

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
1.	Prof. Lata Pandey	Convener and Head	Department of Home Science D.S.B Campus	Kumaun University, Nainital
2.	Dr. Chhavi Arya	Expert, Associate Professor	Department of Home Science, D.S.B Campus	Kumaun University, Nainital
3.	Dr. Meena Batham	Expert, Associate Professor	Department of Fabric and Apparel Science, Institute of Home Economics, 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
8.	Mr. Satish Kandpal	Registrar	Gyanarathi College, Kashipur	Kumaun University, Nainital

SYLLABUS PREPARATION COMMITTEE

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

List of papers (DSC, DSE and SEC) with semester wise titles for “Home Science”

Programme specific outcomes (PSOs) (Masters Degree)

TEXTILE AND APPAREL DESIGNING

Semester VII

Course Title -Fashion Illustration

Course Title -Research Methodology

Course Title -Textile Industry and Trade

Course Title -Value Addition of Apparels

Course Title -Dissertation on Major or Minor/ Academic Project/ Entrepreneurship

Semester VIII

Course Title- Advanced Apparel Construction

Course Title- Textile Auxiliaries and colour designing

Course Title- Apparel Industrial Management

Course Title- Retailing and Merchandising

Course Title- Dissertation on Major or Minor/ Academic Project/ Entrepreneurship

Master in Home Science (Textile and Apparel Designing)

Semester-IX

Course Title- Advanced Textile Designing and Woven Fabric Analysis

Course Title- Eco textile and Environment

Course Title- Fashion Designing and Accessories

Course Title- Fashion Marketing

Course Title- Dissertation on Major or Minor/ Academic Project/ Entrepreneurship

Semester-X

Course Title- Dyeing and Finishing

Course Title- Textile Quality Analysis

Course Title- Garment Manufacturing- Draping

Course Title- Historic Textiles and Costumes

Course Title- Dissertation on Major or Minor/ Academic Project/ Entrepreneurship

Bachelor of Home Science (Honours with Research)(Textile and Apparel Designing)

FOURTH YEAR	VII	DSC-19	Fashion Illustration		Practical	4
		DSE-9	Research Methodology	<i>Home Science students can choose three given DSE courses Or Two DSE courses and GE course from other department Or One DSE with two GE courses from other department.</i>	Theory	4
		DSE-10	Textile Industry and Trade		Theory	4
		DSE-11	Value Addition of Apparels		Practical	4
		GE-7	<i>Home science students will choose GE subject from other department</i>			
		Dissertation	Dissertation on Major or Minor/ Academic Project/ Entrepreneurship Practical		Practical	6
		VII I	DSC-20	Advanced Apparel Construction		Practical
	DSE-12		Textile Auxiliaries and colour designing	<i>Home Science students can choose three given DSE courses Or Two DSE courses and GE course from other department Or One DSE with two GE courses from other department.</i>	Theory	4
	DSE-13		Apparel Industrial Management		Theory	4
	DSE-14		Retailing and Merchandising		Theory	4
	GE-8		<i>Home science students will choose GE subject from other department</i>			

		Dissertation	Dissertation on Major or Minor/ Academic Project/ Entrepreneurship	Practical	6	
<i>Students on exit shall be awarded Bachelor in Home Science (Honours with Research) after securing the requisite 176 credits on completing semester VIII</i>						
Master in Home Science (Textile and Apparel Designing)						
FIFTH YEAR	IX	DSC-21	Advanced Textile Designing and Woven Fabric Analysis	Practical	4	
		DSE-15	Eco textile and Environment	<i>Home Science students can choose three given DSE courses Or Two DSE courses and GE course from other department Or One DSE with two GE courses from other department.</i>	Theory	4
		DSE-16	Fashion Designing and Accessories		Practical	4
		DSE-17	Fashion Marketing		Theory	4
		GE-9	<i>Home science students will choose GE subject from other department</i>			
	Dissertation	Dissertation on Major or Minor/ Academic Project/ Entrepreneurship	Practical	6		
	X	DSC-22	Dyeing and Finishing		Practical	4
		DSE-18	Textile Quality Analysis	<i>Home Science students can choose given three DSE courses Or Two DSE courses and GE course from other department Or One DSE with two GE courses from other department.</i>	Theory	4
		DSE-19	Garment Manufacturing- Draping		Practical	4
		DSE-20	Historic Textiles and Costumes		Theory	4

		GE-10	<i>Home science students will choose GE subject from other department</i>		
		Dissertation	Dissertation on Major or Minor/ Academic Project/ Entrepreneuership	Practical	6
<i>Students on exit shall be awarded Master in Home Science (Textile and Apparel Designing) after securing the requisite 220 credits on completing semester X</i>					

