Syllabus

SUBJECT: HOME SCIENCE (B.A.)

National Education Policy-2020



SRI DEV SUMAN UTTARAKHAND UNIVERSITY

BADSHAHITHAUL (TEHRI GARHWAL) UTTRAKHAND

SESSION 2023-24 Onwards

National Education Policy-2020 SRI DEV SUMAN UTTARAKHAND UNIVERSITY BADSHAHITHAUL (TEHRI GARHWAL) UTTRAKHAND

SUBJECT: HOME SCIENCE (B.A.)

Curriculum	Design	Committee,	Uttarakhand

Sr.No.	Name & Designation	BOS
1.	Prof. N.K. Joshi Vice-Chancellor ,Sridev Suman Uttarakhand University, Tehri	Chairman
2	Dr. Manmohan Singh Chauhan, Vice -Chancellor, Kumaun University, Nainital	Member
3.	Prof. O.P.S. Negi Vice-Chancellor, Uttarakhand Open University, Haldwani	Member
4.	Prof. Jagat Singh Bisht Vice-Chancellor, Soban Singh Jeena University Almora	Member
5.	Prof. Surekha Dangwal Vice-Chancellor, Doon University, Dehradun	Member
6.	Prof. M.S.M. Rawat Advisor, Rashtriya Uchchatar Shiksha Abhiyan, Uttarakhand	Member
7.	Prof. K. D. Purohit Advisor, Rashtriya Uchchatar Shiksha Abhiyan, Uttarakhand	Member

SUBJECT EXPERT COMMITTEE

Name	Designation	Affiliation
Prof. Preeti Kumari	Principal & Professor	O.N.S.Govt.Degree.College,
		Devprayag, TEHRI GARHWAL
Prof. Aditi Vats	Professor & Head	Department of FRM,
,		G.B. Pant University, Pantnagar.

SYLLABUS PREPARATION COMMITTEE

Name	Designation	Affiliation
Dr. Preeti Sharma	Assistant Professor & Head	Govt. P.G. College, New Tehri,
	Department Of Home Science	Uttarakhand
Dr. Anamika Chauhan	Assistant professor & Head Department Of Home Science	Chaman Lal P.G. College Haridwar- Uttarakhand

SRI DEV SUMAN UTTARAKHAND UNIVERSITY BADSHAHITHAUL, TEHRI GARHWAL (uttarakhand)

Members of Board of Studies - B.A. HOME SCIENCE

S.N.	Name	Designation	Department	BOS	Signature
1.	Prof. Dinesh Chandra Goswami	Dean, Faculty of Arts Sri dev Suman University, uttarakhand	Geography	Chairman	
2.	Prof. Preeti Kumari	Principal, O.N.S. Govt. Degree College, Devprayag	Home Science	Member	Q:
3.	Prof. Aditi Vats	Professor & Head Department of FRM, G.B. Pant University, Pantnagar.	Home Science	Member	
4.	Dr. Preeti Sharma	Assistant Professor Govt. P.G. College, New Tehri	Home Science	Member	Ram
5.	Dr. Anamika Chauhan	Assistant Professor Chaman Lal P.G. College, Landhaura Haridwar	Home Science	Member (Me
6.	Prof. Janki Panwar	Principal Govt. P. G. College, Kotdwar	Higher Education	Member	Jul
7.	Prof. Lavni Rajvanshi	Principal Govt. P. G. College, Jaiharikhal	Higher Education	Member	
8.	Prof. K. L. Talwar	Principal Govt. Degree College Chakrata	Higher Education	Member	WW/
9.	Director	Uttarakhand Bhasha Sansthan, Rajpur Road, Dehradun		Member	

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Semester-wise Titles of the Pa

Yea r	Semester.	Course Code	es of the Papers in U.G Programme (F Paper Title	The control	
D A			The state of the s	Theory/Practical	Credits
B.A		HSC/UG001	Food and Nutrition	MANOR	,
1		-	and Mathematical	MAJOR	4
1ye	A			-	-
ar					
	1	HSC/UG002	Cooking skills and healthy recipe	PRACTICAL	2
\dashv			development	FRACTICAL	2
	1	HSC/V/UG001	Food & Nutrition Skills - Food and	VOCATIONAL	3
- 1	11		Bakery Science	VOCATIONAL	3
	11	HSC/UG003	Introduction to Clothing & Textiles	THEORY	4
	11			THEORY.	4
	11	HSC/UG004	Clothing & Textiles	PRACTICAL	2
	II	HSC/M/UG001	Human Development	MINOR	4
	11				
	11	HSC/V/UG002	Food & Nutrition Skills-	VOCATIONAL	3
			Value Added Product		
			from Fruits and		
			Vegetables		
B.A	III ·	HSC/UG005	Housing	MAJOR	4
- 1					
2					
yea •					
r	III	HSC/UG006	Housing		
	tii	1130/00000	Housing	PRACTICAL	2
	111	HSC/V/UG003	Food & Nutrition Skills- Food	VOCATIONAL	
		1.00, 1, 0000	standard and Quality control	VOCATIONAL	5
,	IV	HSC/UG007	Mother craft & Human	MAJOR	4
		* 6	Development		•
-	IV	HSC/UG008	Mother craft & Human	PRACTICAL :	2
101			Development		- 0.77
-	IV	HSC/M/UG002	Human physiology	MINOR 4	1
				31	
	IV	HSC/V/UG004		VOCATIONAL	3
			on training		
B.A.	V	HSC/UG009	Fabric Finishing and Laundry	THEORY	1
3 year		2			
, 0	V	HSC/UG010	Fabric Finishing and Laundry	PRACTICAL 2	2
	V	HSC/UG011		THEORY 4	
	VI	HSC/UG012	Dietetics and Therapeutic	THEORY 4	
		1	Nutrition		
51	VI	HSC/UG013	Dietetics and Therapeutic	PRACTICAL 2	
	1.71	HSC/UG014	Nutrition Family Welfare and Community	THEORY 4	
1.5	VI	U2C/00014	Education	THEORY 4	

