

National Education Policy-2020

Common Minimum Syllabus for Uttarakhand State Universities and Colleges

**Syllabus Bachelor of Science (Home Science) / Master of Science Home Science (Food and
Nutrition/Textile and Apparel Designing)**

**DEPARTMENT OF HOME SCIENCE
SURAJMAL AGARWAL PRIVATE KANYA MAHAVIDYALAYA**

Kichha, Udham Singh Nagar Uttarakhand (Affiliated to
Kumaun University, Nainital, Uttarakhand)

EXPERT COMMITTEE

S.NO.	NAME	DESIGNATION	DEPARTMENT	AFFILIATION
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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, Delhi	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
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SYLLABUS PREPARATION COMMITTEE

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Course Title- Internship/Apprenticeship /Project/Community Outreach

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Course Title- Internship/Apprenticeship /Project/Community Outreach

**List of Papers (DSC, DSE, GE, SEC) with Semester Wise Titles for
'Home Science'**

Year	Semester	Course	Paper Title	Theory/ Practical	Credits
Undergraduate Certificate in Home Science					
FIRST YEAR	I	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	<i>Home science students will choose GE subject from other department</i>		
	SEC-1	Personality Development	Theory	2	
	II	DSC-4	Fundamentals 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		<i>Home science students will choose GE subject from other department</i>			
SEC-2	Fashion Apparel Designing	Theory+ Practical	1+1		

Students on exit shall be awarded Undergraduate Certificate in Home Science after securing the requisite 44 credits in semester I and II

Undergraduate Diploma in Home Science

SECOND YEAR	III	DSC-7	Food Processing and Storage	Theory	4	
		DSC-8	Indian embroidery and Traditional Textiles	Theory	4	
		DSC-9	Practical based on Food Processing and Storage & Indian embroidery and Traditional Textiles	Practical	4	
		DSE-1	Life Span Development	<i>Home Science students can choose from any one DSE courses Or One from the GE courses of other department</i>	Theory	4
		DSE-2	Ergonomics and Appropriate Household Technologies		Theory	4
		GE-3	<i>Home science students will choose GE subject from other department</i>			
		IAPC	Internship/Apprenticeship /Project/Community Outreach	Practical	2	

		Or SEC-3	Or Early Childhood Care and Education	Or Theory	2
IV		DSC-10	Introductory Textile Science	Theory	4
		DSC-11	Management of Child Care Center and Nursery School	Theory	4
		DSC-12	Practical based on Introductory Textile Science & Management of Child Care Center and Nursery School	Practical	4
		DSE-3	Community Nutrition	Theory+ Practical	2+2
		DSE-4	Family Financial Management & Consumer Economics		
		GE-4	<i>Home science students will choose GE subject from other department</i>		
		IAPC Or SEC-4	Internship/Apprenticeship /Project/Community outreach Or Diffusion and Adoption of Homestead Technologies	Practical Theory	2 2

Students on exit shall be awarded Undergraduate Diploma in Home Science after securing the requisite 88 credits on completing semester IV

Bachelor in Home Science (Honours)

V		DSC-13	Therapeutic Nutrition and Diet Counseling	Theory	4
		DSC-14	Fabric Formation and Finishes	Theory	4
		DSC-15	Practical based on Therapeutic Nutrition and Diet Counseling & Fabric Formation and Finishes	Practical	4
		DSE-5	Entrepreneurship Development	Theory + Practical	3+1
		DSE-6	Population and Family Life Education		
			<i>Home Science students can choose from any one DSE courses Or One from</i>		

THIRD YEAR				<i>the GE courses of other department</i>			
		GE-5	<i>Home science students will choose GE subject from other department</i>				
		IAPC	Internship/Apprenticeship/ Project/Community outreach		Practical	2	
		Or	Or				
		SEC-5	Sustainable Development		Theory	2	
		DSC-16	Food Science		Theory	4	
	VI	DSC-17	Fundamentals of Housing and Interior Decoration		Theory	4	
		DSC-18	Practical on Fundamentals of Housing and Interior Decoration		Practical	4	
		DSE-7	Textile Designing & Use of CAD	<i>Home Science students can choose from any one DSE courses Or One from the GE courses of other department</i>	Theory+ Practical	2+2	
		DSE-8	Introduction to Extension Education		Theory	4	
			GE-6	<i>Home science students will choose GE subject from other department</i>			
			IAPC	Internship/Apprenticeship /Project/Community outreach		Practical	2
			Or	Or			
	SEC-6	Food Authenticity and Fraud Detection		Theory+ Practical	1+1		

Students on exit shall be awarded Bachelor in Home Science (Honours) after securing the requisite 132 credits on completing semester VI

Programme Specific Outcomes (PSOs) (Undergraduate Programme)**After this programme the learners will be able to:**

PSO 1	The courses are structured according to the industry-academia requirements and global world.
PSO 2	Courses offered by the college are absolutely in tune with its goals and objectives of generating employment, generating skills, entrepreneurship and sustainable development.
PSO 3	Home Science is a unique and follows interdisciplinary approach in synthesizing knowledge drawn from all fields of sciences, humanities and creative arts which has enriched its educational programs still including the Indian traditional in its curriculum.
PSO 4	It also caters to the present day needs of multidisciplinary education and provides solutions in societal and environmental contexts and demonstrate the knowledge and need for sustainable development.
PSO 5	To cater to the needs of Textiles and Apparel industry, the Clothing and Textiles department has focused course in Apparel and Textile Design.
PSO 6	It inculcates an awareness of current trends, new developments and technological changes in the field of fabric and apparel industry.
PSO 7	The curriculum equips the students with the knowledge and skills necessary for creative, managerial and technical careers as well as entrepreneurship in the field of Textiles and Apparel industry.
PSO 8	The curriculum of Nutrition has a strong practical base to keep pace with the dynamics and changing educational and professional needs in the field of nutrition and health care.
PSO 9	It trains the students as nutritionists and health experts to work in various health clubs, hospitals, schools, colleges, Non-Governmental Organizations.
PSO 10	The course of Human Development and Family Relations provides an in- depth knowledge and skill training to students.
PSO 11	Human Development and Family studies provides scope for the students to work with various agencies dealing with Child Welfare, Social Welfare, Education and Human Development. Students also get placements in various Non-Governmental Organizations, hospital setups, and institutes of higher education.
PSO 12	The course has scope for numerous job opportunities in private (corporate and commercial) and public sector related to Interior design area.
PSO 13	Students can work as freelancers and can also be co-workers with architects, interior decorators and real estate companies, teachers in schools, colleges and Polytechnic institutes.
PSO 14	The course makes students familiar with a wide array of subjects to equip them with challenging tasks in the modern day world. The course enables them to take up specializations in Honours degree or any of the two master programs offered by the institute.

Department of Home Science
Semester-I
Undergraduate Certificate in Home Science
DISCIPLINE SPECIFIC COURSE (DSC-1) - Principles of Nutrition
No. of Hours- 60

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-1 Principles of Nutrition	4	4	0	0	Passed class XII with Science, Arts and Commerce	Nil

UNDERGRADUATE CERTIFICATE IN HOME SCIENCE

Programme/Class: Certificate in Home Science	Year: First	Semester: 1st Paper- DSC-1
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Subject : Home science

Course- DSC-1

Course Title: Principles of Nutrition

Course outcomes: After studying this course, the students will be able:

- To understand the principles and basic knowledge about nutrients.
- To understand the role of essential nutrients (macro and micro) in human nutrition.

