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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 IN HOME SCIENCE SYLLABUS

DEPARTMENT OF HOME SCIENCE

(HSC 1,2 and 3rd year syllabus)

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

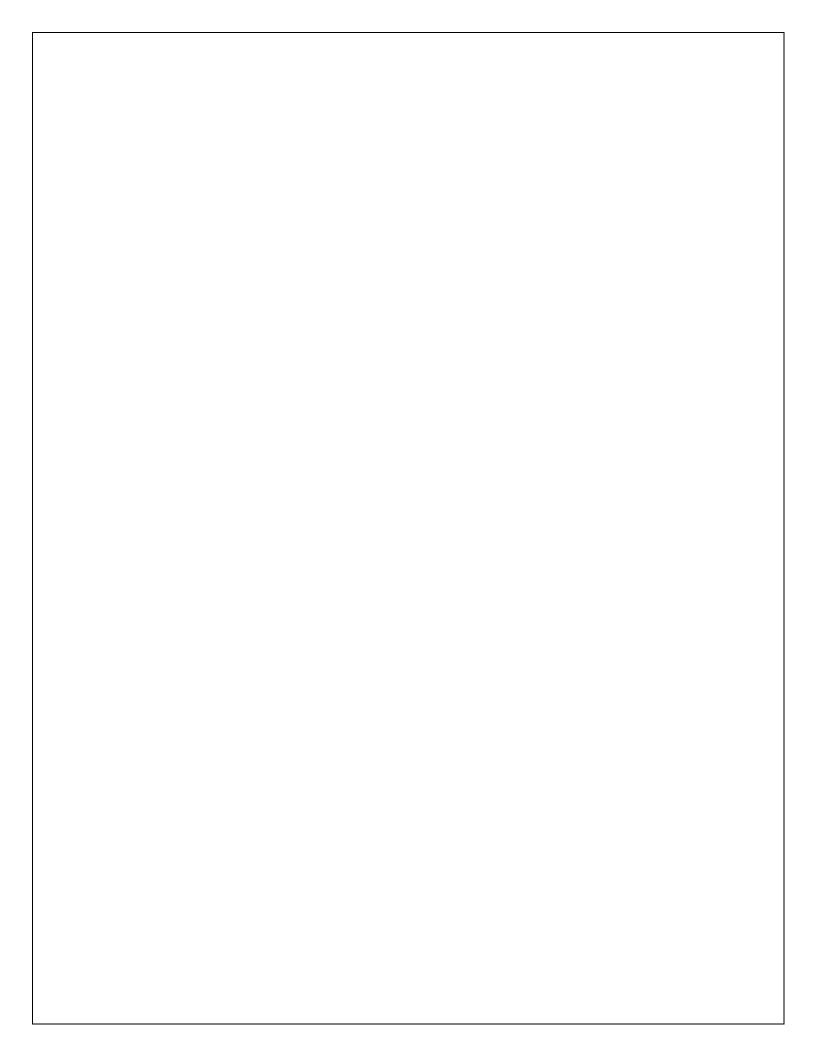
S.no	Name and Designation of Expert	
1	Professor Lata Pande Convenor and Head, Department of Home Science D.S.B Campus, Kumaun University, Nainital, Uttarakhand	Convenor
2	Dr Chhavi Arya Associate Professor Department of Home Science, D.S.B Campus, Kumaun University, Nainital, Uttarakhand	Co-Convenor
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

Science'	st of P	Papers	(DSC,	DSE,	GE) wi	th Sen	iester V	Wise '	Titles 1	for 'H	lome
	ience'	,									

Year	Semester	Course	Paper Title	Theory/ Practical	Credits
		Pag			
	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)
	II	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 Certific	cate (in the field of Multidisciplinary stud	ly)	
	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

