PG 109: LIFE SPAN DEVELOPMENT CREDIT: 04

Unit I:

Development during different stages of life cycle.

Prenatal period, conception and pregnancy, stages of prenatal development, factors affecting prenatal development, complications of pregnancy and birth process, Preschool period-physical growth and motor skills development, language, speech and social development, skill in play, influence of nursery school and home environment on habits and development. Problems of this stage of growth

Unit II:

Elementary school years- physical growth and health, motor personality, social, emotional, cognitive, language, interests and personality development, effect of peers, school and media,

role of parent and teacher, problems of this stage of growth.

Unit III: Adolescence

Puberty and Adolescence-definition and characteristics

Physical changes during puberty and adolescence

Developmental tasks of adolescence Social and emotional development during adolescence. Factors affecting social

and emotional Development. Role of parents, teachers, peers and society. Problems of adolescence—drop out from education system, juvenile delinquency— causes and prevention, addiction and alcoholism. Problems of adjustment, identity crisis.

Unit IV: Early Adulthood

Characteristics; Sub-stages; Developmental Tasks Problems: Adjustments, Interests, Vocational, Marital life and adjustments, Divorce, Re-marriage, Unmarried life/singlehood

Middle age;- Characteristic; Subdivision; Developmental tasks, problems, some common problems unique to this stage, Physical changes, Health, Changes in interest, Vocational, Changing family pattern.

Unit IV: Old Age

Characteristics; Subdivisions; Developmental Tasks Types of Changes during ageing: Physical, Sensory, Sexual, Health, Changes in motor abilities, Changes in mental abilities and cognitive capacities, Changes in interests, Retirement, Loss of spouse; Vocational and Family life hazards of old age; Consequences of ageing.

REFERENCES

1.Vikasatmak Manovigyan, Rajendra Prasad Singh, Jitendra Kumar Upadhyay,Rajendra

Singh; Motilal Banarsidas, NewDelhi.

- 2.Baal Vikas evam Baal Manovigyan, Vrinda Singh, PanchsheelPrakashan, Jaipur
- 3.Hurlock B Elizabeth (1981), Developmental Psychology— A Life Span Approach, Tata Mc Graw Hill
- 4. Hurlock B Elizabeth (1978), Child Growth and Development, Tata McGraw Hill
- 5. Hurlock B Elizabeth (1997), Child Development, Tata McGraw Hill
- 6.Papalia E Diane & Olds Wendkos Sally (1975), A Child's World-Infancy through

Adolescence, McGraw-Hill Book Company

7.Berk E Laura (2000), Child Development, Allyn and Bacon

HSC/DSE/PG 110: ADVANCED HOME MANAGEMENT

CREDIT: 04

Unit1

Management in family living, characteristics of management in home, role of home management, misconceptions regarding home management Roles and responsibilities, characteristics and functions of a home manager

Unit2

Values—Concept, characteristics, classification and factors influencing values Goals—Concept, types, factors influencing goals Standards—Concept, classification of standards Interrelatedness of values, goals and standards

Unit3

Management process: Planning, organizing, leading, controlling and evaluating Decision making: Concept, steps, factors affecting, kind Resources: Meaning and definition, role, characteristics, classification

Unit4

Time Management: Tools-peak-loads, work-curves, rest periods and work simplification

Energy Management: Classification of efforts used in homemaking, fatigue- types and

Causes, Work simplification: Techniques- pathway chart, operation chart, micromotion film

analysis and path process chart

Unit5

Money Management: Budgeting- Definition, importance and steps in planning a budget. Account keeping-importance, types of account systems, methods of handling money,

family financial records.

References:

- 1. An Introduction to Family Resource Management, Premavathy Seetharaman, Sonia Batra and Preeti Mehra, CBS Publishers and Distributors
- 2. Economics of the household, B A Drew, Mc Millan company, New York.
- 3. Consumer Economics, Dr. Richard, Irwin, Illinois (1983)

HSC/DSE/PG 111: EXTENSION IN HOME SCIENCE

CREDIT: 04

Unit1: Home Science: Concept, objectives, areas and relationship with extension

Extension: concept, goals and history

Origin and need of Home Science Extension Education

Unit 2 Home science extension worker: Role and Qualities, Extension education methods.