Credits: 4

Discipline Specific Course

Max. Marks: As per Univ. rules

Min. Passing Marks: As per Univ. rules

Unit	Topics	No. of Hours
Unit I	Food: <ul style="list-style-type: none"> • Definition of food, nutrition, functions of food – Physical, social and mental. • Food groups. Meal planning, balanced diet, nutritional value of food 	10
Unit II	Composition and importance of following foods: <ul style="list-style-type: none"> • Cereals and legumes • Fats and oilseeds • Fruits and vegetables • Milk and milk products • Eggs, meat, fish and poultry • Sugar 	10

Unit III	Macronutrients: <ul style="list-style-type: none"> • Carbohydrates – Classification, sources, functions and requirements • Protein and amino acids – Classification, sources, functions and requirements, nitrogen balance, deficiency of protein. • Fat and lipids- Classification, sources, functions and requirements 	20
Unit IV	Water and electrolytes: <ul style="list-style-type: none"> • Functions, requirements and sources • Water balance Electrolytes: <ul style="list-style-type: none"> • Sodium Chloride, Potassium – sources, RDA, functions 	10
Unit V	Energy: <ul style="list-style-type: none"> • Factor affecting energy requirements. • BMR, DIT(diet induced thermogenesis) 	10

Recommended Readings

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

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-2 Introduction to Clothing Construction	4	4	0	0	Passed class XII with Science, Arts and Commerce	Nil
Programme/Class: Certificate in Home Science		Year: First			Semester: I	
Course: DSC-2		Course Title: Introduction to Clothing Construction				
Course outcomes:						
➤ To develop knowledge about sewing machine, parts of sewing machine, analyze basic constructional processes.						
➤ To develop the skills in clothing construction for children's garments						
Credits: 4			Discipline Specific Course			
Max. Marks: As per Univ. rules			Min. Passing marks: As per Univ. rules			
Unit	Topics					No. of Lectures
I	Sewing machine and its equipment/tools <ul style="list-style-type: none"> • Sewing machine: Parts of machine, their use and care • Tools required: Measuring, drafting, cutting and stitching; 					9
II	Clothing Construction Terminology					8
III	Constructional processes: <ul style="list-style-type: none"> • Hand stitches, • Seam and seam finishes, • disposal of fullness, • Plackets and edge finishing, • Suitability for different fabrics and clothing articles 					15
IV	Preparation of fabric for layout and cutting; stay stitching					6
V	Unit construction method and fitting					6
VI	Importance and function of clothes					6
VII	Clothing requirements of infants, toddler, pre-school and elementary school children					8
VIII	Anthropometric measurements: Importance and techniques					5
Suggested Readings:						
1. Carson, B. 1969. How you look dress. 4 th Ed. New yark . Webster Division., McGraw-Hill book company						
2. Doongaji, S. and Deshpande, R. Basic process and clothing construction. 2 nd Ed.						

New Delhi, New Raj book Depot.
Lewis, V. S. *Comparative Clothing Construction Techniques*. Surjeet Publication, Delhi
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 Test with multiple choice questions/ short and long answer questions Attendance

Semester-I
Undergraduate Certificate in Home Science
DISCIPLINE SPECIFIC COURSE (DSC-3) – Practical on Introduction
to Clothing Construction

No. of Hours-120

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit distribution of the course			Eligibility Criteria	Pre-Requirement of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
DSC-3 Practical on Introduction to Clothing Construction	4	0	0	4	Passed class XII with science, Arts and commerce	Nil

UNDERGRADUATE CERTIFICATE IN HOME SCIENCE

Programme/Class: Certificate in Home Science	Year: First	Semester: First Paper: DSC-3
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Subject: Home Science

Course: DSC-3	Course Title: Practical based on Introduction to Clothing Construction
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Course outcomes:

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

- To develop knowledge about sewing machine, parts of sewing machine, analyze constructional processes.
- Gain the practical knowledge for construction of children's garments.

Credits: 4	Discipline Specific Course
Max. Marks: As per Univ. rules	Min. Passing Marks: As per Univ. rules

Unit	Topics	No. of Hours
Unit I	Demonstration on: sewing equipment and tools, sewing machine and its care	20
Unit II	Preparation of samples of basic hand stitches, machine stitches, edge finishing, fullness, finishing of necklines, placket opening, fasteners, mending and patching	20
Unit III	Demonstration on the preparation and layout of the different fabrics of plain, print, plaid, check and lines	20
Unit IV	Introduction to anthropometric measurement	20

Unit V	Drafting, cutting and stitching of different children's garments <ul style="list-style-type: none"> • Bib, • Panty, • Bloomer, • Jhabla, • Frock 	20
Unit VI	Stitching of <ul style="list-style-type: none"> • Apron, • Hand bag or Laundrybag 	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 equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in

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Semester-I

Undergraduate certificate in Home Science

SKILL ENHANCEMENT COURSE (SEC-1) - Personality Development

No. of Hours: 30

CREDIT DISTRIBUTION, ELIGIBILITY AND 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		
SEC-1 Personality Development	2	2	0	0	Passed class XII with Science, Arts and Commerce	Nil
UNDERGRADUATE CERTIFICATE IN HOME SCIENCE						
Programme/Class: Certificate in Home Science	Year: First			Semester: First Paper- SEC-1		
Subject : Home science						
Course: SEC-1		Course Title: Personality Development				
Course outcomes: The students at the completion of the course will be able to:						
<ul style="list-style-type: none"> ● Develop understanding of the concepts and principles of basic psychological skills ● Apply techniques and methods to enhance productivity and time management ● Develop critical thinking skill and organize human resources with improved leadership qualities 						
Credits:2				Skill Enhancement Course		
Max. Marks: As per Univ. rules				Min. Passing Marks: As per Univ. rules		
Unit	Topics					No. of Hours
Unit I	Interpersonal Skills: a) Communication-Concept and characteristics b) Effective communication c) Skills for successful interview d) Leadership					5
Unit II	Self-development skills: a) Introduction to personality b) Types of personality c) Trace of personality d) Self-confidence					5

Unit III	Critical Thinking and Human resources: a) Logical fallacies b) Cognitive biases c) Mental Model d) Critical Thinking e) Evaluation and improvement	8
Unit IV	Dealing Negativity: a) Work-life balance b) Stress management c) Coping with failures and depression.	5
Unit V	Goal-setting a) Concept of goal-setting b) Importance of goal-setting c) Types of goal d) Time-management	7

Recommended Readings:

1. Bast,F.(2016). Crux of time management for students. Available at: <https://www.ias.ac.in/article/fulltext/reso/021/01/0071-0088>
2. Cialdini, R.B. (2001). Influence: The Psychology of Persuasion, Revised Edition. Harper Collis.
3. Green, C.J. (2015). Leadership and soft skills for students: Empowered to succeed in High School, College and beyond. Dog Ear Publishing.
4. Velayudhan, A. and Amudha devi, N. V. (2012). Personality Development for College Students. LAP Lambert Academic Publishing.

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

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Semester-II
Undergraduate Certificate in Home Science
DISCIPLINE SPECIFIC COURSE (DSC-4) - Fundamentals of Human Development

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-4 Fundamentals of Human Development	4	4	0	0	Passed class XII with Science, Arts and Commerce	Nil
UNDERGRADUATE CERTIFICATE IN HOME SCIENCE						
Programme/Class: Certificate in Home Science		Year: First			Semester: Second Paper: DSC-4	
Subject: Home Science						
Course: DSC-4		Course Title: Fundamentals of Human Development				
Course outcomes: After studying this course, the students will be able to:						
<ul style="list-style-type: none"> • Define human development and summarize several theories of development. • Apply developmental theories to personal development. 						
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	Importance of human development from a life span perspective, Issues in human development, stages of human 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	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					15
Unit V	Major development theories: <ul style="list-style-type: none"> • Freud's theory • Erikson's theory • Piaget's theory • Kohlberg's theory 					15
Recommended Readings:						
<ul style="list-style-type: none"> • 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

