



**National Education Policy-2020** 

**SUBJECT: HOME SCIENCE** 

Year	Semester.	Course Code	Theory/Practical	Credits	
B.A- 1	Ι	A130101T	Fundamentals of Nutrition and Human Development	THEORY	4
	Ι	A130102P	Cooking Skills and Healthy Recipe Development	PRACTICAL	2
	Π	A130201T	Introduction to Clothing and Textile & Family Resource Management	THEORY	4
	II	A130202P	Clothing and Textile	PRACTICAL	2
B.A- 2	III	A130301T	Advance Nutrition and Human Development	THEORY	4
	III	A130302P	Human Development	PRACTICAL	2
	IV	A130401T	Housing and Extension Education	THEORY	4
	IV	A130402P	Resource Planning and Decoration	PRACTICAL	2
B.A- 3	V	A130501T	Surface Ornamentation of Fabrics	THEORY	4
	V	A130502T	Community Development & Programme Planning	THEORY	4
	V	A130503P	Community Transformation (Change)	PRACTICAL	2
	V	A130504R	Research Project-1	PROJECT	3
	VI	A130601T	Dietetics & Therapeutic Nutrition	THEORY	4
	VI	A130602T	Research Methodology and Gender Development	THEORY	4
	VI	A130603P	Therapeutic Diet Preparation & Nutrient Evaluation	PRACTICAL	2
	VI	A130604R	Research Project-2	PROJECT	3

Semester-wise Titles of the Papers in U.G Programme (HOME-SCIENCE)

## **Proposed Year wise Structure of UG Program in Home Science**

## **Program 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 favouring all the disciplines in Home Science.

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

#### **Certificate in Fundamentals of Home Science**

#### **B.A. First Year**

#### **Program Specific Outcomes (PSOs)**

At the end of program following outcomes are expected from students:

Learn about the discipline of Home Science as a holistic field of study covering multiple facets and requirements of human beings in day to day living, for example, achievement of appropriate milestones in personal development; awareness, need and use of family resources; access to adequate nutrition for wholesome development; clothing fundamentals.

May have capabilities to start earning by enhancing their skills in the field of Nutrition and Textiles.

Semester I	Name of Paper	Credits	No of
			Lectures
	Fundamentals of Nutrition and Human	4	60
	Development (Theory)		
	Cooking Skills and Healthy Recipe Development	2	30
	(Practical)		
	Total	6	90
Semester II	Name of Paper	Credits	Lectures
	Introduction to Clothing and Textile &Family	4	60
	Resource Management (Theory)		
	Clothing and Textile (Practical)	2	30
	Total	6	90

#### **B.A. Second Year : Diploma in Interior Design & Human Development**

#### **Program Specific Outcomes (PSOs)**

At the end of program following outcomes are expected from students:

Develop sensitivity, resourcefulness, and competence to render service to enhance development of individuals, families, communities, and the nation at large.

Enhance abilities involved in acting as proactive agents of change in promoting the discipline of Family and Community Sciences .

Explore and decide upon viable avenues of self-employment and entrepreneurship.

Learn more about human and community & relationship.

Semester III	Name of Paper	Credits	No of
			Lectures
	Advance Nutrition and Human Development	4	60
	(Theory)		
	Human Development (Practical)	2	30
	Total	6	90
Semester IV	Name of Paper	Credits	No of
			Lectures
	Housing and Extension Education (Theory)	4	60
	Resource planning & Decoration (Practical)	2	30
	Total	6	90

## **B.A. Third Year: Degree in Bachelor of Arts**

## **Program Specific Outcomes (PSOs)**

- Programme is framed to Encourage a genre of responsible students with a passion for lifelong learning and entrepreneurship, it also generate multi-skilled leaders with a holistic perspective that cuts across disciplines.
- Promote research, innovation and design (product) development favouring all the disciplines in Home Science.
- Enhance digital literacy and apply them to engage in real time problem solving and ideation related to all fields of Home Science.
- Appreciate and benefit from the symbiotic relationship among the five core disciplines of Home Science Resource Management, Food Science and Nutrition, Textiles and Clothing, Human Development and Family Studies and Extension and Communication.
- After this degree programme students can be benefitted by getting jobs in various fields like government sector, working with NGOs, jobs as an extension worker, Education etc. and also they can feel the sense of entrepreneurship as well.

Semester V	Name of Paper	Credits	No. of Lectures
	Surface Ornamentation of Fabrics (Theory)	4	60
	Community Development & programme	4	60
	planning (Theory)		
	Community Transformation (Change) Practical	2	30
	Research Project 1	3	45
	Total	13	195
Semester VI	Name of Paper	Credits	No. of Lectures
	Dietetics and Therapeutic Nutrition (Theory)	4	60
	Research Methodology and Gender Development (Theory)	4	60
	Therapeutic Diet Preparation and Nutrient Evaluation (Practical)	2	30
	Research Project 2	3	45
	Total	13	195

# B.A. I Semester I Home Science Paper 1 Fundamentals of Nutrition and Human Development (Theory)

Programme/Class: Certificate Year: 1 Semest			Semester: 1		
Subject: Home	e Science	I			
Course Code: A1	30101T	Course Title: Fundamentals of Nu	utrition and	Human Developn	nent
	<b>Course outcomes:</b> The student at the completion of the course will be able to:				
<ul> <li>Prepare</li> <li>Students</li> <li>Acquain</li> <li>Explain t</li> <li>Identify</li> </ul>	the students to will get fami t students wit the need and i the biological	o understand physic iliar with different h practical knowled mportance of studyi and environmental	blogy based methods of lge of nutrion ng human g factors affeo	cooking ent rich foods rowth and develo cting human devel	pment across life span opment. cy & early childhood
Credits: 4			Core Con	npulsory / Elective	e
Max. Marks: 25	5+75		Min. Pass	sing Marks:	
Total No. of Le	ectures-60				
Units	Тор		ic		No of Lectures
Ι	Traditional I Contributior M Swamina Tagore.	Home Science and it n made by Indian Ho than, C V Gopalan,	s Relevance me Scientis S K Day	e in current era sts i.e. & Ravindra Nath	03
п		function of Digestiv			10
III	Nutrition- C	utrition ing, Classification an oncept of Nutrition facro and Micro, sou		ficiency diseases.	09
	Preservation	king Methods- Methods, Advantages and Disadvantages ervation of Nutrients while Cooking. hods of enhancing nutritional value of foods by nination, fermentation, Food spoilage, Food preservation, d adulteration, Food laws and standards.		08	
		PART B			
V	<ul><li>Conce Devel</li><li>Doma</li></ul>	to Human Developm ept, Definition and opment ins, Stages and iples of Growth and	need to stu contexts	of development	8

	Determinants of Development- heredity and environment	
VI	<ul> <li>Prenatal Development and Birth Process:</li> <li>Conception, Pregnancy and Childbirth Stages of birth</li> <li>Types of delivery (natural, c-section, breech, home vs. assisted delivery)</li> <li>Physical appearance and capacities of the new-born</li> <li>Factors affecting Pre-natal development.</li> </ul>	6
VII	Infancy:         • Developmental tasks during Infancy and Preschool Stage.         • Physical and Motor Development.         • Social and emotional development         • Cognitive and language development	8
VIII	<ul> <li>Early Childhood (Pre School) years:</li> <li>Developmental Tasks during Early childhood.</li> <li>Physical and Motor Development</li> <li>Social and emotional development</li> <li>Cognitive and language development</li> </ul>	8
Suggested Rea	adings:	
• Dr. Brin	nda Singh, Manav Sharir evam Kriya Vigyan Panchsheel F	Prakashan, Jaipur;2015

- Dr. Brinda Singh, Manav Sharir evam Kriya Vigyan Panchsheel Prakashan, Jaipur;2015 ,15<sup>th</sup> 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, 6<sup>th</sup> 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 3<sup>rd</sup> 2015
  - Suggestive digital platforms web links-ePG-Pathshala, IGNOU & UPRTOU online study material
    - Svayam Portal

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

This course can be opted as an elective by the students of following subjects: Open for all The eligibility for this paper is 10+2 with any subject

Suggested Continuous Evaluation Methods:

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

Attendance

Course prerequisites: To study this course, a student must have had the subject in class12<sup>th</sup>. The eligibility for this paper is 10+2 with any subject

Further Suggestions:

It widens the scope for students to join Government and Non-Government organization upskilling the people at different levels as per their socio-economic structure.

