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

Year	Semester.	Course Code	Paper Title	Theory/Practical	Credits
B.A- 1	1	A130101T	Fundamentals of Nutrition and Human Development	THEORY	4
	1	A130102P	Cooking Skills and Healthy Recipe Development	PRACTICAL	2
	II	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
	٧	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

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 Development (Theory)	4	60
	Cooking Skills and Healthy Recipe Development (Practical)	2	30
	Total	6	90
Semester II	Name of Paper	Credits	Lectures
	Introduction to Clothing and Textile &Family Resource Management(Theory)	4	60
	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 (Theory)	4	60
	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 planning (Theory)	4	60
	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)

Certificate	Jiass:	Year: 1	Semester: 1	
Subject: Ho	me Science			
Course Code: A	A130101T	Course Title:		
		Fundamentals of	Nutrition and Human Develop	ment
PreparStuderAcquaExplaiIdentif	the complete the students will get faint students in the need are by the biologic	amiliar with different with practical knowled and importance of stud- ical and environmenta	be able to: siology based courses t methods of cooking edge of nutrient rich foods ying human growth and develo I factors affecting human deve and developmental tasks of inf	elopment
Credits: 4			Core Compulsory / Electiv	re .
Max. Marks:	25+75		Min. Passing Marks:	
Total No. of	Lectures-60			
Units		Торіс		No of Lectures
I	M Swam	Traditional Home Science and its Relevance in current era Contribution made by Indian Home Scientists i.e. M Swaminathan, C V Gopalan, S K Day, Ravindra Nath Tagore etc.		
П	Cell and D Respirator	Cell and Digestive System Respiratory and Cardiovascular system		
Ш	Food- Me Nutrition	Food and Nutrition Food- Meaning, Classification and function Nutrition- Concept of Nutrition Nutrients-Macro and Micro, sources and deficiency diseases.		
IV	Traditiona	Methods- Methods, Adon of Nutrients while of methods of enhancing, fermentation, food	vantages and Disadvantages Cooking. ng nutritional value of foods- synergy etc.	08
		PART B		
v	Con Der Don Prin	velopment mains, Stages and nciples of Growth and	d need to study of Human	

	Prenatal Development and Birth Process:	6
	Conception, Pregnancy and Childbirth Stages of birth	
VI	 Types of delivery (natural, c-section, breech, home vs. assisted delivery) Physical appearance and capacities of the new-born Factors affecting Pre-natal development. 	
	Infancy:	
	 Developmental tasks during Infancy and Preschool Stage. 	8
VII	Physical and Motor Development. Sacial and Motor Development.	
	 Social and emotional development Cognitive and language development 	
	Early Childhood (Pre School) years:	8
	Developmental Tasks during Early childhood. Physical and Mater David.	
VIII	Physical and Motor Development Social and emotional development	
	Cognitive and language development	

- Dr. Brinda Singh, Manav Sharir evam Kriya Vigyan Panchsheel Prakashan, Jaipur;2015
- 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

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

Courseprerequisites: Tostudythiscourse, astudentmu The eligibility for this paper is 10+2 with any subject	sthavehadthesubject ALLinclass12 th .
Further Suggestions: It widens the scope for students to join Governmenthe people at different levels as per their socio-economic.	
At the End of the whole syllabus any remarks/ su	ggestions:

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

Programme/Class: Certificate		Year: 1	Year: 1 Semester	
		Subject: Home Scien	nce (Practical)	
Course Code:	A130102P	Course Title: Coo	king skills and healthy	recipe development
Stude Acqui	ents will get fam	iliar with different meth th practical knowledge of	hods of cooking of nutrient rich foods	
	Credits: 2		Core Compuls	sory / Elective
	Max. Marks: 2	5+75	Min. Passi	ng Marks:
		Total No. of Lab Period	ds-30 (60 hours)	
Unit		Topic		No. of lab.periods
I	- Weigh	ic cooking skills Weighing of raw materials Preparing of different food items before cooking		06
п	Preparation of various dishes using different methods of cooking - Boiling /steaming - Roasting - Frying – Deep/shallow - Pressure cooking - Hot air cooking/Baking		08	
ш		Different styles of cutting fruits and vegetables - Salad Decoration/Dressings		
IV	- Protein - Carboh - Fat ricl	ns rich dish		10