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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, ELIGIBILITY AND 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-5 Household Dynamics and Management of Resources	4	3	0	1	Passed class XII with Science, Arts and Commerce	Nil
UNDERGRADUATE CERTIFICATE IN HOME SCIENCE						
Programme/Class: Certificate in Home Science				Year: First		Semester: Second Paper: DSC-5
Subject: Home Science						
Course: DSC-5				Course Title: Household Dynamics and Management of Resources		
Course Outcomes: After studying this course, the students will be able to:						
<ul style="list-style-type: none"> • 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. Marks: As per Univ. rule			Min. Passing Marks: As per Univ. rules			
Unit	Topics					No. of Hours
Unit I	Family: Meaning, definition, classification, functions of family and family life cycle.					5
Unit II	Management concepts: Meaning of management, purpose of home management, major home and family responsibilities.					10
Unit III	Motivating factors for management: Values, Goals and Standard, Decision making: Decision making process, Role and scope of decision making, Classification of decision, methods of resolving conflicts.					10
Unit IV	Management process: Meaning, importance, and steps of management process. System approach to management: System concepts applied to households.					5

Unit V	Energy management: Fatigues, and its types, work simplification and its techniques, Mundel's classes of change, Inter linking time and energy resources.	10
Unit VI	Time management: Time demands in different stages family life cycle, Time Plan and Tools of Time management	5
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

Recommended Readings:

- 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 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-6) - Communication and
Instructional Technology

No. of Hours-120

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-6 Communication and Instructional Technology	4	0	0	4	Passed class XII with Science, Arts and Commerce	Nil
UNDERGRADUATE CERTIFICATE IN HOME SCIENCE						
Programme/Class: Certificate in Home Science		Year: First		Semester: Second Paper: DSC-6		
Subject: Home Science						
Course: DSC-6		Course Title: Communication and Instructional Technology				
Course outcomes: The student at the completion of the course will be able to: <ul style="list-style-type: none"> • To develop understanding of communication process. • To develop understanding about different types of audio visual aids. 						
Credits: 4		Discipline Specific Course				
Max. Marks: As per Univ. rule		Min. Passing Marks: As per Univ. rules				
Unit	Topics					No. of Hours
	Practical					
Unit I	Communication-meaning, function and barriers. Elements of communication process. Audio-visual aids -meaning, classification, advantages and limitations Preparation and use of instructional media: Charts, Posters, Flash cards, Graphs, Models, leaflets and use of Bulletin board					40
Unit II	Demonstration as an instructional technology					20
Unit III	Organizing and participating in various types of group discussions					20
Unit IV	Preparation of radio talk scripts on various topics					20

Unit V	Visit to communication centre, Familiarization of radio, T.V and video equipments and programme production.	20
<p>Recommended Readings:</p> <ul style="list-style-type: none"> • 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. <p>Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in</p> <p>Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus <input type="checkbox"/> Test with multiple choice questions/ short and long answer questions <input type="checkbox"/> Attendance</p>		

Semester- II
Undergraduate Certificate in Home Science
Skill Enhancement Course (SEC-2) - Fashion Apparel Designing

No. of Hours-45

CREDIT DISTRIBUTION, ELIGIBILITY AND 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		
SEC-2 Fashion Apparel Designing	2	1	0	1	Passed class XII with Science, Arts and Commerce	Nil
UNDERGRADUATE CERTIFICATE IN HOME SCIENCE						
Programme/Class: Certificate in Home Science			Year: First		Semester: Second	
Subject : Home science						
Course SEC-2				Course Title: Fashion Apparel designing		
Course outcomes: After studying this course, the students will be able to: <ul style="list-style-type: none"> ➤ Gain the practical knowledge for construction of children's garments. ➤ Create skilled candidate who could work from home too or they can establish their own boutique. ➤ Many standard companies provides lots of opportunity in this area. 						
Credits: 2				Skill Enhancement Course		
Max. Marks: 100				Min. Passing Marks: As per Univ. rules		
Unit	Topics					No. of Lectures
Unit I	Introduction To Indian Fashion Industry, The basics of designing, elements of art and principles of design. The process of designing apparels.					5
Unit II	Fabric types, fabric preparatory steps for stitching a garment- preshrinking, straightening, layout, pinning, marking, and cutting, handling different fabrics for clothing construction.					5
Unit III	Fundamentals of sewing, appropriate sewing techniques of different components of garments, seams and its finishing, attaching different fasteners, disposal of fullness-darts, gathers, tucks and pleats, neckline finishing.					5
	Practical					
Unit I	Introduction to anthropometric measurement Collection of different types of fabrics					10
Unit II	Preparation of samples of basic hand stitches, machine stitches, edge finishing, fullness, finishing of necklines, placket opening, fasteners, mending and patching					10

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 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, ELIGIBILITY AND 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-7 Food Processing and storage	4	4	0	0	Passed class XII with science, Arts and commerce	Nil
Programme/Class: Diploma in Home Science		Year: Second			Semester: Third	
Course Code: DSC-7		Course Title: Food Processing and Storage				
Course outcomes: The Student at the completion of the course will be able to: <ul style="list-style-type: none"> ➤ Apply the 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		Discipline Specific Course				
Max. Marks: As per Univ. rules		Min. Passing marks: As per Univ. rules				
Unit	Topics					No. of Lectures
I	Food Processing: <ul style="list-style-type: none"> • Introduction • Role • Importance • Principles 					10

II	Different processing methods of foods- <ul style="list-style-type: none"> • Pounding • Milling • Puffing • Cooking • Parboiling • Fermentation • Sprouting • Malting 	10
III	Processing of milk products and their effect on nutritional quality characteristics.	10
IV	Processing of oilseeds for extraction of oils and use of oilseed cakes in human nutrition.	10
V	Food Preservation- <ul style="list-style-type: none"> • Definition • Objectives • Principles of food preservation • Methods of food preservation 	10
VI	Storage of Foods <ul style="list-style-type: none"> • 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

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-Spensen, 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 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
DISCIPLINESPECIFIC COURSE (DSC-8) - Indian Embroidery and Traditional Textiles

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-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: Third	
Course Code: DSC-8		Course Title: Indian Embroidery and Traditional Textile				
Course outcomes: The Student at the completion of the course will be able to: <ul style="list-style-type: none"> ➤ 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. rules			Min. Passing marks: As per Univ. rules			
Unit	Topics					No. of hours
I	Traditional woven textiles of India: <ul style="list-style-type: none"> • Hand woven Sarees: Dacca muslin and Jamdani saree, Baluchar sarees, Pochampalli sarees, Patola and Ikat sarees, Kanchipuram sarees, Chanderi sarees, Maheswari sarees, Vichitrapuri sarees and Brocades, Hand woven shawls of Kashmir, Himachal Pradesh and North Eastern states. 					10
II	Printed and Painted textiles: <ul style="list-style-type: none"> • Printed Textiles: Block printed textiles, Tie and dyed textiles • Painted Textiles: Kalamkari and Madhubani 					10
III	Embroideries of states of India: <ul style="list-style-type: none"> • Kashida of Kashmir, • Chamba Rumal, • Phulkari and Bagh of Punjab, • Embroideries of Gujarat, • Chikankari and Zari work of Uttar Pradesh, • Kanthas of Bengal, 					10

	<ul style="list-style-type: none"> • Manipuri Embroidery, • Kasuti of Karnataka, • Embroidery and Patchwork of Bihar 	
IV	Traditional costumes of India: <ul style="list-style-type: none"> • 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 Albert Museum
2. Chattopadhyay, K. 1985. The Glory of Indian Handicraft. New Delhi. Calrian book.
3. Flynn, 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. Syngé, L. (2005). Art of Embroidery: History of style and Technique. New York: ACC Art Book
7. Shailaja D. Naik. 1996. Traditional Embroideries of India. APH publishing.