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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 favoring all the disciplines in Home Science. This programme develops scientific and practical approach among the students which helps in their day-to-day life.

B.A. First Year Certificate in Fundamental of Home Science 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 facet sand 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 whole some 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
Semester	Trumo of Laper		Lectures
	Food and Nutrition (Theory)	4	60
	Cooking Skills and Healthy Recipe Development	2	30
	(Practical)		00
	Total	6	90
C et an II	Name of Paper	Credits	Lectures
Semester II	Introduction to Clothing and Textile (Theory)	4	60
	(Practical)	2	30
	Clothing and Textile (Practical)	6	90
	Total		

B.A. Second Year

Diploma in Home Science

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
	Housing (Theory)	4	60
	Housing (Practical)	2	30
	Total	6	90
Semester IV	Name of Paper	Credits	No of
			Lectures
	Mother Craft and Human Development (Theory)	4	60
	Mother Craft and Human Development	2	30
	(Practical)		
	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 generates multi-skilled leaders with a holistic perspective that cuts across disciplines.
- Promote research, innovation and design (product) development favoring all the disciplines in Home Science.
- Enhance digital literacy and apply them to engage in real time problem solving and idea tion 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
	Fabric Finishing and Laundry (Theory)	4	60
	Resource Management (Theory)	4	60
	Fabric Finishing and Laundry (Practical)	2	30
	Total	10	150
Semester VI	Name of Paper	Credits	No. of
			Lectures
	Dietetics and Therapeutic Nutrition (Theory)	4	60
	Family Welfare and Community Education (Theory)	4	60
	Dietetics and Therapeutic Nutrition (Practical)	2	30
	Total	10	150

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B.A. I Semester IHome Science Paper 1 Food and Nutrition (Theory)

D						
Programme/Cl Certificate	ass:	Year:1		Semester:1		
Subject: Hom						
Course Code: HS	SC/UG001	Course Title: Food	and Nutritio	n (Theory)		
(Major) Course outcom						
		mpletion of the cours	se will be ab	la tar		
Gain Kn	lowledge of N	Nutrition.				
• Students	s will get fam	iliar with different m	nethods of co	ooking		
requant	it students wi	th practical knowled	ge of nutrien	it rich foods.		
Credits:4			Core Con	anulcom/		
				· -		
Max.Marks:25	+/5		Min. Pass	sing Marks:		
TotalNo.ofLec	tures-60					
Units	Topic					
				No of Lectures		
_	Food and N Food-mean	iutrition ing, Classification ar	nd function o	of.		
I	Food. Basic	Food Groups.			20	
	Energy- Fac body.	ctors affecting total e	energy requir	rements of the		
		iet- Definition and F	actors affect	ing a Balanced		
	Die			8		
П		oncept of Nutrition lacro and Micro (Pro	1_•			
11		te, Fat, Vitamins, Mi		nr)	20	
		ections, Requirement				
	absorption and deficiency diseases					
		ethods - Different M				
	Advantages and Disadvantages. Preservation of Nutrients					
III	1 11 1 1			12		
					12	
	Traditional r	nethods of enhancing ination, Fermentation	g nutritional	value of		
	100d3°GCIIII	manon, i officiliation	i, rood synt	argy etc.		
IV					08	





Suggested Readings:

- Sumati R Mudami, "Fundamentals of food Nutrition and Diet Therapy", New Age International Pvt. Ltd, New Delhi, 6thEd. (2018)
- B Srilakshmi," Nutrition science", New Age International Publication
- M.Swaminathan," Food & Nutrition", The Bangalore Press.
- Punita Sethi and Poonam Lakda, "Aahar Vigyan, Suraksha evam Poshan"; Elite Publishing House, New Delhi;2015
- Dr. Anita Singh, Aahar Evam Poshan Vigyan, Star Publications, Agra
- Chauhan Anamika, bhajye Evam Poshan Vigyan, pragatiprakashan
- Dr. Devina Sahai, Aahar Vigyan, New Age International Publishers, New Delhi

Suggestive digital platform sweblinks-ePG-Pathshala, IGNOU &UPRTOU online study material Svayam Portalhttp://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+2with 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

