National Education Policy-2020
Common Minimum Syllabus for Uttarakhand State Universities and Colleges
First, Second and third year Syllabus for Bachelor of Science (Home Science)
DEPARTMENT OF HOME SCIENCE SURAJMAL AGARWAL PRIVATE KANYA MAHAVIDYALAYA Kichha, Udham Singh Nagar Uttarakhand (Affiliated to Kamaun University, Nainital, Uttarakhand)

EXPERT COMMITTEE

S.NO.	NAME	DESIGNATION	DEPARTMENT	AFFILIATION
1.	Prof. Lata Pandey	Convenor and Head	Department of Home Science D.S.B Campus	Kumaun University, Nainital
2.	Dr. Chhavi Arya	Expert, Associate Professor	Department of Home Science, D.S.B Campus	Kumaun University, Nainital
3.	Dr. Meena Batham	Expert, Associate Professor	Department of Fabric and Apparel Science, Institute of Home Economics, Delh	Delhi University
4.	Dr. Mukta Singh	Expert, Head	Department of Home Science, M.M.V.	B.H.U., Uttar Pradesh
5.	Dr. Manisha Ghalot	Expert, Head	Deptt. of Apparel & Textile Science	GBPUA&T, Pantnagar
6	Dr. Rekha Naithani	Expert, Head	Department of Home Science	BGR Campus, Pauri, C.U. Garhwal
7.	Dr. Sunita Rani	Expert, Head	Department of Home Science	Kumaun University, Nainital
8.	Mr. Satish Kandpal	Registrar	Gyanarthi College, Kashipur	Kumaun University, Nainital

SYLLABUS PREPARATION COMMITTEE

S. NO.	NAME	DESIGNATION	DEPARTMENT	AFFILIATION
1.	Dr. Sunita Rani	Head	Department of Home Science, SAPKM, Kichha	Kumaun University, Nainital
2.	Dr. Janki Joshi	Assistant Professor	Department of Home Science, SAPKM, Kichha	Kumaun University, Nainital
3.	Dr. Neha Tiwari	Assistant Professor	Department of Home Science, SAPKM, Kichha	Kumaun University, Nainital
4.	Dr. Himani Verma	Assistant Professor	Department of Home Science, SAPKM, Kichha	Kumaun University, Nainital
5.	Dr. Jyoti Pant	Assistant Professor	Department of Home Science, SAPKM, Kichha	Kumaun University, Nainital
6.	Mrs.Ankita Punetha	Teaching Assistant	Department of Home Science, SAPKM, Kichha	Kumaun University, Nainital
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Contents

List of papers (DSC, DSE, GE,) with semester wise titles for "Home Science" Programme specific outcomes (PSOs) (Undergraduate Programme) Programme specific outcomes (PSOs) (Honours Degree)

Semester- I

Course Title-Principles of Nutrition

Course Title- Introduction to Clothing Construction

Course Title- Practical based on DSC-2

Course Title- General English & Technical Writing

Semester-II

Course Title- Fundamental of Human Development

Course Title-Household Dynamics and Management of Resources

Course Title- Communication and Instructional Technology

Course Title- Computer Application

Semester -III

Course Title-Food Processing and Storage

Course Title- Indian Embroidery and Traditional Textile

Course Title- Practical based on DSC-7 and DSC-8

Course Title- Ergonomic Design

Course Title- Life Span Development

Semester -IV

Course Title-Introductory Textile Science

Course Title- Fundamentals of Baking

Course Title-Practical based on DSC-10 and DSC-11

Course Title- Community Nutrition

Course Title- Family Financial Management & Consumer Economics

Semester V

Course Title- Therapeutic Nutrition and Diet Counseling

Course Title- Fabric Formation and Finishes

Course Title-Practical based on DSC-13 and DSC-14

Course Title- Entrepreneurship Development

Course Title- Population and Family Life Education

Semester VI

Course Title- Food Science

Course Title-Fundamentals of Housing and Interior Decoration

Course Title- Practical on DSC-17

Course Title- Textile Designing & use of CAD

Course Title-Programme Planning, Implementation and Evaluation

L	ist of Papers	(DSC, DSE	C, GE, VAC, SEC) with Semester 'Home Science'	r Wise Titles f	or
Year	Semester	Course	Paper Title	Theory/ Practical	Credits
	Ţ	J ndergrad u	ate Certificate in Home Science	!	
		DSC-1	Principles of Nutrition	Theory	4
		DSC-2	Introduction to Clothing Construction	Theory	4
		DSC-3	Practical on Introduction to Clothing Construction	Practical	4
		GE-1	General English & Technical Writing	Theory	4
FIRST YEAR		AEC-1	Indian language (as decided by university)	-	2
	Ī	SEC-1	Personality Development	Theory	2
		VAC-1	Value Addition of Apparels	Practical	2
	II	DSC-4	Fundamental of Human Development	Theory	4
		DSC-5	Household Dynamics and Management of Resources	Theory + Practical	3+1
		DSC-6	Communication and Instructional Technology	Practical	4
		GE-2	Computer Application	Theory + Practical	2+2
		AEC-2	Indian language (as decided by university)	Theory	2
		SEC-2	Fashion Apparel Designing	Theory +Practical	1+1
		VAC-2	Value Added product from fruits and Vegetables	Practical	2
			uate Diploma In Home Science		
		DSC-7	Food Processing and Storage	Theory	4
		DSC-8	Indian embroidery and Traditional Textiles	Theory	4
	III	DSC-9	Practical based on DSC-7 and DSC-8	Practical	4
SECOND		DSE-1 or	Ergonomic design or	Theory+ Practical	2+2 or
YEAR		GE-3	Life Span Development	or Theory	4
		AEC-3	Indian language (as decided by university)	-	2

	1	IADO	Tratage of the / A 1 ·	Dec -4!1	
		IAPC	Internship/Apprenticeshi	Practical	2
			p/Project/Community		
		or	Outreach		
		SEC-3	or	Theory	
			Guidance and Counseling		
		VAC-3	Ayurveda	Theory +	1+1
			and	Practical	
			Nutrition		
		DSC-10	Introductory Textile	Theory	4
			Science		
			Fundamentals of		
	IV	DSC-11	Baking	Theory	4
	·	Doc 11	Duning	lincory	
		DSC-12	Practical based on	Practical	4
			DSC-10 and DSC- 11	Tractical	ľ
			DSC-10 and DSC-11		
		DSE-2	Community Nutrition	Theory +	2+2
		D0L-2	Community Nutrition	Practical	or
		or	or		4
		or GE-4	or Family Financial	or	7
		OL-4	Management & Consumer	Theory	
				Theory	
		AEC	Economic		2
		AEC	Indian language (as		2
		IAPC	decided by university)		
			Internship/Apprenticeship		
		Or	/ Project/Community		
		GEG 4	outreach Or	D (1.1	2
		SEC-4	Public Speaking	Practical	2
		VAC-4	Fashion Illustration	Practical	2
	1		or in Home Science (Honours)		
		DSC-13	Therapeutic	Theory	4
		DDC-13	Nutrition and Diet	1 Heory	7
			Counseling		
		DSC-14	Fabric Formation and	Theory	4
		DSC-14	Finishes	Theory	4
	V	DCC 15		Practical	<i>A</i>
	V	DSC-15	Practical based on DSC-13	Practical	4
THE		DOE 6	and DSC-14	TI D	0.4
THIRD		DSE-3	Entrepreneurship	Theory+Pract	3+1
YEAR		~	Development	ical	
		GE-5	Population and Family	Theory	4
			Life Education		
		IAPC	Internship/Apprenticeship/	Theory	2
		_	Project/Community		
		Or	outreach Or		
		SEC-5	Sustainable Development		
	VI	DSC-16	Food Science	Theory	4
		DSC-17	Fundamentals of	Theory	4
		20011	Housing and Interior		•
			Decoration		
			Decoration		

DSC-18	Practical on DSC-17	Practical	4
DSE-4	Textile Designing &	Theory+	2+2
	Use of CAD	Practical	
GE-6	Programme Planning, Implementation and	Theory	4
	Evaluation		

Department of Home Science Semester-I

Undergraduate Certificate in Home Science DISCIPLINE SPECIFIC COURSE (DSC-1) - Principles of Nutrition

No. of Hours-60 CREDITDISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits		distribution		Eligibility Eligibility	Pre-
		course			Criteria	requisite of the
		Lecture	Tutorial	Practical/		course
				Practice		(if any)
DSC-1 Principles of Nutrition	4	4	0	0	Passed class XII with Science, Arts and	Nil
					Commerce	

Programme/Class: Certificate in Home Science		Year: First		Semester: 1st Paper- DSC-1	
Subject : H	Iome science				
Cour	rse- DSC-1	Course Title: Principl	es of Nutrition		
• To unde	rstand the principle	lying this course, the studes and basic knowledge a sential nutrients (macro		rition.	
	Credits	s: 4	Discipline Spe	ecific Course	
Max. Mar	ks: As per Univ. ru	les	Min. Passing Marks:	As per Univ. rules	
Unit		Topics		No. of Hours	
Unit I	and mental.	food, nutrition, functions Meal planning, balanced	•	10	
Unit II	 Composition an Cereals and 1 fats and oilse Fruits and ve Milk and mil 	eeds, egetables,	ing foods:	10	

	Macronutrients:	20
	• Carbohydrates – Classification, sources, functions and	
Unit III	requirements	
	• Protein and amino acids – Classification, sources, functions and requirements, nitrogen balance, deficiency of protein.	
	Fat and lipids- Classification, sources, functions and	
	requirements	
	Water and electrolytes:	10
Unit IV	Functions, requirements and sources	
	Water balance	
	Electrolytes:	
	• Sodium Chloride, Potassium – sources, RDA, functions	
Unit V	Energy:	10
	Factor affecting energy requirements.	
	BMR, DIT(diet induced thermogenesis)	
_		

- 1. Bamji, M.S Rao, NP and Reddy, V. 1996. Text book of Human Nutrition.
- 2. B. Srilakshmi, Food science, New Age Publishers, 2002.
- 3. B. Srilakshmi, Nutrition Science, 8th Edition New Age Publishers, 2023

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature- study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus □ Test with multiple choice questions/ short and long answer questions □ Attendance

Semester-I Undergraduate Certificate in Home Science DISCIPLINE SPECIFIC COURSE (DSC-2) - Introduction to Clothing Construction