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-9)- Practical based on Food Processing and Storage & Indian Embroidery and Traditional Textiles

No. of Hours- 120

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-9 Practical based on Food Processing and Storage & Indian Embroidery and Traditional Textiles	4	0	0	4	Passed class XII with Science, Arts and Commerce	Nil

UNDERGRADUATE DIPLOMA IN HOME SCIENCE

Programme/Class: Diploma in Home Science	Year: Second	Semester: Third Paper: DSC-9
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Subject: Home science

Course: DSC-9

Course Title: Practical based on Food Processing and Storage & Indian Embroidery and Traditional Textiles

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.
- 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. rule

Min. Passing Marks: As per Univ. rules

Unit	Topics	No. of hours
I	Preparation of popped corn and sorghum.	6
II	Dehydration and drying of vegetables: green leafy vegetables, tubers and others.	6
III	Preparation and bottling of tomato sauce, fruit jam, squash and Jellies	20
IV	Preparation of fermented food- <i>dhokla, idli</i> .	6
V	Preparation of wheat malt.	12
VI	Visit to a food processing industry	10
VII	Sample preparation of traditional Indian embroideries and Machine embroideries	20
VIII	Preparation of two articles using different hand embroideries	20
IX	Documentation of Indian textiles and costumes	20

Recommended Readings:

- 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.
- Crill, R. (1999). Indian Embroidery. London: Victoria and Albert Museum
- Synge, L. (2005). Art of Embroidery: History of style and Technique. New York: ACC Art Book
- Shailaja D. Naik. 1996. APH publishing. Traditional Embroideries of India.
- John Gillow. 1991. Indian Textiles.

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 ELECTIVE (DSE-1)- Life Span
Development

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY AND 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 Life Span Development	4	4	0	0	Passed class XII with science, Arts and commerce	Nil
UNDERGRADUATE DIPLOMA IN HOME SCIENCE						
Programme/Class: Diploma in Home Science		Year: Second			Semester: Third Paper: DSE-1	
Subject: Home Science						
Course: DSE-1		Course Title: Life Span Development				
Course outcomes: The Student at the completion of the course will be able to:						
<ul style="list-style-type: none"> • Learn about different stages of human development through life. • Learn about factors that affect different developmental stages 						
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	Prenatal development stages: Genetic and environmental influences on prenatal development					5
Unit II	Neonate (neonate up to 4 weeks): physical, sensory, cognitive and social development. Infancy (Four weeks up to 2 years): physical and motor, social and emotional, cognitive and language development					10
Unit III	Early childhood years(2-6 years): physical and motor, social, emotional, cognitive and language development.					5
Unit IV	Middle childhood: <ul style="list-style-type: none"> • Physical and motor development • Language and intellectual development • Emotional development; • Social and moral development 					10
Unit V	Adolescence: <ul style="list-style-type: none"> • Characteristics of adolescence • Physical, social, cognitive and emotional development • Issues in adolescence, identity crisis 					10

Unit VI	Adulthood: <ul style="list-style-type: none"> • Characteristics of adulthood • Physical, intellectual, cognitive and personality development 	10
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Unit VII	Old age: <ul style="list-style-type: none"> • Characteristics of old age • 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 	10
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Recommended Readings:

- 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) *Learning 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 Test with multiple choice questions/ short and long answer questions Attendance

Semester-III
Undergraduate Diploma in Home Science
DISCIPLINE SPECIFIC ELECTIVE (DSE-2) - Ergonomics
and Appropriate Household Technologies

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-2 Ergonomic and Appropriate Household Technologies	4	4	0	0	Passed class XII with Science, Arts and Commerce	Nil
UNDERGRADUATE DIPLOMA IN HOME SCIENCE						
Programme/Class: Diploma in Home Science			Year: Second		Semester: Third Paper: DSE-2	
Subject: Home Science						
Course: DSE-2			Course Title: Ergonomics and Appropriate Household Technologies			
Course outcomes: The Student at the completion of the course will be able to:						
<ul style="list-style-type: none"> • To acquaint with anthropometry studies related to man machine and environment system interactions. • To study about the drudgery reduction appropriate technologies • To acquaint with renewable and nonrenewable energy saving technologies 						
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	Introduction <ul style="list-style-type: none"> • Concept of ergonomics • Origin and historical perspective • Scope of ergonomics • Need and importance of ergonomics • Element of ergonomics: Work and work environment, Anthropometry and biomechanics, Human factors and Human engineering 					10
Unit II	Work Consideration <ul style="list-style-type: none"> • Work, Energy Cost of Work, • Methods of calculating energy cost of work • Technology used for calculating Energy cost work 					10

Unit III	Worker's consideration in work space design <ul style="list-style-type: none"> • Anthropometric consideration • Component of worker • Work habits • Work posture • Equipment and clearance • Factors affecting work capacity 	10
Unit IV	Workplace <ul style="list-style-type: none"> • Work place: Center Concepts, Principles of arrangement, • Functional design and arrangement of work places. • Environmental factors influencing work 	5
Unit V	Fatigue and Drudgery <ul style="list-style-type: none"> • Definition of Fatigues, types of fatigues, methods of relieving from fatigues • Work simplification techniques • Mundel's classes of chang Definition, drudgery prone areas in home • Appropriate technologies for drudgery reduction of women in household 	15
Unit VII	Energy sources <ul style="list-style-type: none"> • Renewable and nonrenewable energy saving technologies used in home • Ways and methods in the reduction of energy consumption in household 	10

Recommended Readings:

- 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. Sandersand Ernest.J.Mc.Cormick,"Human Factors in Engineering and Design." Mc. Graw Hall Inc, New York, 1992.
- Pheasant S,"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

SKILL ENHANCEMENT COURSE (SEC-3) - Early Childhood Care and Education

No. of Hours-30

CREDIT DISTRIBUTION, ELIGIBILITY AND 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		
SEC-3 Early Childhood Care and Education	2	2	0	0	Passed class XII with science, Arts and commerce	Nil
Undergraduate Diploma in Home Science						
Programme: Undergraduate Diploma in Home Science		Year: Second			Semester: Third Paper: SEC-3	
Subject- Home Science						
Course- SEC-3		Course Title: Early Childhood Care and Education				
<ul style="list-style-type: none"> ➤ To develop an understanding regarding the significance of early childhood years. ➤ To equip the students to plan and conduct Early Childhood care and Education Programme 						
Credits: 2		Skill Enhancement Course				
Max. Marks: As per Univ. rules		Min. Passing Marks: As per Univ. rules				
Unit	Topics					No. of hours
I	Early Childhood Care and Education: Meaning, importance, need and scope of ECCE					3
II	Origin of early childhood education in India and abroad: <ul style="list-style-type: none"> • Status of ECE - Pre independence period • Status of ECE during Post independence Period 					3
III	Types of Pre School programmes: <ul style="list-style-type: none"> • Montessori • Kindergarten • Nursery • Pre-Basic • Balwadi 					5

IV	Contribution of Indian and Western philosophers in ECCE: <ul style="list-style-type: none"> • Contributions of Mahatma Gandhi, Rabindranath Tagore, Tarabai Modak, John Amos Commonius, Jean Jacques Rousseau, Henry Pestalozzi and Maria Montessori in ECCE 	5
V	The play-way method for ECE: <ul style="list-style-type: none"> • Origin of the Term Play-Way • Selection of Play-Way Activities • Various types of Play-Way Activities • Principles of Play-Way • Advantages of Play-Way 	8
VI	Qualities of an ECE Teacher: <ul style="list-style-type: none"> • Important characteristics of an early childhood teacher • Teacher's role in promoting learning 	3
VII	Records and Reports maintained in ECE center	3

References

- Bhatia & Bhatia (1995). Theory and principles of Education, Doaba House, Delhi.
- Brewe, J.A. 1998 Introduction to early childhood Education 3rd Ed. Boton: Ahyn & Bacaon.
- Murlidharan, R. [1996]. Guide to nursery school teacher. New Delhi NCERT.
- Pankajam, G. [1994] Preschool Education. Ambala: India 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-IV