Communication skills: verbal and non-verbal communication. Relationship between, communication, extension and development.

Role of Home science in rural development, Role of women in rural development **Unit 3** Methods and media of community outreach; Audio Visual aids in Home Science extension education Agencies (national and international) associated with extension education for rural development. Diffusion of innovation and adoption through extension.

Unit 4 Community development: Understanding communities and their characteristics. Organization, principles, characteristics and functions

Role of home scientists in community development

Welfare program for rural women and children. (DWARKA, ICDS and other social welfare program (TRYSEM, JRY)

References:

- 1. Griha Vigyan Prasar Shiksha, Manju Patney and U.S Thakur, Shiva Prakashan Indore
- 2. Communication for Development in the Third World Theory and Practices (1991). SagePublication, New Delhi.
- 3. Chaubey BK (1990) A Handbook of Education Extension, Jyoti Publication, Allahabad
- 4. Singh, R. (1987) Textbook of Extension Sahitya Kala Prakashan, Ludhiana
- 5. Extension Education in Community (1961) Ministry of Food and Agriculture, Government of India,

New Delhi

6. Extension Programme Planning, Oxford and IBH Publishing Company Pvt. Ltd. New Delhi

PRACTICAL 2 (HSE/DSE/PG 112): Practical Aspects of Extension Education CREDIT: 04

- 1. Preparation of recipes from different Indian states
- 2. Preparation of low cost high nutritive value recipes
- 3. Visit and Report Writing to Gram Panchayat.
- 4. Visit and report Writing to household industry.
- 5. Visit and report writing on family court / Legal aid centres.
- 6. Collection of paper cutting / pamphlets related to any specific topic.
- 7. Plan and prepare slides / C.D. on any concerned topic
- 8. Preparation and use of slides use and handling of instructional aids
 - 8. Demonstration as an instructional technology-method and result demonstration.
 - 9. Group discussion, lesson planning.

10. Making family budget for different income groups while taking into consideration savings and Taxes

HSC/GE/PG 113: Marriage and Family Dynamics

Credit: 04

Unit I

Marriage – Meaning, marriage as an institution, goals of marriage, selection of life partner, changes in marriage and their causes. Family life cycle. Readiness of marriage-physiological, social, psychological and others. Preparation for marriage

Family – Definition, functions, and types (with reference to family life cycle), characteristics of family, Family structure in India

Unit II

Patterns of changes in family relationships

Unit III

Marital adjustment – factors contributing to difficulties in marital adjustment, adjustment to life partners,

sexual adjustment, adjustment to in-laws, adjustment to partner hood.

Contemporary issues in Family life

Break-up of extended family, migration, dual career families, Non-traditional families, influence of extra familiar factors, films, TV, peer groups, neighbourhood and school

Breakup of family: Divorce, separation, desertion, death of partner, single parenthood

Unit IV

Marriage guidance and counselling – meaning of counselling, factors causing tension in married life, importance of marriage guidance and counselling, areas in marriage requiring guidance.

Legal aspects: laws regarding marriage, adoption, divorce, inheritance

References:

Manav vikas – Shasi Prabha jain, Shiva Prakashan, Indore

HSC/VAC/PG 114: Dissertation

Dissertation on major (4+2) or Dissertation on minor or academic projects / entrepreneurship.