Undergraduate Diploma (in the field of Multidisciplinary study)								
	V	DSC	Surface Ornamentation of Fabrics	Theory	3			
			Practical (e) Techniques of Surface Ornamentation of Fabrics	Practical	1 (Compulsory)			
	VI	DSE	Community Development and Programme Planning	Theory	4			
THIRD YEAR		GE	Resource management for sustainable development	Theory	4			
		DSC	Dietetics and Therapeutic Nutrition	Theory	3			
			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			
		Bachelors	(in the field of Multidisciplinary study)					

Sem este r	Course code	Core (DSC)	Elective (DSE)	Generic Elective (GE)	Skill Enhancement Course (SEC)
I	HSC/DS C/UG 01 (4 credit)	Fundamentals of Nutrition and Human Development- (3TH) Cooking Skills and Healthy Recipe Development (1 Practical)		` ′	House Keeping (2) HSC/SEC/UG 003
I 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)	•	Family finance management HSC/DSE/UG 008 (4)	hip for Small Catering units (4)	-
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	Fabrics -(3 Th)	Community Development and Programme Planning- (4) HSC/DSE/UG 016	Resource management for sustainable development (4) HSC/GE/UG 017	
V	HSC/D SC/UG 018 (4 credit)	Nutrition-(4 Th) Therapeutic Diet Preparation	Family Welfare and Community Education- (4) HSC/DSE/UG 019	Diet and Nutrition Counselling (4) HSC/GE/UG 020	



(Undergi	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.

Department of Home Science Semester-I

BACHELOR OF HOME SCIENCE

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

HOME SCIENCE							
Programme: CERTIFICAT	E	Year: I	Semester: I Paper: DSC				
Subject: HOME SCIENCE (credit 3+1)							
Course: HSC/DSC/UG 01 Course Title: Fundamentals of Nutrition and Human Development (Theory)							

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	Topi	ic			
	Part A- Funda	mentals 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-advantag Methods (Dry and Moist Heat meth Preservation of Nutrients while Coo of foods-germination, fermentation	nods), importance, Advantages a oking. Traditional methods of en	hancing nutritional value		
	Hun_	nan 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, 6 th 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)(5thed.).
	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 paperis 10+2 with 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

Programme/Class:		Year: I	Semester: I
Certificate			
	Su	bject: Home Science	
Course Code: HSC			kills and healthy recipe
Course Outcomes	:	<u> </u>	
•	et familiar with different months with practical knowledg	•	
	Credits:01	Core Compulsory/Elect	ive
Unit	Topic	I	
I	Basic Cooking skills		I
	- Weighing of r	aw materials, Preparing of diff	erent food items
II	Preparation of various	s dishes using different method	ls of cooking
	 Boiling/steamin Roasting Frying-Deep/sh Pressure cooking Hot air cooking Baking 	nallow	
III	- Salad Decorat	tting fruits and vegetables ion/Dressing Napkin Folding	
IV	Preparation of nutrient Protein rich di Carbohydrate Fat rich dish Vitamins rich Minerals rich Fiber rich dish Suggested Readings: Dr.Brinda Sin 2015,15 th Ed. Dr.Nitu Singh Chatterjee,C.C Text Book of Sumati R Muc "Fundamental t.Ltd, New De	trich dishes sh rich dish dish dish gh, Manav Kriya Vigran Pana "Prayogik Grih Vigyan, Sahity C, "Human Physiology" Medic Biology for 10+2 Students (NO	a Prakashan, Agra al Allied Agency; VolI,II. CERT) py",NewAgeInternationalPv Suraksha evam Poshan";Elite