B.A. I Semester I Home Science Cooking skills and healthy recipe development

D	/01					
Programm	ie/Class:	Year:1		Semester:1		
Certificate						
	Subject: Home Science (Practical)					
Course Code: HSO	C/UG002	C T'11 (7 1-11-1	11		
Practical		Course Title: C	Course Title: Cooking skills and healthy recipe development			
Course outcome	es:	/				
Students	will get famili	ar with different met	hods of coo	king		
Acquaint	students with	practical knowledge	of nutrient	rich foods		
	Credits:2			Core Compulsory	// Elective	
Max. Marks: 25+75				Min. Passing Marks:		
TotalNo.ofLabPeriods-30(60hours)						
Unit		Topic			No. of lab. periods	
	Basic Cooki			-		
I		of raw materials different food items			1.5	
		yles of cutting fruits and vegetables		15		
		oration/Dressing	ara regetaere			
		of nutrient rich dishes		:		
	- Protein ric				× 7.	
		rate rich dish				
II		Fat rich dish		15		
		itamins rich dish			13	
	- Minerals					
	- Fiber Rich	n Dish		,		

Suggested Readings:

- Sumati R Mudami, "Fundamentals of food Nutrition and Diet Therapy", New Age International Pvt. Ltd, New Delhi, 6th Ed. (2018)
- B Srilakshmi," Nutrition science", New Age International Publication
- Chauhan Anamika, bhajye Evam Poshan Vigyan, pragatiprakashan
- M.Swaminathan," Food & Nutrition", The Bangalore Press.
- Punita Sethi and Poonam Lakda, "Aahar Vigyan, Suraksha evamPoshan"; 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 class/12th/certificate/diploma.

Suggested equivalent online courses

oIGNOU and othe reentrally/state operated Universities/MOOC plat forms such as "SWAYAM" in India and abroad.,

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

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B.A.I Semester 2 Home Science Introduction to Clothing & Textiles

Programme/Class: Certificate	Year:1	Semester:2
Subject: Home Science		
Course Code: HSC/UGC003 (Major)	Course Title: Introduction to C	Clothing and Textiles (Theory)
Course out comes:		

- Learn about scope of textile and clothing
- Understanding why fabrics are different
- Learn how fabrics can be manufactured
- Understand basic clothing concepts

Credits:4	Core Compulsory/ Elective	
Max.Marks:25+75	Min. Passing Marks:	

Total No. of Lectures-60

Unit	Topic	No. of Lectures				
τ.	Introduction a) Introduction to Clothing and Textile					
I	(b) Its importance in day-to-day life (c) Scope (d) Classification of	15				
	textile fiber on the basis of their source (e) General properties of					
,	fibers-primary and secondary					
TT	Knowing Fibers- Manufacture, processing, properties and uses of					
II	(a) Cellulosic Fiber-cotton, Linen (b) Protein Fibers-Wool, Silk (c)	15				
	Synthetic/Manmade Fibers-Nylon, Polyester, Acrylic, Rayon					
	Yarn construction—mechanical and chemical spinning; Different					
III	stages of yarn construction; Types of yarn-simple, textured and	15				
	spun; simple- simple, ply, cord; novelty; ply, cable, double and					
	novelty; yarn numbering and yarn twist					
IV	Weaving technology: Definition, Characteristics of woven fabrics; Types	15				
	of weaves.	13				
<	Loom–Parts of loom; Classification and types of looms; Motions of the loom.					
4,	Non-woven fabrics—meaning, types, methods and uses.					
	Knitting technology: Definition, classification, material and equipment;					
	Methods of knitting— Weft knitting and warp knitting;					

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 choic equestions/short and long answer questions.
- Attendance

Suggested equivalent online courses:

IGNOU & Other centrally/state operated Universities/MOOC plat forms such as "SWAYAM" in India and Abroad



B.A. I - Semester 2 Home Science Clothing & Textiles

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Programme/Class: Certificate		Year:1	ar:1 Semester:2	
Subject: (1	-lome Science)			
Course Code: HSC/U	JG004 Practical	Course Title: Cloth	ing and Textiles (Practic	al)
Course outcomes:	lentify fibers and fabring why fabrics are di	ics fferent		
	Credits:2		Core Compulsory/ Ele	ective
Ma	x.Marks:25+75		Min. Passing Mark	ςs:
Total No. o	f lab. periods-30 (60h	iours)		
Unit	Topic			No. of lab. periods
I	Identification of fit tests- Visual burnir	pers and fabrics (a) and microscopic test- nat		15
Drafting and lifting plan of different weaves on graph paper and glaze paper. Visit to a cloth weaving unit and report writing. Hand knitting samples/article.			15	

- Cutting Tailoring and Dress Making: National open School, B-31-B Kailash Colony, New Delhi -
- 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-Pleasant ville, 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
Suggested Continuous Evaluation Methods:
 Preparation of samples of various types of weaves.
Evaluation of Prepared knitted samples.
Record file preparation, evaluation and Attendance.
Course prerequisites: To study this course, a student must have the subject ALL in class12 ^{th.}

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B.A. I Semester 2 Home Science

Human Development (Theory)