Semester IX

HSC/DSC/PG115: COMMUNITY NUTRITION (Compulsory DSE)

CREDIT: 04

Unit1:

Prevalence, ethology, biochemical and clinical manifestation and preventive measures for: Protein Calories Malnutrition- Kwashiorkor and Marasmus

Unit II:

Prevalence, ethology, biochemical and clinical manifestation and preventive measures for:

Iron deficiency, Iodine deficiency; Fluorine Deficiency and Toxicity

Unit III:

Prevalence, ethology, biochemical and clinical manifestation and preventive measures for

Vitamin A deficiency; Beri-Beri, Pellagra; Scurvy; Rickets, Osteomalacia and Osteoporosis

Unit IV:

Nutritional assessment and surveillance—Meaning, need, objectives and importance Anthropometry—Need, importance, types, standards for reference Biochemical methods—Laboratory and biochemical assessment Clinical assessment—Need, importance, identifying signs of deficiency diseases Diet surveys—Need, importance, method

HSC/DSE/PG/116: INDIAN EMBROIDERIES, DYEING AND PRINTING TECHNIQUES

CREDIT: 04

Unit I:

Dyes-Definition and classification of dyes
Different types of dyes: Natural dyes- Vegetable, animal and
mineral; Synthetic dyes-direct, acid, basic, reactive, vat, sulphur,

mordant, disperse, pigments. Suitability of various dyes to different fibres.

Unit II:

Dyeing methods at different stages of processing—fibre, yarn, piece, union and cross Colour fastness characteristics—washing, sunlight, crocking and perspiration Domestic methods of dyeing

Unit III:

Printing-Significance, methods-block, stencil, screen, roller, Faults in printing, Advantages

and disadvantages of different printing methods. Preparation of printing paste, use of various ingredients and thickeners. Preparation of cloth for printing. After-treatment of

printed goods.

Unit IV

Historical background of traditional Indian embroidery General embroidery techniques; Hand embroidery– Knowledge of basic hand embroidery stitches Study of traditional embroideries of India: Texture, design and colour,

Chikankari of Uttar Pradesh, Kantha of Bengal, Kasuti of Karnataka, Kutch Kathiawar of Gujarat, Phulkari of Punjab, Sindhi embroidery

Unit V

Traditional Textiles of India: Texture, design and colour

Woven (in design)–Patola, brocade, chanderi, paithani, pochampalli, ikat, maheshwari Printed woven fabric– dacca muslin, tassar, kotadoris

Printed-Sanganeri, kharhi print of Gujarat

Painted-kalamkari, madhubani

Resist dyed-bandhej of Gujarat and Rajasthan

Khadi: Significance-National and economic; Revolution in Khadi

Handloom: Definition, role in national economy and some chief handloom clothes of India

References:

Vastra Rachna evam Chappai Takneek, Jain and Gupta, Shiva Prakashan, Indore

HSC/DSE/PG 117: CHILD WELFARE IN INDIA

CREDIT: 04

Unit I: Child Welfare in India Concept and historical perspective, Need and relevance Historical

evolution of Child welfare Rights of children; Protection of Child rights; Convention on the rights of the child in the

Constitution of India

Unit II: Profile of child in India Demographic: Total population, Child population, Sex ratio, Infant

Mortality Rate (IMR), Literacy, School enrolment rate

Unit III: Children at Risk Children in especially difficult circumstances, Children in emergency

situation, Disabled child, Destitute child, Street child, Delinquent child, Working child Social problems

related to children – female foeticide (pre-birth and preconception elimination), juvenile delinquency,

child labour, child abuse and child marriage, discrimination against girl child

Unit IV: Policies and Legislations for Child Welfare National Children's Board, The National Policy

for the Child, The National Children's Fund, Child Labor Cell Child Labour Act; PC-PNDT Act; Child

Marriage Act, The Children's Act, Juvenile Justice Act, Right to Education Act

Unit V: Child Welfare agencies and programmes in India International, national and local agencies –

governmental and non-governmental (UNICEF, ICCW, Mobile Creches, Bal Bhwan) Welfare programs –

ICDS, Mid-day Meal Programme, Universal Immunization Programme, etc

References:

- 1. Baig, T.A. (1979): Our Children. New Delhi: Ministry of Information and Broadcasting, Govt. of India
- 2. Chowdhry, D.P. (1980): Child Welfare and Development. Delhi: Atma Ram