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

	Programme/ Class:	Year: I				
	Certificate					
			ome Science			
Course	e Code: HSC/GE/UG 02	Course Title: 7	•	OOD PRESERVATION		
	Credits: 4		Mi	nor Elective		
Unit		Topic				
I	and mold, Importa microorganisms bas Classification of food	nce of bacter sed on tempe I based on pH,	ia, yeast and molds rature, pH, nutrient	ed with foods- bacteria, yeast in foods. Classification of and oxygen requirements. ntoxication, definition of shelf le foods.		
II	definition, principle of	eration: Introdu of freezing, char	uction to refrigeration nges occurring during	n, cold storage and freezing, freezing, types of freezing i.e., nanges during thawing and its		
III	means of preservation, diffe	zation, and blar oisture control rences between	ching. - Drying and Dehydrat sun drying and dehydr	tion - Definition, drying as a attion (i.e. mechanical drying), iers used in the food industry.		
V	•	radiation, kinds	s of ionizing radiations on processing in food in	used in food irradiation, ndustry.		
VI	Traditional Methods a) Smoking b) Sun dry d) Fermentation					
VII	processing unit, cold quality control and r	storage plant e	-	egetable Processing Unit, milk production processes and		
Sugge	ested Readings:					
	1. B. Srilakshmi, Food science	e, New Age Pub	ishers,2002			
	2. Meyer, Food Chemistry, N	ew Age,2004				
	2 D A C O D Cl !		a Nia Ladra Billiot III	2042		

- 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	ubject: Home Science	

Course Coo	de: HSC/DSC/UG 04 Course Title:		
Credit 3+1	Introduction to Clothing, Fashion and Family Resource Management		
Course Ou	itcomes:		
	 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)		
I	Introduction a) Introduction to Clothing and Textile (b) Its importance in day-to-day		
	life (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		
III	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		
	<i>g,</i>		
	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 class12th.

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 stitched 		
Credits:1	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		
П	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 difference gathers, tucks and pleats (d)	<u> </u>	lness-darts,

Suggested Readings:

me.aspx

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

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)

Course Code: HS	SC/GE/UG 05		p Management	
		1: - Students will l		
		1: - Students will l		
Course Outcom	nes:			
			be able to explain the core concepts of	
			including its role in economic development, the	
			entrepreneurs, and the challenges of	
		entrepreneurial ve		
			learn to assess and identify viable business	
			nalysing market needs, customer preferences, and	
		industry trends.	2 4 121 6 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
			acquire the skills to create comprehensive business	
		strategies, and risk	narket analysis, financial planning, operational	
_	Credits: 4	Strategies, and risk	Minor Elective	
Unit	Cieuris. 7	Topic	WHITOI EJECTIVE	
Omt		Part- A (Tl	heary)	
I	 Entrepreneurship		•	
	Entrepreneurship – Definition, need, scope and characteristics of entrepreneurship development and employment promotion Identification of			
	Opportunities			
	Opportunities			
II 1	Entrepreneur and	d enterprise, en	ntrepreneurial qualities, assessing	
		qualities, environment scanning and opportunity		
		chods source and type of opportunity, assessment criteria		
	and profiling oppor		. 11	
	1 011			
III	Infrastructure and support system, Industrial support agencies, Procedure and steps			
	involved in settin	g up an enterprise, s	sources of information and industry organization.	
IV	Project planning and formulation of project, identification and product selection,			
			final selection market survey, market alternatives,	
	an overview of	the future, Product of	development, Product Selection, Preparation of	
			project report	
		duct management,		
J	management and a	ecounting, market m	nanagement, crisis management.	
7/1				
VI	Internation with an	tranganaura and rana	ort writing visit to any antronronaurial	
Interaction with entrepreneurs and report writing, visit to any entrepreneurial		or writing, visit to any entrepreneurial		
1	unit and report writing			
DECOMMENT	DED READINGS			

- 1. Ramachandran, Entrepreneurship Development, Mc Graw Hill
- 2. Katz, Entrepreneurship Small 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.