Programme Specific Outcomes (PSOs) (Master's Degree)

After this programme, the learners will be able to:

PSO 1	The aim of journal club is to stimulate continuing intellectual curiosity in students to discover new ideas so that they can re-look at old ideas and develop insightful connections among ideas.
PSO 2	Furthermore, it encourages them to exchange ideas focused on a source, thereby providing a unique and intellectual experience to the students.
PSO 3	The aim is to orient students to the latest advances in the field of Clothing and Textiles and to provide a link between theory and applied initiatives in the field of Design, Research, Quality assurance and CAD.
PSO 4	To understand the merchandizing and retailing concept and work in export and import houses in textile industry.
PSO 5	The apparel designing course make perfect to construct designer dresses and give opportunities to open own boutique.
PSO 6	The purpose of teaching research methodology is to acquaint students with research and statistical methods and imparting knowledge of Computer applications for data analysis
PSO 7	The primary aim of the programme is to train the students in the method of scientific inquire and independent research. This is accomplished through advanced coursework and active participation with the faculty in their research programmes.

TEXTILE AND APPAREL DESIGNING

Semester-VII

Bachelor in Home Science (Honours with Research) DICIPLINESPECIFIC COURSE (DSC-19) -Fashion Illustration

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-19 Fashion Illustration	4	0	0	4	Passed class XII with Science, Arts and Commerce	Nil
Programme/Class: Batchelor in Home Science (Honours with research)		Year: Fourth		Semester: Seventh Paper- DSC-19		
Subject : Home science						
Course DSC-19		Course Title: Fashion Illustration				
Course outcomes: After studying this course, the students will be able to: <ul style="list-style-type: none"> ● To develop knowledge and skill about basic figure drawing and illustration of human features. ● To enable students to sketch their imagination into reality by using stylish figure and fashion figures. ● To apply various types of textures and mediums in the figures. 						
Credits:				Discipline Specific Course		
Max. Marks: As per Univ. rules				Min. Passing Marks: As per Univ. rules		
Unit	Topics					No. of Hours
Unit I	Fashion Illustration: Introduction, Tools for Sketching and Illustration.					20
Unit II	Designing of Clothing: Design, Classification of Design, Element of design, Principle of Design.					20
Unit III	Create and practice the type of lines and apply different lines in dress designing.					20
Unit IV	Create and apply the colors Schemes in Dress Designing by using Acrylic or Water colors.					20
Unit V	Create and apply the effect of line/variety of lines in Dress Designing by using pencil and brushes.					20

Unit VI	Draw the different Sketch of fashion detail by using pencil and brushes- <ul style="list-style-type: none"> ● Different types of necklines ● Different types of sleeves ● Different types of collars ● Different types of skirts 	20
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Recommended Readings:

- Figure Drawing for Fashion, Isao Yajima, Graphic-Sha; First Edition (1987) Fashion Art for the Fashion Industry, Rita Gersten, Fair child Books(1989).
- Fashion Drawing–The Basic Principles, Anne Allen and Julian Seaman, Anova Books. Fashion illustration and Presentation, Manmeet Sodhia, Kalyani Publishers.
- Fashion Source Book, Kathryn Mckelvey, Blackwell Science Encyclopedia of fashion details, Patrick John Ireland, Batsford.
- Fashion Illustration, Colin Barnes, Little Brown and Co.(UK)(April1995). Snap Fashion Sketch Book, Bill Glazer, Prentice Hall; 2 edition(2007).

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-VII
Bachelor in Home Science (Honours with Research)
DICIPLINE SPECIFIC ELECTIVE (DSE-9) - Research Methodology

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-9 Research Methodology	4	4	0	0	Passed class XII with science, Arts and commerce	Nil

Bachelor of Home Science (Honours with Research)		
Programme: Bachelor of Home Science (Honours with Research)	Year: Fourth	Semester: Seventh Paper: DSE-9
Subject- Home Science		
Course- DSE-9	Course Title: Research Methodology	
Course Outcomes: The students at the completion of the course will be able to:		
<ul style="list-style-type: none"> • To learn about the concept of training • To enhance the students about different training methods and their use 		
Credits: 4	Discipline Specific Elective	
Max. Marks: As per Univ. rules	Min. Passing Marks: As per Univ. rules	
Unit	Topics	No. of hours
I	Research Methodology: An Introduction, Meaning of Research, Objectives of Research, Types of Research, Research Approaches, Significance of Research, Research Process.	12
II	Sampling Design: meaning and definition of sampling, Steps in Sampling Design, Criteria of Selecting a Sampling Procedure, Characteristics of a Good Sample Design, Different Types of Sample Designs, probability sampling and non-probability sampling. Hypotheses, types of hypothesis, variables and types of variables.	12