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At the End of the whole syllabus any remarks/ suggestions:

## **B.A. I Semester I Home Science Paper 2 Cooking skills and healthy recipe development (Practical)**

Programme/Class: Certificate		Year: 1		Se	mester: 1
		Subject: Home S	Science (Pr	actical)	
Course Code: A130102P Course		Course Title:	Cooking sk	ills and healthy re	cipe development
	s will get fami	liar with different h h practical knowled			
	Credits: 2	2		Core Compulsor	y / Elective
Max. Marks: 25+75			Min. Passing	Marks:	
		Total No. of Lab P	eriods-30 (	60 hours)	
Unit		Торіс		No. of lab.periods	
I	Basic cooking skills - Weighing of raw materials - Preparing of different food items before cooking		06		
п	Preparation of various dishes using different methods of cooking and food preservation-Boiling, steaming, Roasting, Frying- Deep/shallow, Pressure cooking, Hot air cooking/Baking, pickling, jam, jellies and murabba preparation			08	
ш	Different styles of cutting fruits and vegetables - Salad Decoration/Dressings		06		
IV	- Protein - Carbol - Fat ric	ins rich dish	S		10

## **Suggested Readings:**

- Dr. Brinda Singh, ManavSharirevamKriyaVigyanPanchsheelPrakashan, Jaipur;2015, 15<sup>th</sup> Ed.
- Dr.Nitu Singh, PrayogikGrihVigyan, SahityaPrakashan, 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 Age International Pvt. Ltd, New Delhi, 6<sup>th</sup> Ed. (2018)
- Punita Sethi and Poonam Lakda, "Aahar Vigyan, Suraksha evam Poshan"; Elite Publishing House, New Delhi ;2015

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

## **Suggested Continuous Evaluation Methods:**

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

Course prerequisites: To study this course, a student must have had the subject .....in class/12<sup>th</sup>/ certificate/diploma.

#### Suggested equivalent online courses

- o 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:**

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

B.A. I Semester 2 Home Science Paper 1 Introduction to Clothing & Textiles & Family Resource Management (Theory)

Programme/Clas	s: Certificate Year: 1		Semest	er: 2
Subject: Home S	Science			
Course Code: A130	201T Course Title: Intro Management (The		lothing and Textiles	& Family Resourc
<ul> <li>Understand</li> <li>Learn how</li> <li>Understand</li> <li>Learn the f</li> <li>Understand</li> <li>Gain know</li> </ul>	It scope of textile and clothing ling why fabrics are different fabrics can be manufactured l basic clothing concepts and garment m amily resource management as a whole. I the Decision making and use of resour- ledge about Time, Money & Energy as Household Equipments for work simpli	ces througho a Resource.	ut the Family life cy	cle.
	Credits: 4		Core Compulsory	/ Elective
Ma	ax. Marks: 25+75		Min. Passing M	larks:
Total No.	of Lectures- 60			
Unit	Торіс			No. of Lectures
	PART A			
Ι	importance in day-to-day life (c) Sc	troduction a) Introduction to Clothing and Textile (b) Its portance in day-to-day life (c) Scope (d) Classification of textile er on the basis of their source (e) General properties of fibers- mary and secondary		
П	Knowing Fibers-Manufacture, pro (a) Cellulosic Fibers-cotton, Linen (	<b>nowing Fibers</b> -Manufacture, processing, properties and uses of ) Cellulosic Fibers-cotton, Linen (b) Protein Fibers-Wool, Silk ) Synthetic/Manmade fibers-Nylon, Polyester, Acrylic, Rayon.		
Ш	Yarn Properties (b) Different fabric (Weaving, Knitting, Felting, Braiding)	abrics(a) Definition of Yarn, Manufacture of Yarn and erties (b) Different fabric construction techniques Knitting, Felting, Braiding, Non-woven) (c) Weaving of ninologies and Steps in Weaving. (d) Types of weaves-		
IV	Clothing Construction (a)Tools for Introduction to sewing machines, it Importance of Drafting, Draping, Fr advantages & disadvantages (d) fab stitching a garment - preshrinking, s marking and cutting.	<b>truction</b> (a)Tools for Clothing construction (b) sewing machines, its parts and maintenance, (c) Drafting, Draping, Flat pattern techniques - isadvantages (d) fabric preparatory steps for nent - preshrinking, straightening, layout, pinning, tting. <b>PART B</b>		7
	FAK	D		
V	and Obstacles of Management. Proc Organizing, Controlling and Evalua	<b>Introduction to Home Management</b> : 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	<b>Resources, Decision making &amp; Fa</b> Characteristics, Types and Factors a Steps and Role of Decision Making Family Life Cycle.	ffecting the in Managen	use of Resources. nent. Stages of	8
	<b>Time, Energy and Money Manag</b> Steps in making Time Plan, Tools a			7

VII	Energy as a Resource, Work Curve, Fatigue- Types, Causative Factors and Alleviating Techniques. Family income as a Resource, Sources of Income and Expenditure and Saving. Preparation of Family budget in view of family income	
VIII	Family budget in view of family income.Work Simplification and Household Equipments:Work Simplification, Use and Care of time and energy saving	7
	Household equipments such as Pressure Cooker, Mixer and Grinder, Refrigerator, Washing Machine, Vacuum Cleaner, air	
Suggested Reading	fryer, microwave & Solar Cooker.	
00 0	s. ernard: Textiles Fiber To Fabric	
	dler: Introduction To Textile	
	roduction To Textiles	
-	tile Fiber Science	
	g And Dress Making: National open School, B-31-B Kailash Colony, N	ew Delhi –
	Reena (2018) Grah Vyavastha avam Grah Sajja. Agrawal Publications, Agra I	SBN: 978-93-81124-
• R Bhatia & C Baroda.	Arora (1999), Introduction To Clothing And Textile, Printed by Mache	o Printery, Raopura,
-	ide To Sewing By Reader's Digest: published by The Reader's Digest A. Montreal-Pleasantville, NY, 2002.	Association
	and Firebaugh F.M. (1998) Family Resource Management- Principles a cation. N. Delhi.: Roy Houghton Mifflin Company.	nd
• Faulkner, R. d	& Faulkner, S. (1961) Inside Today's Home. Rev. ed. © Holt, RInehart	& Winston, Inc.
• Gross, I.H. an Ltd?	nd Crandall, E.H. (1967). Management for Modern Families. N. Delhi:	Sterling Publishers
-	(Ed.). (1985). Home Management. N. Delhi.: Arya Publishers, Mullie e. Ludhiana.: Kalyani Publishers.	ck, P. Text book of
	nd Dorsey, J, M. (2002). <i>Management in Family Living</i> . New Delhi: blishers (ISBN13: 9788123908519)	
<ul><li>Varma , F</li><li>Varghese, M.</li></ul>	ju & Sharma Lalita, Grah Prabandh, Star Publications Agra. Pramila. Vastra Vigyaan Avam Paridhan:Madhya Pradesh Hindi Granth A, Ogale, N. N and Srinivasan, K. (2001). Home Management.	Academy, Bhopal.
	Delhi. New Age International (P) Ltd.	hai
• Suggestive di	A. Household Equipment Manual, S.N.D.T Women's University, Murrigital platforms weblinks-	iuai.
•	um Portal, <u>'heecontent.upsdc.gov.in/Home.aspx</u> ,	
	opted as an elective by the students of following subjects: Open for a	
00	bus Evaluation Methods:	
• Test with m	any topic of the above syllabus. ultiple choice questions/ short and long answer questions.	
Attendance     Courseprerequisites	:Tostudythiscourse, astudent must have had the subject ALL. inclass 12 <sup>th</sup>	
Courseprerequisites		•
Suggested equivale IGNOU & Other ce and Abroad	nt online courses: entrally/state operated Universities/ MOOC platforms such as "SWA	YAM" in India