Credits: 2	Vocational Minor		
Units	Торіс		
	Theory		
I	Introduction to fruits and vegetables		
	1. Fruits: Definition, elementary knowledge, types and classification of fruits		
	(fleshy and dry) with local /common examples.		
	2. Vegetables: Definition, elementary knowledge, types and classification of		
	vegetables (root, leafy, stem, flower and fruit) with local/common examples.		
	3. Importance of fruits and vegetables in human nutrition.		
	4. Concept of perishable plant products – maturation and spoilage, shelf life;		
	preservation – need for preservation of fruits and vegetables. Reasons for spoilage		

	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	
Subject: Home Science		
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 (Own and 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 colo			
	system – hue, value and intensity, factors affecting selection of colour in home decoration, colo			
	schemes.			
	rinciple of design-Proportion, Balance, Rhythm, Emphasis, Harmony.			
	Elements of Design and types of design – naturalistic, stylized, geometric and abstract			
IV	Structural and decorative design Home Decors:			
1 V	Furniture: importance, selection of furniture, types of furniture			
	Accessories – Importance, classification			
	Flower Arrangement – Importance, styles, classification, care of cut flowers.			
	i tower 7 thrungement importance, styres, classification, care of cut nowers.			
	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			
	Process, Criteria for Effective Teaching and Learning.			

VII	Extension Teaching Methods- Classification, Factors guiding the selection and use of Extension teaching methods.
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", New Delhi: Sublime Company
- 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) I	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
		<u> </u>
Unit	Topic	
I	Flower Arrangement and Fl	
II	Plans and elevation of difference Preparing drawings for furniture are	rent furniture pieces. rangements considering incomes, size and needs of family.
III	Draw House Plans with Stand	dard Specifications and Furniture Layout.
IV	 Preparation of non-projected flashcard). Construction of message through message thr	owerPoint presentation, Slides) and d communication aids (chart, poster, obile SMS, email, reels or short video on social vironmental issues
		Suggested Readings:
	ace,	gningInteriorEnvironment.NewYork:HarcourtBr Resource Management and Interior
	Decoration, Jaipur: Apple P	_
	 Gnndotra, V. and Jaiswal, N. (2) Delhi: Dominant publishers a Harmon, S. and Kennon, K. (2) (5thEd.). New York: Wiley (Johanovich Inc. Ball, V. K. (1) John Wiley & Sons. Leach, S. D. (1978). Technic Presentation (1stEd.). Archite 0070368057) 	(1975).InsideTodaysHome,NewYork:Rinehart (2008).ManagementofWorkinHome,New (1975).ManagementofWorkinHome,New (1975).ManagementofWorkinHome,New (1976).ManagementofWorkinHome,New
	Publications	to house oundings. New Delin. Intel India

 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
 Bit.ly/3fJfghi https://bit.ly/39mTwGQ https://bit.ly/2JoXB2e
 Bit.ly/3fJfghi https://bit.ly/39mTwGQ https://bit.ly/2JoXB2e
• https://bit.ly/2JoXB2e
• <u>https://bit.ly/3ljkrWf</u>
Swayam Portal,
• https://heecontent.upsdc.gov.in/Homeaspx
This course can be opted as an elective by the students of following subjects: Oper
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.
Theprogramgivinganopportunitytoadvancementtheirknowledgebyenrolli
ngforadvancedspecialized 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.

 $Course\ Title\ \hbox{-}\ Entrepreneurship\ for\ Small\ catering\ units\ (GE)$

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, 2023
- 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> <u>Skill Enhancement Course</u>

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

Subje	ect: 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.

Course 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	s: 2 Vocational Minor
	Total No. of Lectures-45
Units	Topic
	Theory
Ι	Concept of NGO
	 Meaning of NGO and GO
	Difference between Government Organizations and NGO

- 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

Ш **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)

