UG Program in HOME SCIENCE (BA)

Program Specific Outcomes (POs)

The program has been framed in such a manner that students receive real feel of quality education by touching all aspects of human lifecycle.

Designed to enhance the capacity of students to understand universal and domain-specific values in Home Science.

Develop the ability to address the complexities and interface among of self, societal and national priorities.

Inculcate both generic and subject-specific skills to succeed in the employment market and standards of life.

Promote research, innovation and design (product) development favoring all the disciplines in Home Science.

This program develops scientific and practical approach among the students which helps in their day today life.

SEMI	ESTED WISE TITLE	ES OF THE PAPERS IN UG HO	OME SCIENCE		
COURSE	LOTER WISE TITLE	S OF THE TAILES IN OUT	ONIE SCIENCE		
YEAR	COURSE CODE	PAPER TITLE REMARK	CREDIT		
First Year		Semester –I			
	HSC100	Introduction to Community Science	2+0		
	HSC101(A130101)	Fundamentals of Nutrition and Human Development	4+0		
	HSC102(A130102)	Healthy recipe development and Food Preparation	0+2		
		Semester –II			
	HSC103(A130201)	Introduction to Clothing and Textile and Resource Management	4+0		
	HSC104(A130202)	Clothing &Textile	0+2		
Second Year	Semester –III				
	HSC201(A130301)	Advance Nutrition and Human Development	4+0		
	HSC202(A130302)	Human Development	0+2		
	Semester – IV				
	HSC203(A130401)	Housing and Extension Education	4+0		
	HSC204(A130402)	Resource Planning and Decoration	0+2		
Third Year	Semester –V				
	HSC301(A130501)	Surface Ornamentation of Fabrics	4+0		
	HSC302(A130502)	Community Development and Programme Planning	4+0		
	HSC303(A130503)	Community Transformation	0+2		
		Semester- VI			
	HSC304(A130601)	Dietetics and Therapeutic Nutrition	4+0		
	HSC305(A130602)	Research Methodology and Gender Development	4+0		
	HSC306(A130603)	Therapeutic Diet Preparation and Nutrient Evaluation	0+2		

B.A./ B.Sc. I Semester I Home Science Introduction to Community Science

	on to Community Scie		Composton 1			
	lass: Certificate	Year 1	Semester 1			
Subject- Home Science CourseCode:HSC100 (A130001) Course Title: Introduction to Community Science						
CourseCod	e:HSC100 (A130001)	Course Title:	Introduction to Community Science			
	Course outcomes:					
	t at the completion of th					
_	e students to understand	_				
	ill get familiar with diffe					
	udents with knowledge					
	e need and importance of					
Identify the	biological and environ	mental factors a	ffecting human development.			
Credits	: 2		Core Compulsory / Elective			
Units	Topic					
I		vience and its R	delevance in current era Contribution made by			
1			iminathan, C V Gopalan, S K Day, Ravindra			
	NathTagore etc.	ists i.e. Wi Swa	inmaman, e v Goparan, s K Day, Kavmura			
	ivami agore etc.					
II	Basic concepts in foo	od and nutrition				
	Basic terms used in	study of food a	nd nutrition			
	_	-	food, nutrition and health			
	Functions of food-Physiological, psychological and social					
III	Introduction to Resor	_				
	Concept, universality		nanagement			
	Approaches to manage	-				
	Ethics in managemen		heory			
IV	Importance of clothing					
	Clothing functions a		rigin			
	Clothing terminology					
	=	onformity, cons	picuous consumption and emulation Selection			
	of clothes for self.					
V	Understanding Hum	an Developme	nt Definitions, scope and multidisciplinary			
	_	nature of Human Development				
	Contexts, stages and	-	elopment			
	_		nent: Norms and Milestones			
VI	Extension: concept, g					
	Principles of extension					
	-		tion and extension - role of extension in			
	development					

Suggested Readings-

- Kumar & Hansra, (1997) Extension Education for Human Resource Development. NewDelhi: Concept Publishers
- Khanna K, Gupta S, Seth R, Mahna R, Rekhi T (2004). *The Art and Science of Cooking: APractical Manual*, Revised Edition. Elite Publishing House Pvt Ltd.
- Raina U, Kashyap S, Narula V, Thomas S, Suvira, Vir S, Chopra S (2010). Basic Food Preparation: A Complete Manual, Fourth Edition. Orient Black Swan Ltd.
- Bamji MS, Krishnaswamy K, Brahmam GNV (2009). Textbook of Human Nutrition, 3rdedition. Oxford and IBH Publishing Co. Pvt. Ltd.
- Marshall S G, Jackson H O, Stanley MS, Kefgen M & Specht T, 2009, Individuality in Clothing & Personal Appearance, 6th Edition, Pearson Education, USA.
- Tate S.L., Edwards M.S., 1982, The Complete Book of Fashion Design, Harper and Row Publications, NewYork.