HSC/DSE/PG 118: HUMAN PHYSIOLOGY CREDIT: 04

Unit I Physiological process, structural and functional basis of human body

Skeletal system, joints and muscular system

Unit II Composition and functions of blood and lymph, heart and course of blood circulation, blood pressure, pulse and heart sounds

Unit III Physiology of digestion, digestive enzymes and their function, function of liver, absorption from the intestine

Unit IV Respiratory apparatus, mechanism of respiration, respiratory rates, volume and transport of gases, physiology of kidney and skin

Unit V The location, secretion and functions of various endocrine glands, male female reproductive organs, pregnancy parturition and, milk secretion

REFERENCES

- Arhur J. Banders; Human Physiology- The mechanisms of body function,
 Tata Mc Grawaw-Hill Publishing
- 2. C. Guyton; Text book of Medical Physiology Vth edition, W.B. Sanders company-Philadelphia, London.

PRACTICAL 3 (HSE/DSE/PG 119): Nutritional Assessment and Surface Ornamentation of fabrics CREDIT: 04

- 1. Familiarize students with methods of assessment of nutritional status and conduct single person case study to assess and evaluate nutritional status or carry out a survey using anthropometric measurements.
- 2. Construction of articles using different types of printing and dyeing techniques
- 3. Sample preparation of traditional Indian embroideries and machine embroideries Preparation of two articles using different hand embroideries Preparation of two articles using machine embroideries (patch work, applique, braiding, smocking, beading and sequins), Documentation of Indian textile and costumes.

HSC/GE/PG 120: Psychological Testing and Measurement (Credits: 03)

Unit I:

Introduction to psychological testing: Need, Meaning, objectives, uses and design Difference

between testing and measurement Criteria of a good physiological test; reliability, validity and standardization

Unit II:

Measurement of intelligence and creativity intelligence: Meaning, types of intelligence tests;

some standardized intelligence tests

Unit III:

Measurement of aptitude and attitude aptitude: Meaning, Types of Aptitude test attitude Meaning,

attitude scales

Unit IV:

Assessment of personality Behavioural methods of personality assessment personality inventories

projective techniques

References:

- **1.** Adhunik Manovaigyanik Prikshan evam Maapan , Mahesh Bhargava, H. P. Bhargava Book House , Agra
- 2. Phychological Testing, Urbina Anastasi

HSC/VAC/PG 121: Dissertation

Dissertation on major (4+2) or Dissertation on minor or academic projects / entrepreneurship.

Semester X

HSC/DSC/PG 122: INTERIOR DECORATION CREDIT: 04

Unit I Factors affecting housing needs and demand in India population, income, occupation, family mobility and technological development. Solving India's housing problems, needs obstacles setting goals, standards, role of central and state Government and local housing agencies, rent control policies housing schemes.

- **Units II** Introduction to interior decoration, importance of interior planning and decoration, planning principles for specific areas.
- Unit III Element and principles of design and their application in interiors, principles of Harmony, proportion, balance and rhythm, application of elements and principles of design in interior planning and decoration.
- **UNIT IV** Developing House plans for different income groups

 Characteristics of different rooms.

Planning for background areas and their treatment, floors walls ceilings and their structural characteristics, finishes and techniques of preparation and decoration.

- **Units IV**(a) kitchen- Definition, need, important arrangement of kitchen work area and types of kitchens.
 - (b) Building material- Cement, Sand, POP etcDifferent types of flooringFalse ceiling, wall lining and partitionPaint, vanishes, Distemper.Concept of air-conditioning
- Units V Furniture arrangement, types of furniture and selection criteria, window treatment, types of windows and its parts, functional and decorative treatment, Light sources and colour scheme, Developing light plans for different areas, Functional and decorative accessories for interiors.