- Dr. Brinda Singh, Manav Sharir evam Kriya Vigyan Panchsheel Prakashan, Jaipur;2015
- 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, 6th 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/12th/ 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/Class	s: Certificate	Year: 1	Semes	ster: 2
Subject: Home S	Science			
Course Code: A130		ourse Title: Introduction	n to Clothing and Textile	es& Family Resou
Learn how Understand Learn the f Understand Gain know	it scope of textile and clothing why fabrics are difff fabrics can be manufact be basic clothing concepts amily resource management.	rerent tured s and garment making nent as a whole. nd use of resources through & Frency & Recovery	oughout the Family life cy arce.	ycle.
	Credits: 4		Core Compulsory	/ Elective
Ma	x. Marks: 25+75		Min. Passing M	farks:
Total No.	of Lectures- 60			
Unit	Торі	ic		No. of Lectures
	PART			
I	fiber on the basis of primary and secondar	their source (e) Genera	Classification of textile properties of fibers-	7
п	Knowing Fibers-Ma (a) Cellulosic Fibers (c) Synthetic/Manma	anufacture, processing, -cotton, Linen (b) Prote ade fibers-Nylon, Polye	ster Acrylic Rayon	8
Ш	Yarn to Fabrics(a) Yarn Properties (b) I (Weaving, Knitting,	Definition of Yarn, Man Different fabric construct Felting, Braiding, Non- and Steps in Weaving,	nufacture of Yarn and ction techniques	8
IV	Clothing Constructi Introduction to sewin Importance of Draftii advantages & disadva	ion (a)Tools for Clothing machines, its parts aring, Draping, Flat patter antages (d) fabric preparts (d) fabric preparts (d) fabric preshrinking, straighter	nd maintenance, (c) n techniques -	7
		PART B		
V	Organizing, Controlli	ne Management: Basic nagement. Process of M ng and Evaluation. Mo s, Goals and Standards	anagement – Planning,	8
VI	Steps and Role of Dec Family Life Cycle.	making & Family life s and Factors affecting cision Making in Manag	the use of Resources. gement. Stages of	8
	Time, Energy and M Steps in making Time	Oney Management: To Plan, Tools and Aids i	ime as a Resource, n Time Management.	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	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 Pressure Cooker, Mixer and Grinder, Refrigerator, Washing Machine, Vacuum Cleaner & Solar Cooker.	7

- 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-
- R Bhatia & C Arora (1999), Introduction To Clothing And Textile, Printed by Macho Printery, Raopura,
- 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 Publishers
- Moorthy G. (Ed.). (1985). Home Management. N. Delhi.: Arya Publishers, Mullick, P. Text book of Home 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,

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

Courseprerequisites: Tostudythiscourse, astudentmusthavehadthesubject ALL . inclass 12th.

Suggested equivalent online courses: IGNOU & Other centrally/state operated Universities/ MOOC platforms such as "SWAYAM" in India

rur	her Suggestions: Students may develop their managerial skills after completion this course and may join any filed As Management of Resources is applicable everywhere.
	At the End of the whole syllabus any remarks/ suggestions:

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

Program Cerifica	nme/Class:	Year: 1	Sen	nester: 2
cience)	Subject: Community a			
Cours	se Code: A130202P Cou	irse Title: Clothing an	nd Textiles (Practical)	
 Ur Le 	atcomes: bility to identify fibers a derstanding why fabric arning basic Sewing sk arn how garments are s	cs are different		
	Credits:		Core Compulso	ory / Elective
	Max. Marks: 25+	75	Min. Passin	g Marks:
To	otal No. of lab.periods	- 30 (60 hours)		
Unit	Topic			No. of lab.periods
I	Identify fibers and fabrics(a)Fibre identification tests- Visua burning and microscopic- natural and synthetic, pure and blended fibres. (b) Weaves identification and understanding their usage.			7
п	Learning to stitch (a) Knowing how to stitch-an idea of straight-line stitching, stitching on curves and at corners (b) Basic Stitching-Temporary Stitching, Permanent and decorative stitching			7
Ш	fell seam, French se Disposal of fullness Neckline Finishing-	Basic sewing (a) Seams-Plain seams and its finishing, run & fell seam, French seam (b) Attaching different Fasteners (c) Disposal of fullness-darts, gathers, tucks and pleats (d) Neckline Finishing-Facing & Binding		
IV	Preparing Frock (a basic block and slee	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		

- 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.