Further Suggestions:

• Students may develop their managerial skills after completion this course and may join any filed. As Management of Resources is applicable everywhere.

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At the End of the whole syllabus any remarks/ suggestions:

## B.A. I Semester 2 Home Science Paper 2 Clothing & Textiles (Practical)

Program Cerificate		Year: 1		Sen	nester: 2
S cience)	ubject: Communit	y and Life Science	e (Home		
Course	e Code: A130202P	Course Title: Cloth	ing and Te	extiles (Practical)	
<ul><li>Une</li><li>Lea</li></ul>	tcomes: ility to identify fibe derstanding why fa arning basic Sewin arn how garments a	brics are different g skills			
	Credits: 2			Core Compulso	ory / Elective
	Max. Marks:	25+75		Min. Passin	g Marks:
То	tal No. of lab.perio	ods- 30 (60 hours)			
Unit	То	pic			No. of lab.periods
Ι	burning and mi	and fabrics(a)Fib croscopic- natural led fibres. (b) Weav heir usage.	and synthe	tic,	7
п	of sewing mach during stitching stitching, stitchi	tch (a) Knowing th ine and trouble sho , how to stitch-an id ng on curves and a prary Stitching, Per	oting of ma dea of straig t corners (b	ajor problems ght-line ) Basic	7
III	fell seam, Frenc Disposal of full	) Seams-Plain sean h seam (b) Attachin ness-darts, gathers, ing-Facing & Bind	ng different tucks and p	t Fasteners (c)	8
IV	Visit-Visit to ga Kendra to gain a machines, manu	Neckline Finishing-Facing & Binding Visit-Visit to garment factory/industry/apparel unit/silai Kendra to gain awareness on various types of sewing machines, manufacturing processes like drafting, finishing and packing, report writing.			8

## 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 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.
- Khanuja, Reena. Vastra Vigyaan ke Sidhant, Agrawal Publication, Agra.
- 1. Suggestive digital platforms weblinks-

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

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

Suggested Continuous Evaluation Methods:

- Preparation of samples of various types on fabrics.
- Evaluation of Prepared garment.

• Record file preparation and evaluation, Attendance.

Course prerequisites: To study this course, a student must have had the subject in class 12<sup>th.</sup>

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# B.A. 2 Semester 3 Home Science Paper 1 Advance Nutrition and Human Development (Theory)

Programme/		ar: 2		Semester: 3	
	<b>I</b>				
	Home Science				
Course Code	e: A130301T Cours	se Title: Advar	nce Nutritio	n and Human Devel	opment (Theory)
Course outco The student a	omes: t the completion of the	e course will b	e able to:		
• Creat	e an awareness about	importance of	f healthy me	eal at various stages	of life cycle
• Inculo	cate healthy eating pra	ctices among	students		
• Deve	lop skill of meal plann	ing for differe	ent physiolo	ogical groups	
• Expla	in the Physical & Psy	vchological cl	nanges duri	ng middle childhoo	d. adolescent and
adulth Identi Learn	fy the biological and e about the characterist scent & Adulthood sta	nvironmental and	factors affe	cting personality.	
Credits: 4			Core Con	npulsory / Elective	
Max. Marks	: 25+75		Min. Passing Marks:		
Total No.	of Lectures-60				
Unit	Topic			No of Lectures	
Ι	Meal Planning- Defin planning, Balanced D	ition, importaı iet, RDA	nce, factors	affecting meal	07
II	Nutrition During Infa RDA and Diet Plan	ncy and Childl	hood- Nutri	tion Requirement,	07
III	Nutrition During Ado Requiremen	lescence, Adu nt, RDA and D		Old Age. Nutrition	08
IV	Nutrition During spec Nutrition Requirement	cial condition j it, RDA and D	pregnancy a Piet Plan.	nd lactation	08
	PART B				
V	Middle Childhood Ye Developmental task		ristics of mi	ddle childhood	8
	period	<b>.</b> .			
	Physical and r	-			
	Social & emot	-	ment		
	Cognitive dev				
VI	Language dev	-			8
¥ I	puberty.	tasks and char ysical physiol	ogical and h	ormonal changes in entity& Personality	o

	development. • Family and peer relationship Problems – Drug and Alcohol abuse, STD, HIV/AIDS, Teenage pregnancy.	
VII	<ul> <li>Cognitive, Language and Moral Development during Adolescence:</li> <li>Perspective on cognitive development, development of intelligence and Creativity</li> <li>Adolescent language</li> <li>Adolescent Morality</li> </ul>	7
VIII	<ul> <li>Introduction to adulthood:</li> <li>Concept, transition from adolescence to adulthood</li> <li>Developmental tasks of Adulthood</li> <li>Physical and physiological changes from young adulthood to late adulthood</li> <li>Responsibilities and adjustments-educational, occupational, marital and parenthood</li> </ul>	7
<ul> <li>Sheel S</li> <li>Ankita</li> <li>Subhar</li> <li>Kumua New D</li> <li>Swami</li> <li>Monast</li> <li>Ambro</li> <li>Musser (VI Edi</li> <li>Boekne</li> <li>Aadhur</li> <li>Harpala</li> <li>Sugges</li> <li>Svayan</li> </ul>	<ul> <li>sted Readings:</li> <li>Sharma, "Nutrition and Diet Therapy, Peepee Publishers, New Dell Gupta "Text book of Nutrition" Medico Refresher Publisher, Agra ngini A Joshi; Nutrition and Dietetics, Mc Graw Hill Education, Pr d Khanna, "Text book of Nutrition and Dietetics", Elite Publishing Delhi, 2013, 7<sup>th</sup> Ed.</li> <li>Inathan M, " Essentials of Food and Nutrition Vol I and II ter G.J. 1 Adolescent Development Life Tasks. Mc.Graw Hill (1977) n S.R. Child Development Holt, Renehart and Winston 1978 (IInd E n P.H. Conger J.J. Kagan J and Huston A.C. 1990. Child Development ition) Harper and Row Publishers New York.</li> <li>ek G. Human Development Brook and Cole Publishing Company 199 nik Vikasatmak Manovigyan , Shri Vinod Pustak Mandir Agra Edi ani. Aahar Vigyaan avam Upcharatmak Poshan, Star Publications, A stive digital platforms web links- IGNOU &amp; UPRTOU online study n Portal,</li> </ul>	a, 2018 ivate Ltd. House Pvt. Ltd, dition). nt and Personality 80. ition 3 <sup>rd</sup> 2015 gra.
<u>a</u> , 1 a	ontinuous Evaluation Methods: har on any topic of the above syllabus.	