References

- 1. Drothy Stepat- Devan and Others- Introduction to interior Design, N.Y. Macmillan 1980.
- 2. Mike Lawrence: The Complete interior Decorator U.K. Macdanald, 1986.
- 3. Faulker and Faulker, inside today's home, N.Y. Holt Rinehart and Winston, 1975

HSC/DSE/PG123: HUMAN NUTRITION AND DIET THERAPY CREDIT: 04

Unit I Nutrients in foods: their functions, requirements and sources digestion absorption and utilization of nutrients. Effect of low and excess intake of nutrients on human body Energy requirement, BMR, Water, its functions, sources and routes of excretion, recommended dietary allowances

Unit II Methods of assessment of nutritional status

Unit III BMR, Diet therapy: History of dietetics, effect if illness on food acceptance and utilization, role of dietician, taking patients history, education of patient and dietetic counseling.

Unit IV Therapeutic modifications of normal diet, food exchange lists feeding methods, principles of dietetic management of chronically ill patients

Unit V Causes, symptoms and principles of diet management of

- Fevers (Long and short duration)
- Peptic ulcer, gastritis
- Jaundice, hepatitis cirrhosis and infantile cirrhosis
- Diarrhea, constipation
- Cardiovascular diseases, hyper lipidemia, hypertension, congestive heart failure
- Nephritis (acute and chronic) renal stone, gout, arthritis
- Diabetes mellitus, obesity and underweight (PCM)
- Diet in surgery, fractures, burns injury, allergy and AID

References:

- 1. A Text book of food and nutrition by M. Swami Nathan, Ganesh Publishers, Bo1 I & II.
- 2. Clinical Dietetics and Nutrition by F.P. Antia, Oxford University Press. New Delhi, London & New York
- 3. Human Nutrition and Diets by S. Deevidoon, R. Pasamore, J.F. Brock and A.S. Truwell, Churchill and Livingstone.

4. Modern Nutrition in Health & Disease, Yong & ShailsNormel & Therapeutic Nutrition by F.T. Proud fit & C.H. Robinson.

HSC/DSE/PG 124 CHILDREN WITH SPECIAL NEEDS CREDIT: 04

Unit I

Children with special needs: Definition, characteristics, classification according to types of impairment

Special education for children with special needs

Unit II:

Mental retardation: definition and levels, causes, identification, educational provisions Gifted and creative children: definition, characteristics, special needs, identification and

Educational provisions

Unit III:

Visually handicapped children: Classification, identification and educational provisions

Hearing impaired: Classification, identification, causes and educational provisions

Unit IV:

Children with orthopaedic impairments: Definition, classification, causes, educational provisions

And rehabilitation

Children with behaviour disorders: autism and aggressive behaviour

References:

1.Bhargava M. (1994)-Introduction to Exceptional Children, Sterling Publishers, New

Delhi.

3. Kar Chintamani (1996) – Exceptional Children: Their Psychology and Education, Sterling

Publishers, New Delhi.

- 4. Sahu B.K. (1993)–Education of the Exceptional Children, Kalyani Publishers, New Delhi
- 5. Vishisht Avashyakta wale bacchon ki shiksha tatha nirdeshan evam paramarsh, Vinay Rishivar, Agarwal Publications
- 6. VishishtBalak, Abha Rani Bisht and Swati Saxena, Agarwal Publications
- 7. Vishesh Avakshyataonwaale Bacche Part I and II, DECE-3, Bacchonke liye sewaye nevam karyakram, IGNOU
- 8.VishishtBaalak— Shiksha evam Punarwaas, Mahesh Bhargava, H.P. Bhargava BookHouse, Agra

HSC/DSE/ PG 125 FASHION: DESIGN AND DEVELOPMENT

Unit I: Nature and Business of Fashion

- Fashion terminology
- Importance of Fashion

• Principles of Fashion; Fashion cycle

Business of Fashion

• - Designer's role, Manufacturer's role, Retailer's role

Unit II: Fashion Forecasting

- Market research
- Forecasting services and resources; Process of Forecasting

Unit III: Product and Line Development

- Process of Product and Design Development
- Line Development
- Organising the Line

Unit IV: Apparel Categories

- Fabrics for apparel
- Clothing categories
- Size ranges and price points

References

Fringes, G.S. (1999), Fashion from Concept to Consumer, 6th edition, NJ, Prentice Hall. Keiser, S.J., and Garner, M.B., (2008), The Synergy of Apparel Product Development, II Edition, Fairchild Publications, USA.