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

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-10 Introductory Textile Science	4	4	0	0	Passed class XII with science, Arts and commerce	Nil
UNDERGRADUATE DIPLOMA IN HOME SCIENCE						
Programme/Class: Diploma in Home Science			Year: Second		Semester: Fourth Paper: DSC-10	
Subject: Home Science						
Course: DSC-10			Course Title: Introductory Textile Science			
Course outcomes: The Student at the completion of the course will be able to: <ul style="list-style-type: none"> • 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					10
Unit III	Manmade fibers: Rayon, acetate, nylon, polyester, acrylic, glass fibers					10
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	8
Unit X	Additives used in laundry: stiffening and blueing agents	5

Recommended Readings:

- 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

DISCIPLINE SPECIFIC COURSE (DSC-11) – Management of Child Care Center and Nursery School

No. of Hours- 60

CREDIT DISTRIBUTION, ELIGIBILITY AND 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 Management of Child Care Center and Nursery School	4	4	0	0	Passed class XII with science, Arts and commerce	Nil
Undergraduate Diploma in Home Science						
Programme: Undergraduate Diploma in Home Science		Year: Second			Semester: Fourth Paper: DSC-11	
Subject- Home Science						
Course- DSC-11		Course Title: Management of Child Care Center and Nursery School				
Course outcomes: The Student at the completion of the course will be able to: <ul style="list-style-type: none"> • Student will be able to learn about child care centers and its management. • To aware the student about curriculum and planning syllabus 						
Credits: 4		Discipline Specific Course				
Max. Marks: As per Univ. rules			Min. Passing Marks: As per Univ. rules			
Unit	Topics					No. of hours
I	Introduction <ul style="list-style-type: none"> • Child Care Centers and Nursery School • Survey on community needs with regard to day care centre/child care centre. 					5
II	Management of the centre <ul style="list-style-type: none"> • Management committee for administrative task • Layout planning of day care centre/child care centre • Planning policies of the centers • Procedures and rules • Budgeting • Building • Equipments and closed room planning 					10

III	Utilization of resources: <ul style="list-style-type: none"> • Hiring staff • Qualification and salary • Procuring toys • Equipments and furniture • Maintaining records and registers 	10
IV	Training in service staff: <ul style="list-style-type: none"> • Methods of communicating with children • Learning methods of handling children • Setting class room limits • Observing and testing children 	5
V	Involving parents: <ul style="list-style-type: none"> • Building rapport with children • Arranging parent teacher conferences 	5
VI	Curriculum planning for young children: Planning syllabus- <ul style="list-style-type: none"> • Annual • Monthly • Weekly and daily planning of activities 	10
VII	Planning play environment: Preparation and putting up play room for teaching young children, teaching strategies in child care centre. <ol style="list-style-type: none"> a). Play way teaching methods. b). Planning science-nature experiences. c). Planning music dramatization and story session. d). Putting up display of play equipment in classroom and teaching methods. e). Preparation and submission of project report. 	10
VIII	<ul style="list-style-type: none"> • Observation of teaching in Nursery School and Building rapport with the children. • Organizing and participating in the pre-school activities in: <ol style="list-style-type: none"> 1. Laboratory Nursery School. 2. Community Balwadi. 	5

Suggested Readings:

- Contractor, M., 1984, Creative drama and puppetry in education, National book trust of India, Delhi
- Devadas P. Rajammal and N. Jaya (1996), "A Textbook on child development", MacMillan India Ltd. New Delhi.
- Nasim Siddiqi, Suman Bhatia and Suptika Biswas (2007) Early Childhood Care and Education – Book IV, DOABA HOUSE, New Delhi.
- Sen Gupta, M. (2009). Early Childhood Care and Education. New Delhi: PHI Learning Pvt. Ltd.
- Soni, R., 2015, Theme based early childhood care and education programme- A Resource Book, NCERT.

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 Introductory Textile Science and Management of Child Care Center and Nursery School

No. of Hours- 120

CREDIT DISTRIBUTION, ELIGIBILITY AND 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 Practical based on Introductory Textile Science and Management of Child Care Center and Nursery School	4	0	0	4	Passed class XII with science, Arts and commerce	Nil
UNDERGRADUATE DIPLOMA IN HOME SCIENCE						
Programme/Class: Diploma in Home Science			Year: Second		Semester: Fourth Paper: DSC-12	
Subject: Home Science						
Course: DSC-12			Course Title: Practical based on Introductory Textile Science and Management of Child Care Center and Nursery School			
Course outcomes: The Student at the completion of the course will be able to: <ul style="list-style-type: none"> • 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. • Student will be able to learn about child care centers and its management. • To aware the student about curriculum and planning syllabus 						
Credits: 4			Discipline Specific Course			
Max. Marks: As per Univ. Rule			Min. Passing Marks: As per Univ. rules			
Unit	Practical				No. of Hours	
I	Identification of fibers: visual inspection, burning, microscopic and solubility tests				10	
II	Study and identification of common fabrics available in the market and thread count				10	
III	Removal of common stains from fabrics				10	

IV	Demonstration of laundry equipment	10
V	Washing, ironing and finishing of textile articles: cotton, silk, wool, synthetic/blend, zari embroidery and lace articles	10
VI	Visit to Processing unit/ Textile mill	10
VII	Plan out different activities and preparation of teaching aid and play materials for nursery school children	20
VIII	Visit to Day Care Centre and participating in different activities conducted in a nursery school and report writing	- 40

Recommended Readings:

- 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
- Devadas P. Rajammal and N. Jaya (1996), "A Textbook on child development", MacMillan India Ltd. New Delhi.
- Nasim Siddiqi, Suman Bhatia and Suptika Biswas (2007) Early Childhood Care and Education – Book IV, DOABA HOUSE, New Delhi.
- Sen Gupta, M. (2009). Early Childhood Care and Education. New Delhi: PHI Learning 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 Test with multiple choice questions/ short and long answer questions
Attendance

Semester-IV
Undergraduate Diploma in Home Science
DISCIPLINE SPECIFIC ELECTIVE (DSE-3) – Community Nutrition
No. of Hours-30+60

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-3 Community Nutrition	4	2	0	2	Passed class XII with science, Arts and commerce	Nil
UNDERGRADUATE DIPLOMA IN HOME SCIENCE						
Programme/Class: Diploma in Home Science		Year: Second			Semester: Fourth Paper: DSE-3	
Subject: Home science						
Course: DSE-3		Course Title: Community Nutrition				
Course outcomes: The Student at the completion of the course will be able to:						
<ul style="list-style-type: none"> • 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. Marks: As per Univ. Rule		Min. Passing Marks: As per Univ. rules				
Unit	Topics					No. of Hours
I	Role of nutrition education programme in eradication of malnutrition: improving amount and variety of food supplies, improving family income and its influence on nutritional status, improving food consumption to meet individual needs in the family, improving environmental hygiene.					3
II	Planning, implementation and evaluation of a nutrition education programme					2
III	Assessment of nutritional knowledge by informal discussion, simple questionnaire and rapid rural appraisal					3
IV	Introduction to national nutrition programmes and policies programmes for improving nutritional status at national level, ICDS, NRDP, NREP, miscellaneous monofocal programmes.					2
V	Role of international agencies and programmes in community nutrition, FAO, WHO, UNICEF; other voluntary and government agencies.					5
VI	Food production systems in India; Their influence on food supply; major foods and their state wise production in India.					5
VII	Food distribution system: Public Distribution System, Food Corporation of India, intra household distribution and per capita availability of food.					5
VIII	Magnitude of nutrition problem in India: PEM, vitamin A deficiency, endemic goiter, flourosis and lathyrism, strategies for control of malnutrition					5

PRACTICALS

I	Identifying nutritional problems in a community.	10
II	Formulation of nutrition and health related messages for presentation to the community through radio script, popular article, charts/posters; leaflets, games.	20
III	Organization of a campaign in the community through prepared nutrition education media.	10
IV	Evaluation of the programme in the community.	10
V	Visit to an ICDS block/ongoing project site where nutrition education is a part of programme.	10