• IGNOU and other centrally/state operated Universities/MOOC platforms such as "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.

It widens the scope for students to join Government and Non-Government organization upskilling the people at different levels as per their socio-economic structure.

## B.A. 2 Semester 3 Home Science Paper 2 Human Development (Practical)

Programn Diploma	ne/Class:	Year: 2		Sen	nester: 3
Subject: Co Science)	ommunity & E	Essential Science	(Home		
Course	Code: A130302P	Course Title: Adv	vance HUM	IAN developmen	t (Practical)
Course out	comes:				
<ul><li>Und</li><li>Able</li></ul>	rn to cope up with lerstand and hand e to know human lerstand individua		lulthood pr ated issues	oblems. more efficiently.	
Credits: Core Compulso 2				ory / Elective	
	Max. Marks:	25+75		Min. Passin	g Marks:
Tot	al No. of lab. per	ods-30(60 hours)			
Unit	To	opic			No. of lab.periods
I	Preparation of a children.	n album on develop	omental mil	estones of	8
	Prepare child lit				
		are Centres/ angany			
П	development (a Observations of	tudy of physical, social, emotional, cognitive, language evelopment (any two). Observations of child rearing practices in families from ifferent social classes			8
III	Interviews of ac style, behaviour	lolescent girls and t and problems.	ooys to und	erstand their life	7
IV	-	tudies to know moto ool going children,			7
	Suggested Readi	ngs:			
1. Mon	aster G.J. 1 Adole	escent Development	t Life Tasks	s. Mc.Graw Hill (	1977).
		velopment Holt, Re			
	-	J. Kagan J and Hus			opment and
		) Harper and Row			1000
4. Boek	nek G. Human De	evelopment Brook a	and Cole Pr	iblishing Compar	iy 1980.

5. Aadhunik Vikasatmak Manovigyan, Shri Vinod Pustak Mandir Agra Edition 3<sup>rd</sup> 2015

Suggestive digital platforms web links- ePG- Pathshala, inflibnet, IGNOU & UPRTOU online study material.

Svayam Portal,

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

This course can be opted as an elective by the students of following subjects: Open for all The eligibility for this paper is 10+2 with any subject

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Suggested Continuous Evaluation Methods:

- Assessment of observation report.
- Preparation of questionnaire.
- Visits Records.
- Attendance.

Course prerequisites: To study this course, a student must have had the subject in class 12<sup>th</sup>. The eligibility for this paper is 10+2 with any subject

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## B.A. 2 Semester 4 Home Science Paper 1 Housing & Extension Education ( Theory)

Programr Diploma	ne/Class:	Year: 2		Ser	mester: 4
Subje	ct: Home Science				
Course Code: A130401T Course Title: Housing & Extension E (Theory)			extension Education		
Course out	tcomes:		• /		
<ul> <li>Com</li> <li>Appi</li> <li>aesth</li> <li>Lear</li> <li>Devo</li> <li>Com</li> </ul>	prehending Housin reciate principles of netic senses. In the widening con elop understanding prehend the variou	ousing need & sele ng plans for resider of design and the concepts of Extension for Effective teach as effective commu- cologically advance	ntial purpos ontributing f Education ning and lea nication me	e. factors to refine p urning. ethods.	ions. ersonal
	Credits: Core Compulso 4			ory / Elective	
	Max. Marks:	25+75		Min. Passin	g Marks:
То	tal No. of Lecture	s- 60			
Unit	Торіс		No. of Lectures		
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.			8	
П	House Planning: Principles of house planning, Planning different residential spaces in a house. Planning house for different income groups.			7	
ш	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,			8	
IV	Rhythm, Emphasis, Harmony.         IV       Home Decors: Furniture, Furnishings (Curtain, Draperies, Floor coverings, Wall celling, Lighting, Accessories (Wall painting, Mirrors, wall art, Sculpture & Antiques, Flower arrangements) etc.			7	
	PART B				
V	Principles, Philo	<b>Extension Education</b> : Meaning, Concepts, Objectives, Scope, Principles, Philosophy of Extension Education. Early Extension Efforts in India. Formal & Non-formal Education.			8
VI	Extension Teac Extension work	ching & Learning: er. Steps in Extens ective Teaching & I	Role and C	Qualities of an	7
	Communicatio	<b>n &amp; Extension Te</b> ortance. Characteri	aching Me		

VII	& Challenges in communications. Relationship between	8
	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.	7
Suggested I	Readings:	
ISBN	uja, Reena (2018) Grah Vyavastha avam Grah Sajja. Agrawal Pu J: 978-93-81124-96-3	blications, Agra
• Patni	Manju & Sharma Lalita, Grah Prabandh, Star PublicationsAgra.	
	unilam, F., &Hedggade, O. D. (1987). <i>Housing in India</i> . Bombay ishing House.	: Himalaya
• Craig	g, H.T. and Rush, O.D. (1966). Homes with Character. Heath, 196	66.
• Faull	kner, R. & Faulkner, S. (1961) Inside Today's Home. Rev. ed. © I	
	stein. H & Goldstein V. (1954). Art in Everyday Life Macmillan A.H. (1963) Home furnishing. John Wiley & Sons, Inc.;	Publishers.
	iya, K.B. (2004). Landscape gardening and designing with plants.	Pointer Publishers
• Teres	sa, P. Lanker. (1960). Flower Arranging: Step-by-step Instruction gns. Florist Review	
• Ασσε	arwal, R. (2008). "Communication- today and tomorrow", New D	elhi : Sublime
Compan		
Dubey V	K, Srivastava Archana, Agrawal Garima, Grah Vigyan Prasar A preshan. Star Publications Agra.	vam
ISBN	B.D. Patni.Manju, (Prasar Shiksha Avam Sanchar) Star Publicat N 978-93-81246	-
	eeta Pushp, Shaw Jois Sheela, Prasar Shiksha, Vinod Pustak Man N 81-7457-104-3	lir Agra.
	ma, O.P., & Bhatnagar, O.P.[1998]. "Education and Communicated Sciences (Communicated Sciences), New Delhi Oxford and IBH Publishing Co. Pvt.Ltd.	ion for
	1 Singh." Prasar Shiksha avam Gramin Vikas" SR Scientific Publ	ications Agra
-	ly, A. [1987]. "Extension Education". Bapatha, Andra Pradesh, In	_
	A.N. (1983). An introduction to Extension Education. Delhi: Ox	ford IBH Publishing
2. Suggesti	ve digital platforms weblinks-	
	content.upsdc.gov.in/Home.aspx	
	e can be opted as an elective by the students of following subject	ts: Open for all
Suggested	Continuous Evaluation Methods:	
00	ninar / presentation on any topic of the above syllabus.	
• Tes	t with multiple choice questions/ short and long answer question	ns.
• Prep	paration of Audio-visual aids.	
	requisites: To study this course, a student must have had the sub	-
• IGN	quivalent online courses: OU & Other centrally/state operated Universities/ MOOC platf	orms such as
"SW	AYAM" in India and Abroad.	