B.A. / B.Sc. I Semester I Home Science Paper 1 Fundamentals of Nutrition and Human Development

Program/Class: Certificate Subject- Home Science	Year 1	Semester 1					
Subject- Home Science							
		Subject- Home Science					
CourseCode:HSC101(A130101)	CourseCode:HSC101(A130101) Course Title:						
	Fundamenta	lls of Nutrition and Human Development					
Course outcomes:							
The student at the completion of the	e course will	be able to:					
Prepare the students to understand							
Students will get familiar with diff	erent method	s of cooking					
Acquaint students with practical kn							
Explain the need and importance	of studying	human growth and development across life					
Span.							
Identify the biological and environ	mental factors	affecting human development.					
Learn about the characteristics,	needs and	developmental tasks of infancy & early					
childhoodYears.							
Credits: 4 Core Compulsory / Elective							
i							
Part A							
Units Topic							

I	Selection, nutritional contribution and changes during cooking of the following
	food groups: Cereals
	Pulses
	Fruits and vegetables
	Milk & milk products
	With & filling products
	Eggs
	Meat, poultry and fish
	Fats and Oils
II	Cell and Digestive System
	Respiratory and Cardiovascular system
III	Food and Nutrition
	Food- Meaning, Classification and function
	Nutrition- Concept of Nutrition
	Nutrients-Macro and Micro, sources and deficiency diseases.
IV	Cooking Methods- Methods, Advantages and Disadvantages
	Preservation of Nutrients while Cooking.
	Traditional methods of enhancing nutritional value of foods germination,
	fermentation, food synergy etc.
V	Introduction to Human Development:
	Concept, Definition and need to study of Human
	Development
	Domains, Stages and contexts of development
	Principles of Growth and Development
	Determinants of Development- heredity and environment
	Prenatal Development and Birth Process:
	Conception, Pregnancy and Childbirth
	Stages of birth
VI	Prenatal Development and Birth Process:
	Conception, Pregnancy and Childbirth
	Stages of birth
	Types of delivery (natural, c-section, breech, home vs.
	assisted delivery)
	Physical appearance and capacities of the new-born
	Factors affecting Pre-natal development
VII	Infancy:
	Developmental tasks during Infancy and Preschool
	Stage.
	Physical and Motor Development.
	Social and emotional development
	Cognitive and language development
VIII	Early Childhood (Pre School) years:
	Developmental Tasks during Early childhood.
	Physical and Motor Development
	Social and emotional development

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COMMITIVA	and language	davalonment	
(.U911111V	AIRLIANDINASE	: UEVEIODIHEIH	
Cosmuve	and fanguage	e development	

- Dr. Brinda Singh, Manav Sharir evam Kriya Vigyan Panchsheel Prakashan, Jaipur;2015,15th Ed.
- Chatterjee, C.C, "Human Physiology" Medical Allied Agency; Vol I, II.
- Text Book of Biology for 10+2 Students (NCERT)
- Sumati R Mudami, "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, AaharEvamPoshanVigyan, Star Publications, Agra
- Dr.DevinaSahai, AaharVigyan, New Age International Publishers, New Delhi
- Berk, L.E. *Child development* New Delhi: Prentice Hall (2005)(5th ed.).
- Berk L.E. Child Development Allyn and Bacon 1992 (6th) Edition.
- Keenan, T., Evans, S., & Crowley, K. An introduction to child development, Sage (2016)
- Hurlock E. Child Development.
- Aadhunik Vikasatmak Manovigyan , Shri Vinod Pustak Mandir Agra Edition 3rd 2015
- Suggestive digital platforms web links-ePG-Pathshala, IGNOU & UPRTOU online
- study material
- Svayam Portal
- http://heecontent.upsdc.gov.in/Home.aspx

B.A./ B.Sc. I Semester I Home Science Paper 2 Healthy recipe development and Food Preparation

Program/Class: Certificate		Year 1	Semester 1			
Subject- Ho	Subject- Home Science					
CourseCode:HSC102(A130102)		Course Title	: Healthy rec	tipe development and Food		
		Preparation	Preparation			
Course outc	comes:					
Students wi	ll get familiar with diffe	erent methods	of cooking			
Acquaint st	tudents with practical ki	nowledge of n	utrient rich food	ls		
Credits	: 2		Core Com	pulsory / Elective		
Units	Topic					
I	Basic cooking skills					
	- Weighing of raw materials					
	- Preparing of different food items before cooking					
II	Preparation of various	dishes using o	lifferent method	ls of		

	cooking
	- Boiling /steaming
	- Roasting
	- Frying – Deep/shallow
	- Pressure cooking
	- Hot air cooking/Baking
III	Different styles of cutting fruits and vegetables
	- Salad Decoration/Dressings
IV	Preparation of nutrient rich dishes
	- Protein rich dish
	- Carbohydrate rich dish
	- Fat rich dish
	- Vitamins rich dish
	- Minerals
	- Fibers

Suggested Readings:

- Dr. Brinda Singh, Manav Sharir evam Kriya Vigyan Panchsheel Prakashan, Jaipur;2015,15th Ed.
- Dr.Nitu Singh, Prayogik Grih Vigyan, Sahitya Prakashan, Agra
- Chatterjee, C.C, "Human Physiology" Medical Allied Agency; Vol I, II.
- Text Book of Biology for 10+2 Students (NCERT)
- Sumati R Mudami, "Fundamentals of food Nutrition and Diet Therapy", New AgeInternational Pvt. Ltd, New Delhi, 6th Ed. (2018)
- Punita Sethi and Poonam Lakda, "Aahar Vigyan, Suraksha evam Poshan"; Elite
- Publishing House, New Delhi;2015