No. of Hours-60 CREDITDISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title					UISITES OF THE Eligibility	Pre-
Course Tiue	Credits Credit distribution of the Eligibilit course Criteria					requisit
			Course		Ciliciia	P
						of the
		Lecture	Tutorial	Practical/	=	course
		Lecture	Tutoriai	Practice		(if any)
DCC 4		4	0		D 1 .1 VII	, ,
DSC-2 Introduction to	4	4	0	0	Passed class XII	Nil
Clothing	'				with Science,	
Construction					Arts and	
					Commerce	
Programme/C		cate in	Y	ear: First	Semeste	er: I
Hom	e Science					
Course	: DSC-2		Cour	se Title: Introd	duction to Clothing	
				truction		
Course outcor	nes:					
		out sewing	machine, par	rts of sewing m	achine, analyze	
_	ructional proc	_			- , - j	
	-		truction for c	hildren's garm	ents	
	redits: 4	<u> </u>			pecific Course	
					•	
Max. Marks:	As per Univ.	rules		Min. Passing	marks: As per Univ.	rules
Unit			To	pics	1	No. of
				-	I	Lectures
I	Sewing ma	chine and i	ts equipmen	t/tools		9
•	_			ine, their use ar	nd care	
	_			ting, cutting an		
II			on Terminolo		d streining,	8
		*		gy		
III	Construction	_	ses:			15
	Hand st Seem or	· · · · · · · · · · · · · · · · · · ·	la h aa			
		nd seam fini				
		l of fullness				
		s and edge f		nd alathina auti	olos	
IV				nd clothing artind cutting; stay		6
1 V	_				sutumg	<u> </u>
V	Unit construction method and fitting					6
VI	Importar	nce and fund	ction of clothe	es		6
VII	Clothing requirements of infants, toddler, pre-school and 8					8
		ary school c		, T		
¥7777	VIII Anthropometric measurements: Importance and techniques					
VIII	Anthrop	ometric mea	asurements: I	mportance and	techniques	5

Suggested Readings:

- 1. Carson, B. 1969. How you look dress. 4th Ed. New yark. Webster Division., McGrw-Hill book company.
- Doongaji, S. and Deshpande, R. Basic process and clothing construction. 2nd Ed. New Delhi,New Raj book Depot.
- 3. Lewis, V. S. Comparative Clothing Construction Techniques. Surject Publication, Delhi
- 4. Mansfield, E. A. and Lucas, E.L. 1974. Clothing construction. 2nd ed. London, Houghton Mifflin Company.

Suggested Digital Platform:

http://ecoursesonline.iasri.res.in/course/index.php?categoryid=104

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus \square Test with multiple choice questions/ short and long answer questions \square Attendance

Semester-I

Undergraduate Certificate in Home Science DISCIPLINE SPECIFIC COURSE (DSC-3) - Practical based on DSC-2

No. of Hours-120

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Tit	tle Credits	Cred	Credit distribution of the course			ity Pre- ria Requisite o the course (if any)	
		Lecture	Tutorial	Practical/ Practice			
DSC-3	4	0	0	4	Passed	Nil	
Practical o					class X	П	
Introduction to Clothing					with		
Construction					science Arts an	' I	
					comme		
	UNDER	GRADUA	TE CERTII	FICATE IN HO	ME SCIE	NCE	
	e/Class: Certi	ficate	Yea	ar: First	Ser	nester: First	
in Home Science					Pa	per: DSC-3	
Subject: Ho	me Science						
Course: DS	Course: DSC-3 Course Title: Introduction to Clothing Construction						
Course out							
	ing this course			ble to: parts of sewing r	naahina ar	nolyzo	
	tional process		ng macinie,	parts of sewing i	nacinne, ai	latyze	
			onstruction	of children"s gar	ments.		
Credits: 4			Discipline	Specific Course)		
Max. Marl	ks: As per Un	iv. rules	Min. Passi	ng Marks: As po	er Univ. ru	ıles	
Unit	Topics					No. of Hours	
Unit I			wing equipm	ent and tools, sev	ving	20	
***	machine a		21 1 1			20	
Unit II	Preparation of samples of basic hand stitches, machine stitches, edge finishing,				ine	20	
	fullness, fi						
	fasteners,	mending ar	nd patching				
Unit III	Demonstra	tion on the	different	20			
	fabrics of		Llings				
Unit IV		l, check and	pometric me	easurement		20	
	muoductio		20				

Unit V	Drafting, cutting and stitching of different children's garments • Bib, • Panty, • Bloomer, • Jhabla, • Frock	20
Unit VI	Stitching of Apron,Hand bag or Laundry bag	20

Suggested Readings:

- 1. Carson, B. 1969. How you look dress. 4th Ed. New yark . Webster Division., McGrw-Hill book company.
- 2. Doongaji, S. and Deshpande, R. Basic process and clothing construction. 2nd Ed. New Delhi,New Raj book Depot.

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus ☐ Test with multiple choice questions/ short and long answer questions☐ Attendance

Semester-I Undergraduate Certificate in Home Science GENERIC ELECTIVE (GE-1)- General English & Technical Writing

No. of Hours-60 CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits					Eligibility Criteria	Pre-requisite of the course (if any)	
		Lectu	ure	Tutorial	Practical/ Practice			
GE-1 General English & Technical Writing	4	4		0	0	Passed class XII with Science, Arts and Commerce	Nil	
			DUA			HOME SCIENC		
Certifi	amme/Class icate in Hom Science			Year:	First	Semester: First Paper: GE-1		
	ome science	9						
	urse: GE-1					nglish & Techni	cal Writing	
					, the students v			
_	ove ability is	n Engli	ish to	o form com	orehends writing	ng and speaking i	n modern	
English.	redits: 4		I		Comon	ric Elective		
	reaus: 4 ks: As per	[]niv	M	ni Dogging	Marks: As pe			
Max. Mar	Rules	UIIIV.	1011	m. Passing	wiarks: As pe	r Ulliv. Rules		
Unit				Тор	ics		No. of Hours	
Unit I	Word – Fo		n				5	
Unit II	Preposition					5		
Unit III	Idiomatic l						5	
Unit IV Conditional Sentences and Modal verbs					5			
Unit V	Synthesis and Transformation					5		
Unit VI	Writing related concepts-writing process, aspects and basic principles of good writing					5		
Unit VII	Communication through writing- reasons and needs, word function, formulas of language, sentence and paragraph sense					10		
Unit VIII					tyles of writing		10	

Unit IX	Types of reports-recommendations, proposals, progress report,	10
	oral reports, business letters and professional	
Recomme	nded Readings:	
• LN, W.	Standard. Living English structure, Orient Longmans, London.	
Suggested	l equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.	in, literature-
study-onl	ine.com, epg-pathshala, egyankosh.ac.in	
00	l Continuous Evaluation Methods: Seminar/ Presentation on an	• 1
above syll	abus ☐ Test with multiple choice questions/ short and long answer of	questions \square
Attendanc	e	

Semester-II Undergraduate Certificate in Home Science

DISCIPLINE SPECIFIC COURSE (DSC-4)- Fundamentals of Human Development

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Ti	tle Credit	S Credit	Credit distribution of the course		Eligibility Criteria	Pre-requisite of the course (if any)	
		Lecture	Tutorial	Practical/ Practice		(== 33=5)	
DSC-4 Fundamen of Human Developme		4	0	0	Passed class XII with Science,Arts and Commerce	Nil	
	UNDER	GRADUATI	E CERTIFI	CATE IN H	OME SCIENCE		
Certifi	amme/Class: icatein Home Science		Year: Fi	rst	Semester: Paper:		
Subject: H Course: D	ome Science	Co	urso Titlo.	Fundamani	tals of Human De	volonment	
Course ouDefine hApply de	tcomes: Afte	r studying the oment and su theories to p	is course, th mmarize sev ersonal deve	e students w veral theories elopment. Disciplin		•	
Unit		-	Topic	S		No. of Hours	
Unit I	-		-	-	n perspective, development.	10	
Unit II a. Methods of studying human development, steps of studying behaviour scientifically b. Non experimental and experimental studies, naturalistic studies; clinical studies; cross-sectional and longitudinal designs					10		
Unit III	I Ethical considerations in studying human development subjects 10						
Unit IV		The psychology of behaviours: Definition of Psychology; meaning of sensation; perception; concept formation; imagination and creativity					

Unit VI	Major development theories:	15
	Freud's theory	
	Erikson's theory	
	Piaget"s theory	
	Kohlberg's theory	

- Laura, B.E. (2013). Exploring life span development. 3rded. McGraw Hill, New York. Papalia,
- D.E. and Olds, S. W. (2008). Human development. 11thed. McGraw Hill, New York.
- Bronfenbrenner, V. (1979). The ecology of human development. Cambridge, Harvard Univ. Press.
- Berk, L. E. (2007). Development through the lifespan. Delhi: Pearson Education •
- Rice. F. P. (1998). Human Development: A lifespan approach. New Jersey: Prentice Hall.
- Santrock, J. W. (2007). A topical approach to life-span development. New Delhi:
- McGraw-Hill. Singh, A. (Ed). 2015. Foundations of Human Development: A life span approach. New Delhi: Orient Black Swan.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus
☐ Test with multiple choice questions/ short and long answer questions ☐ Attendance

Semester-II

Undergraduate Certificate in Home Science DISCIPLINE SPECIFIC COURSE (DSC-5)- Household Dynamics and Management of Resources

No. of Hours-45+30

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit distribution of the course			Eligibility	y	Pre-requisite of	
					Criteria	ì	the course (if	
							any)	
		Lecture	Tutorial	Practical/				
				Practice				
DSC-5	4	3	0	1	Passed clas	SS	Nil	
Household					XII with			
Dynamics					Science,			
and					Arts and			
Management					Commerc	e		
of Resources								
	UNDER	GRADUA'	TE CERTI	FICATE IN H	OME SCIE	INC	E	
Programme/C	lass:			Year: Firs	Semester: Second			
Certificate in I	Home Scie	nce				Pa	per: DSC-5	
Subject: Hom	Subject: Home Science							
Course: DSC-:	Course: DSC-5				Course Title: Household Dynamics and			
				Managem	ent of Resor	urce	S	
Course Outco	mes:							

After studying this course, the students will be able to:

- To give insight about management principle and ability to apply the knowledge for problem solving.
- To become good managers and understand the importance of managing resources to achieve goals.