Further Suggestions:

It widens the scope for students to join Government and Non-Government organization upskilling the people at different levels as per their socio-economic structure. Extension work will speed up the (1) Man Environment; (2) Basic structures (Gram Panchayat, Village School and Cooperative Societies) etc.

At the End of the whole syllabus any remarks/ suggestions:

## **B.A. 2 Semester 4 Home Science Paper 2 Resource Planning & Decoration (Practical)**

Programme/Class: Diploma		Year: 2	2 Semester: 4		
Subject: Con Science)	nmunity and	Essential Science	(Home		
Course Code:	A130402P	Course Title: Reso	urce Planni	ng and Decoratio	n (Practical)
Course outcor • Develo		naking time plan fo	or effective l	balance of work a	& leisure.
• Plan &	e prepare budget	for the family.			
• Incorp	orate appropriate	e work simplificati	on in using I	household equipe	ements.
• Develo	op understanding	for house plannin	g & decorat	ion.	
Credits: Core Compulsory / Elective 2					ory / Elective
Max. Marks: 25+75 Min. Passing Mark				ng Marks:	
Total	l No. of lab.peri	ods-30 (60 hours)			
Unit	То	opic			No. of lab.periods
I	-	ion of time plans f family budget for		•	8
п	• Market Survey of Household Equipments- (Pressure cooker, Toaster, Gas Stove, Mixer & Grinder, Refrigerator, Washing machine, Microwave, Solar cooker)			8	
<ul> <li>Study of different house plans-designs and styles. Draw a house plan keeping in mind the principles of house planning with special emphasis on plantation, water harvesting and other environment friendly factors, also place appropriate furniture in the floor plan using elements of design</li> </ul>			7		
IV	-	ion of Color wheel Arrangement & Flo			7

	Application of Design principles and Elements of Art , Innovation of new styles.
Suggested	Deadinge
<ul> <li>Bl Ag</li> <li>Fa</li> <li>Ga</li> <li>Da</li> <li>Ha</li> <li>Ya</li> <li>Jo</li> <li>So</li> <li>La</li> <li>Ea</li> <li>M</li> </ul>	<ul> <li>lexander. N.J., (1972). Designing Interior Environment. New York: Harcourt Brace, hargava, B. (2005). Family Resource Management and Interior Decoration, Jaipur: pple Printer and V. R. Printers.</li> <li>aulkner, R., and Faulkner, S. (1975). Inside Today's Home, New York: Rinehart.</li> <li>andotra, V., and Jaiswal, N. (2008). Management of Work in Home, New Delhi: ominant Publishers and Distributors. (ISBN No. 81-7888-526-3)</li> <li>armon. S., and Kennon, K. (2018). The Codes Guidebook for Interiors (5thEd.). New ork: Wiley (ISBN: 978-1-119-34319-6)</li> <li>bhanovich Inc. Ball, V. K. (1982). Art of Interior Design. New York: John Wiley &amp; ons.</li> <li>each, S. D. (1978). Techniques of Interior Design Rendering and Presentation (1st d.). Architectural record Books (ISBN-13: 978-0070368057)</li> <li>ohanty, A.B. (1985). Guide to House Buildings. New Delhi: Inter India Publications</li> </ul>
• Pa	atni Manju & Sharma Lalita, Grah Prabandh, Star PublicationsAgra.
<ul><li>bit.ly/</li><li>https:</li><li>https:</li></ul>	e digital platforms weblinks- 3fJfghi //bit.ly/39mTwGQ //bit.ly/2JoXB2e
-	//bit.ly/3ljkrWf. um Portal,
•	/heecontent.upsdc.gov.in/Home.aspx
This course	can be opted as an elective by the students of following subjects: Open for all
	Continuous Evaluation Methods:
<ul><li>Asse</li><li>Asse</li></ul>	essment of Time-Energy, Budget & House Plans. Essment of Market Survey Records.
<ul> <li>Asse</li> </ul>	essment of Flower Arrangements and Rangoli.
	ndance. equisites: To study this course, a student must have had the subject in class 12 <sup>th</sup> .
	Austres. To study this course, a student must have had the subject in class 12.
IGNOU & (	quivalent online courses: Other centrally/state operated Universities/ MOOC platforms such as 1" in India and Abroad
Further Sug	gestions:
	5-510h5.
• Stud com The program	ents may develop their managerial skills & Interior designing skills after pletion this course with the capability to opt for a job or start their own ventures. n giving an opportunity to advancement their knowledge by enrolling for pecialized program of their own area of need & interest.
• Stud com The program advanced sp	pletion this course with the capability to opt for a job or start their own ventures. n giving an opportunity to advancement their knowledge by enrolling for
• Stud com The program advanced sp	pletion this course with the capability to opt for a job or start their own ventures. n giving an opportunity to advancement their knowledge by enrolling for becialized program of their own area of need & interest.
• Stud com The program advanced sp	pletion this course with the capability to opt for a job or start their own ventures. n giving an opportunity to advancement their knowledge by enrolling for becialized program of their own area of need & interest. nd of the whole syllabus any remarks/ suggestions:

# **B.A. 3 Semester 5 Home Science Paper 1** Surface Ornamentation of fabrics(Theory)

-	Programme/Class: Yea Graduation			Sei	mester: 5
Subject: Ho	ome Science				
Course	e Code: A130501T	Course Title: Surfa	ce Orname	ntation Of Fabric	rs (Theory)
Course out	comes:				
<ul> <li>Iden</li> <li>Lear</li> <li>Kno</li> <li>Lear</li> <li>Kno</li> <li>Iden</li> </ul>	wing why fabrics loc atify the different tech rn about finishes done wing about dyeing fa rn how printing on fa wing the traditional tex atifying traditional tex wing the importance	aniques of fabric fro e on fabrics brics brics is carried embroideries of Ind atiles of different st	ia ates	l	
	Credits: 4			Core Compuls	ory / Elective
	Max. Marks: 25+75 Min. Passin			ng Marks:	
То	otal No. of Lectures-	60			
Unit Topics			No. of Lecture		
Ι	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			8	
п	<b>Finishes</b> (a) Classification of fabric finishes (b) Study of purpose and process of finishes (i) General Purpose finishes-Bleaching, Mercerization, Calandering, Sanforization, Tentering, Singeing,			8	
ш	Scouring(ii) Functional FinishesIII. Dyeing -Classification and use of dyes-Natural v/s Synthetic, (Basic, Acidic, Direct, Azoic, Natural, Sulphur, Vat, Disperse and Reactive dyes) Resist Dying Techniques- Tie & Dye, Batik.			8	
IV	IVPrinting (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			8	
V	Traditional Embroidaries: Meaning and status of traditional craft			0	
VI	<b>Traditional Textil</b> different states of In Kashmir carpets, Pa painted and dyed-S Bandhani.	es: Knowing the Tr ndia (a) Woven fab atola, Ikat, Pocham	aditional te rics- Baluch palli, Chanc	xtiles of hars, brocades, deri (b) Printed,	7