Programm	ne/Class: Diploma	Year: II	Semester: IV	
	Sub	ject: Home Science		
Course Code: HSC/DSC/UG 11		Course Title: Communication Process and Human Development II (Theory)		
Course O	utcomes:		•	
The stude:	nt at the completion of the co	urse will be able to:		
	d communication process			
Credits:3		Core Compulsory		
Unit	Topic		No. of lectures	
	Part A- (Communication Proces	s)	
	communication, eleme process, classification	n, concept, functions, proents of communication, to of communication methods.	ypes of communication ods	
II		nication media, social ne yber-crime and cyber sec		
III	Models of Communication- Different models of communication, important characteristics of good communicators, communication barriers and strategies to overcome barriers			
IV	innovation, innovation	and Diffusion: Innovation decision process, factor ion agent in diffusion process.		
	Part B (l	Human Development II	()	
V	Middle Childhood Years			
	Development tasks and cha	aracteristics of middle ch	ildhood period	
	Physical and motor	-		
	Social and emotion Cognitive developments	-		
	Cognitive developm Language developm			
VI	Puberty and Adolescence			
	Development tasks			
	 Significant physical puberty. 	l physiological influenci	ng and hormonal changes in	
	Self and Identity, Factors in	nfluencing Identity & Pe	rsonality development.	
	 Family and peer rel 	ationship		
	Problems- Drug and Al	lcohol abuse, STD, HIV/	AIDS, Teenage Pregnancy.	

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

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	nme /Class:		Year: II	
Dip	oloma			
	ode: HSC/DSC/UG	11		_
Credits:1		l		
Unit	Topics			
	Topics			
I			cially relevant topics,	
	_	_	nall group communic	ation
	Preparation of fold	er, bookl	et	
II	Preparation of rad	o talk		
	Construction of so	cial mess	age through mobile –	text and video
III				
	To study recent res	earch artic	cles on adolescents an	d write a report.
	To conduct a surve	to assess	s peer pressure/ impac	et of media on adolescents.
IV			•	understand the development of self. on and creativity in adolescents.
V	Interviews of adol problems.	escent gir	ls and boys to underst	and their lifestyle, behavior and
VI	Carry out case stu children, adolesce			ferent life stages, school going
	Suggested Reading	ıgs:		
	00	_	escent Development I	ife Taska, Mc Graw Hill(1977)
		R. Child	<u>*</u>	enehart and Winston 1978
	,	*	or II Kagan I and Hi	ıston A.C. 1990.Child
		ent and Pe	C) Harper and Row Publishers
			Develonment Brook a	nd Cole Publishing Company 1980
		Vikasatm	•	Vinod Pustak Mandir Agra
	Suggestive digital	platfor m	s web links- ePG- Pat	hshala infilibnet, IGNOU, &
	UPRTOU online s	tudy mate	erial.	
	https://bit.ly/3922	•		
	Swayam Portal, ht	ps://heeco	ontent.upsdc.gov.in/H	<u>omeaspx</u>
	· · · · · · · · · · · · · · · · · · ·			•

Suggested Continuous Evaluation Methods	
Assessment of observation report	
Preparation of questionnaire	
Visits records Attandance	
Attendance	

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, New Delhi
- 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.

Course 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

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 a comprehensive understanding of traditional					
and contemporary techniques for embellishing fabrics, including embroidery, printing,					
dyeing, and appliqué.					
2:- To provide students with in-depth knowledge of mechanical finishing processes used					
in textiles and materials including their purpose applications, and impact on fabric					

properties.					
	students with a thorough knowledge of the history, cultural significance,				
Unit	and regional diversity of traditional embroidery techniques.				
	Topics				
I	Textile Finishes Definition purpose type basis / routing /propertory finishes singuing desiring				
	Definition, purpose, type, basic / routine /preparatory finishes, singeing, desiring, scouring, bleaching, stiffening, weighting, mercerization, carbonizing, sanforising				
	scouring, bleaching, suffering, weighting, mercenzation, carbonizing, samonsing				
II	Mechanical Finishes				
	Napping, Gigging, sue ding, glazing, raising, immersing, flocking, brushing, shearing,				
	beating, tendering, calendaring, schreiner zing, moaring and embossing				
III	Functional Finishes				
111	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				
	Free man man and a second				
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				
	techniques(e)After treatment of dyed and printed goods				
VI	Introduction to various components required for hand- embroidery				
	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				
V 11	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,VastraVigyaanAvamParidhankaParichay,StarPublications,Agra.Sug gestivedigitalplatformsweblinks-