B.A./ B.Sc. I Semester 2 Home Science Paper I

Introduction to Clothing & Textiles & Family Resource Management

		J	· · · · · · · · · · · · · · · · · · ·				
Program	Class: Certificate	Year 1	Semester 2				
Subject- Home Science							
CourseC	seCode:HSC103(A130201) Course Title: Introduction to Clothing and Textiles& Famil						
		ResourceManage	ement				
Course o	utcomes:						
Learn ab	out scope of textile and c	lothing					
Understa	anding why fabrics are di	ferent					
Learn ho	w fabrics can be manufac	tured					
Understa	and basic clothing concep	ts and garment ma	ıking				
Learn the	e family resource manage	ment as a whole.					
Understa	and the Decision making	and use of resourc	es throughout the Family life cycle.				
Gain kn	owledge about Time, Mor	ney & Energy as a	Resource.				
Appreci	ate Household Equipment	s for work simplif	ication				
Cred	lits: 4		Core Compulsory / Elective				
	, , , , , , , , , , , , , , , , , , , ,						
Part A							
Units	Topic						
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 primaryand secondary
II	Knowing Fibers-Manufacture, processing, properties and uses of
	(a) Cellulosic Fibers-cotton, Linen (b) Protein Fibers-Wool, Silk
	(c) Synthetic/Manmade fibers-Nylon, Polyester, Acrylic, Rayon.
III	Yarn to Fabrics(a) Definition of Yarn, Manufacture of Yarn and
	Yarn Properties (b) Different fabric construction techniques
	(Weaving, Knitting, Felting, Braiding, Non-woven) (c) Weaving of Cloth-Terminologies
	and Steps in Weaving. (d) Types of weaves-Basic and Decorative
IV	Clothing Construction (a)Tools for Clothing construction (b)
	Introduction to sewing machines, its parts and maintenance, (c)
	Importance of Drafting, Draping, Flat pattern techniques -
	advantages & disadvantages (d) fabric preparatory steps for
	stitching a garment - preshrinking, straightening, layout, pinning,
	Marking and cutting.
Part B	
V	Introduction to Home Management: Basic Concepts, Purpose
	And Obstacles of Management. Process of Management – Planning,
	Organizing, Controlling and Evaluation. Motivating Factors in
	Management – Values, Goals and Standards – Definition and
	Classification.
VI	Resources, Decision making & Family life cycle: Meaning,
	Characteristics, Types and Factors affecting the use of Resources.
	Steps and Role of Decision Making in Management. Stages of
	Family Life Cycle.
VII	Time, Energy and Money Management: Time as a Resource,
	Steps in making Time Plan, Tools and Aids in Time Management. Energy as a Resource,
	Work Curve, Fatigue- Types, CausativeFactors and Alleviating Techniques. Family
	income as a Resource, Sources of Income and Expenditure and Saving. Preparation
	ofFamily budget in view of family income.
VIII	Work Simplification and Household Equipments: Meaning and Techniques of Work
	Simplification, Mundell's Classes of Change.Principle, Use and Care of Household
	Equipments such as PressureCooker, Mixer and Grinder, Refrigerator, Washing
	Machine, Vacuum Cleaner & Solar Cooker
C	ted Deadings

- 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-B Kailash Colony, New Delhi –1100048.
- Khanuja, Reena (2018) Grah Vyavastha avam Grah Sajja. Agrawal Publications, Agra ISBN: 978-93-81124-96-3
- 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) Inside Today's Home. Rev. ed. © Holt, Rlnehart & Winston, Inc.
- Gross, I.H. and Crandall, E.H. (1967). Management for Modern Families. N. Delhi: Sterling PublishersLtd.
- Moorthy G. (Ed.). (1985). Home Management. N. Delhi.: Arya Publishers, Mullick, P. Text book ofHome science. Ludhiana.: Kalyani Publishers.
- Nickell, P., and Dorsey, J, M. (2002). *Management in Family Living*. New Delhi:
- CBS Publishers (ISBN13: 9788123908519)
- Patni Manju & Sharma Lalita, Grah Prabandh, Star Publications Agra.
- Varma , Pramila. Vastra Vigyaan Avam Paridhan:Madhya Pradesh Hindi Granth Academy,Bhopal.
- Varghese, M. A. Ogale, N. N and Srinivasan, K. (2001). Home Management.
- New Delhi. New Age International (P) Ltd.
- Varghese, M.A. Household Equipment Manual, S.N.D.T Women's University, Mumbai.
- Suggestive digital platforms weblinks-
- Svayam Portal,
- http://heecontent.upsdc.gov.in/Home.aspx

B.A. / **B.Sc I Semester 2 Home Science Paper 2** Clothing & Textiles

Clouming o	t Textiles						
Program/C	lass: Certificate	Year 1		Semester 2			
Subject- Ho	Subject- Home Science						
CourseCod	le:HSC104(A130202)	Course Title	: Clothing and T	Textiles			
Course out	comes:						
Ability to i	identify fibers and fabric	es					
Understand	ding why fabrics are dif	ferent					
Learning b	pasic Sewing skills						
Learn how	garments are stitched						
Credits	Credits: 2 Core Compulsory / Elective						
Units	Topic						
I	Identify fibers and fab	rics(a)Fibre id	dentification test	ts- Visual,			
	burning and microsco	pic- natural ar	nd synthetic,pure	e and blended fibres.			
	(b) Weaves identificat	ion andunders	standing their us	age			
II	Learning to stitch (a)	Knowing how	to stitch-an idea	a of			
	straight-line stitching,	stitching on c	curves and at cor	mers (b)			
	Basic Stitching-Temp	orary Stitchin	g, Permanent an	d			
	decorative stitching						
III	Basic sewing (a) Sean			_			
	fell seam, French sean	n (b) Attachin	g different Faste	eners (c)			
	Disposal of fullness-d	arts, gathers, t	tucks and pleats	(d)			

	Neckline Finishing-Facing & Binding
IV	Preparing Frock (a)Drafting, cutting and stitching of Childs'
	basic block and sleeve block. (b)adaptation to "Gathered
	frock" with Peter Pan collar and puff sleeves

Suggested Readings:

- Cutting Tailoring and Dress Making: National open School, B-31-B Kailash Colony, New Delhi – 1100048.
- R Bhatia & C Arora (1999), Introduction to Clothing and Textile, Printed by MachoPrintery, Raopura, Baroda.
- Complete Guide to Sewing by Reader's Digest: published by The Reader's DigestAssociation (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.
- Khanuja, Reena. Vastra Vigyaan ke Sidhant, Agrawal Publication, Agra.
- Suggestive digital platforms weblinks-
- Svayam Portal,
- http://heecontent.upsdc.gov.in/Home.aspx

B.A./ B.Sc. 2 Semester 3 Home Science Paper 1 Advance Nutrition and Human Development

Program/Cla	ass: Diploma	Year 2			Semester 3		
Subject- Ho	Subject- Home Science						
CourseCode	e:HSC201(A130301)	Course	Title:	Advance	Nutrition	and	Human
		Develop	ment				
Course outc	omes:						
The student	at the completion of the	e course w	ill be ab	le to:			
☐ Create an	awareness about impor	rtance of h	nealthy m	neal at vario	ous stages of l	ife	
Cycle.							
	healthy eating practice						
_	skill of meal planning f				-		
_	he Physical & Psycholo	_	iges duri	ng middle o	childhood,		
	ent and adulthood stage						
	he biological and enviro				•		
	out the characteristics, r			nental tasks	of Middle		
	od years, Adolescent &	Adulthoo	d stage				
Credits:	: 4			Core Com	pulsory / Ele	ctive	
		Part A					
Units	Topic						
I	Meal Planning- Defini			factors affe	ecting meal		
	planning, Balanced Diet, RDA						
II	Nutrition During Infancy and Childhood- Nutrition Requirement,						
	RDA and Diet Plan						
III	Nutrition During Adol			d and Old	Age. Nutrition	n	
	Requirement, RDA and Diet Plan						
IV	Nutrition During spec	ial conditi	on pregn	ancy and la	ctation		

	Nutrition Requirement, RDA and Diet Plan			
	Part B			
V	Middle Childhood Years			
	Developmental tasks and characteristics of middle childhood			
	period			
	☐ Physical and motor development			
	□ Social & emotional development			
	☐ Cognitive development			
	☐ Language development			
VI	Puberty and Adolescence			
	☐ Development tasks and characteristics			
	☐ Significant Physical physiological and hormonal changes in			
	Puberty.			
	☐ Self and Identity, Factors influencing Identity& Personality			
	Development.			
	☐ Family and peer relationship			
	Problems – Drug and Alcohol abuse, STD, HIV/AIDS, Teenage Pregnancy.			
	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 adulthood			
	☐ Developmental tasks of Adulthood			
	□ Physical and physiological changes from young adulthood			
	to late adulthood			
	Responsibilities and adjustments-educational, occupational, maritaland			
	parenthood			

- Sheel Sharma, "Nutrition and Diet Therapy, Peepee Publishers, New Delhi; 2014
- Ankita Gupta "Text book of Nutrition" Medico Refresher Publisher, Agra, 2018
- Subhangini A Joshi; Nutrition and Dietetics, Mc Graw Hill Education, Private Ltd.
- Kumud Khanna, "Text book of Nutrition and Dietetics", Elite Publishing House Pvt. Ltd,New Delhi, 2013, 7th Ed.
- Swaminathan M, "Essentials of Food and Nutrition Vol I and II
- Monaster G.J. 1 Adolescent Development Life Tasks. Mc.Graw Hill (1977).
- Ambron S.R. Child Development Holt, Renehart and Winston 1978 (IInd Edition).
- Mussen P.H. Conger J.J. Kagan J and Huston A.C. 1990. Child Development and Personality(VI Edition) Harper and Row Publishers New York.
- Boeknek G. Human Development Brook and Cole Publishing Company 1980.
- Aadhunik Vikasatmak Manovigyan , Shri Vinod Pustak Mandir Agra Edition 3rd 2015
- Harpalani. Aahar Vigyaan avam Upcharatmak Poshan, Star Publications ,Agra.
- Suggestive digital platforms web links- IGNOU & UPRTOU online study material

- Svayam Portal,
- http://heecontent.upsdc.gov.in/Home.aspx

B.A. / B.Sc. 2 Semester 3 Home Science Paper 2

Human Development

Program/Class: Diploma		Year 2		Semester 3
Subject- Home Science				
CourseCode:	HSC202(A130302)	Course Title	Course Title: Human Development	
Course outco	mes:			
	ope up with adolescent			
	d and handle developm	ent related is	sues more effici	ently.
	ow human behavior.			
	d individual difference	S	T	
Credits:	2		Core Com	npulsory / Elective
	T			
Units	Topic			
I	Preparation of an album on developmental milestones of			
	children.			
	Prepare child literature.			
	Visit to Child Care Centers/ anganwadi			
II	Study of physical, social, emotional, cognitive, languagedevelopment (any			
	two).			
	Observations of child rearing practices in families from			
	different social classes			
III	Interviews of adolescent girls and boys to understand their life			
	style, behavior and problems			
IV				ferent life stages, e.g., school
	going children, adole	scents, Youn	g adults.	
	(any two)			

- Monaster G.J. 1 Adolescent Development Life Tasks. Mc.Graw Hill (1977).. Ambron S.R. Child Development Holt, Renehart and Winston 1978 (IInd Edition).
- Mussen P.H. Conger J.J. Kagan J and Huston A.C. 1990. Child Development and
- Personality (VI Edition) Harper and Row Publishers New York.
- Boeknek G. Human Development Brook and Cole Publishing Company 1980.
- Aadhunik Vikasatmak Manovigyan , Shri Vinod Pustak Mandir Agra Edition 3rd 2015
- Suggestive digital platforms web links- ePG- Pathshala, inflibnet,IGNOU & UPRTOU
- online study material.
- Svayam Portal,
- http://heecontent.upsdc.gov.in/Home.aspx

B.A. / B.Sc 2 Semester 4 Home Science Paper 1

Housing & Extension Education

Program/Class: Diploma	Year 2	Semester 4
Subject- Home Science		
CourseCode:HSC203(A130401)	Course Title: Housing & Ex	tension Education

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 factors to refine personal

Aesthetic senses.