Recommended Readings:

- 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
DISCIPLINE SPECIFIC ELECTIVE (DSE-4) - Family Financial Management and Consumer Economics

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-4 Family Financial Management and Consumer Economics	4	4	0	0	Passed class XII with science, Arts and commerce	Nil
UNDERGRADUATE DIPLOMA IN HOME SCIENCE						
Programme/Class: Diploma in Home Science		Year: Second			Semester: Fourth Paper: DS E-4	
Subject: Home science						
Course: DSE-4		Course Title: Family Financial Management and Consumer Economics				
Course outcomes: The Student at the completion of the course will be able to:						
<ul style="list-style-type: none"> • 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. Marks: As per Univ. Rule		Min. Passing Marks: As per Univ. rules				
Unit	Topics					No. of Hours
Unit I	Family Finance: Meaning, Definition and importance of family finance, guidelines for family financial management. Family income: Income concepts: productive income, hidden income, money income, real income, psychic income, Analyzing income: income profile, methods of handling 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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

Recommended Readings:

- Maneesha Shukul and Veena Gandotra. (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, egyptankosh.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

SKILL ENHANCEMENT COURSE (SEC-4) – Diffusion and Adoption of Homestead Technologies

No. of Hours – 30

CREDIT DISTRIBUTION, ELIGIBILITY AND 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		
SEC-4 Diffusion and Adoption of Homestead Technologies	2	2	0	0	Passed class XII with Science, Arts and Commerce	Nil
Programme/Class: Diploma in Home Science	Year: Second			Semester: Fourth Paper- SEC-4		
Subject: Home science						
Course SEC-4		Course Title: Diffusion and Adoption of Homestead Technologies				
Course outcomes: After studying this course, the students will be able to:						
<ul style="list-style-type: none"> • Understand the concept, meaning and importance of diffusion and adoption of homestead technologies • Identify factors influencing adoption of homestead technologies 						
Credits: 2				Skill Enhancement Course		
Max. Marks: As per Univ. rules				Min. Passing Marks: As per Univ. rules		
Unit	Theory					No. of Hours
I	Meaning and definition of communication, Elements of communication, Meaning and definition of diffusion -elements of diffusion process					8
II	Meaning of innovation, innovation decision process and stages of innovation decision process, attributes of innovation					8
III	Adoption process and stages of adoption process					6
IV	Meaning and types of demonstration, organizing and conducting group demonstration					8
Recommended Readings:						
<ul style="list-style-type: none"> • Ray, G.L. (2011). Extension communication and management (4th ed.). Kalyani publishers • Dahama, O.P. and Bhatnagar, O.P. (2007). Education and communication for development (2nd ed.). Oxford and IBH Publishing Co. Pvt. Ltd. 						
Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egankosh.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-13) –Therapeutic Nutrition and Diet Counselling

No. of Hours- 60

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-13 Therapeutic Nutrition and Diet Counselling	4	4	0	0	Passed class XII with science, Arts and commerce	Nil

Bachelor in Home Science (Honours)		
Programme/Class: Bachelor in Home Science (Honours)	Year: Third	Semester: Fifth Paper: DSC-13
Subject: Home Science		
Course- DSC-13	Course Title: Therapeutic Nutrition and Diet Counselling	
Credits: 4	Discipline Specific Course	
Max. Marks: As per Univ. Rule	Min. Passing Marks: As per Univ. rules	
Unit	Topics	No. of Hours
I	Introduction: <ul style="list-style-type: none"> • 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
II	Fever: <ul style="list-style-type: none"> • Metabolic alteration • Types of fever • Dietary management of short (typhoid) and long duration fever (tuberculosis) 	10

III	Principles of dietetic management of disorders of the gastrointestinal tract – <ul style="list-style-type: none"> • Gastritis • Peptic ulcer • Diarrhea • Constipation. • Ulcerative colitis • Regional enteritis 	10
IV	Etiology, symptoms, metabolic alterations and nutritional management of liver disease- <ul style="list-style-type: none"> • Hepatitis • Cirrhosis 	5
V	Diabetes mellitus: <ul style="list-style-type: none"> • Clinical characteristics, • risk factors, • dietary management • Complications 	5
VI	Risk factors, metabolic anomalies and principles of nutritional management in- <ul style="list-style-type: none"> • Hypertension • Hyperlipidemias • Atherosclerosis 	9
VII	Nutritional considerations in weight management- <ol style="list-style-type: none"> 1) Obesity: <ul style="list-style-type: none"> • Etiology • Energy balance • Metabolic changes • Dietary management 2) Underweight <ul style="list-style-type: none"> • Etiology • Metabolic changes • Dietary management 	9
VIII	Principles of nutritional therapy in diseases of the kidney- <ul style="list-style-type: none"> • Glomerulonephritis, • Renal failure • Renal calculi. 	2

Recommended Readings

- 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](http://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-14) - Fabric Formation and Finishes

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY AND 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 commerce	Nil
Bachelor in Home Science (Honours)						
Programme/Class: Bachelor in Home Science (Honours)			Year: Third		Semester: Fifth Paper: DSC-14	
Course Code: DSC-14			Course Title: Fabric Formation and Finishes			
Course outcomes: The Student at the completion of the course will be able to:						
<ul style="list-style-type: none"> • 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 Course			
Max. Marks: As per Univ. Rule			Min. Passing Marks: As per Univ. rules			
Unit	Topics					No. of Hours
Unit I	Method of fabric formation: <ul style="list-style-type: none"> • Weaving • Knitting • Non-woven 					15
Unit II	Looms: Shuttle looms, shuttle less looms, gripper loom, rapier loom, water jet and air jet loom					15
Unit III	Introduction to fabric finishes a) Processes of removing impurities from fabrics: scouring, degumming, carbonizing					15

	<ul style="list-style-type: none"> b) Basic finishes that alter hand or texture; felting, singeing, stiffening, decatizing 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 <ul style="list-style-type: none"> • Natural dyes • Syntheticdyes 	15
<p>Recommended Readings:</p> <ul style="list-style-type: none"> • Banerjee, P.K. Principles of Fabric Formation 2014. 1st Edition 19 December 2014. ISBN-13: 978-1466554443 ISBN-10: 1466554444. <p>Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-study-online.com, epg-pathshala, egyankosh.ac.in</p> <p>Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus <input type="checkbox"/> Test with multiple choice questions/ short and long answer questions <input type="checkbox"/> Attendance</p>		

Semester- V
Bachelor in Home Science (Honours)
DISCIPLINE SPECIFIC COURSE (DSC-15) - Practical based on Therapeutic Nutrition and Diet
Counselling & Fabric Formation and Finishes

No. of Hours- 120

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-15 Practical based on Therapeutic Nutrition and Diet Counselling & Fabric Formation and Finishes	4	0	0	4	Passed class XII with Science, Arts and Commerce	Nil
UNDERGRADUATE DIPLOMA IN HOME SCIENCE						
Programme/Class: Bachelor in Home Science (Honours)		Year: Third			Semester: Fifth Paper: DSC-15	
Subject: Home science						
Course: DSC-15		Course Title: Practical based on Therapeutic Nutrition and Diet Counselling & Fabric Formation and Finishes				
Course outcomes: The Student at the completion of the course will be able to:						
<ul style="list-style-type: none"> • 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 Course				
Max. Marks: As per Univ. rule		Min. Passing Marks: As per Univ. rules				
Unit	Topics					No. of Hours
I	Planning normal diet for patients who do not require special diets: adults, children					12
II	Planning soft diet and liquid diets.					12
III	Planning diet in fevers					12
IV	Diet for underweight and obese					14
V	Visit to a Hospital					10
VI	Identification of common textile fibers, yarns and fabrics					20
VII	Preparation of basic weaves on cardboard					15