III	Methods and tools of data collection: Collection of Primary Data, Observation Method, Interview Method, Collection of Data through Questionnaires, Collection of Data through Schedules, Difference between Questionnaires and Schedules, Collection of Secondary Data,	12
IV	.Data processing methods, Graphical Representation of data, General guidelines for presenting data, tables, graphs and illustrations, Interpretation and generalization and analysis of data.	12
V	Scientific reporting, points to be considered in report writing, Footnotes, Bibliographic citation, Citation style, Preparation of an abstract	12

Suggested Readings:

- C. R. Kothari, GauravGarg, 2014 Research Methodology Method and Techniques, (IIIrdedition), New age International Publishers.
- C R. kothari research methodology methods and techniques Wiley eastern.limited
- Bandarker, P.L. and Wilknsn T.S. 2000, Methodology and Techniques of Social Research, Himalaya Publishing House, Mumbai.
- Bhatnagar, GL. 1990: Research Methods and Measurements in Academy, New Delhi.
- Dooly, D, 1995, Strageies for interpreting Qualitative data: sage Publication California

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-VII
Bachelor in Home Science (Honours with Research)
DICIPLINE SPECIFIC ELECTIVE (DSE-10) Textile Industry and Trade

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 - 10 Textile Industry and Trade	4	4	0	0	Passed class XII with Science, Arts and Commerce	Nil
Bachelor of Home Science (Honours with Research)						
Programme/ Class: Bachelor of Home Science (Honours with Research)		Year: Fourth		Semester: Seventh		
Subject : Home science						
Course Code: DSE-10		Course Title: Textile Industry and Trade				
Course outcomes: The Student at the completion of the course will be able to: Students will be able to understand about the textile related trades and recent practices.						
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	Textiles Industries of India including cottage industries of handloom, hosiery and sericulture					5
Unit II	Importance of entrepreneurs and textile industries in the Indian Economy					5
Unit III	Five year plans and Textile industries					5
Unit IV	Marketing concept					5
Unit V	Co-ordination of production with consumer preference for various textiles products					5
Unit VI	Factors influencing the production and consumption of textiles					5

Unit VII	Factors affecting the cost of textile and pricing policies	5
Unit VIII	Causes for price fluctuations	5
Unit IX	Sales promotion techniques	5
Unit X	Import and export transaction	5
Unit XI	Quality control institutions and quality regulation in India	5
Unit XII	Different textile mills, khadi and village industry commission, weaving service centers, handloom sector, co-operative societies, research associations	5

References:

Cooklin, G., *Introduction to Clothing Manufacture*. Blackwell Scientific Publications.

Karpan., *Change in Trends in Apparel Industry*. Abhishek Publication.

Kathryn Moore Greenwood. *Fashion Innovation & Marketing*. MacmillanCo.

Kitty Dickerson. *Textiles & Apparels in Global Economy*. Merrill PrenticeHall.

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-VII
Bachelor in Home Science (Honours with Research)
DISCIPLINE SPECIFIC ELECTIVE (DSE-11) - Value Addition of Apparels

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		
DSE 11- Value Addition of Apparels	4	0	0	4	Passed class XII with Science, Arts and Commerce	Nil
Bachelor in Home Science (Honours with Research)						
Programme/ Class: Bachelor in Home Science (Honours with Research)		Year: Fourth		Semester: Seventh		
Subject : Home science						
Course Code:DSE-11			Course Title: Value Addition of Apparels			
Course outcomes: The Student at the completion of the course will be able to: <ul style="list-style-type: none"> • To introduce and train students on value addition aspects. • To enable students to learn methods of value addition through various techniques. 						
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	Value addition: Introduction, Techniques of value addition, Importance of Value Addition					20

Unit II	Preparation of samples using different techniques a. Screen printing, b. Block printing, c. Stencil printing, d. Spray printing e. Batik	25
Unit III	Preparation of samples using different tie –dye techniques	20
Unit IV	Preparation of samples using patch work	25
Unit V	Preparation of one household and one apparel articles by using value addition techniques	30

References:

- V. A. Sehnaï, Chemistry of Dyes and principle of Dyeing. Sevak Prakashan, Mumbai
- Hall AJ. 1955. *Handbook of Textile Dyeing & Printing*. The National Trade Press.
- Shenai VA. 1994. *Technology of Dyeing*. Sevak Publ.