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/12th

Practical (e) Techniques of Surface Ornamentation of Fabrics

Programme/Class: Degree		Year: III			
Course Code: HSC/I			'		
	Credits:1				
Unit	Topic				
I	Demonstration of dry cleaning, visit to a commercial dry-cleaning unit/Textile mill.				
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)

Programme/Class:	Year: III	
Degree		
Course Code: HSC/DSE/UG 016		

Course outcomes:

- Understand the Community Development dynamics & organizing system for Development.
- Create awareness about the various development programmes.
- Identify the leadership pattern in the community.
- Impart skills to implement, monitor & evaluate programmes

	Credits:4				
Unit	Topics				
I	Community Development: Meaning, Definition, Functions, Objectives,				
	Philosophy, Principles of Community Development Programmes in				
	India.				
II	Community Development Organization: Meaning,				
	Types, Principles, Role & Administrative Structure at the National, State,				
***	District, Block &Village levels.				
III	Home Science Extension Education in Community Development: Origin,				
	Concept, Need, Importance and Contribution of Home Science Extension Education				
	in National Development.				
IV	•				
1 4	Recent Development Programme for Women & Children: Support to training and Employment for women (STEP), Swarn Jayanti Gram Swarozgar				
	Yojna (SGSY), Integrated Child development Services (ICDS)				
	etc.				
V	Support Service of Youth Development: NCC, NSS, Youth Camp, Youth				
	Clubs etc.				
VI	NGO & Other organizations: Contribution towards community services, Types				
	& Role of NGO-WHO, CARE,				
	UNICEF, UNESCO, UNDPCRY, HELP-AGE INDIA.				
VII	Leadership: Concept, Definitions, Types, Importance, Function and Role of				
	Community leaders, Methods of Identifying and Training of Leaders				
VIII	Programme Planning: Meaning and importance of programme planning in				
V 111	extension, Principles of programme planning, programme development cycle and				
	its components, -Designing the project-Defining the objectives, Identifying				
	resources, approach, feasibility and Work plan. Implementation, Monitoring and				
	Evaluation				

GENERIC ELECTIVE COURSE: RESOURCE MANAGEMENT FOR SUSTAINABLE DEVELOPMENT

Cr. Hrs. 4 (Theory)

Course Code- HSC/GE/UG 017

Learning Outcomes After completing the course, students will be able to:

- Build an understanding of environmental concerns, sustainable development and its challenges
- Understand the concept of resources and developmental issues with respect to sustainable development
- Develop skills in sustainable resource management

UNIT I: Introduction to Sustainable Development 10 hours

- Concept of sustainable development
- Need, objectives and principles of sustainable development
- National and international milestones, initiatives, summits and protocols
- Sustainable Development Goals (SDGs)

UNIT II: Resources and Developmental Issues

- Environmental concerns, population explosion, urbanization, globalization, economic development, ecological footprint, carbon footprint
- Perspectives in resource consumption
- Sustainable management of key resources: Land, green cover, water, air, waste
- Sustainable practices by industry, CSR initiatives
- Green buildings and green building rating systems

UNIT III: Sustainable Resource Management I

- Energy management star labelling, energy auditing, renewable energy
- Water management Rain water harvesting- Calculation of rainwater harvesting potential, water auditing, waste water recycling, water testing

UNIT IV: Sustainable Resource Management II

Waste management – Waste to energy plants, waste to wealth
 Air management – Air quality, AQI

UNIT V Measurement and Indicators of Sustainable Development

Measurement tools of Sustainable Development- Gross National Happiness; Human development Index (HDI); Ecological Footprint (EF),

Indicators of Sustainable Development: Indicators of health; Indicators for zero hunger; Indicators of gender equality

Essential Readings

1. Thakur, B., Thakur, R. R., Chattopadhyay, S., & Abhay, R. K. (Eds.). (2023). Resource Management, Sustainable Development and Governance: India and International Perspectives. Springer.