	Credits:4	Discipline Specific Course		
Max. Mai	rks: As per Univ. rule	Min. Passing Marks: As per Univ. rules		
Unit	Topics		No. of Hours	
Unit I	Family: Meaning, define and family life cycle.	5		
Unit II	Management concepts: home management, maj	10		
Unit III	Standard, Decision making: Decis	management: Values, Goals and sion making process, Role and scope of ssification of decision, methods of	10	
Unit IV		Meaning, importance, and steps of ystem approach to management: System seholds.	5	

Unit V	Energy management: Fatigues, and its types, work simplification and its techniques, Mundel classes of change, Inter linking time and energy resources.	10
	<u> </u>	
Unit VI	Time management: Time demands in different stages family	5
	life cycle, Time Plan and Tools of Time management	
	Practical	
I	Identification of individual and family values	5
II	Identification of immediate, short term and long term goals of individual and family, Standards for individual and family goals	5
III	Management of personal time record for daily, a week and semester. Presentation of personal time record.	10
IV	Application of management process to organize an event- planning, organization, evaluation	10

- Mann, M.K. (2004). Home Management for Indian Families, Kalyani Publisher Ludhiana
- Nickell, P. and Dorsey, J.M. (1970). Management of Family Living. Wiley Eastern, New Delhi
- Vargeese, M.N. Ogale, N.N. and Srinivasan, K. (1992). Home Management, Wiley Eastern, New Delhi.
- Krishna Oberoi (2006). Resource Management for Better Homes. R.K. Offset, Delhi.
- Bhargava, Bela. (2005). Family Resource Management and Interior Decoration. Apple Printer and V. R. Printers, Jaipur.
- Steidle, Roze and Bratton. (1968). Work in the Home. John Wiley and Sons Inc. New York
- Gandotra, G., Oberoi, K. and Sharma, P. (2008). Appropriate technology for rural women.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature- study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous	Evaluation Metho	ods: Seminar/ Pre	sentation on	any topic of the
above syllabus 🗆 Test v	with multiple choic	e questions/ short	and long an	swer questions
Attendance				

Semester-II Undergraduate Certificate in Home Science

DISCIPLINE SPECIFIC COURSE (DSC-6)- Communication and Instructional Technology

No. of Hours-120

20

20

20

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Cours	e Title	Credits	Cr	edit distributio	n of	Eligibility	Pre-
			the course			Criteria	requisiteof the course (if any)
			Lectu	re Tutorial	Practica Practic		
DSC-6 Commun and Instruct Technol	ional ogy	4 DERGRA	0 DUATE	0 CERTIFICAT	4 TE IN HO	Passed class XII with Science, Arts and Commerce OME SCIENCE	Nil
	nme/Class Home S Home Sci		te in	Year: Fi	rst	Semester: Paper: DS	
		: DSC-6		Course Titl		nunication and Ir	structional
Course	outcomes:	The studer	nt at the	completion of th	ne course	will be able to:	
	-	_		unication proces			
• To dev	velop unde	rstanding a	bout dif	ferent types of a	udio visu	ıal aids.	
	Cred	lits: 4]	Disciplin	e Specific Cours	e
Max. N	Iarks: As	per Univ.	rule	Min. Passing N	/Iarks: A	s per Univ. rules	}
Unit		Topics				No. of Hours	
				Practical			
		cation-mea cation proce	_	nction and barrio	ers. Elem	ents of	40

Audio-visual aids -meaning, classification, advantages and limitations

• Charts, Posters, Flash cards, Graphs, Models, leaflets and use of

Unit III Organizing and participating in various types of group discussions

Preparation and use of instructional media:

Unit II Demonstration as an instructional technology

Unit IV Preparation of radio talk scripts on various topics

Bulletin board

Unit V	Visit to communication centre, Familiarization of radio, T.V and	20
	video equipments and programme production.	

- Adivi Reddy.A, Extension Education, seventh edition, Sri lakshmi Press, Bapatla
- Agarwal J.C. 2007 Textbook on Essentials of Educational Technology Innovations in Teaching –Learning, second edition, Vikas Publishing House Pvt Ltd.
- Sumita Roy, Tej Verma and Pushpa Gupta 2006 textbook on family approach in extension programme management, first edition, Indian council of agricultural research Newdelhi.
- Dahama O.P. and Bhatnagar O.P, Education and Communication Development, second edition, oxford and IBH publishing pvt. Ltd,calcutta.
- Ray GL (1996) Extension Communication and Management, Naya Prakash Publications, Calcutta.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus ☐ Test with multiple choice questions/ short and long answer questions ☐ Attendance

Semester-II

Undergraduate Certificate in Home Science GENERIC ELECTIVE (GE-2)- Computer Application

No. of Hours-30+60

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit distribution of the course			Eligibility Criteria	Pre- requisite of the
		Lecture	Tutorial	Practical/ Practice		course (if any)
GE-2 Computer Application	4	2	0	2	Passed class XII with Science, Arts and Commerce	Nil
U	NDERGR.	ADUATE (CERTIFICA	TE IN HOM	E SCIENCE	
Programme/Class: Certificatein Home Science			Year: First		Semester: Sec Paper: G	
Subject: Home s	science			·		
Course:	GE-2		Course T	itle: Comput	er Application	

Course outcomes:

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

- To know about the basic knowledge about the computer.
- Students will be able to understand about the internet use and E-mail.

	Credits: 4	General Elective			
Max. Ma	rks: As per Univ. rule	Min. Passing Marks: As per Univ. rules			
Unit		No. of Hours			
Unit I	computers Components of a co Processing Units, Inp Computer Memory (p.	Components of a computer system- Block diagrams, Central Processing Units, Input/ Output Devices, Keyboard Shortcuts, Computer Memory (primary, auxiliary and cache memory) MS Windows – Desktop, Recycle bin, My Computer, Documents,			
Unit II	an Operating System, right Button of the M of Common Icons, Sta	sing GUI Based Operating System: What is The User Interface, Using Mouse, Using ouse and Moving Icons on the screen, Use atus Bar, Using Menu and Menu-selection, eations of File, and Folders, Creating and d folders,	5		

	Opening and closing of different Windows, Using help, Creating Short cuts.	
Unit III	MS-Word: Features of MS-Word - MS-Word Window Components- Creating, Editing, Formatting and Printing of Documents, Headers and Footers, Insert/Draw Tables, Page Borders and Shading, Inserting Symbols, Shapes, Word Art, Page Numbers, Mail Merge.	10
Unit IV	MS-Excel: Overview of Excel features – Creating a new worksheet, Selecting cells, Entering and editing Text, Numbers, Inserting Rows/Columns, Changing column widths and row heights, Formulae, Referencing cells, Changing font sizes and colors, Insertion of Charts, Auto fill, Sort.	5
Unit V	MS-PowerPoint: Features of PowerPoint – Creating a Presentation, Inserting and Deleting Slides in a Presentation, Adding Clip Art/Pictures, Inserting Other Objects (Audio, Video), Resizing and scaling of an Object, Slide Transition, Custom Animation	5
	Practical	
Unit I	Interaction with personal computer components: Processor, motherboard, storage devices, multimedia components and scanners	10
Unit II	Electronic documentation through MS word: Opening/creating file, saving file, document preparation, editing, formatting, page layout, spell and grammar check. Inserting: header/footer, table, text box, picture and object. Hyperlinking. Security: Password.	10
Unit III	Creating presentation through Power Point: slide layout, design, template and background. Inserting movies and sound. Inserting picture. Slide show: transition and animation.	10
Unit IV	MS Excel basics, work book and work sheet, cell formatting. Data entry in work sheet. Chart wizard: title, axes, gridlines, legends, date label. Analyzing data: Correlation, Standard deviation, F-test, t-test. Improving data	10
Unit V	Using Outlook Express for e-mail uses: mail message, import/export, send/receive, updating address book. Setup e-mail accounts, setup multiple profiles	10
Unit VI	Internet basics. Configuring TCP/IIP. Web addresses (URLs), using web browsers Netscape/Internet explorer for web surfing. Using search Engines for knowledge bases.	10
Dogommo	nded Deedings	

- Microsoft office user's guide.
- Introduction to computer science. ITL Group, Pearson Edition.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature- study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus• Test with multiple choice questions/ short and long answer questions• Attendance

Semester-III Undergraduate Diploma in Home Science DISCIPLINE SPECIFIC COURSE (DSC-7)- Food Processing and storage No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit distribution of the course			O	ibility iteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice			
DSC-7 Food Processing and storage	4	4	0	0	Passed XII w scienc Arts a comm	ith e, and	Nil
Programme/Class: Diploma in Home Science			Year: Second Sem			ester: Third	
Course Code: DSC-7			Course Title: Food Processing and Storage (Theory)				

Course outcomes:

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

- > Applythe principles and methods involved in the processing of different foods.
- > Know the basic knowledge about the damage caused by storage condition and control measures to overcome them.

Credits: 4 Max. Marks: As per Univ. rules		Discipline Specific Course Min. Passing marks: As per Univ. rules			
I	Food Processing:		Lectures 10		
П	 Different processing met Pounding, Milling, Puffing, Cooking, Parboiling, Fermentation, Sprouting Malting. 	thods of foods-	10		
III	Processing of milk produc characteristics.	ets and their effect on nutritional quality	5		

IV	Processing of oilseeds for extraction of oils and use of oilseed cakes in human nutrition.	5
V	 Food Preservation- Definition Objectives Principles of food preservation Methods of food preservation 	10
VI	 Storage of Foods Classification of food based on perishability Definition, importance and functions of food storage Food losses and damages during storage- storage losses and types of storage losses Types/ causes of damage Control measures during storage of grain- Traditional methods and Chemical methods 	10
VII	Visit to Food Processing Industry	10

Suggested Readings:

- 1. Sivasankar, B. (2014). Food processing and preservation: Hall of India Pvt., New Delhi.
- 2. Fellows, P. J. (2009). Food processing Technology: Principles and Practice: Woodhead Publishing.
- 3. Brennan, J. G. (2006). Food Processing Handbook: Weinheim: Wiley-VCH.
- 4. Zeuthen, P. &Bogh-Sprensen, L. (2003). Food Preservation Techniques: CRC Press, Boca raton.
- 5. Vonloesecka, H. W. (1998). Drying and Dehydration of Foods: Allied, Bikaner.
- 6. B. Srilakshmi, Food science, New Age Publishers, 2002
- 7. Meyer, Food Chemistry, New Age, 2004

Suggested Digital Platform:

https://onlinecourses.nptel.ac.in/noc22_ag03/preview

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus □ Test with multiple choice questions/ short and long answer questions □ Attendance

Semester-III Undergraduate Diploma in Home Science

DISCIPLINE SPECIFIC COURSE (DSC-8)- Indian Embroidery and Traditional Textile

No. of Hours-60 CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit di	stribution of th	Eligibility Criteria	Pre- requisite of the course (if any)	
		Lecture	Tutorial	Practical/ Practice		
DSC-8 Indian Embroidery and Traditional Textiles	4	4	0	0	Passed class XII with Science, Arts and Commerce	Nil
Programme/Class: Diploma in Home Science		Year: Second			Semester: Th	
Course Co	ode: DSC-8	Соц	ırse Title: India	n Embroidery Textile	y and Tradition	nal

Course outcomes:

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

- > To impart knowledge about traditional woven textiles and embroidery of India.
- > To introduce student with the creative art of embroidery.