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-VIII
Bachelor in Home Science (Honours with Research)
DICIPLINE SPECIFIC COURSE (DSC-20) Advanced Apparel 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- requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
DSC-20 Advanced Apparel Construction	4	0	0	4	Passed class XII with Science, Arts and Commerce	Nil
Programme/Class: Diploma in Home Science		Year: Fourth		Semester: Eighth Paper- DSC-20		
Subject : Home science						
Course: DSC-20		Course Title: Advanced Apparel Construction				
Course outcomes:						
<ul style="list-style-type: none"> • To impart in depth knowledge of style reading, pattern making and garment construction techniques. • To develop and understand the principles of pattern making and draping. 						
Credits:				Discipline Specific Course		
Max. Marks: As per Univ. rules				Min. Passing Marks: As per Univ. rules		
Unit	Topics					No. of Hours
Unit I	Advanced techniques of pattern making- incorporating style lines & fullness.					10
Unit II	Basic pattern and its fitting					10
Unit III	Fitting problems in blouse, sleeves, skirts and men's tailored garment					10
Unit IV	Selection of fabrics for particular items in clothing: fabric for test copy, underlining or supporting fabrics, face fabrics etc					10
Unit V	Advance sleeve variations, decorative and functional pockets, bias cut dresses, Jackets, types of pants					20

Unit VI	Draping, trueing and stitching- dart less shirt, surplice shirt; draping and stitching skirts; draping collars, sleeves, cowls, ruffles and peplums	25
Unit VII	Various functional and decorative types of zippers, belts, tie and bows	15
Unit VIII	New developments in fabrics and innovations in construction techniques as well as improved features in commercial pattern.	20

Recommended Readings:

- Armstrong, Pattern making for fashion designing, Pearson Education
- Gioello and Berke, Figure type and size rang, Fairchild publications, New York.
- Grate and Storm, concepts in clothing, McGraw Hill Book Co., New York
- Janine Mee & Michal Purdy. 1987. *Modelling on the Dress Stand*. BSP Professional Books.
- Natalie Bray. 1994. *Dress Fitting*. Blackwell.

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-VIII
Bachelor in Home Science (Honours with Research)
DICIPLINE SPECIFIC ELECTIVE (DSE-12) -Textile Auxiliaries and Colour Designing

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-12 Textile Auxiliaries and Colour Designing	4	0	0	4	Passed class XII with Science, Arts and Commerce	Nil
Programme/Class : Bachelor in Home Science (Honours with Research)		Year: Fourth		Semester: Eighth Paper- DSE-12		
Subject : Home science						
Course DSE-12		Course Title: Textile Auxiliaries and Colour Designing				
Course outcomes:						
<ul style="list-style-type: none"> • To understand about the textile auxiliaries and color designing 						
Credits:				Discipline Specific Elective		
Max. Marks: As per Univ. rules				Min. Passing Marks: As per Univ. rules		
Unit	Topics					No. of Hours
Unit I	Definition, classification and role of textile auxiliaries,					10
Unit II	Processing operations which require use of textile auxiliaries. Spinning, Sizing, Desizing, Scouring and mercerizing, Bleaching, Dyeing, Printing and Finishing					10
Unit III	Stiffening agents Optical brightening agents, Softeners, Water repellents, Wettingagents, Thickeners, Leveling agents, Flame retarding agents, Surfactants, Carriers/swelling agents, Dispersing agents, Antistatic agents, Antifoaming agents, Dye fixing agents.					15
Unit IV	Chemistry of dyes and pigments- composition, structure, properties, affinity towards fibers, method of application, fixing, after treatments and fastness properties.					10

Unit V	Advanced dyeing techniques	5
Unit VI	Printing auxiliaries; advanced printing techniques; assessment for colour fastness	10

Recommended Readings:

- Tortora, P. G., *Understanding Textiles*, New York, MacMillan Publication.
- Wynne.A., *Textiles*, Mac Muller Education Ltd. London.
- Shenai, V. A., *Technology of Printing*, Vol. IV, Sevak Publication.
- Shenai, V. A., *Technology of Textile Processing.*, Sevak Publication.
- Hall, A. J. *The Standard Handbook of Textiles*. Newnes-Butter-worths, London.
- Hollen, N. and Saddler, J., *Textiles*. Macmillan Company, New York.