Programme/Cla	ss: Diploma	137	
0	ios. Diploma	Year: 1	Semester:2
Subject: Home			
Course Code: F	ISC/M/UG001s	Course Title:	
Minor		Human Development (Theory)
0			
 Identify the Learn abou	he completion of the course we need and importance of study biological and environmental t the characteristics, needs and	ing human growth and de	levelonment
Credits:4		Minor / Elective	
Max. Marks: 25		Min. Passing Marks:	
Total No. of Le	ctures-60	: /	_
Units	Topic		No. of Lectures
II	Development Domains, Stages and Principles of Growth Determinants of Dev Environment. Differences between Childhood - Developmental Tasks Physical and Motor D Social and emotional of	and need to study Human I contexts of development and Development. Telopment-Heredity and growth and Development during Childhood evelopment development	
III	Puberty & Adolescent age Meaning, characteristics, Property Physical and Motor Deve Social and emotional development Role of Family and Teach	roblems lopment elopment	15
IV.	Adulthood Age Developmental Tasks dur Physical and Motor Devel Social and emotional devel Changes and Adjustment	lopment elopment	15



Suggested Books:

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- Dr. Brinda Singh, Manav Sharirevam Kriya Vigyan Panchcheel Prakashan, Jaipur, 2015, 15th Ed.
- Chatterjee, C.C, "Human Physiology" Medical Allied Agency: Vol I, II.
- Text Book of Biology for 10+2 Students (NCERT)
- 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.

Suggested Continuous Evaluation Methods:

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

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B.A. 2 Semester 3 Home Science Housing

Programme/Class: Diploma	Year:2	Semester:3
Subject: Home Science		
Course Code: HSC/UG005	Course Titl	e: Housing (Theory)
(Major)		

Course outcomes:

- Grasp knowledge of Housing need & selection of site in real life situations.
- Comprehending Housing plans for residential purpose.
- Appreciate principles of design and the contributing factors to refine personal Aesthetic senses.

Credits:4		Core Compulsory/ Elective	
N	1ax.Marks:25+75	Min. Passii	ng Marks:
TotalNo.	ofLectures-60		
Unit	Topic		No. of Lectures
I	Needs and Importance of House, D House and Home, ways to acquire rented). Factors influencing selecti house and selection of site Characteristics of the plot - size, pr	15	
	houses.		
General principles of Housing- aspect, prospect, grouping, roominess, flexibility, lighting, ventilation and sanitation.			15
Ш	Planning different residential space Planning house for different incom Kitchen planning- its need, Type or	15	
IV	Building Material, storage Area, Special Houses, water supply in the house. House construction-principles Financing a house: Home loan eligibility, pre-payment. Home loan scheme in India.		

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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). *HousinginIndia*. 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, R Inehart &Winston, Inc.
- Goldstein.H&GoldsteinV.(1954).ArtinEverydayLifeMacmillanPublishers.

Suggestive digital platforms weblinkshttp://heecontent.upsdc.gov.in/Home.aspx

Suggested Continuous Evaluation Methods:

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

Suggested equivalent online courses:

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

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B.A. 2 Semester 3 Home Science Housing (Practical)

Programme. Diploma	/Class:	Year:2		Ser	mester:3	
Subject: Com Science)	nmunity and	Essential Science	(Home			
Course Code: 1 Practical	Course Code: HSC/UG006 Practical Course Title: Housing (Practical)					
Course outcom	ie					
• Unders	tand of materia	I for house construc	ction			
• Develo	p understanding	g for house plannin	g	-		
Credits: Core Compulso				ory/Elective		
Max.Marks:25+75 Min. Passin			g Marks:			
Total	No. of lab. Per	iods-30(60hours)			,	
Unit	To	opic			No. of lab. periods	
I	 Making House Plans for various income levels, home planning symbols Identification of building materials 		15			
		Land-scape planning			,	
, п	writing. • Underst financir	any two-construction site and report			15	

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SuggestedReadings:

- ☐ 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.(ISBNNo.81-7888-526-3)
- 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). Housingin 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, R lnehart &Winston, Inc.
- Goldstein.H&GoldsteinV.(1954).ArtinEverydayLifeMacmillanPublishers.

Suggestive digital plat forms 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

Suggested Continuous Evaluation Methods:

- Practical work.
- Attendance.

Suggested equivalent online courses:

IGNOU &Other centrally/state operated Universities/MOOC plat forms such as "SWAYAM" in India and Abroad



B.A. 2 Semester 4 Home Science Paper 1 Mother craft & Human Development (Theory)

Programme	e/Class: Diploma	Year:2		Semes	ster:4
Subject: Home	e Science				
Course (HSC/UG Major		Course Title: Mot	her craft &	Human Developme	ent (Theory)
Major Course outcomes: Explain the need and importance of studying human growth and develop span Identify the biological and environmental factors affecting human developmental tasks of Infancichildhood Age					opment
	Credits:			Core Compulsory	y/ Elective
	Max.Marks:25	5+75		Min. Passing	Marks:
TotalNo.ofLectures-60					
Unit	Topic		No. of Lectures		
I	Conception, Pregnancy and Childbirth, Stages of birth, Types of delivery (Natural, C-section, breech, home vs. assisted delivery) Physical and emotional changes during pregnancy. Problems of pregnancy period. Prenatal period: Prenatal development stages: genetic and				15
П	environment factors Importance of Human Development from a Life-span perspective. Issues in Human development. Stages of Human Development Determinants of development; biological and environmental; Principles of Growth and Development: Norms and Milestones factor affecting development, Areas of development			18	
III	Infancy: The neonate up to 4 weeks: physical, physiological,			15	