	Credits: 4	Discipline Specific Course	
	Max. Marks: As per Univ.	Min. Passing marks: As per Univ. rule	s
Unit	rules	Topics	No. of hours
		- · F	
	Traditional woven textile	es of India:	10
	• Hand woven Sarees:	Dacca muslin and Jamdani saree, Baluchar	
I		rees, Patola and Ikat sarees, Kanchipuram sarees,	
	Chanderi	, , ,	
		ees, Vichitrapuri sarees and Brocades, Hand woven	
	1	machal Pradesh and North Eastern states.	
	Printed and Painted tex		10
II	 Printed Textiles: Block 	printed textiles, Tie and dyed textiles	
	Painted Textiles: Kalar	*	
III	Embroideries of states of	f India:	10
	 Kashida of Kashmir, 		
	 Chamba Rumal, 		
	 Phulkari and Bagh of I 	Punjab,	
	Embroideries of Gujara	at,	
	 Chikankari and Zari w 	ork of Uttar Pradesh,	
	 Kanthas of Bengal, 		

IV	 Manipuri Embroidery, Kasuti of Karnataka, Embroidery and Patchwork of Bihar Traditional costumes of India: Kashmir, Punjab, Uttar Pradesh, West Bengal, NE states, Rajasthan, Gujarat, Maharashtra, South Indian states 	10
V	Importance of traditional costumes and textiles and apparel industry, Impact of adaptation of traditional motifs and designs for modern textiles	5
VI	Factors affecting diversity of textiles and costumes of India: Geographical factors, socio-economic factors, customs and traditions and religious factors	5
VII	Visit to Traditional Embroidery Unit	10

Suggested Readings:

- 1. Crill, R. (1999). Indian Embroidery. London: Victoria and AlbertMuseum
- 2. Chattopadhyay, K. 1985. The Gloryof Indian Handicraft. New Delhi. Calrian book.
- 3. Flynnn, D. 1971. Costumes of India. New Delhi, Oxford and IBH Publishing Company.
- 4. Fabin, C. 1977. Indian Dress. New Delhi, Orient Longman L
- 5. Pandit, S.1976. Indian Embroidery: its variegated charms. Baroda.
- 6. Synge, L. (2005). Art of Embroidery: Historyof style and Technique. New York: ACC Art Book
- 7. Shailaja D. Naik. 1996. Traditional Embroideries of India. APH publishing.

Suggested Digital Platform:

https://textilevaluechain.in/in-depth-analysis/articles/traditional-textiles/traditional-indian-embroidery/ https://www.slideshare.net/hemaupadhayay/traditional-embroideries-of-india-76836145

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus □ Test with multiple choice questions/ short and long answer questions □ Attendance

Semester-III Undergraduate Diploma in Home Science DISCIPLINE SPECIFIC COURSE (DSC-9)- Practical based on DSC-7 and DSC-8

No. of Hours-120

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credi	Cre	edit distrib	ution of	Eligibili	ty	Pre-requisite of the		
	ts		the cours		Criter	ia	course (if any)		
		Lecture	Tutorial	Practical/ Practice					
DSC-9 Practical	4	0	0	4	Passed class		Passed class		Nil
based on DSC-					XII with				
7 and DSC-8					Science,				
					and Com				
	UN	DERGR	ADUATEI	DIPLOMA	INHOME	SCIENC	CE .		
Programn	ne/Class	s:	Y	ear: Second	1	Semester	:Third		
Diploma in Home Science			Paper: DSC-9			OSC-9			
Subject: Home	Subject: Home science								
Course: DSC-9			Course Title: Practical based on DSC-7 and DSC-8						

Course outcomes:

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

- Apply the principles and methods involved in the processing of different foods.
- ToimpartknowledgeabouttraditionalwoventextilesandembroideryofIndia
- To introduce student with the creative art of embroidery

Credits:4		Discipline Specific Course	
Max. Mark	s: As per Univ. rule	Min. Passing Marks: As per Univ. rules	
Unit		Topics	No. of hours
Unit I	Preparation of poppe	ed corn and sorghum.	12
Unit II	Dehydration and dry tubers and others.	ing of vegetables: green leafy vegetables,	8
Unit III	Preparation and bottling of tomato sauce.		8
Unit IV	Preparation and bott	ling of fruit jam, squash and jellies.	12
Unit V	Preparation of ferme	nted food-dhokla, idli.	12
Unit VI	Preparation of wheat	t malt.	8
Unit VII		of traditional Indian embroideries and	20
	Machine embroideri	es	
Unit VIII	Preparation of two ar	ticles using different hand embroideries	20
Unit IX	Documentation of In	dian textiles and costumes	20

Recommended Readings:

- Desroiser N. W. & Desroiser J. N. 1977. The Technology of Food Preservation. AVI Publication.
- PottyV. H. and Mulky M. J. 1993. Food Processing. Oxford & IBH Publishing House.
- Srilakshmi B. 2001. Food Science. New Age International.
- Crill, R.(1999). Indian Embroidery. London: Victoriaand Albert Museum
- Synge, L. (2005). Art of Embroidery: History of style and Technique. New York: ACC Art **Book**
- ShailajaD.Naik.1996. APH publishing. Traditional Embroideries of India.
- JohnGillow.1991.IndianTextiles.

Suggested equivalentonline courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature- study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus

Test with multiple choice questions/ short and long answer questions. Attendance

Semester-III Undergraduate Diploma in Home Science DISCIPLINESPECIFICELECTIVE (DSE-1)-Ergonomic Design

No. of Hours-30+60

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit distribution of the course			Eligibility Criteria	Pre-requisite of the course (if any)	
		Lecture	Tutorial	Practical/ Practice			
DSE-1	4	2	0	2	Passed class	Nil	
Ergonomic					XII with		
Design					Science,		
					Arts and		
					Commerce		
	UN	DERGRAI	DUATEDIPI	LOMAINHON	1E SCIENCE		
Programme/Class: Diploma in Home			e Year	Year: Second		er: Third	
Science					Pape	er: DSE-1	
Subject: Homo	e Science						
Course: DSE-	1		Course T	Course Title: Ergonomic Design			

Course outcomes: The Student at the completion of the course will be able to:

- To sensitize students to the importance of ergonomics in design.
- To develop aptitude in identifying the product/space design problems at place of work.
- To understand interface of human element and the user"s perspective in the evolution of product / space design.

• To develop skill in designing specific work-centres and products.

Credits:4	Discipline Specific Elective	
Max. Mar	ks: As per Univ. Rule Min. Passing Marks: As per Univ. rules	
Unit	Topics	No. of Hours
Unit I	Ergonomics – concept, significance, history and growth Applications of Ergonomics in design and work efficiency Anthropometric Measurements –History and its application in interior designing for different work areas and workers. The bio- mechanisms of work as related to the user, the work and the environment	10
Unit II	The User: Components of worker input – affective, cognitive, temporal and physical (physical, physiological, psycho-Physiological aspects of work.	10
Unit III	Work Environment Functional design and arrangement of work places. Indices of indoor comfort: ventilation, lighting, temperature, noise Work study Time and motion study Energy Studies	10
	Practical	
Unit I	Basic anthropometry– space norms/ standards	20
Unit II	Time and motion study.	20
Unit III	Designing products–furniture (multipurpose and modular, etc.).Space design–preparing floor and elevation plans- Kitchen, Workstation	20

- Bridger. R.S., "Introduction to Ergonomics." Mc. Graw HallInc, New York, 1995.
- Chiara J.D., Panero. J., Zelnik M., "Time Saver standards for Interior Design and Space Planning", McGraw Hill, Neuferts Architect"s Data, 1992.
- Lakhwinder Pal Singh, "Work Study and Ergonomics." Cambridge University Press, Noida, 2016.
- Mark.S.SandersandErnest.J.Mc.Cormick, "HumanFactorsinEngineeringand Design." Mc. GrawHallInc, New York, 1992.
- PheasantS, "Anthropometry, ergonomics and Design of work", Taylor and Francis, London, 2003. Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus
☐ Test with multiple choice questions/ short and long answer questions ☐ Attendance

Semester-III Undergraduate Diploma in Home Science Generic Elective (GE-3)- Life Span Development

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE Course Title | Credits | Credit distribution of the | Eligibility | Pre-

Course'	Title Credits	Credit distribution of the course		Eligibility Criteria	Pre- requisite of the course (if any)		
		Lecture	Tutorial	Practical/ Practice			
GE-3 Life Span Development		4	0	0	Passed class XII with science, Arts and commerce	Nil	
Duos		GRADUAT	E DIPLON Year: Seco		E SCIENCE Semester: Third		
	ramme/Class: in Home Science		rear: Seco	ona	Paper: GE-3		
	lome Science						
	ourse: GE-3				e Span Developm	ent	
	tcomes: The Stud		_				
	bout different stag		_	_	te.		
• Learn a	bout factors that at Credits: 4	rect differe	nt developr	General I	Floctivo		
May Mai	rks: As per Univ.	Rule Mir	Passing N				
Unit							
Unit I	Prenatal develor Genetic and envi	ronmental i	nfluences or	_	-	5	
Unit II	Neonate (neonate development. Infancy (Four water emotional, cognitional)	veeks up to 2	2 years): ph	ysical and m	cognitive and soc	ial 10	
Unit III		years(2-6 y	rears): phys		r, social, emotiona	1, 5	
Unit IV	Middle childhoo • Physical and	motor dev				10	
	Language and intellectual development Emotional development; Social and moral development						
Unit V	Adolescence:	 Social and moral development Adolescence: Characteristics of adolescence Physical, social, cognitive and emotional development Issues in adolescence, identity crisis 					
Unit VI	Adulthood:			ersonality de	velopment	10	

	Old age:	10
	 Characteristics of old age 	
Unit VII	 Biological, physical and social changes in old age 	
	 Attitudes towards life and death among the elderly. Special needs of 	
	elderly, status of aged in India	
_		

- Hurlock E.B. (1980), *Developmental Psychology, A Life span Approach*, 5 th edition, New Delhi: Tata Mc. Graw Hill Publishing company Ltd.
- Rice. F. P. (1998). Human Development: A lifespan approach. New Jersey: Prentice Hall.
- Rutter, M. and Rutter, M. (1992) Developing Minds. Challenge and continuity across the life span. London: Penguin.
- Santrock, J. W. (2007). A topical approach to life-span development. New Delhi: Tata McGraw- Hill.
- Singh, A. (Ed). 2015. Foundations of Human Development: A life span approach. New Delhi: Orient BlackSwan.
- Tennant, M. and Pogson, P. (1995) Learing and Change in the Adult Year, San Francisco: Jossey-Bass

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study- online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus \square Test with multiple choice questions/ short and long answer questions \square Attendance

Semester-IV Undergraduate Diploma in Home Science DISCIPLINE SPECIFIC COURSE (DSC-10)- Introductory Textile Science No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit distribution of the course			_	ibility iteria	Pre- requisite of the course (if any)
		Lecture	Tutorial	Practical/			
				Practice			
DSC-10 Introductory Textile Science	4 UNDERG	4 RADUATE	O DIPLOMA	0 A IN HOME	XII v science Arts comm	ce, and nerce	Nil
Programme/Class: Diploma in Home Science			Year: Second Semester: Fourth Paper: DSC-10				
Subject: Home Science Course: DSC-10			Course Titl	e: Introduct	ory Te	extile Sci	ence

Course outcomes: The Student at the completion of the course will be able to:

- To understand basic knowledge about the textiles fibers, yarns and fabric.
- To educate students about the use of laundering process and its equipment as well as the cleansing agents.