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-VIII
Bachelor in Home Science (Honours with Research)
DICIPLINE SPECIFIC ELECTIVE (DSE-13) Apparel Industrial Management

No. of Hours - 6

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-13 Apparel Industrial Management	4	4	0	0	Passed class XII with Science, Arts and Commerce	Nil
Programme/Class: Diploma in Home Science	Year: Fourth			Semester: Eighth Paper- DSE-13		
Subject : Home science						
Course DSE-13		Course Title: Apparel Industrial Management				
Course outcomes:						
<ul style="list-style-type: none"> • Gain basic knowledge on management, different levels of management • Understand all about organization – concept, principles, types and business legal structures 						
Credits:				Discipline Specific Elective		
Max. Marks: As per Univ. rules				Min. Passing Marks: As per Univ. rules		
Unit	Topics					No. of Hours
Unit I	Management : definition, characteristic, function, important and principles					4
Unit II	Planning of business plan					4
Unit III	Business finance: types, sources of finance and company finance, institutional finance and banks.					8
Unit IV	Working capital management: costing, method and types of cost, pricing method and factors affecting pricing					7
Unit V	Organization, organizing process, organization chart, organizational principles and forms of internal organization					7
Unit VI	Industrial organisation psychology-history and areas of activity of industrial psychologist					6
Unit VII	Personnel management: definition, nature, managerial and operative functions and principles.					12
Unit VIII	Factory and labour laws; necessity, aim and objectives, factories act, workmen's compensation act, Minimum wage Act, Employee State Insurance Act, Employee Provident Fund Act, Child Labour Act					12

Recommended Readings:

Banerjee, S. 1995. Principle and Practices of management. New Delhi and Oxford, IBH publishing co. Pvt. Ltd.

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-VIII
Bachelor in Home Science (Honours with Research)
DICIPLINE SPECIFIC ELECTIVE (DSE-14) Retailing and Merchandizing

No. of Hours - 6

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-14 Retailing and Merchandizing	4	4	0	0	Passed class XII with Science, Arts and Commerce	Nil
Programme/Class : Bachelor in Home Science (Honours with Research)		Year: Fourth			Semester : Eighth Paper- DSE-14	
Subject : Home science						
Course DSE-14		Course Title: Retailing and Merchandizing				
Course outcomes:						
<ul style="list-style-type: none"> • To develop in depth knowledge about Merchandizing and retailing. • To learn about sales promotion techniques and export import procedures 						
Credits:				Discipline Specific Elective		
Max. Marks: As per Univ. rules				Min. Passing Marks: As per Univ. rules		
Unit	Topics					No. of Hours
Unit I	Merchandizing: terminology, concept and principles.					7
Unit II	Factors affecting Merchandizing					6
Unit III	Role and responsibilities of a merchandiser					3
Unit IV	Merchandizing for buying houses, departmental stores and export houses.					3
Unit V	Retailing- terminology and concept					4
Unit VI	Evolution of retail and retail formats					4
Unit VII	Sale promotion and promotion mix: Advertising, Sale promotion techniques, personal selling, and publicity.					10
Unit VIII	Pricing methods and pricing of textiles					12

Unit IX	Fashion analysis, forecasting and significance in product planning.	7
Unit X	WTO and its impact on retailing and merchandizing	4

Recommended Readings:

Cooklin, G. 1991. Introduction to Clothing Manufacturer. London, Blackwell Science Ltd.180p.

- Pradhan, S. 2009. Retailing Mangement, 3rd edn. New Delhi, Tata McGraw-Hill Publishing Company Limit. 613p.

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-IX
Master in Home Science (Textile and Apparel Designing)
DISCIPLINE SPECIFIC COURSE (DSC-21)- Advanced Textile Designing and
Woven Fabric Analysis

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)- 21 Advanced Textile Designing and Woven Fabric Analysis	4	0	0	4	Passed graduation with science, Arts and commerce	Nil
Master in Home Science (Textile and Apparel Designing)						
Programme/Class: Master in Home Science (Textile and Apparel Designing)			Year: Fifth		Semester: Ninth	
Subject: Home Science			Paper: DSC-21			
Course- DSC-21		Course Title: Advanced Textile Designing and Woven Fabric Analysis				
Course outcome: The Student at the completion of the course will be able to: <ul style="list-style-type: none"> ➤ To develop in depth knowledge about use of cad in textiles. ➤ To learn about the complex weaves and dobby, jacquard mechanism and carpet making process. 						
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	History and development of spinning, weaving and handlooms. Spinning of yarns, classification of woven fabrics. Operation in woven cloth production					10
Unit III	Study of design, draft and peg plan for different weaves; weave calculations; advantages and disadvantages. Construction of elementary weaves: plain, twill, satin and sateen weaves. Colour and weave effects.					10
Unit IV	Complex and fancy structures- leno, crepe, double and back cloth, honey comb, mock leno, diaper, diamond, warp and weft figuring, and pile weave					10
Unit IV	CAD commands; creating stripes and checks using various commands.					10
Unit V	Developing motifs by scanning and drawing using the CAD commands					10