Courseprerequisites: Tostudythiscourse, astudentmusthavehadthesubject ALL inclass 12th.

B.A. 2 Semester 3 Home Science Paper 1

Advar	ice Nutrition and Hi	uman Development (Theory)
Programme/Class: Diploma		Semester: 3
Subject: Home Science		
Course Code: A130301T	Course Title: Advance Nutrition and Human Development (Theo	
Course outcomes: The student at the completion		

- Create an awareness about importance of healthy meal at various stages of life cycle
- Inculcate healthy eating practices among students
- Develop skill of meal planning for different physiological groups
- Explain the Physical & Psychological changes during middle childhood, adolescent and adulthood stage.

 Identify the biological and environmental factors affecting personality.

 Learn about the characteristics, needs and developmental tasks of Middle childhood years, Adolescent & Adulthood stage.

Credits: 4 Core Compulsory / Elective			
Max. Marks: 25+75		Min. Passing Marks:	
Total No	o. of Lectures-60		
Unit	Topic		No of Lectures
I	planning, Balanced Diet, RDA		
п	Nutrition During Infancy and Childhood- Nutrition Requirement, RDA and Diet Plan		07
Ш	Nutrition During Adolescence, Adulthood and Old Age. Nutrition Requirement, RDA and Diet Plan		08
IV	Nutrition During special condition pregnancy and lactation Nutrition Requirement, RDA and Diet Plan.		08
	PART B		
V	V Middle Childhood Years Developmental tasks and characteristics of middle childhood period		8
	Physical and motor developm	ent	

	Social & emotional development	
	Cognitive development	
	Language development	
VI	Puberty and Adolescence	8
	 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. 	
****	Cognitive, Language and Moral Development during Adolescence:	
VII	 Perspective on cognitive development, development of intelligence and Creativity 	7
	Adolescent language	
	Adolescent Morality	
VIII	Introduction to adulthood:	7
	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, marital and 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 $3^{\rm rd}$ 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

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/12th/ certificate/diploma.

Suggested equivalent online courses:

 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.

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

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

Program Diploma	nme/Class:	Year: 2	Ser	nester: 3
Subject: (Science)	Community & F	Essential Science (H	ome	
Cours	se Code: A130302P	Course Title: Advance	e HUMAN developmen	t (Practical)
• At	earn to cope up with	n adolescent and adulth le development related behaviour		
•	Credits:		Core Compulso	ory / Elective
	Max. Marks:	25+75	Min. Passin	g Marks:
To	otal No. of lab.perio	ods-30(60 hours)		
Unit	Торіс		No. of lab.periods	
I	Preparation of an album on developmental milestones of children. Prepare child literature. Visit to Child Care Centres/ anganwadi			8
П	Study of physical, social, emotional, cognitive, language development (any two). Observations of child rearing practices in families from different social classes		8	
Ш	Interviews of add style, behaviour	olescent girls and boys	to understand their life	7

Carry out case studies to know more about the different life stages, e.g., school going children, adolescents, Young adults. (any two)

Suggested Readings:

- 1. Monaster G.J. 1 Adolescent Development Life Tasks. Mc.Graw Hill (1977).
- 2. Ambron S.R. Child Development Holt, Renehart and Winston 1978 (IInd Edition).
- 3. 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.
- 4. Boeknek G. Human Development Brook and Cole Publishing Company 1980.
- 5. 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

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:

Assessment of observation report.

......

- Preparation of questionnaire.
- Visits Records.
- Attendance.