Learn the widening concepts of Extension Education.

Develop understanding for Effective teaching and learning.

Comprehend the various effective communication methods.

Gain skills t	to use technologically advanced Audio-visual aids.
Credits:	4 Core Compulsory / Elective
	Part A
Units	Topic
I	Housing: Needs of a House, Difference between House &
	Home, way to acquire house (Own & rented). Factors
	influencing selection and purchase of house and site for house
	Building.
II	House Planning: Principles of house planning, Planning
	Different residential spaces in a house. Planning house for
	Different income groups.
III	Interior Designing: Introduction to Interior designing.
	Importance of good taste. Objective of Interior decoration.
	Elements of design – Line, Shape, Texture, Color, Pattern,
	Light & Space. Principle of design- Proportion, Balance,
	Rhythm, Emphasis, Harmony
IV	Home Decors: Furniture, Furnishings (Curtain, Draperies,
	Floor coverings, Wall celing, Lighting, Accessories (Wall
	painting, Mirrors, wall art, Sculpture & Antiques, Flower
	arrangements) etc.
V	Extension Education: Meaning, Concepts, Objectives, Scope,
	Principles, Philosophy of Extension Education. Early
	Extension Efforts in India. Formal & Non-formal Education.
VI	Extension Teaching & Learning: Role and Qualities of an
	Extension worker. Steps in Extension Teaching Process,
	Criteria for Effective Teaching & Learning.
VII	Communication & Extension Teaching Methods:
	Definition, Importance, Characteristics, Elements, Models & Challenges in

	communications. Relationship between		
	Communication, Extension & Development.		
	Extension Teaching Methods- Classification, Factors guiding		
	the Selection & use of Extension teaching methods.		
VIII	Audio- visual Aids: Definition, Importance, Classification,		
	Selection, Preparation & Effective use of Audio-visual Aids.		

Suggested Readings:

- Khanuja, Reena (2018) Grah Vyavastha avam Grah Sajja. Agrawal Publications, AgraISBN: 978-93-81124-96-3
- Patni Manju & Sharma Lalita, Grah Prabandh, Star Publications Agra.
- Cherunilam, F., & Hedggade, O. D. (1987). Housing in India. Bombay: Himalaya
- Publishing House.
- Craig, H.T. and Rush, O.D. (1966). Homes with Character. Heath, 1966.
- Faulkner, R. & Faulkner, S. (1961) Inside Today's Home. Rev. ed. © Holt, Rlnehart &
- Winston, Inc.
- Goldstein. H & Goldstein V. (1954). Art in 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). Flower Arranging: Step-by-step Instructions for Everyday Designs. FloristReview
- Aggarwal, R. (2008). "Communication- today and tomorrow", New Delhi.: SublimeCompany
- Dubey V.K, Srivastava Archana, Agrawal Garima, Grah Vigyan Prasar Avam
- Sampreshan. Star Publications Agra.
- Harpalni B.D. Patni.Manju, (Prasar Shiksha Avam Sanchar) Star Publications, Agra.ISBN 978-93-81246
- Shaw Geeta Pushp, Shaw Jois Sheela, Prasar Shiksha, Vinod Pustak Mandir Agra.
- ISBN 81-7457-104-3
- Dahama, O.P., & Bhatnagar, O.P.[1998]. "Education and Communication for
- Development". New Delhi. Oxford and IBH Publishing Co. Pvt.Ltd.
- Jaipal Singh." Prasar Shiksha avam Gramin Vikas" SR Scientific Publications, Agra
- Reddy, A. [1987]. "Extension Education". Bapatha, Andra Pradesh, India.: Sreelekshmi Press.
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B.A. /B.Sc 2 Semester 4 Home Science Paper 2

Resource Planning & Decoration

Program/Class: Diploma	Year 2	Semester 4
Subject- Home Science		
CourseCode:HSC204(A130402)	Course Title: Resource Plan	ning & Decoration

Course outcomes:

- Developing skills for making time plan for effective balance of work & leisure.
- Plan & prepare budget for the family.
- Incorporate appropriate work simplification in using household Equipments.
- Develop understanding for house planning & decoration.

Credits: 2		Core Compulsory / Elective	
	1		
Units	Topic		
I	Preparation of time plans for self	and family.	
	Drafting family budget for differ	rent income groups.	
II	Market Survey of Household Equ	uipments- (Pressure	
	cooker, Toaster, Gas Stove, Mixe	er & Grinder,	
	Refrigerator, Washing machine, Microwave, Solar		
	cooker)		
III	Draw House Plans Standard Spec	cifications & Furniture	
	Layout.		
IV	Preparation of Color wheels & Co	olor schemes.	
	Flower Arrangement & Floor De	ecoration (Rangoli)-	
	Application of Design principles and Elements of Art,		
	Innovation of new styles.		