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.	7
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.	8
Suggeste	d Readings:	
	arsh JT: Textile Finishes otman Er: Dyeing And Chemical Technology Of Fibres	
	seph M: Introduction To Textiles	
	rbman P Bernard: Textiles- Fibre To Fabric	
	ollen & Saddler: Introduction To Textile	
	Hall: The Standard Hand Book Of Textiles, Wood Head Publication,	
	E. Smith: Textile Processing –Printing, Dyeing, Abhishek Publishing,	2003
	te Broughton: Textile Dyeing, Rockport Publishers, 1996	
	S. Murphy: Textile Finishing, Abhishek Publication, 2000	anal Dublishang 1006
• Na	ik.D. Shailiaja:Traditional Embroideries Of India, New Age Internati ik.D. Shailiaja, Jacquie.A.Willson: Surface Designing Of Textile Fab ernational Publishers,2006	
• Bh	argav, Bela. Vastra Vigyaan, Univ. Book House Pvt. Avam Dhulai Kala,Uni Ltd. Jaipur	versity Book House
• ]	Patni .Manju, Vastra Vigyaan Avam Paridhan ka Parichay ,Star Publi	cations, Agra.
	e digital platforms weblinks-	
Swayam I		
http://heec	ontent.upsdc.gov.in/Home.aspx	
This corr	rse can be opted as an elective by the students of following subjects	. Open for all
	rse can be opted as an elective by the students of following subjects	
Cuasast	d Continuous Evolution Methods:	
	d Continuous Evaluation Methods: eminar on any topic of the above syllabus.	
	est with multiple choice questions/ short and long answer questions	
• S	ubjective long questions ttendance.	
	rerequisites: To study this course, a student must have had the subject	t in class 12 <sup>th</sup> .
	· · · · · · · · · · · · · · · · · · ·	

# B.A. 3 Semester 5 Home Science Paper 2 Community Development & Programme Planning (Theory)

Programm	e/Class: Degree	Year: 3		Ser	nester: 5
Subject: Hom	e Science				
Course	Code: A130502T	Course Title: Cor (Theory)	mmunity D	evelopment & F	Programme planning.
Deve     Creat     Ident	erstand the Cor elopment. te awareness about ify the leadership	nmunity Develop at the various develop pattern in the com nent, monitor & ev	lopment pro	ogrammes.	izing system for
	Credits: 4			Core Compuls	ory / Elective
	Max. Marks: 2	25+75		Min. Passin	ng Marks:
Tota	ll No. of Lectures	s- 60			
Unit		Topic			No. of Lectures
I	<b>Community Development</b> : Meaning, Definition, Functions, Objectives, Philosophy, Principles of Community Development Programme in India.			8	
п	<b>Community Development Organization</b> : Meaning, Types, Principles, Role & Administrative Structure at the National, State, District, Block & Village levels.			8	
III	Home Science Extension Education in Community Development: Origin, Concept, Need, Importance and Contribution of Home Science Extension Education in National Development.			7	
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.			7	
V	Support Servic Camp Youth Clubs etc	e of Youth Develo	pment: NC	CC, NSS, Youth	7
VI	NGO & Others: Contribution towards community services, Types & Role of NGO - WHO, CARE, UNICEF, UNESCO, UNDP, CRY, HELP-AGE INDIA.			•	8
VII	<b>Leadership:</b> Co Function and Ro	ncept, Definitions, ble of Community I Training of leaders	Types, Imp leaders. Me		7
VIII	<b>Programme Pla</b> cycle and its cor (i)Designing the	anning: Programm	e planning of the objecti	ves, Identifying	8

#### (ii) Implementation. (iii) Monitoring and Evaluation.

## Suggested Readings:

- 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, New Delhi.
- Julie Fisher. (2003). Governments, NGO's and the Political Development of the Third World. Jaipur: Rawat Publications
- Mohsionnadeem, (1985), "Rural Development through Government Program" Mittal Publications New Delhi.
- Manju Patni & Harpalini, (2018) Prasar Shiksha avam sanchar, Star Publications, Agra.
- Reddy, A [1987]. "Extension Education". Bapatha, Andra Pradesh, India.: Sreelekshmi Press.
- Ravi Shankar Kumar Singh. (2003). Role of NGO's in Developing Countries (Potentials, Constraints and Policies). New Delhi: Deep & Deep Publications (P) Ltd

## Suggestive digital platforms weblinks

- <u>https://bit.ly/3l3Ayaj</u>
- <u>https://bit.ly/35RnyAi</u>
- <u>https://www.un.org/en/universal-declaration-human-rights/</u>
- <u>https://www.un.org/womenwatch/daw/cedaw/text/econvention.htm</u>
- <u>https://www.ohchr.org/EN/ProfessionalInterest/Pages/CRC.aspx</u>
- <u>https://www.undp.org/content/undp/en/home/sustainable-development-goals.html</u>
- <u>https://bit.ly/39ROD8X</u>
- <u>https://www.unicef.org/</u>
- <u>https://www.who.int/about</u>
- <u>https://www.careindia.org/</u>

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.
- Attendance.

Course prerequisites: To study this course, a student must have had the subject in class 12<sup>th</sup>

# B.A. 3 Semester 5 Home Science Paper 3 Community Transforming (change) (Practical)

Programme	/Class: Degree	Year: 3		Sen	nester: 5
Subject: Home	e Science				
Course outco Addre Make Under	Course Code: A130503PCourse Title: Community Transformation (Change). (Practical)Course outcomes:• Address & resolve women & family related issues.• Make use of Audio-visual aids in planning & conducting group communication• Understand the role of Government bodies in development of the community.• Organizing people for their own development.				
	Credits: 2			Core Compulse	ory / Elective
	Max. Marks:	25+75		Min. Passin	g Marks:
Total	No. of lab.peri	ods 30(60 hours)			
Unit	То	opic			No. of lab.periods
I	poor hea issues re critical a	the target group & alth, malnutrition, il clated to women and analysis of welfare ion of report.	literacy, po d children.	verty, domestic Observe and	8
II	through fabric su and spra Kashida Bengal,	through acquiring skills in surface ornamentation of fabric such as tie and dye, batik, block, stencil printing and spray (any three), Kashida of Kashmir, Phulkari of Punjab,Kantha of Bengal, chickenkari of Lucknow, kutch work of Gujrat Sindhi stitch, Kasuti of UP and zardozi work(any7			7
III	• Prepare	& learn the use of A	Audio-visua	al Aids.	7
IV Suggested Pa	format to	p a script in the Folk drama (Nukkad Natak) to perform in the target group.		8	
<ul> <li>Suggested Readings:</li> <li>Mondal Sagar, Misra OP (2018) "Fundamentals of Extension education &amp; Rural Development", Kalyani Publications, New Delhi.</li> <li>Mortiss PD (1988) Agricultural Extension- Practical Manual" Department of Primary Industries, Queens Land Government.</li> <li>Pradhan.K. Varaprasad.C (2018) Glimpses of Practical in Extension Education, New India Publishing Agency. New Delhi</li> <li>Jaipal Singh." Prasar Shiksha avam Gramin Vikas" SR Scientific Publications, Agra</li> <li>Suggestive digital platforms weblinks- https://bit.ly/3922ZTH Svayam Portal, http://heecontent.upsdc.gov.in/Home.aspx</li> </ul>					

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

## Suggested Continuous Evaluation Methods:

- Assessment of Audio-visual Aids and their use.
- Assessment of techniques and communication skills.
- Assessment of Educational Plan and Visits Record.
- Attendance.