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IV	Early childhood years: Development miles stones of and antecedent influences in physical and motor, social, emotional, cognitive and language development, play activities.	12
Suggested P	aala	

Suggested Books:

- Dr. Brinda Singh, Manav Sharir evam Kriya Vigyan Panchcheel Prakashan, Jaipur, 2015, 15th Ed.
- Chatterjee, C.C, "Human Physiology" Medical Allied Agency: Vol I, II.
- Text Book of Biology for 10+2 Students (NCERT)
- Berk, L.E. Child Development New Delhi: Prentice Hall (2005) (5th ed.).
- Berk L.E. Child Development Allyn and Bacon 1992 (6th) Edition.
 - Chauhan & Mishra, Agrim poshan Evam Manav Vikash, Pragati prakashan
- Keenan, T., Evans, S., & Crowley, K. An introduction to child development, Sage (2016)
- Hurlock E. Child Development.

Suggested Continuous Evaluation Methods:

- Seminar/Presentation on any topic of the above syllabus
- Testwithmultiplechoicequestion/shortandlonganswerquestionsAttendance

Course prerequisites: The eligibility for this paper is 10+2with any subject



B.A. 2 Semester 4 Home Science Mother craft & Human Development (Practical)

Programme/Class: Year:2 Diploma		Sen	nester:4			
Subject: Home	ubject: Home Science					
Course Code: 1	Course Code: HSC/UG008 Course Title: Mother craft & Human Development (Practical)					
Practical						
Course outcor Explair span Identi	Course outcomes: • Explain the need and importance of studying human growth and development across life span					
Credits: Core Compulso						
Max.Marks:25+75 Min. Passing			g Marks:			
Total	No. of lab.	Periods 30				
Unit		Topic			No. of Lab. periods	
-	-Visi	t to Child Care Centers.	/anganwadi	İ		
I	- Les	sson plan for school child		15		
	- Ob	servations of child reari	ng practice	s in families		
	from different social classes					
***		se study of Infancy – se	ensory and	creative	15	
П		luation			13	
	1	Observe of five pregnan		th physical and		
		otional changes, report	writing.		-	
Cugareted Dandings:						

Suggested Readings:

- 1. Schaim berg, L B (1988) Child and Adolescent Development. Macmillian Publishing Company, New
- 2. Papalia, D. E., Olds, S. W. (1978). Human Development. Mc. Graw-Hill, New York.
- 3. Gorden, K. J., (1975). Human Development. A Transactional perspective.
- 4. Sharma, Kamlesh, Manav Vikas, Star publication

Suggested Continuous Evaluation Methods:

- Assessment of Educational Plan and Visits Record.
- Practical work

B.A. II Semester 4 Home Science Human Physiology

Programme/Class: certificate	Year:2	Semester:4	
Subject: Home Science	e		
Course Code: HSC/M/UG002	Course Title: Human Physio	logy	
(Minor)			

Course outcomes:

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

- Learn the physical structure of human body
- Understand the human physiology and system.
- Gain knowledge about different body system

Credits:4		Core Compulsory/ Elective		
Max.M	farks:25+75	Min. Passing Marks:		
Tota	lNo.ofLectures-60			
U n i	Тор	ic	No of Lectures	
I	Introduction to Human body: Organ structure, cellular organelles and their functions. Introduction to blood and lymphatic Blood - Composition and functions. Composition and functions.	20		
I I	Endocrine system Overview of endocrine system Overview of endocrine structure of main endocrine glands and their and Pancreatic hormones	15		
I I	Cardiovascular system: Structure of he (Definition and factors affecting), blood pressure (Defin	10		
I V	Digestive system: Overview of the organization and functions. Structure and functions of: Stomac Pancreas	15		

Suggested Readings:

- Ganong WF (2014). Review of Medical Physiology, 24th ed. McGraw Hill.
 Auther, J. Vendors (2014) Human Physiology Mechanism of body function McGraw Hill Book Co.
- Chaudhari S K.(2000) Concise Medical Physiology.3rd.Edition. Central.
 Mahapatra,
 A.B.S.(2003):Essentials of Medical Physiology.3rd Edition. Current Books International.