Courseprerequisites: Tostudythiscourse, astudentmusthavehadthesubject ALL.. inclass 12th. The eligibility for this paper is 10+2 with any subject

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

Semester: 4

Program Diploma	ime/Class:	Year: 2	Sen	nester: 4
Subje	ect: Home Science			
Cours	se Code: A130401T	Course Title (Theory)	e: Housing &	Extension Education
Course ou	itcomes:			
Con App aest Lea Dev Con	nprehending Housing ploreciate principles of de- thetic senses. In the widening conceptivelop understanding for nprehend the various efforts.	ng need & selection of site lans for residential purpose sign and the contributing fa ts of Extension Education. Effective teaching and lear fective communication me gically advanced Audio-vis	nctors to refine pring.	
	Credits:		Core Compulse	ory / Elective
	Max. Marks: 25+7	75	Min. Passin	g Marks:
To	otal No. of Lectures- 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		
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, Rhythm, Emphasis, Harmony.			8
IV	Home Decors: Furn Floor coverings, Wa	iture, Furnishings (Curtain ill celing, Lighting, Access all art, Sculpture & Antiqu	ories (Wall	7
v	Principles, Philosoph Extension Efforts in	on: Meaning, Concepts, Ob hy of Extension Education. India. Formal & Non-form	Early nal Education.	8
VI	Extension worker. S	g & Learning: Role and Q teps in Extension Teaching the Teaching & Learning.		7
	Communication &	Extension Teaching Methace, Characteristics, Elemen		

VII	&Challenges in communications. Relationship between Communication, Extension & Development. Extension Teaching Methods- Classification, Factors guiding the Selection & use of Extension teaching methods.	8
VIII	Audio- visual Aids: Definition, Importance, Classification, Selection, Preparation & Effective use of Audio-visual Aids.	7

- Suggested Readings:
 - Khanuja, Reena (2018) Grah Vyavastha avam Grah Sajja. Agrawal Publications, Agra ISBN: 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. Florist Review
 - Aggarwal, R. (2008). "Communication-today and tomorrow", New Delhi.: Sublime Company
 - 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.
 - Supe A.N. (1983). An introduction to Extension Education. Delhi: Oxford IBH Publishing
- 2. Suggestive digital platforms weblinks-

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:

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

Courseprerequisites: Tostudythiscourse, astudentmusthavehadthesubject ALL.. inclass 12th.

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. 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	Sei	mester: 4
Subject: C Science)	ommunity and I	Essential Science (Ho	me	
Course Cod	e: A130402P	Course Title: Resource P	lanning and Decoration	n (Practical)
Plan Incom	comes: eloping skills for m & prepare budget: rporate appropriate	aking time plan for effect	ctive balance of work of	& leisure.
	Credits:		Core Compulso	ory / Elective
	Max. Marks: 2	5+75	Min. Passin	g Marks:
Tot	al No. of lab.perio	ds-30 (60 hours)		
Unit	Торіс		No. of lab.periods	
	 Preparation of time plans for self and family. Drafting family budget for different income groups. 			8
П	 Market Survey of Household Equipments- (Pressure cooker, Toaster, Gas Stove, Mixer & Grinder, Refrigerator, Washing machine, Microwave, Solar cooker) 			8
Ш	Draw Hou Layout.	Draw House Plans Standard Specifications & Furniture Layout.		
IV	Flower Ar Application	n of Color wheels & Color angement & Floor Decor of Design principles and of new styles.	oration (Rangoli)-	7

Suggested Readings: 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.). New York: Wiley (ISBN: 978-1-119-34319-6) Johanovich Inc. Ball, V. K. (1982). Art of Interior Design. New York: John Wiley & Leach, S. D. (1978). Techniques of Interior Design Rendering and Presentation (1st Ed.). Architectural record Books (ISBN-13: 978-0070368057) Mohanty, A.B. (1985). Guide to House Buildings. New Delhi: Inter India Publications Patni Manju & Sharma Lalita, Grah Prabandh, Star PublicationsAgra. Suggestive digital platforms weblinks- bit.ly/3fJfghi https://bit.ly/39mTwGQ https://bit.ly/2JoXB2e https://bit.ly/3ljkrWf. 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: Assessment of Time-Energy, Budget &House Plans. Assessment of Market Survey Records. Assessment of Flower Arrangements and Rangoli. Attendance. Courseprerequisites: Tostudythiscourse, a student must have had the subject ALL in class/12th. Suggested equivalent online courses:
IGNOU & Other centrally/state operated Universities/ MOOC platforms such as "SWAYAM" in India and Abroad Further Suggestions: Students may develop their managerial skills & Interior designing skills after

completion this course with the capability to opt for a job or start their own ventures.

The program giving an opportunity to advancement their knowledge by enrolling for

advanced specialized program of their own area of need & interest.