2. Prasad, R., Jhariya, M. K., & Banerjee, A. (2021). Advances in Sustainable Development and Management of Environmental and Natural Resources: Economic Outlook and Opinions. CRC Press, Taylor & Francis Group. 3. Goel, S. (Ed.). (2016). Management of Resources for Sustainable Development. New Delhi: Blackswan Publications. 4. Somayaji, G., & Somayaji, S. (2009). Environmental concerns and sustainable development: some perspectives from India. New Delhi: TERI Publication. 5. Sundar, I. (2006). Environment and Sustainable Development. New Delhi: APH Publishing Corporation

B.A. (Home Science) Semester VI

Dietetics and Therapeutic Nutrition (Theory) (DSC)

Programme/Class		Year:	Semester	r: VI			
Degree		III					
Subject: Home							
Science							
Course Code		Course Title: Dietetics and	Therapeutic Nutr	rition (Theory)			
HSC/DSC/UG/1	8		(===== 3)				
Course outcome	s:						
Knowledge of		f diet therapy					
		odification of the normal diet fo	r therapeutic purpo	oses			
		etary management in some comm					
	υ	, ,					
Credits:4				Core Compulsory			
				1 3			
Unit	Topics			No. of Lectures			
I	Introduction	1		l			
_		on of Health Dietetics and Ther	aneutic Nutrition				
		ince of Diet Therapy					
		oout fast foods/Junks foods					
	` '	ves of therapeutic Diet					
		les of diet therapy					
II		eding methods					
11		ation of normal diets for therape	utic purposes				
		ods of modifications	aute purposes				
	` ' ` '						
	On the basis of nutrients						
	On basis of consistency						
	(c) Different feeding methods						
	Oral feeding						
	Tube feeding						
III	Energy Metabolism						
	(a) The ca	lorific value of food					
	(b) Measu	rement of energy exchange in th	e body				
	(c) Factors influencing the Basal Metabolic Rate						
	(d) Factors influencing total energy requirement of body						
IV	Diet during	fevers and infections					
	(a) Introduction to fever–Acute Fever, Chronic fever						
Important changes in nutrition during fever (c) Modification of the							
			diet				
V	Diet during	Digestive systems disorders					
(a)Peptic Ulcers-Causes, symptoms and diet modification (b) Diarrhea and				Diarrhea and			
		n-Causes, treatment and diet modification					
	ī	•					
VI	Weight Mar	nagement					
, 	_	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.

Course Code: HSC/DSC/UG/018 Credits:2 Unit Topic Modification of normal diet for therapeutic purposes, Ι preparation and presentation Therapeutic Diet preparation and Nutrient Calculation of II -Diet in fever -Diet in diarrhea -Diet in Constipation III The rapeutic Diet Preparation and Nutrient Calculation of somecommonDisorders -Diet in Diabetes Mellitus -Diet in Hypertension -Diet in Atherosclerosis Dietary Modification for weight management-Preparation and IV Nutrient Calculation of diet in--Over weight & obesity -Underweight

Family Welfare and Community Education (Theory)

Programme/Class:		Year: III		Semester: VI
Degree				
		Subject: Home S		
Course Code	: HSC/DSE/UG 019	Course Title: Family Welfare and Community Education (Theory)		
	Credits:4		C	ore Compulsory
 Course outcomes Understanding about Children's rights and National Policy for Children Learning about Family and child welfare services working at national and international level Understanding family relationship and Child Parent relationships 				
TotalNo.ofPeri	ods-60			
Unit		Topic		
I	Child and Family Welfare: Children's rights and National Policy for Children. Demographic profile of child in India. Children with special needs. Deprived Children and abused children, juvenile Delinquency.			
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 home, school and community.			
IV	The role of teacher and other specialists in parents and community education programmes. Teacher as motivator, community work, guidance of child, youth ethical consideration in dealing with parents and 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. Course outcomes

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

- Define Dietician and recall the qualities, role and responsibilities of a dietician
- Describes or explains the steps in diet and nutrition counseling
- Uses the skills in assessment of nutritional status of normal and diseased people
- Relate practical skills in dietary counseling of various health and disease conditions
- 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