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





B.A. 3 Semester 5 Home Science Fabric Finishing and Laundry

Programme/ Class: Degree	Year: 3	Semester: 5
Subject: Home Science		
Course Code: HSC/UG009 (Major-1)	Course Title: Fabric Finishin	g and Laundry (Theory)

Course Outcomes:

Credits: 4

- Learn about finishes done on fabric
- Knowing about dyeing fabrics
- Learn how printing on fabrics is carried
- Knowing the importance of appropriate laundry method

	Total No. of Lectrures-60		
Unit	To	No. of Lecture	
	pics	110. 01 Lecture	
I	Finishes(a) Classification of fabric finishes (b) Study of	15	
	purpose and process of finishes.		
	(i) General Purpose finishes- Bleaching, Mercerization,		
	Calandering, Sanforization, Tentering, Singeing,		
	Scouring (ii) Functional Finishes		
Ι	Dyeing (a) Classification of dyes- Natural v/s Synthetic,	15	
1	advantages and limitations (b) Theory of Dyeing		
	(c)Properties and use of Dyes-Basic, Acidic, Direct, Azoic,		
	Natural, Sulphur, Vat, Disperse and Reactive dyes (d) Resist		
	Dying Techniques- Tie- Die, Batik		
I	Printing (a)Direct Printing- Block, Screen, Stencil, Roller	15	
I	(b) Transfer Printing (c) Discharge printing, Resist		
I	Printing (d) Polychromatic, Inkjet and Digital printing		
	techniques (e) After treatment of dyed and printed goods.		
I	Laundry and dry cleaning of fabrics (a) Methods of Laundry	15	
V	- Wet and Dry cleaning, friction, suction, kneading and	10	
	squeezing (b) Dry cleaning process(c) Reagents of Laundry -		
	soaps and detergents (d)Laundry equipments.		
	(a) Laurier y equipments.		

Core Compulsory

Suggested Readings:

- Marsh JT: Textile Finishes
- Trotman Er: Dyeing and Chemical Technology of Fibres
- Joseph M: Introduction to Textiles
- Corbman P Bernard: Textiles- Fibre to Fabric
- Hollen& Saddler: Introduction to Textile
- J. Hall: The standard Hand book of Textiles, Wood Head Publication, 2004
- J. E. Smith: Textile Processing- Printing, Dyeing, Abhishek Publishing, 2003
- Kate Broughton: Textile Dyeing, RockportPublishers, 1996
- W. S. Murphy: Textile Finishing, Abhishek Publication, 2000
- Naik. D. Shailaja, Jacquie. A. Willson: Surface Designing of Textile Fabrics, New Age International Publishers, 2006
- Bharga, Bela. VastraVigyaan, Univ. Book House Pvt. AvamDhulai Kala, University Book House Pvt Ltd. Jaipur
- Patni, Majnu, VastraVigyaanAvamParidhankaParichay, Star Publications, Agra. Suggestive digital platforms weblinks-

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

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

Suggested Continuous Evaluation Methods

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

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Post

B.A. 3 Semester 5 Home Science Fabric Finishing and Laundry (Practical)

Semester:5 Programme/Class: Year:3 Degree **Subject: Home Science** Course Title: Fabric Finishing and Laundry Course Code: HSC/UG010 Practical (Practical) Course outcomes: 1- Performing printing on fabrics 2- Performing dying on fabrics. 3- Performing different appropriate laundry methods. Credits:2 Core Compulsory Max Marks:25+75 Min. Passing Marks: Total No. of lab. Periods-30 Unit No. of lab. periods Topic I Stain removal & demonstration of dry 15 cleaning, Identification of labels. visit to a commercial dry-cleaning unit/Textile II Dying Techniques- Tie- Die, Batik, Printing 15 Techniques-Block, Screen, Stencil, Roller, Spray. Preparation of different

Suggested Readings:

- Marsh JT: Textile Finishes
- Trotman Er: Dyeing and Chemical Technology of Fibres
- Joseph M: Introduction to Textiles
- Corbman P Bernard: Textiles- Fibre to Fabric
- Hollen& Saddler: Introduction to Textile

Printing sample

- 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, RockportPublishers, 1996
- W. S. Murphy: Textile Finishing, Abhishek Publication, 2000
- Naik. D. Shailaja, Traditional Embroideries of India, New Age International Publishers, 1996
- Naik. D. Shailaja, Jacquie. A. Willson: Surface Designing of Textile Fabrics, New Age International Publishers, 2006
- Bharga, Bela. VastraVigyaan, Univ. Book House Pvt. AvamDhulai Kala, University Book House Pvt Ltd. Jaipur
- Patni, Majnu, Vastra Vigyaan Avam Paridhan kaParichay, Star Publications, Agra. Suggestive digital platforms weblinks-Swayam Portal, https://heecontent.upsdc.gov.in/Homeaspx

Suggested Continuous Evaluation Methods:

- Test with multiple choice questions/ short and long answer questions
- Practical work

Suggested equivalent online courses:

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

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

B.A. 3 Semester 5 Home Science

Resource Management Programme/Class: Degree Year3 Semester:5 Subject: Home Science Course Code: HSC/UG011 Course Title: Resource Management Course outcomes: The student at the completion of the course will be able to: Learn the family resource management as a whole Understand the Decision making and use of resources throughout the Family life cycle. Gain knowledge about Time, Money & Energy as a Resource. Appreciate Household Equipment for work simplification Credits:4 Core Compulsory/ Elective Max.Marks:25+75 Min. Passing Marks: TotalNo.ofLectures-60 Unit Topic No of Lectures Introduction to Resource Management: Basic Concepts, Purpose and Obstacles of Management. Process of Management – 20 Planning, Organization, Controlling and Evaluation. Motivating Factors in Management –Values, Goals and Standards- Definition and Classification. \mathbf{II} Resources, Decision making & Family life cycle: 15 Meaning, Characteristics, Types and Factors affecting the use of Resources. Steps and Role of decision making in management. Stages of family life cycle. Ш Time, Energy and Money Management: Time as a Resource, Step in making Time Plan, Tools and Aids in Time 10 Management. Energy as a Resource, Work Curve, Fatigue-Types, Causative 15 IV Factors and alleviating techniques, Family income as a Resource, Source of Income and Expenditure and Saving. Preparation of family budget in view of family income **Suggested Readings:** Deacon R.E. and Firebaugh F.M. (1998) Family Resource Management- Principles and application. N. Delhi: Roy Houghton Mifflin Company. Faulkner, R. & Faulkner, S. (1961). Management for Modern Families. N. Delhi:

Sterling Publisher Ltd.

Syayam 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.

B.A. 3 Semester 6 Home Science Dietetics and Therapeutic Nutrition

Programme/Class		Year: 3	Semester: 6	ester: 6	
Degree					
Subject: Home S	cience				
Centre Code: HS((Major-1)	C/UG012	Course Title: Dictetics and Therap	oeutic Nutrition (Theory)		
Course outcomes:					
1- Knowledge of					
2- Develop and u	inderstand i	modification of the normal diet for the	erapeutic purposes 3-Practical		
	dietary mai	nagement in some common disorders.			
Credits:4			Core Compulsory		
Max.Marks: 25+7			Min. Passing Marks:		
Total Lectures- 60)				
Unit	Topics		No. of Lectures		
I	Introducti				
		nition of Health Dietetics and Therape	eutic		
	Nutri				
		rtance of Diet Therapy	08		
		about fast foods/ Junks foods			
		ctives of therapeutic Diet			
TT		ciples of diet therapy			
П		feeding methods			
		ation of normal diets for therapeutic			
-	purposes	of modifications	12		
	1 -	n the basis of nutrients	12		
	1	n basis of consistency			
	1	t feeding methods			
		ral feeding			
	1	ube feeding			
Ш	Diet durin		20		
	1	troduction to fever –Acute Fever, Chi			
		ver			
	(b) In	nportant changes in nutrition during fe	ever.		
	(c) M	lodification of the diet.			
	= ,,				
IV		lanagement	20		
	(a) O	verweight and Obesity, cause and			
		odification of diet.			
	(b) L	Inderweight –Causes, diet modification	on,		

Suggested Books:	
Sumati R Mudambi- "Fundamentals of food, Nutrition and Diet Therapy", New Age Internation	n
Pvt. Ltd, New Delhi, 6th Edition (2018).	
B Srilakshmi- "Dietetics", New Age International Publishers, New Delhi 2017.	
Bamji MS, Krishnaswamy K and Brahman GNV (Eds) (2009), Text book of Human Nutrition	,
Edition, Oxford & IBH Publishing Co. Pvt. Ltd New Delhi.	
Dr. Brinda Singh-Aahar Vigyan evamPoshan, PanchsheelPrakashan, Jaipur, 2015; 13th Ed.	
Dr. Devinasahani, Samanya Evam UpcharatmakPoshan, 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 Dielectric", Elite Publishing House Pvt. Ltd, Ne	W
Delhi, 7th Ed. 2013.	
☐ M Swaminathan-Essentials of food nutrition, Vol II, Applied Aspects, The Bangalore Printing	,
Publishing Co. Ltd, Bangalore, 2nd Edition 1985, Reprint 1997.	
Suggested equivalent online courses:	
IGNOU and other centrally/state operated Universities/ MOOC platforms such as "SWAYAM" in In-	dia
and abroad.	
http://heecotent.upsdc.gov.in/ Home.aspx	
Further Suggestions:	
• Students can opt. dietitian, nutrition advisor/ Nutritionist as a career in private and government	ıt
sector as well as extend knowledge by joining advance course in same	
discipline.	

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

Programme/Class:		Year:3		Semester:6			
Degree							
Subject: Home Science							
Course Code: HS	C/UG013	herapeutic I	nerapeutic Diet Preparation and				
Practical		Nutrient Evaluation (Practical)					
Course outcomes	: 1-Gain Knowledg	ge of principles of	of diet therap	ру			
2-Develop and ur	2-Develop and understand modification of the normal diet for therapeutic purposes 3-Practical						
knowledge of die	knowledge of dietary management in some common disorders.						
Credits:2 Core Compulsory							
Max Marks:25+7			Min. Passing	g Marks:			
Total No. of lab.							
Unit	Topic			No. of lab. periods			
I	Modification of n			15			
	purposes, prepara	_	ation				
	Dietary Modificat						
	management- Pre		trient				
	Calculation of die						
	-Overweight & ol -Underweight	besity					
II			NI4	15			
11	Therapeutic Diet Calculation of	Nutrient	15				
	-Diet in fever						
*	-Diet in diarrhea						
Suggested Readin	•	1 66 1	N T 4 *4*				
	rnational Pvt. Ltd,			nd Diet Therapy", New			
 B. Srilaksmi, "Dietetics", New Age International Publishers, New Delhi 2017 Chauhan A.& Jan Muzamil, Food for Heal, ABS publication 							
* 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. Sheel Sharma, "Nutrition and Diet Therapy" PEEPEE Publishers and 							
Distributers (P) ltd. Delhi, 2014, IstEd.							
Suggested Continuous Evaluation Methods:							
Test with multiple choice questions/ short and long answer questions							
Suggested equivalent online courses:							
IGNOU and other central/state operated Universities/MOOC platforms such as "SWAYAM" in							
India and abroad Svayam Portal.							