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

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

	ramme/Class: uation	Year: 3	S	emester: 5
ubject:	Home Science			
Co	ourse Code: A130501T	Course Title: Surface Or	namentation Of Fabr	rics (Theory)
ourse	outcomes:			()
I I K I	earn about finishes dor Knowing about dyeing f earn how printing on fa Knowing the traditional dentifying traditional te	chniques of fabric from sur ne on fabrics fabrics abrics is carried		
	Credits: 4		Core Compul	sory / Elective
	Max. Marks: 25	5+75		ing Marks:
	Total No. of Lectures-	60		
Unit		Topics		No. of Lecture
	Techniques of Cre			
I	embroidery and oth	(c) dyeing of fabrics(d) pri er decoration methods	inting fabrics(a)	8
П	Finishes (a) Classif and process of finis Mercerization, Cala Scouring (ii) F	ication of fabrics(d) private decoration methods ication of fabric finishes (hes (i) General Purpose finandering, Sanforization, Tunctional Finishes ication of dyes- Natural vi	b) Study of purpose inishes-Bleaching, entering, Singeing,	

	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	8
v	Traditional Embroideries: Meaning and status of traditional craf India, Knowing about the Traditional Embroideries of different s Zardozi, Kashida of Kashmir, Phulkari of Punjab, Kantha of Ben Chikankari, Kasuti, of UP, Sindh and Kutch work of Gujarat.	6
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.	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

- 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 Age International Publishers, 2006
- Bhargav, Bela. Vastra Vigyaan, Univ. Book House Pvt. Avam Dhulai Kala, University Book House Pvt Ltd. Jaipur
- Patni .Manju, Vastra Vigyaan Avam Paridhan ka Parichay ,Star Publications, Agra.

Suggestive digital platforms weblinks-Swayam 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:

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

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

Programme/Class: Degree Year: 3			S	emester: 5
Subject: H	ome Science			
Cour	se Code: A130502T	Course Title: Commu	nity Development &	Programme planning
• Cr	utcomes: nderstand the Corevelopment. reate awareness about	mmunity Development the various development pattern in the communient, monitor & evaluat	ent programmes.	ganizing system for
	Credits:		Core Compul	sory / Elective
	Max. Marks: 2	5+75	Min. Passi	ing Marks:
To	otal No. of Lectures	- 60		
Unit		Topic		No. of Lectures
I	Objectives, Philo	Community Development: Meaning, Definition, Functions, Objectives, Philosophy, Principles of Community Development Programme in India.		
п	Community Development Organization: Meaning, Types, Principles, Role & Administrative Structure at the National, State, District, Block & Village levels.			8
Ш	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 Service of Youth Development: NCC, NSS, Youth Camp Youth Clubs etc.	7
VI	NGO & Others: Contribution towards community services, Types & Role of NGO - WHO, CARE, UNICEF, UNESCO, UNDP, CRY, HELP-AGE INDIA.	8
VII	Leadership: Concept, Definitions, Types, Importance, Function and Role of Community leaders. Methods of Identifying and Training of leaders.	7
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.	8

- 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

- 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
- https://bit.ly/39ROD8X
- https://www.unicef.org/
- https://www.who.int/about
- https://www.careindia.org/

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.

. 1	Atten	dance.

Courseprerequisites:Tostudythiscourse,astudentmusthavehadthesubject ALL inclass 12th

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

Programme/Class: Degree		Year: 3	S	emester: 5
Subject: Ho	me Science			
	Code: A130503P	Course Title: Communi	ty Transformation (Change), (Practical)
• Uno	dress & resolve we ke use of Audio-v derstand the role o	omen & family related is isual aids in planning & f Government bodies in their own development.	sues.	
	Credits:		Core Compu	lsory / Elective
Max. Marks: 25		25+75	Min. Pass	ing Marks:
Tot	al No. of lab.perio	ds 30(60 hours)		g- 1
Unit	Top	Topic		No. of lab.periods
I	help nutri	 Identify the target group & their relevant issues i.e. help nutrition, Education, Women's & Family issues followed by preparing a report. 		8
П	Observe & women &			7
III		Prepare & learn the use of Audio-visual Aids.		7
IV	Develop a	dentity to create an awareness on the existing ontemporary issues. evelop a script in the Folk drama (Nukkad Natak) ormat to perform in the target group.		8