VIII	Preparation of samples: Screen printing, Block printing, stencil printing, tie and dye and batik with different dyes	15
IX	Visit to Dyeing & Printing	10
<p>Recommended Readings:</p> <ul style="list-style-type: none"> • 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 Edition 19 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 ELECTIVE (DSE-5) Entrepreneurship Development
No. of Hours-45+30

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-5 Entrepreneurship Development	4	3	0	1	Passed class XII with science, Arts and commerce	Nil
Bachelor in Home Science (Honours)						
Programme/Class: Bachelor in Home Science		Year: Third			Semester: Fifth Paper: DSE-5	
Subject: Home Science						
Course: DSE-5		Course Title: Entrepreneurship Development				
Course outcomes: The student at the completion of the course will be able to: <ul style="list-style-type: none"> • 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	Entrepreneurship: concepts, definition, need and significance of entrepreneurship development in India, Entrepreneur-their characteristics, types, Challenges faced by women entrepreneurs.				5	
Unit II	Business organizations: Meaning and definitions, types of business 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.				10	

Unit III	Steps involved in functioning of an enterprise: Selection of the product / services, selection of form of ownership; registration, selection of site, capital sources, legal requirement for starting an enterprise.	10
Unit IV	EDP: Entrepreneurship development program, types of EDPs, role of financial institutions, and other Agencies in entrepreneurship development.	10
Unit V	Enterprise management, Basic management concepts, personnel management, product management, material management, financial management, market management and crises management. natural etc.	10
Practical		
I	Assessment of entrepreneurial traits Thematic Appreciation Test (TAT); Who am I? Paired comparison Test (PCT) Sentence Completion Test (SCT) Risk Taking Behavior (Ring Toss)	5
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

Recommended Readings:

- 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 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 ELECTIVE (DSE-6)-Population and Family Life Education

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-6 Population and Family Life Education	4	4	0	0	Passed class XII with science, Arts and commerce	Nil
Bachelor in Home Science (Honours)						
Programme/Class: Bachelor in Home Science			Year: Third		Semester: Fifth Paper: DSE-6	
Subject: Home Science						
Course: DSE-6			Course Title: Population and Family Life Education			
Course outcomes: The Student at the completion of the course will be able to:						
<ul style="list-style-type: none"> • To understand the perspective of population and its measures, growth and development. • To provide knowledge about the family life education in students. 						
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	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 population a) Measures of mortality and life table b) Measures of fertility and reproduction					10
Unit IV	Population education, Meaning of population education, need and importance of population education					10

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

Recommended Readings:

- 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

SSemester-V
Bachelor in Home Science (Honours)
SKILL ENHANCEMENT COURSE (SEC-5) – Sustainable Development

No. of Hours- 30

CREDIT DISTRIBUTION, ELIGIBILITY AND 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		
SEC-5 Sustainable Development	2	2	0	0	Passed class XII with Science, Arts and Commerce	Nil
BACHELOR IN HOME SCIENCE (HONOURS)						
Programme/Class: Bachelor in Home Science (Honours)			Year: Third		Semester: V Paper- SEC-5	
Subject : Home science						
Course SEC-5		Course Title: – Sustainable Development				
Course outcomes: After studying this course, the students will get to know about the- <ul style="list-style-type: none"> • Importance and need of sustainable approaches in today's consumerist era. • They will also know about the efforts attempted on international as well as on national level for optimum utilization of resources through viable technique. 						
Credits: 2			Skill Enhancement Course			
Max. Marks: As per Univ. rules			Min. Passing Marks: As per Univ. rules			
Unit	Topics					No. of Hours
Unit I	Sustainable Development: Meaning, Concept, Definition, History, Components and Scope; Ecology and Environmental conservation, Biodiversity loss and ecological imbalance; Sustainable Development Goals. UNFCCC, COP, IPCC.					10
Unit II	Challenges to Sustainable Development; Sustainable Agriculture and forestry; Sustainable resource utilization: Water, mineral, soil and forest; Human Development; The human right to health and education; Poverty and disease.					10
Unit III	Inclusive Development: Education, Health; Climate Change: Carrying Capacity; Sustainable Development Policies and Programmes, Summits related to environment: Stockholm conference, Montreal Protocol, Brundtland Commission, Earth Summit, Paris Agreement (COP 21); NITI Aayog and Sustainable Development; National Environmental Policy.					10

Suggested Readings:

1. G. Arjun, Sarkar A. & others (2019): Environmental Issues & Sustainable Development, Notion India Press, Chennai
2. Ahlawat, A. (2019): Sustainable development Goals, Notion India Press, Chennai
3. Ossewarde, M.J. (2018): Introduction to Sustainable Development, Sage Publication, New Delhi
4. Mishra, J. (2018): Growth with Sustainability, Notion India Press
5. Sedana, N. & Indapurkar, K.: Sustainable Development Goals, Bloomsberry Publication House, London

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, ELIGIBILITY AND 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 Science	4	4	0	0	Passed class XII with science, Arts and commerce	Nil

BACHELOR IN HOME SCIENCE (HONOURS)		
Programme/Class: Bachelor in Home Science	Year: Third	Semester: Sixth Paper: DSC- 16
Subject: Home Science		
Course- DSC-16	Course Title: Food Science	
Course outcomes: The Student at the completion of the course will be able to: <ul style="list-style-type: none"> • 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. Marks: As per Univ. Rule	Min. Passing Marks: As per Univ. rules	
Unit	Topics	No. of Hours
I	Introduction to Food Science <ul style="list-style-type: none"> • Properties of foods • Functions of foods • Factors affecting appearance, taste, texture, flavor, color. 	4
II	Changes during food processing and storage in – <ul style="list-style-type: none"> • Fruits and vegetables; • milk and milk products; • meat and poultry; fish, eggs, • cereals and legumes; • nuts; oilseeds and spices. 	5

III	Carbohydrates- <ul style="list-style-type: none"> • Functional role of sugars in foods- sweetness, texture, preservation, preservation, fermentation, appearance, maillard reaction, caramelization, freezing point, antioxidant activity, miscellaneous activity; sweetness; invert sugar. 	5
IV	Proteins- <ul style="list-style-type: none"> • Functional properties of protein- hydration properties, precipitation, viscosity, gelation, texturization, dough formation, surface properties. 	6
V	Lipids- <ul style="list-style-type: none"> • Functional properties of lipids- deep fat frying, deteriorative changes in fats/ oils, antioxidants 	6
VI	Food polysaccharides- <ul style="list-style-type: none"> • Functional properties of starch; hydrocolloids, non-starch polysaccharides, gums. 	4
VII	Role of water in foods- <ul style="list-style-type: none"> • Free water and bound water • Functional properties • Water activity • Intermediate moisture foods. 	6
VIII	Sols, gel, emulsion; colloids, colloidal system, properties of solutions, foams.	4
IX	Enzymes and pigments: Biotechnological applications of enzymes; Natural pigments- sources and uses.	4
X	Sensory evaluation- <ul style="list-style-type: none"> • Importance • Sensory panel • Sample preparation • Hedonic scale 	6
XI	Visit to Milk Processing Unit	10

Recommended Readings:

- 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, egyptankosh.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, ELIGIBILITY AND 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-17 Fundamentals of Housing and Interior Decoration	4	4	0	0	Passed class XII with science, Arts and commerce	Nil
Bachelor in Home Science (Honours)						
Programme/Class: Bachelor in Home Science (Honours)		Year: Third			Semester: Sixth Paper: DSC-17	
Subject: Home Science						
Course- DSC-17		Course Title: Fundamentals of Housing and Interior Decoration				
Course outcome: The Student at the completion of the course will be able to: <ol style="list-style-type: none"> 1. To learn about elements and principles of art and their application in interior designing. 2. To gain better understanding of interior enrichment. 						
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 to interior planning and decoration <ul style="list-style-type: none"> • Importance of interior planning and decoration • Current trends in interior decoration 					5
Unit II	<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • Characteristics of colour • Qualities of colour 					5