Credits: 4	DISCIPLINE SPECIFIC COURSE
Max. Marks: As per Univ. Rule	Min. Passing Marks: As per Univ. rules

Unit	Topics	No. of Hours
Unit I	Introduction, terminology and classification of textile fibers	5
Unit II	Natural fibers: Cotton, flax, jute, hemp, ramie, silk, wool, specialty hair fibers and asbestos	5
Unit III	Manmade fibers: Rayon, acetate, nylon, polyester, acrylic, glass fibers	8
Unit IV	Yarn classification; characteristics and their use	8

Unit VII	Labels and tags used in textiles and consumer education	8
Unit VIII	Laundry equipment; their use and care, principles and methods of washing and finishing	6
Unit IX	Cleansing agents: water, detergents, soaps and other laundry reagents- acidic, alkaline reagents and bleaching agents	5
Unit X	Additives used in laundry: stiffening and blueing agents	5
Unit XI	Visit to Textile Industry	10

- Vastala. R (2003), Text book of Textiles & Clothing, ICAR, New Delhi
- Andrea Wynne 1997. Textiles. Macmillian.
- Hollen N & Saddler (1993) Textiles, New York, John Wiley.
- Bernard P Corbman 1983. Textiles Fiber to Fabric. McGraw-Hill.
- Marjory L. Joseph 1966. Introductory Textile Science. Rinehart & Winston.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature- study-online.com, epg-pathshala, egyankosh.ac.in
Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus ☐ Test with multiple choice questions/ short and long answer questions ☐ Attendance

Semester-IV Undergraduate Diploma in Home Science DICIPLINE SPECIFIC COURSE (DSC-11)- Fundamentals of Baking

No. of Hours-60

10

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title Credits		Credit distribution of the course			Eligibility Criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
DSC-11 Fundamentals of Baking	4	4	0	0	Passed class XII with science, Arts and commerce	Nil
	UNDEF	RGRADUA	ATE DIPLO	MA IN HOM	E SCIENCE	
Programme/0 Diploma in F Science	Year: S	econd Semester: Fourth Paper: DSC- 11				
Subject: Home				O 15.41	D 1 41	en 1.
Course Outcor		and of the	term / course		: Fundamentals	s of Baking
• Explain the d					will be able to.	
-		_	•	bakery produc	ets	
• Define the br		-	•	• •		
• Draw and ex	-	•	•			
Write recipes		nt breads, p	pastries and g			
	redits: 4		10 D 1		L ELECTIVE	
Max. Marks:	As per Un	ıv. Rule	Min. Passii	ig Marks: As	per Univ. rules	
Units	Topic			No. of Hour		
Units I	Introduction Scope of Bakery, Bakery terms, Organization chart of Bakery			10		
Units II	Wheat a					10
		ifferent types of flours available, Constituents of flours, pH alue of flour, Water absorption power of flour,				
	value of flour, water absorption power of flour,					

Gluten, Grade of flour.

Characteristics of good bread

Units III

Raw material required for bread making

Role of flour, water, yeast, salt - Sugar, milk and fats

External characteristics-Volume, symmetry of shape; Internal characteristics - color, texture, aroma, clarity and elasticity

Units IV	Bakery Products	10
	Production of cakes and cookies/biscuits. Types of biscuit dough,,s	
	-Developed dough, short dough,,s and batters. Cake making:	
	Ingredients and their function Structure builders. Shortening and	
	leavening agents, Tenderizers, moisteners and flavor enhancers.	
	Problems of baking.	
Units V	Yeast	5
	An elementary knowledge of Baker"s yeast, fermentation of	
	dough and conditions influencing it "s working.	
Units VI	Oven & Baking	5
	Knowledge and working of various types of oven. Baking	
	temperatures for bread, confectionery goods.	
Unit VII	Visit to Baking Food Industry	10

- Neelam Khetarpaul, Bakery Science and Cereal Technology.
- N. Shakuntala Manay, Food Facts and Principles.

 $Suggested\ equivalent\ online\ courses:\ On\ Swayam,\ Vidyamitra. inflibnet.ac. in,\ literature-study-online.com,\ epg-pathshala,\ egyankosh.ac. in$

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus □ Test with multiple choice questions/ short and long answer questions □ Attendance

Semester-IV Undergraduate Diploma in Home Science Discipline Specific Course (DSC-12)- Practical based on DSC-10 & DSC-11

No. of Hours-120

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit distribution of the course			Eligibility Criteria	Pre- requisite of the course (if any)	
		Lecture	Tutorial	Practical/ Practice			
DSC-12 Introductory Textile Science and Fundamental of Baking	4	0	0	4	Passed class XII with science, Arts and commerce	Nil	
	UNDER	GRADUAT	E DIPLON	IA IN HO M	IE SCIENCE		
Programme/Class: Diploma in Home Science			Year: Second Semester: Fourth Paper: DSC-12				
Subject: Home Science Course: DSC-12			Course Title: Introductory Textile Science and Fundamental of Baking				
Course outcomes: The Student at the completion of the course will be able to: • To understand basic knowledge about the taxtiles fibers, werns and febria							

- To understand basic knowledge about the textiles fibers, yarns and fabric.
- To educate students about the use of laundering process and its equipments as well as the cleansing agents.
- Draw and explain the layout of a bakery
- Explain the different working temperatures for bakery products

Credits: 4		DISCIPLINE SPECIFIC	COURSE		
Max. Marks: A	s per Univ. Rule	Min. Passing Marks: As per Univ. rules			
Unit		No. of			
		Hours			
Unit I	Identification of fi microscopic and so	10			
Unit II	Study and identifice the market and thr	10			
Unit III	Removal of comm	12			

Unit IV	Demonstration of laundry equipment	10
Unit V	Washing, ironing and finishing of textile articles: cotton, silk, wool, synthetic/blend, zari embroidery and lace articles	16
Unit VI	Visit to Processing unit/ Textile mill	8
Unit VII	Introduction to ingredients / Equipment used in Bakery: Identification and uses of equipment – large, small and other utilities. Ingredients – Types of flour, Sugar, Nuts and Dry fruits, Shortenings, Leavening	10
Unit VIII	Quality Checking & Basic Mixing Methods Flour: W.A.P Test, Gluten Content Yeast: Flying fermentation	10
Unit IX	Mixing Methods Basic steps involved in mixing ingredients –Kneading, stirring, whipping, creaming.	10
Unit X	Flavored Breads and Biscuits Flavored Breads, Cakes, Muffins, Biscuits, Basic Buns, Fruit Buns	14
Unit XI	Visit to a Baking Unit	10

- Vastala. R (2003), Text book of Textiles & Clothing, ICAR, New Delhi
- Andrea Wynne 1997. Textiles. Macmillian.
- Hollen N & Saddler (1993) Textiles, New York, John Wiley.
- Bernard P Corbman 1983. Textiles Fiber to Fabric. McGraw-Hill.
- Marjory L. Joseph 1966. Introductory Textile Science. Rinehart & Winston.
- Neelam Khetarpaul, Bakery Science and Cereal Technology.
- N. Shakuntala Manay, Food Facts and Principles.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus \square Test with multiple choice questions/ short and long answer questions \square Attendance

Semester-IV Undergraduate Diploma in Home Science Discipline Specific Elective (DSE-2)- Community Nutrition

No. of Hours-30+60

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course	Credits	Credit	distribution	of the course	Eligibility	Pre-requisite of
Title					Criteria	the course (if
						any)
		Lecture	Tutorial	Practical/		
				Practice		
DSE-2	4	2	0	2	Passed class	Nil
Community					XII with	
Nutrition					science, Arts	
					and	
					commerce	
	UNDEF	RGRADU	ATE DIPLO	MA IN HOMI	E SCIENCE	
Prograi	mme/Class:		Year: Se	econd	Semester	Fourth
Diploma in Home Science					Paper:	DSE-2
Subject: Hon	ne science		_			_
Cour	Course: DSE-2			se Title: Comm	unity Nutritio	n
Course oute	mage The Ctu	dont at the	aomnlation	of the course wi	Il ba abla tar	

Course outcomes: The Student at the completion of the course will be able to:

- To provide information regarding nutritional assessment.
- To enable students to impart nutrition education among rural and needy people.
- To acquaint them knowledge regarding food security and government and international program running in the field of community nutrition.

Credits: 4		DISCIPLINE SPECIFIC ELECTIVE			
Max. M	arks: As per Univ. Rule	Min. Passing Marks: As per Univ. rules			
Unit		Topics	No. of Hours		
Unit I	improving amount a income and its influ	acation programme in eradication of malnutrition: and variety of food supplies, improving family sence on nutritional status, improving food et individual needs in the family, improving ene.	3		
Unit II	Planning, implementation and evaluation of a nutrition education programme.				
Unit III		Assessment of nutritional knowledge by informal discussion and by simple questionnaire and rapid rural appraisal.			
Unit IV		onal nutrition programmes and policies programmes tional status at national level, ICDS, NRDP, NREP, ofocal programmes.	2		
Unit V		national agencies and programmes in community nutrition, , UNICEF; other voluntary and government agencies.			
Unit VI	Food production sys	stems in India; Their influence on food supply; major ewise production in India.	5		
Unit VII	Food distribution sy	stem: Public Distribution System, Food Corporation	5		

of India, intra household distribution and per capita availability of food.

Unit VIII	Magnitude of nutrition problem in India: PEM, vitamin A deficiency,	5
	endemic goiter, flourosis and lathyrism, strategies for control of	
	malnutrition	
	PRACTICALS	
Unit I	Identifying nutritional problems in a community.	10
Unit II	Formulation of nutrition and health related messages for presentation to	20
	the community through radio script, popular article, charts/posters;	
	leaflets, games.	
Unit III	Organization of a campaign in the community through prepared nutrition	10
	education media.	
Unit IV	Evaluation of the programme in the community.	10
Unit V	Visit to an ICDS block/ongoing project site where nutrition education is	10
	a part of programme.	