Unit VI	Simulation and graph/ point paper; Developing a computer aided portfolio of different motifs, Creation of special effects layers and layer settings	10
Unit IV	Creation of grid and editing the object.	20
Unit IV	Development of woven samples using basic and other fancy weaves.	20
Unit IV	Product development (apparel and household articles) by using CAD software.	20

Suggested Readings:

1. Grosicik. Z. J. *Watson's Textile Design & Colour*. Butterworths.
 2. Grosick Z. J. *Watson's Advanced Textile Design*. Universal Publication.
 3. Grosick Z. J. *Watson's Advanced Textile Design - Compound Woven Structures*.
 4. Marjory Joseph. *Illustrated Guide for Textiles*. Rine Hort & Winsoten, New York.
 5. Radha Krema. *Manual of Non Wovens*. Textile Trade Press.
 6. Sen Gupta. *Weaving Calculations*. DB Taraporawala Sons.
 7. Talukdar M. K. *Weaving Machines, Mechanism and Management*.
 8. Davis L. Marisn. *Visual Design in Dress*. Prentice Hall.
- end-semester written examination will test all the areas targeted in the course.

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

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 IX
Master in Home Science (Textile and Apparel Designing)
DISCIPLINE SPECIFIC ELECTIVE (DSE-15)- ECO TEXTILE AND ENVIRONMENT

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		
Discipline Specific Course (DSE-15)- Eco textile and Environment	4	4	0	0	Passed graduation with Science, Arts and Commerce	Nil
Master in Home Science (Textile and Apparel Designing)						
Programme/Class: Master in Home Science (Textile and Apparel Designing)			Year: Fifth		Semester: Ninth Paper: DSE-15	
Subject: Home Science						
Course- DSE-15			Course Title: Eco Textile and Environment			
Course outcome: The Student at the completion of the course will be able to:						
<ul style="list-style-type: none"> • To impart in depth knowledge of different banned and eco-friendly dyes. • To impart knowledge about health hazards due to textile industries 						
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	<ul style="list-style-type: none"> ✓ Industrialization, eco-balance and textile ecology. ✓ Air, noise and water pollution by mechanical and chemical textile processing and their effect. 					15

Unit II	<ul style="list-style-type: none"> ✓ German Ban ✓ Indian Ban, ✓ Banned dyes ✓ Eco-parameters ✓ Eco-friendly Textiles 	10
Unit III	Oeko- Tex Standard 100.	10
Unit IV	Red listed chemicals as per Eco- specification, Testing of textiles and auxiliaries, effluents discharge.	10
Unit V	Health hazards of textile workers working in various textile units and their remedial measures.	15
	Total	60

1. Banerjee, S. 1995. Principle and Practices of management. New Delhi and Oxford, IBH publishing co. Pvt. Ltd
2. .Davis L. Marisn. *Visual Design in Dress*. Prentice Hall.end-semester written examination will test all the areas targeted in the course.

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

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-IX
Master in Home Science (Textile and Apparel Designing)
DISCIPLINE SPECIFIC ELECTIVE (DSE-16)- Fashion
Designing and Accessories

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-16 Fashion Designing and Accessories	4	4	0	0	Passed graduation with Science, Arts and Commerce	Nil

Master in Home Science (Textile and Apparel Designing)

Programme/Class: Master in Home Science (Textile and Apparel Designing)	Year: Fifth	Semester: Ninth Paper: DSE-16
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Subject: Home Science

Course- DSE-16	Course Title: Fashion Designing and Accessories
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Course outcome:

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

- To understand about the fashion terminologies, evolution, psychology, fashion forecasting, fashion cycle and factors affecting fashion.
- This course also helps to give the knowledge about the national and international fashion designs, fashion careers and opportunities of jobs in this area. It is also provides the knowledge about the fashion accessories.