- Alexander. N.J., (1972). Designing Interior Environment. New York: Harcourt Brace,
- Bhargava, B. (2005). Family Resource Management and Interior Decoration, Jaipur:Apple Printer and V. R. Printers.
- Faulkner, R., and Faulkner, S. (1975). Inside Today's Home, New York: Rinehart.
- Gandotra, V., and Jaiswal, N. (2008). Management of Work in Home, New Delhi:
- Dominant Publishers and Distributors. (ISBN No. 81-7888-526-3)
- Harmon. S., and Kennon, K. (2018). The Codes Guidebook for Interiors (5thEd.). NewYork: Wiley (ISBN: 978-1-119-34319-6)
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- Mohanty, A.B. (1985). Guide to House Buildings. New Delhi: Inter India Publications
- Patni Manju & Sharma Lalita, Grah Prabandh, Star PublicationsAgra.
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B.A. / **B.Sc 3 Semester 5 Home Science Paper 1 Surface Ornamentation of fabrics**

Program/Class: Graduation	Year 3	Semester 5	
Subject- Home Science			
CourseCode:HSC301(A130501)	Course Title: Surface Ornar	nentation of fabrics	
Course outcomes:			
Knowing why fabrics look differently			
• Identify the different techniques of fabric from surface			
• Learn about finishes done on fabrics			

- Knowing about dyeing fabrics
- Learn how printing on fabrics is carried
- Knowing the traditional embroideries of India
- Identifying traditional textiles of different states
- Knowing the importance of appropriate laundry method

Cred	s: 4 Core Compulsory / Elective				
Units	Topic				
I	Techniques of Creating variety on fabrics (a) weaving(b)				
	finishing of fabrics(c) dyeing of fabrics(d) printing fabrics(a)				
	embroidery and other decoration methods				
II	Finishes (a) Classification of fabric finishes (b) Study of purpose and process of				
	finishes (i) General Purpose finishes-Bleaching, Mercerization, Calandering				
	Sanforization, Tentering, Singeing, Scouring (ii) Functional Finishes				
III	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, Natural, Sulphur,				
	Vat, Disperse and Reactive dyes (d) Resist Dying Techniques-				
	Tie & Die, Batik.				
IV	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				
V	Traditional Embroideries: Meaning and status of traditional crafts inIndia				
	Knowing about the Traditional Embroideries of different states -Zardozi				
	Kashida of Kashmir, Phulkari of Punjab, Kantha of Bengal, Chikankari, Kasuti				
	of UP, Sindh and Kutch work of Gujarat.				
VI	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.				

VII	Water(a) Water and its uses in textile industry, properties,		
	(b)types of water used for processing (c) Hardness and removal		
	of Hardness of water.		
VIII	Laundry and dry cleaning of fabrics and garments		
	(a) Methods of Laundry and Dry cleaning (b) Dry cleaning		
	process (c) Reagents of Laundry-Blues, Bleaches, Optical		
	Brighteners, Stiffening agents (d) Types of soaps and detergents		
	(e) Cleaning action of soaps and detergents.		

Suggested Readings:

- Marsh JT: Textile Finishes
- Trotman Er: Dyeing And Chemical Technology Of Fibres
- Joseph M: Introduction To Textiles
- Corbman P Bernard: Textiles- Fibre To Fabric
- Hollen & Saddler: Introduction To Textile
- J. Hall: The Standard Hand Book 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, Abhishek Publication, 2000
- Naik.D. Shailiaja:Traditional Embroideries Of India, New Age International Publishers, 1996
- Naik.D. Shailiaja, Jacquie.A.Willson: Surface Designing Of Textile Fabrics, New AgeInternational Publishers, 2006
- Bhargav, Bela. Vastra Vigyaan, Univ. Book House Pvt. Avam Dhulai Kala, University Book HousePvt Ltd. Jaipur
- Patni .Manju, Vastra Vigyaan Avam Paridhan ka Parichay ,Star Publications, Agra.
- Suggestive digital platforms weblinks-
- Swayam Portal,
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B.A./ B.Sc 3 Semester 5 Home Science Paper 2 Community Development & Programme Planning

	Development et 110g	,= 00====== = = = = ====	8	
Program/Class	s: Graduation	Year 3		Semester 5
Subject- Hom	Subject- Home Science			
CourseCode:	CourseCode:HSC302(A130502)			Development & Programme
		Planning		
Course outco	mes:			
☐ Understand	d the Community Devo	elopment dyna	amics & organiz	ing system for
Development	Development.			
☐ Create awa	☐ Create awareness about the various development programs.			
☐ Identify the leadership pattern in the community.				
☐ Impart skills to implement monitor & evaluate program.				
Credits: 4 Core Compulsory / Elective				
Units	Topic			

I	Community Development: Meaning, Definition, Functions,
	Objectives, Philosophy, Principles of Community
	Development Programme 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	Recent Development Programme for Women & Children:
	Support to Training & Employment for women (STEP),
	Swarn jayanti Gram Swarojgar Yogna (SGSY), Integrated
	Child Development Services (ICDS) etc.
V	Support Service of Youth Development: NCC, NSS, Youth Camp
	Youth Clubs etc.
VI	NGO & Others: Contribution towards community services,
	Types & Role of NGO - WHO, CARE, UNICEF, UNESCO,
	UNDP, CRY, 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: Programme planning component
	cycle and its components-
	(i)Designing the project – Defining the objectives, Identifying
	resources, approach, feasibility and Work plan.
	(ii) Implementation.
	(iii) Monitoring and Evaluation

- Clark John. (1991). Voluntary Organizations: Their Contribution to Development. London:Earth Scan
- Dahama, O.P., & Bhatnagar, O.P. "Extension & Rural Welfare". New Delhi: Oxford and IBH Publishing Co. Pvt. Ltd.
- Ghosh Bhola Nath, (1996), "Rural Leadership & Development" Mohit Publications, NewDelhi.
- Julie Fisher. (2003). Governments, NGO's and the Political Development of the ThirdWorld. Jaipur: Rawat Publications
- Mohsionnadeem, (1985), "Rural Development through Government Program" MittalPublications New Delhi.
- Manju Patni & Harpalini, (2018) Prasar Shiksha avam sanchar, Star Publications, Agra.
- Reddy, A [1987]. "Extension Education". Bapatha, Andra Pradesh, India.: SreelekshmiPress.
- Ravi Shankar Kumar Singh. (2003). Role of NGO's in Developing Countries (Potentials.
- Constraints and Policies). New Delhi: Deep & Deep Publications (P) Ltd