Course prerequisites: To study this course, a student must have had the subject in class 12<sup>th.</sup>

## B.A. 3 Semester 5 Home Science Paper 4

## **Research Project**

Programme/C Graduation	Class:	Year: 3		Semester: 5	
	nmunity and Lif	fe Science (Home S	Science)		
Course Code	: A130504R	Course Title: Res	earch proje	ect	
Course outcomes: Learns to communicate with community around Learns to prepare a survey/interview schedule Becomes sensitized to problems being faced in community Increases awareness of candidate.					
Credits: 3			Core Con	npulsory / Electiv	e
Max. Marks:	25+75		Min. Pass	ing Marks:	
Total No. of	lectures-45 hou	rs	I		
Unit	Topics				No. of hours
Ι	candidate The Candidate identify probl It many inclu Anganwadi/ H farmland / NGO / Crèche Diet councelle school/ Vridh Mentally chal councellor/ D embroidery on	hmunity services so e has to explore the em in any one of t de lealth services/ Ma e/ Nursery School/ or/ Boutique/Balw a Ashram(old age lenged institution/ yeing or printing b food processing u ilable/ Industry pr	e surroundin the followin arket / Dairy ' Hospital/ J adi/ Youth home)/ Div Village pan Unit/ Cotta nit / SHGs/	ngs and study / ng. y/ Agricultural Fitness center/ center/ Primary vang school/ nchayat / School ge level ' Bank schemes/	12
Π		on to carry the visi the area/ site for d		an	11

III	Develop a tool for conducting a survey of the selected area and collect data from the area/ seek permission to conduct short training in the area.	12		
IV	A detailed Report to be prepared and submitted.	10		
	can be opted as an elective by the students of following subjects	s: Open for all		
00	ontinuous Evaluation Methods:			
	yey or tool on any one of the above areas			
	f data related to the area.			
	fying the authenticity of work done from the mentor			
Report of the identified problems and survey conducted. Course prerequisites: To study this course, a student must have had cleared the 4th semester				
Course prete	equisites. To study this course, a student must have had cleared	uie 4ui seillestei		

# **B.A. 3 Semester 6 Home Science Paper 1** Therapeutic Nutrition( Theory)

Programme/C Certificate	Class:	Year: 3		Semester: 6	
Subject: Ho	me Science	L		L	
Course Code	: A130601T	Course Title: Die	etetics and T	Therapeutic Nutrit	ion
Course outco	mes:				
2-Develop an	<ol> <li>Gain knowledge of principles of diet therapy</li> <li>Develop and understand modification of the normal diet for therapeutic purposes</li> <li>Practical knowledge of dietary management in some common disorders</li> </ol>				
Credits: 4			Core Cor	npulsory / Electiv	e
Max. Marks:	25+75		Min. Pass	sing Marks:	
Total No	o. of Lectures-6	0			
Unit		Topics			No. of Lectures
I	<ul><li>b) Importance</li><li>c) Facts about</li><li>d) Objectives</li></ul>	of Health Dietetics and Therapeutic Nutrition e of Diet Therapy t fast foods/Junk foods of therapeutic Diet of diet therapy		07	
п	<ul><li>b) Methods of</li><li>On the</li></ul>	on of normal diets for therapeutic purposes modification basis of nutrients s of consistency beding methods beding			07
ш	<ul> <li>b) Measureme</li> <li>Direct o</li> <li>Indirect</li> <li>c) Factors infl</li> </ul>	olism ic value of food ent of energy exchar calorimeter t calorimeter luencing the Basal N luencing the total en	/letabolic Ra	ate	08

[		· · · · · · · · · · · · · · · · · · ·		
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 diet	07		
V	<ul> <li>Diet during Digestive system disorders</li> <li>a) Peptic ulcers–Causes, symptoms and diet modification</li> <li>b) Diarrhea and Constipation –Causes, treatment and diet modification</li> </ul>	08		
VI	Weight Management a) Overweight and Obesity -Introduction to Obesity -Causes of Obesity -Diet Modification b) Underweight -Causes -Treatment -Diet Therapy	07		
VII	<ul> <li>Therapeutic Diets in Cardiac Diseases <ul> <li>a) Atherosclerosis</li> <li>-Introduction</li> <li>-Dietary factors influencing lipid level in blood</li> <li>-Modification of diet and Meal Pattern</li> </ul> </li> <li>b) Hypertension <ul> <li>-Causes and symptoms</li> <li>-Diet in Hypertension</li> </ul> </li> </ul>	08		
VIII	<ul> <li>Endocrinal Disorders <ul> <li>a) Introduction to endocrinology</li> <li>b) Various endocrine glands and their functions: Thyroid, Adrenal and Pancreas</li> <li>c) Diabetes Mellitus–occurrence types, symptoms, metabolic changes, dietary modification and educating the patient</li> </ul> </li> </ul>	08		
Suggested Re				
<ul> <li>Sumati R Mudambi – "Fundamentals of food, Nutrition and Diet Therapy", New Age International Pvt. Ltd, New Delhi, 6<sup>th</sup> Edition (2018).</li> <li>B Srilakshmi- "Dietetics", New Age International Publishers, New Delhi 2017</li> <li>Bamji MS, Krishnaswamy K and Brahmam GNV(Eds) (2009), Text book of Human Nutrition, 3<sup>rd</sup> Edition, Oxford &amp; IBH Publishing Co. Pvt. Ltd. New Delhi</li> <li>Dr. Brinda Singh- Aahar Vigyan evam Poshan, , Panchsheel Prakashan, Jaipur, 2015; 13<sup>th</sup> Ed.</li> <li>Dr.DevinaSahai, SamanyaEvamUpcharatmakPoshan, New Age International Publishers.</li> </ul>				
<ul> <li>Dr. Sheel Sharma, "Nutrition and Diet Therapy" PEEPEE Publishers and Distributers (P) Ltd. Delhi, 2014, Ist Ed.</li> <li>Shubhangini A Joshi, – "Nutrition and Dietetics", Mc Graw Hill Education Private Ltd., New Delhi, 2013</li> </ul>				
<ul> <li>Kumud khanna– "Text book of Nutrition and Dietetics", Elite Publishing House Pvt. Ltd, New Delhi, 7<sup>th</sup> Ed. 2013</li> </ul>				

M Swaminathan – Essentials of food and Nutrition, Vol II, Applied Aspects, The Bangalore Printing and Publishing Co. Ltd, Bangalore, 2<sup>nd</sup> Edition 1985, Reprint 1997.

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

#### **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

Course prerequisites: To study this course, a student must have had the subject .....in class/12<sup>th</sup>/ certificate/diploma.

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Suggested equivalent online courses:

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:**

• 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.