Credits: 4	Discipline Specific Elective
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Max. Marks: As per Univ. Rule	Min. Passing Marks: As per Univ. rules
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Unit	Topics	No. of Hours
Unit I	Fashion terminology	2
Unit II	Evolution of fashion and fashion theories	8
Unit III	Current fashion trends, Factor determining fashion trends	6
Unit IV	Fashion forecasting and creation, factors affecting fashion forecasting	8
Unit V	Fashion life cycle: trickle up, trickle down and trickle across theory	4
Unit VII	Techniques and tools used for fashion sketching	4
Unit VII	National and international fashion designers	7
Unit VIII	Fashion careers and job opportunities	6
Unit IX	Fashion Accessories: Introduction to Fashion accessories, its types and use	5

Suggested Readings

Brockman, H.L., *The Theory of Fashion Design*. Sydney, Johan, Wiley and Sons.

Ireland, P. J., *Fashion Design Drawing*. London. B.T. batsford Ltd.

Ireland, P. J. *Basic Fashion Design*. London. B.T. batsford Ltd.

Ireland, P. J., *Fashion Drawing for Advertising*. London, B. T. batsford Ltd.

Jabenis, E., *The Fashion Director*. Sydney, Johan, Wiley and Sons.

Suggested equivalent online courses: On Swayam, Vidyamitra.inflibnet.ac.in, literature-tudy-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-IX
Master in Home Science (Textile and Apparel Designing)
DICIPLINE SPECIFIC ELECTIVE (DSE-17) - Fashion Marketing

No. of Hours - 6

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-17 Fashion Marketing	4	4	0	0	Passed class XII with Science, Arts and Commerce	Nil
Programme- Master in Home Science (Textile and Apparel Designing)	Year: Second		Semester: Fourth Paper- DSE-17			
Subject : Home science						
Course DSE-17		Course Title: Fashion Marketing				
Course outcomes:						
<ul style="list-style-type: none"> • To know about the dynamics of fashion, marketing concept • To know about the product, price, place and promotion techniques used in fashion marketing mix. • To learn about the domestic and export marketing principles. 						
Credits:				Discipline Specific Elective		
Max. Marks: As per Univ. rules				Min. Passing Marks: As per Univ. rules		
Unit	Topics					No. of Hours
Unit I	Dynamics of fashion: Fashion terminology, factors influencing fashion, origins of fashion, the producers of fashions, profile of the fashion industry.					8
Unit II	Marketing Core Concepts, marketing mix and marketing environment, marketing environment of India.					8
Unit III	Market segmentation, targeting and positioning (STP): Concepts and methods of market segmentation, need for positioning, Positioning through various means, formulation of positioning maps.					9
Unit IV	Product in relation to fashion: Classification of fashion, product life cycle, the process of product development, the making of a brand, branding strategies, brand management and brand imagebuilding.					8

Unit V	Promotion and distribution: Role of promotion, Methods of promotion: Advertising, sales promotion, Personal Selling: designing and management of different methods of promotion and their employment in relation to cost effectiveness and product life cycle. Different channels of distribution: selection and management, designing and management of retail outlet.	11
Unit VI	Pricing: Principles and methods of pricing: pricing in relation to product type, product lifecycle, distribution outlet etc.	8
Unit VII	Domestic vs Export market: Principles of marketing for the domestic and export market.	8

Recommended Readings:

- Kotler, P., *Marketing Management*. McGraw Publishing.
- Wells Burnette Morianty. *Advertising- Principles and Practices*. Prentice Hall.
- Frings, *Fashion from Concept to Consumer*. Prentice Hall.
- Sen Gupta. *Brand Positioning*. Tata McGraw Hill Publishing.
- Oleon Peter. *Consumer Behavoieur and Marketing Strategy*. McGraw Publishing.
- Darlie Koshy. *Effective Export Marketting of Apparel*. Global Business press.

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-X

Master in Home Science (Textile and Apparel Designing)

DICIPLINE SPECIFIC COURSE (DSC-22) Dyeing and Finishing

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-22 Dyeing and Finishing	4	0	0	4	Passed class XII with Science, Arts and Commerce	Nil
Programme/Class: Master in Home Science (Textile and Apparel Designing)	Year: Fifth			Semester: Tenth Paper- DSC-22		
Subject : Home science						
Course DSC-22		Course Title: Dyeing and Finishing				
Course outcomes:						
<ul style="list-style-type: none"> • To understand the theory of dyeing in relation to various classes of dyes and its application. • Inculcate awareness of different methods of printing 						
Credits:				Discipline Specific Course		
Max. Marks: As per Univ. rules				Min. Passing Marks: As per Univ. rules		
Unit	Topics					No. of Hours
Unit I	Dyeing of cotton and jute with corresponding dyes by exhaust method in laboratory dyeing machine.					30
Unit II	Dyeing of silk and wool with corresponding dyes by exhaust method in laboratory dyeing machine.					30
Unit III	Resist dyeing- Tie dye on silk, jute, cotton, chiffon, georgette					20
Unit IV	Resist dyeing- Batik on silk, cotton					20
Unit V	Visit to dyeing and processing unit					20