B.A. 3 Semester 6 Home Science

Family Welfare and Community Education (Theory)

Programme/Class:		Year:3		Semester:6		
Degree						
Subject: Home Science						
Course Code: HS	C/UG014	Course Title:	Family Welfa	re and Community Education		
(Major-2)		(Theory)	•			
Course outcomes	•					
	e students to under	stand commun	ity education	courses		
	vill get familiar wit		•			
	_		•	ommunity education		
Credits: 4			Core Compulsory			
Max Marks:25+7	5		Min. Passin			
Total No. of Perio	ods-60					
Unit	Topic			No. of lab. periods		
I	Family Welfare:	meaning, Need, Objectives		15		
	of family welfare.					
	Rights and Nation	nal Policy for Children and		,		
	Women					
	Nari Niketan, Bal	sudhar Garh,				
II	Family and child		_	15		
	national and inter	,				
		W.H.O. UNICEF, CARE,				
		services and community				
	ICDS, DWCRA,					
III Family relationship, Child Parent				10		
	relationship, respo					
relationship of home, school and community.						
IV The role of teacher and other specialists			cialists in	20		
	nunity educatio	n				
programmes. Teacher as motivator,			or,			
	community work,	guidance of yo	outh, Youth			
	ethical considerat	ion in dealing v	with parents			
	and community.					
Suggested Reading	ngs:					

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

Suggested Continuous Evaluation Methods:

Test with multiple choice questions/ short and long answer questions

O

Suggested equivalent online courses:

IGNOU and other central/state operated Universities/MOOC platforms such as "SWAYAM" in India and abroad Svayam Portal. http://heecontent.upsdc.gov.in/Home.aspx

VOCATIONAL PAPER

FOOD AND NUTRITION SKILLS

Year	Semester	Course Code	Name of Course	Credit
1	I	HSC/V/UG001	Food and Bakery Science	03
	II	HSC/V/UG002	Value added products from fruits and vegetables	03
2 .	III	HSC/V/UG003	Food Standard and Quality Control	03
	IV	HSC/V/UG004	Hands on Training on Bakery / Food Preservation and Processing Centres	03

BAl Semester

Food and Bakery Science

Unit -1

Introduction to bakery -

Ingredients used in bakery products. Introduction of bakery machineries, scope of bakery processing.

Unit -2

Bakery and confectionary raw material-

- a. Cereals-Structure of cereal grain, type of flour.
- b. Sugar
- c. Fats
- d. Milk and milk product
- e. Salt, spices and flavouring
- f. Yeast
- g. Egg, structure of egg, uses of egg in bakery
- h. Flavours and colours.

i.

Unit -3

Breads- a. Principles of bread making

- b. Simple yeast bread
- c. Role of each ingredient in bread making
- d. baking temperature and its importance.

Unit-4

Cake making methods-

Creaming method, whisking method, flour batter method, sugar batter method, all in one method and characteristics of good cake.

Phan

BA II Semester

Value added products from fruits and vegetables

Unit-I

Principles and methods of preservation: Processing & Preservation by application of heat (blanching, pasteurization and sterilization).

Unit-2

Chemicals preservatives, drying, addition of sugar. Refrigeration and freezing. Food spoilage - causes.

Unit-3

Minimal processing of fruits and vegetables: Methods, packaging and storage of minimally processed products. Fruit juices: extraction, clarification, preservation and packaging.

Unit-4

Types of fruit juice and beverages, their classification, viz juices, nectars, squashes, crushes, cordials, syrups. Methods of preparation, flow charts, packaging, storage, and spoilage of pickles and spoilage and packaging.

BA III Semester

Food Standard and Quality Control

Unit 1

Meaning of quality, quality factors in food: Appearance, textural factors, flavour factors and other factors. Quality standards, assurance and factors affecting quality.

Unit 2

Methods and techniques for assessment of food quality: Sensory evaluation and Objective evaluation.

Unit 3

Quality control: Basic fundamentals for quality control.

Unit 4

Food standards, food laws and regulation: Prevention of Food adulteration act, Misbranding, Bureau of Indian Standards, Ag Mark standard, Inspection Act, ISO, FSSAI.

BAIV Semester

Hands on Training on Bakery / Food Preservation and Processing Centres

- Minimum fifteen days training at any Bakery/ Food preservation centres or companies (Or)\
- Fifteen days Lab Practical
- Maintain File
- Satisfaction certificate by Training Centres or Subject teacher

A four