- Bamji, M.S Rao, NP and Reddy V. 1996. Text book of Human Nutrition
- Bagchi, K. 1990. Guidelines for the management of nutrition programmes- a manual for nutrition officers. WHO EMRO Technical Publication no. 15, WHO, Geneva
- Bendich, A and Deckelbaum, RJ, 1997. Preventive Nutrition. The Comprehensive guide for health professional.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus ☐ Test with multiple choice questions/ short and long answer questions☐ Attendance

Semester-IV Undergraduate Diploma in Home Science

GENERIC ELECTIVE (GE-4)- Family Financial Management and Consumer Economics

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit distribution of the course			Eligibility Criteria	Pre-requisite of the course (if any)	
		Lecture	Tutorial	Practical/ Practice			
GE-4 Family Financial Managemen t and Consumer Economics	4 UNDER	4 CGRADUA	O ATE DIPLO	0 OMA IN HO	Passed class XII with science, Arts and commerce	Nil	
Program Diploma in H		20	Year:	Second	Second Semester: Fourth Paper: GE-4		
Subject: Home					1 a	per. GE-4	
Course: GE-4			Course Title: Family Financial Management and Consumer Economics				

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

- To learn the basic of financial management which have an impact on family consumption patterns?
- To educate the students to become good consumers.

	Credits: 4	DISCIPLINE SPECIFIC ELECTIVE		
Max. Marl	ks: As per Univ. Rule	Min. Passing Marks: As per Univ. rules		
Unit	Topics		No. of Hours	
Unit I	for family financial Family income: Income concepts: pr income, real income,	and importance of family finance, guidelines management. oductive income, hidden income, money psychic income, Analyzing income: income nandling income, account keeping	10	

Unit II	Family budget and saving: Steps of budget making, factors influence on budget making, advantages of budget making, and Engel"s law of consumption, controlling and evaluation of budget. Savings and Investment-types of savings / investment, saving institution and its importance.	8
Unit III	Credit- Meaning, Definition, Needs, Types, use and source of credit Taxation- objectives, characteristics and classification.	8
Unit IV	 Meaning of consumer, Basic concepts of consumer economics: Goods, wealth, economic and non-economic activities, utility, Value and price, Consumer problems. Consumer education: Meaning, Definition, Objectives and need of in India. Consumer rights and responsibilities in today"s world. 	8
Unit V	 Consumer decision making Determinants of consumer choices Market and merchandising – types of market, definition and Structure and functioning of consumer retail markets Pricing process 	8
Unit VI	Consumerism and consumer protection a) History of consumer movement in the developed and developing countries b) Consumer protection and Govt. legislation-Act and orders c) Govt. and NGO for consumer protection and welfare	8
Unit-VII	Visit to financial Institutions and Consumer Organizations	10

- Maneesha Shukul and VeenaGandotra. (2006). Home Management and Family Finance. Dominant Publishers and Distributors, New Delhi.
- Mann, M.K. (2004) Home Management for Indian Families. Kalyani Publishers, New Delhi.
- Rice, Nickel and Tucker. (1976). Management in Family Finance. John Wiley and Sons., New York
- Seetharaman P. Sethi M. (2002). Consumerism Strategies and Tactics. CBS Publishers and Distributors. New Delhi.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus \square Test with multiple choice questions/ short and long answer questions \square Attendance

Semester-V Bachelor in Home Science (Honours)

Discipline Specific Course (DSC-13) Therapeutic Nutrition and Diet Counseling

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Tit	le Credits		distribution	Eligibility Criteria	Pre- requisite of the course (if any)		
		Lecture	Tutorial	Practica Practic			
DSC-13 Therapeutic Nutrition and Diet Counselling		4	0 0		Passed class XII with science, Arts and commerce	Nil	
			or in Home So			•	
Bachelo	Programme/Class: Year: Third Semester: Fifth Bachelorin Home Science (Honours) Subject: Home Science						
C	ourse- DSC-1	3		(Couns	tic Nutrition a selling	
	Credits: 4					CIFIC COU	RSE
	ks: As per Uni	iv. Rule	Min. Passin		As per	Univ. rules	ı
Unit			Topics	S			No. of Hours
 Introduction: Nutrition and immunity Catabolic effects of infections. Effect of illness on food acceptance and utilization Types of feeding. Use of food exchange list in diet planning. 					10		
Unit II	Fever: Metabolic Types of Dietary m	c alteration fever	n nt of short (typ		ong du	uration	10

	Principles of dietetic management of disorders of the	10
	gastrointestinal tract –	
	Gastritis	
Unit III	Peptic ulcer	
	Diarrhea	
	Constipation.	
	Ulcerative colitis	
	Regional enteritis	
	Etiology, symptoms, metabolic alterations and nutritional	5
Unit IV	management of liver disease-	
01210 2 7	Hepatitis	
	• Cirrhosis	
	Diabetes mellitus:	5
	Clinical characteristics,	3
Unit V	• risk factors,	
Cint v	dietary management	
	• Complications Pick for the street and believe and principles of proteining and principles of principles of proteining and princip	8
	Risk factors, metabolic anomalies and principles of nutritional	8
Unit VI	management in-	
Unit VI	• Hypertension	
	• hyperlipidemias,	
	• atherosclerosis	
	Nutritional considerations in weight management-	8
	1) Obesity:	
	• Etiology	
TT •4 T7	Energy balance	
Unit V	Metabolic changes	
	Dietary management	
	2) Underweight	
	• Etiology	
	Metabolic changes	
	Dietary management	
	Principles of nutritional therapy in diseases of the kidney-	2
Unit VI	Glomerulonephritis,	
	Renal failure	
	Renal calculi.	
Unit VII	Visit to Hospital	2

- Antia F.P. (1989). Clinical Dietetics and Nutrition. Third Edition. (pp- 226-239), Bombay, Oxford University Press.
- Bamji . S.M., Rao, P.N., and Reddy, V. Textbook of Human Nutrition. Pp-360-67. Oxford and IBH publishing Co Pvt Ltd.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study- online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus \square Test with multiple choice questions/ short and long answer questions \square Attendance

Semester-V Bachelor in Home Science (Honours) Discipline Specific Course (DSC-14)Fabric Formation and Finishes

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit distribution of the course			Eligibility Criteria	Pre-requisite of the course (if any)	
		Lecture	Tutorial	Practical/ Practice			
DSC-14 Fabric Formation and Finishes	4	4	0	0	Passed class XII with science, Arts and	Nil	
rinishes		Bache	elor in Hom	e Science (Hoi	commerce nours)		
_	Programme/Class: Bachelor in Home Science Year: Third Semester: Faper: DSC						
Course Code: DSC-14 Course Title: Fabric Formation and Finishes							
	the comple ne chemica roperties	als used in of raw ma	textile proc terials used	essing from si		g, along with the study the recent	
Credits: 4	its iii vaiio	us minsimi		CIPLINE SPE	CIFIC COURS	E	
Max. Marl	ks: As per	Univ. Rule	Min.	Passing Marks	: As per Univ. ru	ıles	
Unit				Topics		No. of Hours	
Unit I	• V	Method of fabric formation: • Weaving • Knitting • Non-woven				15	
Unit II	Loo	ms: Shuttle		tle less looms,	J 11	15	
Unit III	Intro	loom, rapier loom, water jet and air jet loom Introduction to fabric finishes a) Processes of removing impurities from fabrics: scouring, degumming, carbonizing					

	b) Basic finishes that alter hand or texture; felting, singeing,	
	stiffening, decatazing	
	c) Surface finishes: Bleaching, delustering, calendaring,	
	beetling, napping, flocking, burnt out design, plisse design,	
	acid design, tenetring, shearing and brushing	
	d) Functional finishes: water proof and water repellent finish,	
	soil repellent finish, shrinkage control, wrinkle resistance,	
	durable press finish, flame retardant finish, mildew proof,	
	rot proof, moth proof finishes, antistatic	
	and antibacterial finishes	
Unit IV	Adding colour to textiles	15
	Natural dyes	
	Syntheticdyes	
	Symmetrical	
	1	

• Banerjee, P.K. Principles of Fabric Formation 2014.1st Edition19 December 2014. ISBN-13: 978-1466554443 ISBN-10: 1466554444.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in
Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus ☐ Test with multiple choice questions/ short and long answer questions ☐ Attendance

Semester- V Bachelor in Home Science (Honours) DISCIPLINE SPECIFIC COURSE (DSC-15)- Practical based on DSC-13 and DSC-14

No. of Hours- 120

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit	t distribution course	of the	Eligibility Criteria	Pre- Requisite of the course (if any)		
		Lecture	Tutorial	Practical/				
				Practice				
DSC-15	4	0	0	4	Passed class	Nil		
Practical based					XII with			
on DSC-13 and					Science, Arts			
DSC-14					and			
					Comme			
					r ce			
	UNDERGR	ADUATE	DIPLOMA I	N HOME S	CIENCE			
Program	me/Class:	7	Year: Third		Semester:			
Bachelor in Ho	me Science				Fifth Pape	er:		
(Honours)					DSC-15			
Subject: Home sci	ience	•		•				
Course: I	OSC-15	Course Ti	tle: Practica	l based DSC	C-13 and DSC-14			
~ .								

Course outcomes:

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

- Understand the basics of normal diet, therapeutic diet related with specific disease condition.
- Students will be able to know different feeding methods used in hospitals.
- To study the chemicals used in textile processing from sizing to finishing, along with the essential properties of raw materials used in their manufacture and study the recent developments in various finishing processes.

	Credits: 4	Discipline Specific Cours	se
Max. Mar	ks: As per Univ. rule	Min. Passing Marks: As per Univ. rules	
Unit		Topics	No. of Hours
Unit I	Planning normal diet require special diets:	12	
Unit II	Planning soft diet and	12	
Unit III	Planning diet in fever	12	
Unit IV	Diet for underweight	12	
Unit V	Diet for obese	12	
Unit VI	Identification of com	20	
Unit VII	Preparation of basic v	15	
Unit VIII	Preparation of sample printing, tie and dye	15	
Unit IX	Visit to Dyeing & Pri	inting	10

- Antia F.P. (1989). Clinical Dietetics and Nutrition. Third Edition. (pp- 226-239), Bombay, Oxford University Press.
- Bamji . S.M., Rao, P.N., and Reddy, V. Textbook of Human Nutrition. Pp-360-67. Oxford and IBH publishing Co Pvt Ltd.
- Banerjee, P.K. Principles of Fabric Formation 2014.1st Edition19 December 2014. ISBN-13: 978-1466554443 ISBN-10: 1466554444.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature- study- online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus \square Test with multiple choice questions/ short and long answer questions \square Attendance

Semester-V Bachelor in Home Science (Honours) Discipline Specific Elective (DSE-3)Entrepreneurship Development

No. of Hours-45+30

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit d	listribution o	f the course	Eligibility Criteria	Pre- requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
DSE-3 Entrepreneur ship Development	4	3	0	1	Passed class XII with science, Arts and commerce	Nil
		Bachelo	or in Home S	cience (Hono	urs)	
Programme/Class: Bachelor in Home Science			ear: Third	Semester: Fifth Paper: DSE-3		
Subject: Home Science Course: DSE-3			Course Title:	Entrepreneu	rship Developm	nent

Course outcomes:

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

- To learn about the importance of entrepreneurship Development and Business Management in the development of Indian economy
- Creating awareness regarding entrepreneurial traits, entrepreneurial support system,
- Opportunity identification, project report preparation and understanding of legal and managerial aspects.