- Mondal Sagar, Misra OP (2018) "Fundamentals of Extension education & Rural Development", Kalyani Publications, New Delhi.
- Mortiss PD (1988) Agricultural Extension- Practical Manual" Department of Primary Industries, Queens Land Government.
- Pradhan.K. Varaprasad.C (2018) Glimpses of Practical in Extension Education, New India Publishing Agency. New Delhi
- Jaipal Singh." Prasar Shiksha avam Gramin Vikas" SR Scientific Publications, Agra
- 1. Suggestive digital platforms weblinks-

https://bit.ly/3922ZTH

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:

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

Courseprerequisites: Tostudythiscourse, astudentmusthave had the subject ALL.. inclass 12th.

B.A. 3 Semester 5 Home Science Paper 4

Research Project

Graduati		Year: 3		mester: 5	
Subject:	Community and L	ife Science (Ho	me Science)		
Course C	Code: A130504R	Course Title:	Research project		
Learns to Learns to Becomes	utcomes: o communicate wit o prepare a survey/ sensitized to prob a awareness of can	interview sched lems being face	ule		
Credits: 3	3		Core Compul	sory / Electi	ve
Max. Ma	Max. Marks: 25+75 Min. Passing Marks:				
Total No.	of lectures-45 hor	urs			
Unit	Topics		*		No. of hours
I	The Candidate	e has to explore	es surrounding livi the surroundings of the following.		12

	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	
П	Seek permission to carry the visits, Plan Visits to the area/ site for developing an understanding	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

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

Suggested Continuous Evaluation Methods:
Prepare Survey or tool 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 identified problems and survey conducted.
Course prerequisites: To study this course, a student must have had cleared the 4th semester

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

Programn Certificate		Year: 3	Se	emester: 6
Subject:	Home Science			
Course Co	ode: A130601T	Course Title:	Dietetics And Ther	rapeutic Nutrition
2-Develop	nowledge of princi	ples of diet thera	any.	h
Credits: 4			Core Compuls	sory / Elective
Max. Mar	ks: 25+75		Min. Passing	
Total	No. of Lectures-6	60		
Unit		Topic	S	No. of Lecture
I	Introduction a) Definition of Health Dietetics and Therapeutic Nutrition b) Importance of Diet Therapy c) Facts about fast foods/Junk foods d) Objectives of therapeutic Diet e) Principles of diet therapy			
п	Diet and feeding methods a) Modification of normal diets for therapeutic purposes b) Methods of modification • On the basis of nutrients • On basis of consistency c) Different feeding methods • Oral feeding • Tube feeding			poses 07
ш	Direct ca Indirect Factors influ	c value of food nt of energy exch alorimeter calorimeter tencing the Basal	ange in the body Metabolic Rate energy requirement	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	Diet during Digestive system disorders a) Peptic ulcers—Causes, symptoms and diet modification b) Diarrhea and Constipation—Causes, treatment and diet modification	08
VI	Weight Management a) Overweight and Obesity —Introduction to Obesity —Causes of Obesity —Diet Modification b) Underweight —Causes —Treatment —Diet Therapy	07
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	08
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	08

Sumati R Mudambi – "Fundamentals of food, Nutrition and Diet Therapy", New Age International 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 Human

Nutrition, 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. 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/12th/ certificate/diploma. ______ 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:

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

Programme/Class: Degree		Year: 3	Semester: 6
Subject: Comn	nunity & Essential S	Science (Home Science)	
Course Co	ode: A130602T	Course Title: Research (Theory)	Methodology and Gender Developm
ExplainDevelopLearn aConduct	the completion of the the concept and use p a research proposa- bout the data, sample t survey.	ne course will be able to: e of Research.	
	Credits: 4		Core Compulsory / Elective
	Max. Marks: 25+75	5	Min. Passing Marks:
Total N	lo. of Lectures-Tute	orials- 60Lectures	
Unit	To	opic	No. of Lectures
	PART A		
I	Social ResearchConceptScope,Steps of		6
п	Sampling Concept, Techniques, Principles and Limitations of sampling.		d Limitations of 6
ш	Data Collection: Sources of Data Collection: Primary & Secondary Tools of Data collection: Interview schedule, Observation, Questionnaire Methods of data collection		& Secondary 8 chedule,
IV	Report Writing Summary Writing i	y, Conclusion and Recommer references process of research report: F Preface, Chapterization, Hea	ormal Style of