At the End of the whole syllabus any remarks/ suggestions:

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# B.A. 3 Semester 6 Home Science Paper 2 Research Methodology and Gender Development ( Theory)

Programme/Class: Degree		Year: 3		Ser	Semester: 6	
Subject: Commu	nity & Essential S	cience (Home Scien	nce)			
Course Code: A130602T Course Title: Research Methodology and G (Theory)			ender Development			
Course outcome	s:	-				
The student at the	e completion of the	e course will be able	e to:			
<ul> <li>Explain the second secon</li></ul>	he concept and use	e of Research.				
Develop	a research proposal	1.				
Learn abo	out the data, sample	e and report writing	•			
	op insight into the	General issues of v r empowerment of				
	Credits: 4 Core Compuls				ory / Elective	
Ν	/lax. Marks: 25+75	5		Min. Passir	Min. Passing Marks:	
Total No	o. of Lectures-Tuto	orials- 60Lectures				
Unit	To	Торіс			No. of Lectures	
	PART A					
Ι	Social Research:					
I	• Concept,			6		
	<ul><li>Scope,</li><li>Steps of research</li></ul>					
П	<ul> <li>Sampling</li> <li>Concept, Techniques, Principles and Limitations of sampling.</li> </ul>			6		
	Data Collection:					
III	• Sources	• Sources of Data Collection: Primary & Secondary			8	
	Tools of	• Tools of Data collection: Interview schedule,				
	Observation, Questionnaire					
Methods of data collection						
IV	Report Writing				10	
		Summary, Conclusion and Recommendations				
	Writing references					
	-	process of research Preface, Chapteriza	-	•		

	Figures, Appendices, Bibliography and			
	Acknowledgement			
	PART B			
V	Women in Development: Capacity Building for women-	8		
v	Education, Decision Making abilities, Opportunities,			
	Awareness & Information on social and legal issues.			
VI	Women's Organizations & Collective Strength: Women's	7		
	action groups and women's participation in development			
	initiative.			
	Employment Trends of women: Need for self-employment,			
VII	Opportunities & challenges in an organized and un-organized	7		
	sector.			
VIII	Entrepreneurship Development to empower women:	8		
	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			
	women. (e) Mahila udyam nidhi scheme.			
2. R. Kumar:	ri: Research Methodology- Method and Techniques Research Methodology: A step by Step Guide for Beginners			
-	l: Introduction to Research Methodology for Social Sciences			
	er, Scales and Douglas: Methods of Research			
	nla (2000). Understanding Gender. New Delhi. Kaali for Women (1994). Women Work, Development and Ecology. New Delhi, Ha			
New Delhi,	mi (2007). Women's Livelihood Rights: Recasting Citizenship fo Sage Publications.	<b>-</b>		
8. Sohoni, K f AnandPubli	Veerj, (1994), Status of Girls in Development Strategies, New Del cations	ni, Har-		
	a K. & Kickul Jill R.,2007, Entrepreneurship Strategy: Changing I	Patterns in New		
Venture				
	rowth, and Reinvention, SAGE Publications, Inc.	<b>Salaati</b> a		
Publishing	upta, 2001, Entrepreneur Development- New Venture Creation, C	Jaigotia		
0	ju. Anusandhan Vigyaan , Star Publications, Agra.			
	Vyavsayik Prabandh ke Siddhant avam Udyamita, RBD Publicat	ions.		
	Udyamita Vikas,Kailash Pustak Sadan, Bhopal			
Suggestive digit	al platforms web links- e-PG Pathshala – Inflibnet			
This course can b	e opted as an elective by the students of following subjects: Op	en for all		

Suggested Continuous Evaluation Methods:

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

Course prerequisites: To study this course, a student must have had the subject in class 12<sup>th</sup>.

• The eligibility for this paper is 10+2 with any subject

Suggested equivalent online courses:

• IGNOU & Other centrally/state operated Universities/ MOOC platforms such as "SWAYAM" in India and Abroad.

Further Suggestions:

It widens the scope for students to join Government and Non-Government organization upskilling the people at different levels as per their socio-economic structure.

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At the End of the whole syllabus any remarks/ suggestions:

# **B.A. 3 Semester 6 Home Science Paper 3** Therapeutic Diet Preparation and Nutrient Evaluation (**Practical**)

Programm Certif		Year: 3 Se		emester: 6		
Subject: Home Science(Practical)						
Course Code: A130603P Course Title: Therapeutic Diet Preparation and Nutrient Calculation						
Course outcome	Course outcomes: 1- Gain knowledge of principles of diet therapy					
2-Develop and	understand m	odification of the ne	ormal diet f	for therapeutic pu	urposes	
3- Practical kno	3- Practical knowledge of dietary management in some common disorders					
	Credits: 2 Core Compulsory / Elective					
Max. Marks: 25+75 Min. Passin			g Marks:			
Total No. of	lab.periods -3	0(60 hours)				
Unit		Topic		No. of lab.periods		
I	Modification of normal diet for therapeutic purposes- preparation and presentation		06			
П	Therapeutic Diet Preparation and Nutrient Calculation of - Diet in fever - Diet in diarrhea - Diet in Constipation			08		
III	some C - Diet in - Diet in	c Diet Preparation and Nutrient Calculation of Common Disorders in diabetes Mellitus in Hypertension in Atherosclerosis			08	
IV	and Nutrient - Overw	Iodification for weight management – Preparation ent Calculation of diet in- erweight & obesity derweight			08	
Suggested Readings: ♦ Sumati R Mudambi – "Fundamentals of food, Nutrition and Diet Therapy", New Age						

International Pvt. Ltd, New Delhi, 6<sup>th</sup> Edition (2018).

- ♦ B Srilakshmi- "Dietetics", New Age International Publishers, New Delhi 2017
- Bamji MS, Krishnaswamy K and Brahmam GNV(Eds) (2009), Text book of Human Nutrition, 3<sup>rd</sup> Edition, Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi
- Dr. Brinda Singh- Aahar Vigyan evam Poshan, , Panchsheel Prakashan, Jaipur, 2015; 13<sup>th</sup> Ed.
- Dr. Sheel Sharma, "Nutrition and Diet Therapy" PEEPEE Publishers and Distributers (P) Ltd. Delhi, 2014, Ist Ed.

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

## Suggested Continuous Evaluation Methods:

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

Course prerequisites: To study this course, a student must have had the subject .....in class/12<sup>th</sup>/ certificate/diploma.

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## Suggested equivalent online courses:

IGNOU and other centrally/state operated Universities/MOOC platforms such as "SWAYAM" in India and abroad Svayam Portal, http://heecontent.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.

# B.A. 3 Semester 6 Home Science Paper 4

## **Research Project**

Programme/C Graduation					
Subject: Con	nmunity and Lif	e Science (Home S	Science)		
Course Code	: A130604R	Course Title: Res	earch Proje	ect II	
Becomes sen Tries with so Improves wr	mmunicate with sitive to needs me intervention	n community arous of the society when n plan for problems ntation abilities of	re she lives s faced in c the candid	ommunity late.	
Credits: 3			Core Con	npulsory / Elective	
Max. Marks:	Max. Marks: 25+75 Min. Passing Marks:			ing Marks:	
Total No. of	Lectures- 45(ho	ours)			
Unit	Topics				No. of
					Lectures (hours)
	The Candidate has to select and give inputs in any one of the following. It many include Anganwadi/ Health services/ Market / Dairy/ Agricultural farmland / NGO / Crèche/ Nursery School/ Hospital/ Fitness center/ Diet councellor/ Boutique/Balwadi/ Youth center/ Primary school/ Vridha Ashram(old age home)/ Divang school/ Mentally challenged institution/ Village panchayat / School councellor/ Dyeing or printing Unit/ Cottage level embroidery or food processing unit / SHGs/ Bank schemes/ Subsidies available/ Industry producing consumer goods				
Π	An intervention plan would be developed based on problem identified in the area/ a field visit is mandatory to develop an understanding of the whole process.			11	
III	III The planned intervention to be carried in the selected area			l in the selected	12
	post interve	ne intervention, the ention data has to be interaction data has to be isit and interaction of the entire of the en	be collected	d and compared /	
IV	A detailed Report is to be submitted and evaluated.			evaluated.	10

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

Suggested Continuous Evaluation Methods:

- Prepared intervention plan on any one of the above areas
- Collection of data related to the area.
- A letter certifying the authenticity of work done from the mentor
- Report of the implemented plan and impact/experience of intervention.

Course prerequisites: To study this course, a student must have had cleared the 4th semester