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- https://bit.ly/313Ayaj
- https://bit.ly/35RnyAi
- https://www.un.org/en/universal-declaration-human-rights/
- https://www.un.org/womenwatch/daw/cedaw/text/econvention.htm
- https://www.ohchr.org/EN/ProfessionalInterest/Pages/CRC.aspx
- https://www.undp.org/content/undp/en/home/sustainable-development-goals.html
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B.A./ B.Sc. 3 Semester 5 Home Science Paper 3

Community Transformation

Program/Class: Graduation		Year 3		Semester 5		
Subject- Home Science						
CourseCode:H	CourseCode:HSC303(A130503) Course Title: Community Transformation					
Course outcon	Course outcomes:					
☐ Address & 1	resolve women & fam	ily related iss	sues.			
☐ Make use of	f Audio-visual aids in	planning & c	conducting group	o communication		
☐ Understand	the role of Governme	ent bodies in c	development of t	the community.		
☐ Organizing	people for their own o	development.				
Credits: 2 Core Compulsory / Elective				npulsory / Elective		
Units	Topic					
I	Identify the target group & their relevant issues i.e.help nutrition, Education,					
	Women's & Family issuesfollowed by preparing a report.					
II	Observe & Critical analysis nearby community ofwomen & children related					
	welfare program followed by the preparation of report.					
III	Prepare & learn the use of Audio-visual Aids.					
IV	Identity to create an awareness on the existing					
	Contemporary issues.					
	Develop a script in the Folk drama (Nukkad Natak) format to perform in the					
	target group.					

- Mondal Sagar, Misra OP (2018) "Fundamentals of Extension education & Rural
- Development", Kalyani Publications, New Delhi.
- Mortiss PD (1988) Agricultural Extension- Practical Manual" Department of PrimaryIndustries, Queens Land Government.
- Pradhan.K. Varaprasad.C (2018) Glimpses of Practical in Extension Education, NewIndia Publishing Agency. New Delhi
- Jaipal Singh." Prasar Shiksha avam Gramin Vikas" SR Scientific Publications, Agra
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• http://heecontent.upsdc.gov.in/Home.aspx

B.A. / **B.Sc 3 Semester 6 Home Science Paper 1 Dietetics and Therapeutic Nutrition**

Program	Program/Class: Graduation			Semester 6			
Subject-	Home Science						
CourseC	CourseCode:HSC304(A130601) Course Title: Dietetics and Therapeutic Nutrition						
Course of	Course outcomes:						
	Gain knowledge of principles of diet therapy						
	Develop and understand me						
]	Practical knowledge of dietary management in some common disorders						
Cred	dits: 4		Core Com	npulsory / Elective			
Units	Topic						
I		Introduction					
	a) Definition of Health I		Therapeutic Nut	rition			
	b) Importance of Diet T						
	c) Facts about fast foods						
	d) Objectives of therape						
	e) Principles of diet ther						
II	Diet and feeding method		_				
	a) Modification of norm		erapeutic purpos	ses			
	b) Methods of modificat						
	☐ On the basis of nutrie						
	☐ On basis of consisten	•					
	c) Different feeding methods						
	☐ Oral feeding						
	☐ Tube feeding						
III	Energy Metabolism						
	a) The calorific value of food						
	b) Measurement of energy exchange in the body						
	☐ Direct calorimeter						
	☐ Indirect calorimeter						
	c) Factors influencing the Basal Metabolic Rate						
13.7	d) Factors influencing the total energy requirement						
IV	Diet during fevers and infections						
	a) Introduction to fever	-Acute fever					
	-Chronic fever						
	b) Important changes in nutrition during fever						
	c) Modification of the di	iei					
V	Diet during Digestive sy	stem disorde	rs				
•	a) Peptic ulcers—Causes, symptoms and diet modification						
b) Diarrhea and Constipation –Causes, treatment and diet							
modification							
VI							
<u> </u>	1 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						

	a) Overweight and Obesity				
	-Introduction 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				
VIII	Endocrinal Disorders				
	a) Introduction to endocrinology				
	b) Various endocrine glands and their functions: Thyroid,				
	Adrenal and Pancreas				
	c) Diabetes Mellitus-occurrence types, symptoms, metabolic changes, dietary				
	modification and educating the patient.				

- Sumati R Mudambi "Fundamentals of food, Nutrition and Diet Therapy", New AgeInternational Pvt. Ltd, New Delhi, 6th Edition (2018).
- B Srilakshmi- "Dietetics", New Age International Publishers, New Delhi 2017
- Bamji MS, Krishnaswamy K and Brahmam GNV(Eds) (2009), Text book of HumanNutrition, 3rd Edition, Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi
- Dr. Brinda Singh- Aahar Vigyan evam Poshan, , Panchsheel Prakashan, Jaipur, 2015;13th Ed.
- Dr.DevinaSahai, SamanyaEvamUpcharatmakPoshan, New Age International Publishers.
- Dr. Sheel Sharma, "Nutrition and Diet Therapy" PEEPEE Publishers and Distributers(P) Ltd. Delhi, 2014, Ist Ed.
- Shubhangini A Joshi, "Nutrition and Dietetics", Mc Graw Hill Education Private
- Ltd., New Delhi, 2013
- Kumud khanna— "Text book of Nutrition and Dietetics", Elite Publishing House Pvt.Ltd, New Delhi, 7th Ed. 2013
- M Swaminathan Essentials of food and Nutrition, Vol II, Applied Aspects, The
- Bangalore Printing and Publishing Co. Ltd, Bangalore, 2nd Edition 1985, Reprint 1997.