	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.	8
VI	Women's Organizations & Collective Strength: Women's action groups and women's participation in development initiative.	7
VII	Employment Trends of women: Need for self-employment, Opportunities & challenges in an organized and un-organized sector.	7
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 women. (e) Mahila udyam nidhi scheme.	8

- 1. C. R. Kothari: Research Methodology- Method and Techniques
- 2. R. Kumar: Research Methodology: A step by Step Guide for Beginners
- 3. M. H. Gopal: Introduction to Research Methodology for Social Sciences
- 4. Good, Carter, Scales and Douglas: Methods of Research
- 5. Bhasin, Kamla (2000). Understanding Gender. New Delhi. Kaali for Women.
- 6. Devi, Uma (1994). Women Work, Development and Ecology. New Delhi, Har-Anand Publications.
- 7. Krishna, Sumi (2007). Women's Livelihood Rights: Recasting Citizenship for Development, New Delhi, Sage Publications.
- 8. Sohoni, K Neerj, (1994), Status of Girls in Development Strategies, New Delhi, Har-AnandPublications.
- 9. Gundry Lisa K. & Kickul Jill R., 2007, Entrepreneurship Strategy: Changing Patterns in New Venture
- 10. Creation, Growth, and Reinvention, SAGE Publications, Inc.
- 11. Taneja & Gupta, 2001, Entrepreneur Development- New Venture Creation, Galgotia PublishingCompany
- 12. Patni , Manju. Anusandhan Vigyaan , Star Publications, Agra.
- 13. Sudha, G.S. Vyavsayik Prabandh ke Siddhant avam Udyamita,RBD Publications.
- 14. Gupta ,U.C.Udyamita Vikas,Kailash Pustak Sadan, Bhopal
- Suggestive digital platforms web links- e-PG Pathshala Inflibnet

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

 $Course pre requisites: To study this course, a student must have had the subject\ ALL$ inclass12th.

• 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.

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)

Progra Ce	amme/Class: ertificate	Year: 3		Semester: 6
		Subject: Home Scien	ce(Practical)	
	ode: A130603P	Course Title: Theraper	utic Diet Preparation a	nd Nutrient Calculation
2-Develop a	nd understand m	nowledge of principles of odification of the norma stary management in son	f diet therapy	purposes
	Credits: 2		Core Compuls	ory / Elective
	Max. Marks: 25	5+75	Min. Passir	
Total No.	of lab.periods -3	0(60 hours)	100000	
Unit		Topic		No. of lab.periods
	Modification preparation as	of normal diet for therap nd presentation	eutic purposes-	06
п	Therapeutic Diet Preparation and Nutrient Calculation of Diet in fever Diet in diarrhea Diet in Constipation		08	
ш	Therapeutic Diet Preparation and Nutrient Calculation of some Common Disorders - Diet in diabetes Mellitus - Diet in Hypertension - Diet in Atherosclerosis		08	
IV	Dietary Modif and Nutrient C - Overweig - Underwei	ication for weight manag Calculation of diet in- ght & obesity	ement – Preparation	08

International 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 Human Nutrition, 3rd Edition, Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi
- Dr. Brinda Singh- Aahar Vigyan evam Poshan, , Panchsheel Prakashan, Jaipur, 2015;
- 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/12th/ certificate/diploma.

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 Graduation		Year:3	Semester: 6	
Subject: Co	ommunity and L	ife Science (Home S	Science)	
Course Coo	de: A130604R	Course Title: Rese	earch Project II	
Tries with s	ommunicate with ensitive to needs some intervention	entation abilities of t	e she lives	
Max. Marks	s: 25+75		Min. Passing Marks:	,
Total No. o	f Lectures- 45(1		rassing Marks.	
Unit	Topics			No. of

	The Could to the	Lecture s(ho urs)
	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	12
II	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
Ш	The planned intervention to be carried in the selected area Based on the intervention, the pre-intervention state and post intervention data has to be collected and compared / based on visit and interaction the detailed indepth data has to be collected.	12
VI	A detailed Report is to be submitted and 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.