	<ul style="list-style-type: none"> • 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	<p>Planning for various background areas of the house and their treatment</p> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<p>Home</p> <ul style="list-style-type: none"> • 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	<p>Types of house planning</p> <ul style="list-style-type: none"> • Floor plan, • Site plan, • Cross sectional plan, • Perspective plan, • Elevation plan • Landscape plan. 	10
Unit VIII	<p>Housing finance</p> <ul style="list-style-type: none"> • Government and non- government finance institutes. • Housing schemes 	5
Unit IX	<p>Technology in housing</p> <ul style="list-style-type: none"> • Advance technology in housing construction • Low cost building technology • Low cost building materials. 	5

Recommended Readings

- 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 on Fundamentals of Housing and Interior Decoration

No. of Hours-120

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-18 Practical on Fundamentals of Housing and Interior Decoration	4	0	0	4	Passed class XII with Science, Arts and Commerce	Nil
Bachelor in Home Science (Honours)						
Programme/Class: Bachelor in Home Science (Honours)		Year: Third			Semester: Sixth Paper: DSC-18	
Subject: Home Science						
Course- DSC-18		Course Title: Practical on Fundamentals of Housing and Interior Decoration				
Course outcome: The Student at the completion of the course will be able to: <ol style="list-style-type: none"> 1. To learn about elements and principles of art and their application in interior designing. 2. To gain better understanding of interior enrichment. 						
Credits: 4		Discipline Specific Course				
Max. Marks: As per Univ. Rules		Min. Passing Marks: As per Univ. rules				
Unit	Topics					No. of Hours
Unit I	Development of motif for primary, secondary and tertiary colours					10
Unit II	Drawing colour wheel, colour schemes, values and intensity scale					10
Unit III	Drawing for arrangement of furniture in different rooms, Bed Room, Kitchen, Drawing Room and Study Room					10

Unit IV	Drawings for different surface arrangements of interiors a) Arrangement of walls b) Arrangement of floors c) Ceiling arrangements	20
Unit V	Market survey– different types of wall and floor coverings.	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

Recommended Readings

- 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 ELECTIVE (DSE-7)- Textile Designing and Use of CAD

No. of Hours-30+60

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-7 Textile Designing and Use of CAD	4	2	0	2	Passed class XII with science, Arts and commerce	Nil
Bachelor of Home Science (Honours)						
Programme/Class: Bachelor of Home Science		Year: Third			Semester: Sixth Paper: DSE-7	
Subject: Home science						
Course-DSE-7		Course Title: Textile Designing and Use of CAD				
Course outcomes: The Student at the completion of the course will be able to:						
<ul style="list-style-type: none"> • To introduce them about various advanced Textile and Apparel Designing software packages and develop the creativity of the students in use of CAD software. 						
Credits: 4			Discipline Specific Elective			
Max. Marks: As per Univ. Rules			Min. Passing marks: As per Univ. Rules			
Unit	Topics					No. of Hours
Unit I	Introduction to textile designs <ul style="list-style-type: none"> • Woven design: simple and compound structures of the fabric • Decorative designs: Ethnic designs, historic designs, contemporary designs, abstract designs, stylized designs, geometric designs, naturalistic designs, Realistic designs 					6
Unit II	Application of various design elements and principles in textile designing					6
Unit III	Fancy and ornamental weaves: Pile weave, leno weave, tapestry weave, dobby, jacquard weave and extra yarn figuring					6
Unit IV	Automatic Printing techniques: Roller, screen, heat transfer printing, flock printing, resist printing.					4

Unit V	Basics of Design and Repeat software: Types of design repeats, Tools for designing, Drawing and Editing different menus	4
Unit VI	Creating and editing motifs, Adaptation of basic motif for design organization, use of computer colour palette for colouring the designs	4
Practical		
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 <ul style="list-style-type: none"> • Colour Wheel and Colour Scheme • Harmony according to colour wheel 	5
Unit V	Design development: All over design, Border design, Spot design and Pallav design	5
Unit VI	Design Development from Basic Motifs	5
Unit VII	Weaving: Graphical representation of straight draft plan, lift plan and tie-up of plain weave and its variations	5
Unit VIII	Creating library for various designs (Ethnic designs, historic designs, contemporary designs, Abstract designs, Stylized designs, Geometric designs, Naturalistic designs, Realistic designs)	5
Unit IX	Preparing two dress material/household articles using CAD software.	5
Unit X	Visit to Fashion Institute	10

Suggested Readings:

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

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 (Honors)
DISCIPLINE SPECIFIC ELECTIVE (DSE-8) - Introduction to Extension Education

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY AND 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-8 Introductio n to Extension Education	4	4	0	0	Passed class XII with science, Arts and commerce	Nil
Bachelor in Home Science (Honours)						
Programme/Class: Bachelor in Home Science (Honours)			Year: Third		Semester:Sixth Paper: DSE-8	
Subject: Home Science						
Course: DSE-8			Course Title: Introduction to Extension Education			
Course outcomes: The Student at the completion of the course will be able to:						
<ul style="list-style-type: none"> • To understand the concept, philosophy, principles and objectives of extension education and its contribution. • To learn and understand about the audio visual aids 						
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	History and concept of extension education, objectives, functions and philosophy of extension education, Principles of extension education.					15
Unit II	Pre and post Independence Extension and Rural Development Programmes: Gurgaon project, Seva-gram experiment, Sri nicketan experiment, Marthandam and Firka Vikas Yojana					15
Unit III	Audio visual aids (AV aids): classification, importance, merits and demerits.					15

Unit IV	Extension teaching methods: classification, merits and limitations of extension teaching methods.	15
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Recommended Readings:

- 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, New Delhi.
- 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-VI
Bachelor in Home Science (Honours)
SKILL ENHANCEMENT COURSE (SEC-6) - Food Authenticity and Fraud Detection

No. of Hours –

15+30 DISTRIBUTION ELIGIBILITY AND 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 / Practic e		
SEC- 6 Food Authenticity and Fraud Detection	2	1	0	1	Passed class XII with Science, Arts and Commerce	Nil
Programme/Class: Bachelor in Home Science (Honours)			Year: Third		Semester: Sixth Paper-SEC-6	
Subject: Home science						
Course SEC-6			Course Title: Food Authenticity and Fraud Detection			
Course outcomes: The student at the completion of the course will be able to:						
<ol style="list-style-type: none"> 1. Understand the concepts of food authenticity and fraud. 2. Identify the types of food fraud and their impact on the food industry. 3. Analyze the methods and techniques used to detect food adulteration. 4. Evaluate the role of food authenticity and fraud detection in ensuring food safety and quality. 						
Credits:					Skill Enhancement Course	
Max. Marks: 100					Min. Passing Marks: As per Univ. rules	
Unit	Topics					No. of Hours
Unit I	Definition of food authenticity and fraud, The significance of food authenticity in consumer safety, quality assurance, and regulatory compliance					5
Unit II	Common types of food fraud: Adulteration, mislabeling, substitution, counterfeiting, and dilution					5
Unit III	Supply chain management and traceability, Quality control and quality assurance, Regulatory frameworks and enforcement					5

	Practical	
Unit I	Identification of common types of food fraud: Adulteration, mislabeling, substitution, counterfeiting, and dilution	10
Unit II	Sensory evaluation and organoleptic testing for Food Authentication: Visual, taste, and smell analysis in detecting fraudulent products	20
<p>Recommended Readings:</p> <ol style="list-style-type: none"> 1. Food Authenticity and Traceability – M. Lees 2. Food Fraud Prevention – John Spink 3. Chemical Analysis of Food: Techniques and Applications – Yolanda Picó <p>Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature- study-online.com, epg-pathshala, egyankosh.ac.in</p> <p>Suggested Continuous Evaluation Methods: Seminar/ Presentation on any topic of the above syllabus <input type="checkbox"/> Test with multiple choice questions/ short and long answer questions <input type="checkbox"/> Attendance</p>		