Stone, E., (2008), The Dynamics of Fashion, III Edition, Fairchild Books, China. Kim, E., Fiore, A.M., Kim, H., 2011, Fashion trend analysis and forecasting, published by Berg, 49-51 Bedfor

PRACTICAL 4 (HSE/DSE/PG 126):- Interior Decoration and Therapeutic Nutrition Unit 1

Assessment of dietary and nutritional status of some families. ; Planning and preparation of diet during normal and diseased conditions

Unit 2

Drawing house plans with standard specifications

Furniture layout of living room, dining room, kitchen and bedroom.

Interior design of residential spaces based on ergonomics and anthropometric data.

Planning color schemes of different rooms for different activities.

Development of design and construction of curtains, cushions, carpet, table mats.

Flower arrangement; Wall painting, picture frame.

Preparing drawings for different interior spaces.

- a. Arrangement of walls
- b. Arrangement of floors
- c. Ceiling arrangements

Unit 3

Study of aetiology, characteristics, diagnosis of children with different disabilities and recording information.

Visit of centres and institutions for special children and recording information and observation.

Writing report.

HSC/GE/PG 127 Gender in Extension

Credit-3

Unit I: Social Construction of Gender

- Concept of gender, difference between sex and gender
- Cultural construction of gender- socialization and gender roles-historical and contemporary perspectives
- Patriarchy and gender relations, Changing status of women- influencing factors, role of women's movements.
- Feminism, Feminist theories and gender perspectives Demographic analysis

Unit II: Gender and Development Perspectives

- Concept and importance of women's development
- Role and participation of women in development.
- Theoretical frameworks and approaches towards women and development.
- Policies and initiatives for women's development- international and national perspectives.
- Globalization and its impact on Gender and development

Unit III: Gender Issues and Empowerment

- Problems, vulnerabilities and marginalization of women– lifecycle approach
- Issues and impact of marriage and kinship systems, socio cultural practices, health, education, livelihood, poverty—access and control of resources on women's lives.
- Violence in women's lives- concept, nature, impact
- Women and work- invisibility, opportunities and participation in workforce
- Political participation of women and leadership
- Women's empowerment problems and limitations.
- International and national initiatives in gender sensitization and supporting women empowerment.

Unit IV: Gender and Advocacy

- Human Rights and women- women's right to development.
- Gender and Law- Laws governing gender empowerment-social, legal and political perspectives. Issues of enforcement of laws and women's protection.
- Women's Development Programmes and policies: National policy for empowerment of women, schemes and programmes.
- Women's empowerment and Media- images and representation of women in different media, women's voice in media, participation in production.

RECOMMENDED READINGS

• Dube, L. (2001) Anthropological Explorations in Gender-Intersecting Fields New Delhi: Sage Publications.

• Goel, A. (2004) Education & Socio-Economic Perspectives of Women Development and Empowerment.

New Delhi: Deep & Deep.

•Kishwar, M. (1994) Off the Beaten Track – Rethinking Gender Justice for Indian Women. Mumbai:

Oxford University Press.

• Goel, A. (2004) Violence and Protective Measures for Women Development and Empowerment. New

Delhi: Deep & Deep.

• Goel, A. (2004) Organisation & Structure of Women Development and Empowerment. New Delhi: Deep & Deep.

• Krishna, S. (Ed) (2003) Livelihood and Gender Equality in Community Resource Management. New

Delhi: Sage Publications.

• Powell, G. (1999) Handbook of Gender & Work. London: Sage Publications.

HSC/VAC/PG128: Dissertation

Dissertation on major (4+2) or Dissertation on minor or academic projects / entrepreneurship.