B.A. / B.Sc 3 Semester 6 Home Science Paper 2 Research Methodology and Gender Development

Program/Class: Graduation	Year 3		Semester 6			
Subject- Home Science						
CourseCode:HSC305(A130602)	Course	Title:	Research	Methodology	and	Gender
	Development					

Course outcor	mes:					
	The student at the completion of the course will be able to:					
	in the concept and use of Research.					
	op a research proposal.					
	about the data, sample and report writing.					
	acout the data, sample and report writing.					
	velop insight into the General issues of women.					
	derstand strategies for empowerment of women.					
Credits: 4	· ·					
Ciedits. 4	Core Compaisory / Elective					
	Part A					
Units	Topic					
I	Social Research: Concept,Scope, Steps of research					
II	Sampling Concept, Techniques, Principles and Limitations of					
111						
III	Sampling.					
111	Data Collection: Sources of Data Collection: Primary & SecondaryTools of					
	Data collection: Interview schedule, Observation, Questionnaire, Methods of data collection					
IV						
1 V	Report WritingSummary, Conclusion and Recommendations,					
	Writing references, Writing process of research report: Formal Style					
	ofwriting, Preface, Chapterization, Headings, Tables and					
Figures, Appendices, Bibliography and Acknowledgement						
Part B						
V	Women in Development: Capacity Building for women-					
	Education, Decision Making abilities, Opportunities,					
***	Awareness & Information on social and legal issues.					
VI	Women's Organizations & Collective Strength: Women's					
	action groups and women's participation in development Initiative.					
VII	Employment Trends of women: Need for self-employment,					
	Opportunities & challenges in an organized and un-organized					
	sector.					
VIII	Entrepreneurship Development to empower women:					
	Motivation, Development of women entrepreneurs in India,					
	Schemes available to encourage women entrepreneurship. (a)					
	Bhartiya Mahila Bank Business Loan (b) Annapurna Scheme.					
	(c) Stree Shakti Package (d) Mudra yojana scheme for CCwomen. (e) Mahila					

- C. R. Kothari: Research Methodology- Method and Techniques
- R. Kumar: Research Methodology: A step by Step Guide for Beginners
- M. H. Gopal: Introduction to Research Methodology for Social Sciences
- Good, Carter, Scales and Douglas: Methods of Research

udyam nidhi scheme.

- Bhasin, Kamla (2000). Understanding Gender. New Delhi. Kaali for Women.
- Devi, Uma (1994). Women Work, Development and Ecology. New Delhi, Har-AnandPublications.

- Krishna, Sumi (2007). Women's Livelihood Rights: Recasting Citizenship for Development, New Delhi, Sage Publications.
- Sohoni, K Neerj, (1994), Status of Girls in Development Strategies, New Delhi, Har-AnandPublications.
- Gundry Lisa K. & Kickul Jill R.,2007, Entrepreneurship Strategy: Changing Patterns in NewVenture
- Creation, Growth, and Reinvention, SAGE Publications, Inc.
- Taneja & Gupta, 2001, Entrepreneur Development- New Venture Creation, GalgotiaPublishingCompany
- Patni , Manju. Anusandhan Vigyaan , Star Publications, Agra.
- Sudha, G.S. Vyavsayik Prabandh ke Siddhant avam Udyamita, RBD Publications.
- Gupta ,U.C.Udyamita Vikas, Kailash Pustak Sadan, Bhopal
- Suggestive digital platforms web links- e-PG Pathshala Inflibnet

B.A. / B.Sc 3 Semester 6 Home Science Paper 3
Therapeutic Diet Preparation and Nutrient Evaluation

_	C 1		, aradion			
Program/Class: Graduation		Year 3		Semester 6		
Subject- Home Science						
CourseCode:HSC306(A130603)		Course Title: Therapeutic Diet Preparation and Nutrient				
		Evaluation	Evaluation			
Course outcom	mes:					
1- Gain know	1- Gain knowledge of principles of diet therapy					
2-Develop and	d understand modifica	tion of the no	ormal diet for the	erapeutic purposes		
3- Practical ki	nowledge of dietary m	anagement in	some common	disorders		
Credits: 2)		Core Compulsory / Elective			
Units	Topic					
I	Modification of normal diet for therapeutic purposespreparation					
	and presentation					
II	Therapeutic Diet Preparation and Nutrient Calculation of					
	- Diet in fever					
	- Diet in diarrhea					
	- Diet in Constipation					
III	Therapeutic Diet Preparation and Nutrient Calculation of					
	some Common Disorders					
	- Diet in diabetes Mellitus					
	- Diet in Hypertension					
	- Diet in Atherosclerosis					
IV	Dietary Modificatio	n for weight	management – P	reparation		
	and Nutrient Calculation of diet in-					
	- Overweight & obesity					
	- Underweight					

- Sumati R Mudambi "Fundamentals of food, Nutrition and Diet Therapy", New AgeInternational Pvt. Ltd, New Delhi, 6th Edition (2018).
- B Srilakshmi- "Dietetics", New Age International Publishers, New Delhi 2017

- Bamji MS, Krishnaswamy K and Brahmam GNV(Eds) (2009), Text book of HumanNutrition, 3rd Edition, Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi
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