Credits: 4		DISCIPLINE SPECIFIC ELECTIVE				
Max. Marks: As per Univ. Rule		Min. Passing Marks: As per Univ. rules				
Unit		Topics	No. of Hours			
Unit I	significance of entre	concepts, definition, need and preneurship development in India, haracteristics, types, Challenges faced eurs.	5			

Unit II	Business organizations: Meaning and definitions, types of business	10
	organizations and their characteristics.	
	Business opportunities: Meaning and definition, characteristics of	
	business opportunities, sources of business opportunities, types of	
	business opportunities and analysis of business opportunities.	
	Business environment: Meaning and definition of business	
	environment, factors affecting business environment, importance of	
	business environment analysis.	
	Steps involved in functioning of an enterprise: Selection of the	10
Unit III	product / services, selection of form of ownership; registration,	
	selection of site, capital sources, legal requirement for starting	
	an enterprise.	
Unit IV	EDP: Entrepreneurship development program, types of EDPs, role	10
	of financial institutions, and other Agencies in entrepreneurship	
	development.	
Unit V	Enterprise management, Basic management concepts, personnel	10
	management, product management, material management,	
	financial management, market management and crises	
	management.	
	natural etc.	
	Practical	
Ι	Assessment of entrepreneurial traits	5
	Thematic Appreciation Test (TAT); Who am I?	
	Paired comparison Test (PCT)	
	Sentence Completion Test (SCT)	
	Risk Taking Behavior (Ring Toss)	
II	Interaction with successful entrepreneurs	10
III	Visit to financial institutions and support agencies	5
IV	Preparation of project proposal for funding by different agencies	10
	1 10 1'	

- Bhawal, C. P. 2005. Entrepreneurship and Entrepreneurial Development. New Royal Company, Lucknow
- . Vasant Desai. (2011). Entrepreneurial Development Potential beyond Boundaries; Himalaya PublishingHouse.
- Gundry Lisa K. & Kickul Jill R.,2007, Entrepreneurship Strategy: Changing Patterns in New Venture Creation, Growth, and Reinvention, SAGE Publications, Inc.
- Taneja& Gupta, 2001, Entrepreneur Development- New Venture Creation, Galgotia Publishing Company.

Suggested Continuous Evaluation Methods: Since the class is conceived as learner-centric and built around tasks that require learners to actively use various language skills, formative Assessment can and should be used extensively. Oral presentations, peer interviews, and group tasks can be used for this purpose. The end-semester written examination will test all the areas targeted in the course.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in

Semester-V Bachelor in Home Science (Honours)

GENERIC ELECTIVE (GE-5)- Population and Family Life Education

No. of Hours-60

10

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit distribution of the course		Eligibility Criteria	Pre- requisite of the course (if any)	
		Lecture	Tutorial	Practical/ Practice		
GE-5 Population and Family Life Education	4	4	0	0	Passed class XII with science, Arts and commerce	Nil
		Bachelor i	n Home Sci	ence (Honou		
Programme/Class: Bachelor Year: Third in Home Science			Semester Paper: (
Subject: Home S Course: GE-5	cience		Course T	itle• Populat	ion and Family	y Life Education
Course outcome	es:		Course 1	тист горини		y Enc Eudeuroi
The Student at th		n of the cour	se will be ab	le to:		
• To understand	the perspec	tive of popul	ation and its	measures, gr	owth and devel	opment.
• To provide kn	owledge abo	out the famil	y life educati	on in students	S.	
Credits: 4			DISCIPI	LINE SPECI	FIC COURSE	
Max. Marks:	As per Uni	v. Rule	Min. Pass	ing Marks: A	As per Univ. ru	iles
Unit	Topics			No. of Hours		
Unit I Population in perspective, theories of population education, Growth of world population, population of India, India"s population problem in perspective, socio-cultural aspects of population growth in India. Population policy in India					15	
Unit II Measures of population composition and growth of						10

population

Unit IV

a) Measures of mortality and life tableb) Measures of fertility and reproduction

need and importance of population education

Population education, Meaning of population education,

Unit V	Family life education a) Conception, pregnancy and pre-natal development process of conception, determination of sex techniques, fertilization techniques: amniocentesis, sonography, gift, I.V.F. and A.I., pregnancy and its management. b) Planning family: family planning and contraceptive technology, planned parenthood-spacing between children, size of family.	15
Unit VI	Visit to a hospital	10

- Nye.F.I., & Berardo. F.M. (1973). The family its structure and Interaction. New York: Mac. Millan Company
- Arcus, M.E., Schvaneveldt, J.D. & Moss, J.J. (1993). *Handbook of Family Life Education: Foundations of Family Life Education*. USA: Sage Publications, Inc.
- WHO, USAID and Johns Hopkins Bloomberg School of Public Health. (2007). *Family Planning: A Global Handbook for Providers*.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus
☐ Test with multiple choice questions/ short and long answer questions ☐ Attendance

Semester-VI Bachelor in Home Science (Honours) DICIPLINE SPECIFIC COURSE (DSC-16)- Food Science

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit distribution of the course			Eligibility Criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
DSC-16 Food Sciene	4	4	0	0	Passed class XII with Science, Arts and Commerce	Nil
		Bachelo	or in Home	Science (Ho	onours)	
	Programme/Class: Bachelor in Home Science		Year	r: Third	Semester: sixth Paper: DSC- 16	
Subject: Hon	ne Science	!			•	
Cot	ırse- DSC-	-16		Course	e Title: Food Scienc	ce

Course outcomes: The Student at the completion of the course will be able to:

- To provide an understanding of composition of various foodstuffs
- Familiarize students with changes occurring in various food stuffs as a result of processing and cooking.

Credits: 4		DISCIPLINE SPECIFIC (COURSE		
Max. M	larks: As per Univ. Rule	Min. Passing Marks: As per Univ. rules			
Unit	Topics		No. of Hours		
I	 Introduction to Food Scie Properties of foods Functions of foods Factors affecting appear 	4			
П	Changes during food pro Fruits and vegetables; milk and milk product meat and poultry; fish cereals and legumes; nuts; oilseeds and spice	es; , eggs,	5		

III	Carbohydrates-	5
	 Functional role of sugars in foods- sweetness, texture, 	
	preservation, preservation, fermentation, appearance,	
	maillard reaction, caramelization, freezing point,	
	antioxidant activity, miscellaneous activity;	
	sweetness; invert sugar.	
IV	Proteins-	6
	 Functional properties of protein- hydration properties, precipitation, viscosity, gelation, texturization, dough formation, surface properties. 	
${f v}$	Lipids-	6
	 Functional properties of lipids- deep fat frying, 	
	deteriorative changes in fats/ oils, antioxidants	
VI	Food polysaccharides-	4
	Functional properties of starch; hydrocolloids, on-starch	
	polysaccharides, gums.	
VII	Role of water in foods-	6
	Free water and bound water	
	• Functional properties	
	Water activityIntermediate moisture foods.	
	Sols, gel, emulsion; colloids, colloidal system, properties of	
VIII	solutions, foams.	4
IX	,	4
IA	Enzymes and pigments: Biotechnological applications of enzymes;	4
	Natural pigments- sources and uses.	
X	Sensory evaluation-	6
	Importance	
	Sensory panel	
	Sample preparation	
	Hedonic scale	
XI	Visit to Milk processing unit	10

- ➤ Desroiser N. W. & Desroiser J. N. 1977. The Technology of Food Preservation. AVI Publication.
- > Potty V. H. and Mulky M. J. 1993. Food Processing. Oxford & IBH Publishing House.
- > Srilakshmi B. 2001. Food Science. New Age International.
- ➤ M. Shadakhsharaswamy and N. Shakuntala Manay. Food Facts and Principles, Mohindra Singh Sejwal for Wiley Eastern Limited, Ansari Road Daryaganj, New Delhi.
- ➤ Mudambi, S. 1997. Food Science. New Age International (P) Limited Pub.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus
☐ Test with multiple choice questions/ short and long answer questions ☐ Attendance

Semester-VI Bachelor in Home Science (Honours) DICIPLINE SPECIFIC COURSE (DSC-17)- Fundamentals of Housing and Interior Decoration

No. of Hours-60 CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

	se Title	Credits	Credit distribution of the course				Pre- requisite of the course (if any)	
			Lecture	Tutorial	Practical/ Practice		(ii uiiy)	
Fundan of Housi Inte	ing and rior	4	4	0	0	Passed class XII with science, Arts and	Nil	
Decor	ation		Bachelor i	in Home Scie	ence (Honours	commerce		
Programme/Class: Bachelor in Home Science (Honours)				Year: Third		Semester: S DSC-17	ixth Paper:	
Subject: Home Science Course- DSC-17			Course Title: Fundamentals of Housing and Interior Decoration					
The Stud	To learn a	bout elemen	ts and prin	ourse will be a ciples of art a nterior enrich	nd their applic	ation in interior d	esigning.	
	Credits:	4				FIC COURSE		
Max. N	Iarks: As Rule	per Univ.	Min. Pas	ssing Marks:	As per Univ.	rules		
Unit	Topics						No. of Hours	
Unit I	 it I Introduction to interior planning and decoration Importance of interior planning and decoration Current trends in interior decoration 					5		
 Unit II • Elements of design: Line, Form, Texture, Colour, Pattern, Light, Space Objectives of interior decoration • Principles of designs: Proportion, Balance, Emphasis, Harmony, Rhythm 					5			
Unit III	Colour: • Chai						5	

	 Properties of colour Emotional effect of colour Colour wheel Colour schemes Use of colour in interior decoration Planning of colour schemes of different areas in the house 	
Unit IV	 Planning for various background areas of the house and their treatment Floor: Types of floor covering, care and maintenance and Selection of floor covering Walls: Types of building walls, Types of wall treatments Windows: Types of window treatment 	5
Unit V	 Functional and decorative accessories for interiors, Lighting: Importance, Types of lighting, Flower arrangement: Materials used, principles involved and Types of flower arrangements. 	10
Unit VI	 Home Functions of home Renting verses owning house Advantages and disadvantages of renting and owning a house Factors to be considered in selection of family housing, selection of site, soil, locality, orientation and sanitation of a house, principles of planning a house, housing needs at different stages of family life cycle. 	10
Unit VII	Types of house planning • Floor plan, • Site plan, • Cross sectional plan, • Perspective plan, • Elevation plan • Landscape plan.	10
Unit VIII	 Housing finance Government and non- government finance institutes. Housing schemes 	5
Unit IX	Technology in housing Advance technology in housing construction Low cost building technology Low cost building materials.	5

- Bhargava, B. 2001. Family Resource Management and Interior Decoration. University Book House Ltd. Jaipur.
- Bhargava, B.2001 .Housing and Space Management, University Book House Ltd. Jaipur.
- Seetharaman P. and Sethi M. (2002). Interior Design and Decoration. CBS Publishers and Distributors. New Delhi.
- Gewther, M. (1970). The Home, its Furnishings and Equipment U.S.A. Mc. GrawHill.
- Gupta, G. Garg, N. and Aggarwal, N (2007). Text Book of Family Resource Management Hygiene and Physiology. Kalyani Publishers.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature- study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus ☐ Test with multiple choice questions/ short and long answer questions☐ Attendance

Semester-VI Bachelor in Home Science (Honours) DICIPLINE SPECIFIC COURSE (DSC-18)- Practical based on DSC-17

No. of Hours-120 CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

	STRIBUTION					
Course Tit	le Credits	Credit d	listribution	of the course	Eligibility	Pre-
					Criteria	requisite of
						the
						course
				T		(if any)
		Lecture	Tutorial	Practical/		
				Practice		
DSC-18	4	0	0	4	Passed	Nil
Practical on					class XII	
DSC-17					with	
					Science,	
					Arts and	
		Doobolos	in Homo C	 cience (Honou	Commerce	
Duoana		Dacheloi	Year: Thi	`	Semester	C!4l-
Programme/Class: Bachelor in Home Science			rear: Im	ıru	Paper: I	
(Honours)					r aper. 1	JSC-10
Subject: Ho						
	se- DSC-18		Co	urse Title: Pr	ractical on DSC-	17
Course outo				ourse Title. Tr	actical on DBC-	1,
	t at the comple	tion of the	ource will b	o oblo to:		
					lication in interio	r designing
	gain better under				incation in interio	i designing.
	redits: 4				ECIFIC COURS	E
_	ks: As per Univ	Min. F		ks: As per Un		
	Rules	1,222,72		P		
Unit		<u></u>	Topics			No. of Hours
Unit I	Development	rtiary colours	10			
Unit II	Drawing colour wheel, colour schemes, values and intensity scale					10
Unit III	Drawing for a	rrangement	of furniture i	n different roo	ms, Bed Room,	10
	Kitchen, Drav				,	
Unit IV	Drawings for o	different sur	face arrange	ements of inter	iors	20
	a) Arrangen	nent of walls				
	b) Arrangen	nent of floor	S			
	b) Arrangen	nent of floor rangements				
Unit V	b) Arrangen	rangements		l and floor cov	verings.	20

Unit VI	Learning architectural symbols, planning, preparing and reading of blue prints, development of master plan	20
Unit VII	Drawing of house plans for different income levels.	10
Unit VIII	Learning of drawing, isometric projections of house plan	10
Unit IX	Market survey to study the available building materials in the local market	10

- Bhargava, B. 2001. Family Resource Management and Interior Decoration. University Book House Ltd. Jaipur.
- Bhargava, B.2001 .Housing and Space Management, University Book House Ltd. Jaipur.
- Seetharaman P. and Sethi M. (2002). Interior Design and Decoration. CBS Publishers and Distributors. New Delhi.
- Gewther, M. (1970). The Home, its Furnishings and Equipment U.S.A. Mc. GrawHill.
- Gupta, G. Garg, N. and Aggarwal, N (2007). Text Book of Family Resource Management Hygiene and Physiology. Kalyani Publishers.

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Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus ☐ Test with multiple choice questions/ short and long answer questions ☐ Attendance

Semester-VI

Bachelor in Home Science (Honours) DICIPLINE SPECIFIC ELECTIVE (DSE-4)- Textile Designing and Use of

No. of Hours-30+60

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Title Credit	le Credits Credit distribution of the course			rse Eligibility Criteria	Pre- requisiteof	
	Lectur	e Tutorial			the course (if any)	
4	2	0	2	Passed	Nil	

•				Arts and		
				commerce		
	Bachelo					
		Year: Third	l		Semester: Sixth	
Bachelor of Home Science				-	Paper: DSE-	
		Subject: Home	science	T		
Course-DSE-4 Course Title: Textile Designing and Use o				of CAD		
Course outcomes: The Student at the completion of the course will be able to:						
To introduce them about various advanced Textile and Apparel Designing software					are	
	the creativ	ity of the stude				
11 KS. 7 KS PCT C	mv. Ruics		i assing i	idi Ks. 713 per em v	No. of	
					Hours	
Introduction to textile designs.				6		
Woven design: simple and compound structures of the fabric						
				6		
designing						
Fancy and ornamental weaves: Pile weave, leno weave, tapestry				6		
weave, dobby, jacquard weave and extra yarn						
	rinting took	vigues: Poller	araan ha	at transfor	4	
				4		
	camme/Class: of Home Scient Durse-DSE-4 Itcomes: The Stoduce them above and develope and develope arks: As per United to the search of the se	Bachelo Camme/Class: of Home Science Surse-DSE-4 Itcomes: The Student at the oduce them about various are and develop the creative Credits: 4 The arks: As per Univ. Rules Introduction to textile designs: simple • Woven design: simple • Decorative designs: contemporary design geometric designs, nare Application of various designing Fancy and ornamental we weave, dobby, jacquard of figuring Automatic Printing technical architecture of the contemporary design and ornamental we weave, dobby, jacquard of figuring Automatic Printing technical architecture of the contemporary design architecture of	Bachelor of Home Science Subject: Home	Bachelor of Home Science (Home Science)	Lecture Tutorial Practical/Practice 4 2 0 2 Passed class XII with science, Arts and commerce Bachelor of Home Science (Honours) Tamme/Class: Of Home Science (Honours) Subject: Home science Subject: Home science Course Title: Textile Designing and Use of the course will be able to: and develop the creativity of the students in use of CAD software. Credits: 4 Discipline Specific Elective and Apparel Designing softwices and develop the creativity of the students in use of CAD software. Credits: 4 Discipline Specific Elective Min. Passing marks: As per Univ Topics Introduction to textile designs. • Woven design: simple and compound structures of the fabric • Decorative designs: Ethnic designs, historic designs, contemporary designs; abstract designs, Realistic designs, geometric designs, naturalistic designs, Realistic designs Application of various design elements and principles in textile designing Fancy and ornamental weaves: Pile weave, leno weave, tapestry weave, dobby, jacquard weave and extra yarn figuring Automatic Printing techniques: Roller, screen, heat transfer	

Unit V	Basics of Design and Repeat software: Types of design repeats,	4
	Tools for designing, Drawing and Editing different menus	
Unit VI	Creating and editing motifs, Adaptation of basic motif for design	4
	organization, use of computer colour palette for colouring the	
	designs	
	Practical	1
Unit I	Demonstration of Basic of design and repeat software CAD	5
Unit II	Demonstration of Coral Draw Window	5
Unit III	Creation of textile design in Coral Draw	10
Unit IV	The Harmony of Colour Form	5
	 Colour Wheel and Colour Scheme 	
	Harmony according to colour wheel	
Unit V	Design development: All over design, Border design, Spot design	5
	and Pallav design	
Unit VI	Design Development from Basic Motifs	5
Unit VII		5
	and tie-up of plain weave and its variations	
Unit	Creating library for various designs (Ethnic designs, historic	5
VIII	designs, contemporarydesigns, Abstract designs, Stylized designs,	
	Geometric designs, Naturalistic designs, Realistic designs)	
Unit IX	Preparing two dress material/household articles using CAD	5
	software.	
Unit X	Visit to Fashion Institute	10

Suggested Readings:

- CAD design software manuals
- Davis L Msrisn. 1980. Visual Design in Dress. PrenticeHall.
- Rene Weiss Chase 1997. CAD for Fashion Design. PrenticeHall.
- Winfred Aldrich 1992. CAD in Clothing & Textiles. BSP ProfessionalBooks.
- Yates MP. 1996. *Textiles A Handbook for Designers*. W.W.Norton.

Suggested Digital Platform:

http://ecoursesonline.iasri.res.in/course/view.php?id=196

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus □ Test with multiple choice questions/ short and long answer questions □ Attendance

Semester-VI Bachelor in Home Science (Honours) GENERIC ELECTIVE(GE-6)- Programme Planning, Implementation and Evaluation

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITYAND PRE-REQUISITES OF THE COURSE

Course Title	Credits	ts Credit distribution of the course		Eligibility Criteria	Pre- requisit e of the course(i f any)	
		Lecture	Tutorial	Practical/ Practice		
GE-6	4	4	0	0	Passed class	Nil
Programme					XII with	
Planning,					science,	
Implementation					Arts and	
and Evaluation					commerce	
	Ba	achelor in H	Iome Scien	ce (Honours)		
Programme/Class:		Year: Third			Semester: Fifth	
Bachelor in Home					Paper: GE-6	
Science						
Subject: Home sci	ience					
Course: GE-6		Course Title: Programme Planning, Implementation and Evaluation				
Course outcomes	:					
The Student at the	completion	n of the cour	rse will be a	ble to:		
 To understand al 	out impor	tance, objec	tives and pri	nciples of exte	ension programi	me
planning.						
 To learn about ex 	xecution, r	nonitoring a	and evaluation	on of extensio	n programme p	lanning.

Credits: 4		GENERIC ELECTIVE		
Max. Marks: As per Univ. Rule		Min. Passing Marks: As per Univ. rules		
Unit	Topics		No. of Hours	
Unit I	Extension Programme: and Characteristic.	meaning and definition, need	10	
Unit II	Extension Programme Planning: meaning and definition, importance, objectives, principles, steps in programme planning.		10	
Unit III	Leader: meaning and of Role of a leader, type	lefinition, qualities of a leader, s of leaders.	10	

Unit IV	Execution of programme: steps/ procedures in programme execution, Role of leaders, local bodies, organisations and extension agencies in programme execution, constraints in programme implementation at grass root level	20
Unit V	Monitoring and evaluation: definition, importance, types, principles,	10

- Dahama, O.P. and Bhatnagar, O.P. (1987). Education and Communication for Development, Oxford and IBH Publishing Co., New Delhi.
- Leagans, J.P. (1961). Programme Planning to Meet People"s Needs. In: Extension Education in Community Development, Directorate of Extension, Ministry of Food and Agriculture, Govt. of India. New Delhi.
- Ray, G.L. (2001). Extension Communication and Management. Naya Prakash, Calcutta, 4th edition.
- Sandhu, A.S. (1994). Extension Programme Planning. Oxford and IBH Publishing Co., New Delhi.

Supe, S.V. (1983). An Introduction to Extension Education, Oxford and IBH Co., New Delhi.

• Swanson, Burton, E. Ed. (1984). Agricultural Extension. A Reference Manual, Rome, Food and Agricultural Organization (FAO), of the United Nations, 2nd Edition.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in

Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the	,
above syllabus \square Test with multiple choice questions/ short and long answer questions	
Attendance	