Recommended Readings:

V. A. Sehnaï, Chemistry of Dyes and principle of Dyeing. SevakPrakasahan, Mumbai

V. A. Sehnaï, Azo Dyes Facts and Figures. SevakPrakasahan, Mumbai

Nalini Srivastava, Tie and dye, PanditSunderlal Sharma Central Institute of Vocational Education

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-X

Master in Home Science (Textile and Apparel Designing)

DISCIPLINE SPECIFIC ELECTIVE (DSE-18)- TEXTILE QUALITY ANALYSIS

No. of Hours-6

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		
Discipline Specific Elective(DSE-18)- Textile Quality Analysis	4	4	0	0	Passed Graduation with Science, Arts and Commerce	Nil
Master in Home Science (Textile and Apparel Designing)						
Programme/Class: Master in Home Science (Textile and Apparel Designing)			Year: Fifth		Semester: Tenth Paper: DSE-18	
Subject: Home Science						
Course- DSE-18			Course Title: Textile Quality Analysis			
Course outcome: The Student at the completion of the course will be able to: ➤ To develop knowledge about testing methods of different fibers, yarns and fabrics						
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	Importance of textile testing, standardization and quality control, functions of BIS and other standards.					10
Unit II	Fiber length, fineness, evenness, fiber strength, elongation, diameter, air permeability					10
Unit III	Yarn strength, elongation, count, denier, crimp, twist, stress-strain curve, elastic recovery					10
Unit IV	Fabric strength, breaking, bursting, tear and ballistic strength, thermal conductivity, air permeability, water repellency, thickness, shrinkage, pilling, abrasion resistance, colour fastness to washing, light, rubbing or crocking and Perspiration					10
Unit V	Apparel Testing- seam strength, button and print etc.					5
Unit VI	National and International organization and objectives of various organizations related to textile testing					5
Unit VII	Visit to Textile Industry					10
Suggested Readings:						

Kotler, P., *Marketing Management*. McGraw Publishing.
Wells Burnette Moriarty. *Advertising- Principles and Practices*. Prentice Hall.
Frings, *Fashion from Concept to Consumer*. Prentice Hall.
Sen Gupta. *Brand Positioning*. Tata McGraw Hill 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-X
Master in Home Science (Textile and Apparel Designing)
DISCIPLINE SPECIFIC ELECTIVE (DSE-19)- Garment
Manufacturing- Draping

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		
DSE-19 Garment Manufacturing- Draping	4	0	0	4	Passed Graduation with Science, Arts and Commerce	Nil

Master in Home Science (Textile and Apparel Designing)

Programme/Class: Master in Home Science (Textile and Apparel Designing)	Year: Fifth	Semester: Tenth Paper: DSE-19
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Subject: Home Science

Course- DSE-19	Course Title: Garment Manufacturing- Draping
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Course outcome:

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

- To impart technical knowledge and skills in garment designing and manufacturing by draping

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	Garment designing through draping: definition and related terminology	20
Unit II	Tools and supplies for draping	20
Unit III	Draping principles and techniques	20
Unit III	Designing and construction of following garments using different construction features: a) Children garment b) Male garment c) Female garment	20
Unit IV	Pattern development	20
Unit V	Visit to fashion institute; project preparation and report writing	20

Suggested Readings:

- Bane, A. 1972. Flat Pattern Design. New York. McGraw Hill Book
- Warren, G.S. 1969. Principles for creative clothing.

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-X
Master in Home Science (Textile and Apparel Designing)

DISCIPLINE SPECIFIC ELECTIVE (DSE-20) - Historic Textiles and Costumes

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		
Discipline Specific Elective (DSE)- Historic Textiles and Costumes	4	4	0	0	Passed graduation with Science, Arts and Commerce	Nil
Master in Home Science (Textile and Apparel Designing)						
Programme/Class: Master in Home Science (Textile and Apparel Designing)			Year: Fifth		Semester: Tenth Paper: DSE-20	
Subject: Home Science						
Course- DSE-20			Course Title: Historic Textiles and Costumes			
Course outcome: The Student at the completion of the course will be able to: ➤ Understand about historic costume and textiles of various countries						
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: Historic background and detailed study of ancient and medieval Indian costumes					10
Unit II	Study of traditional dyed, printed, embroidered and non-woven textiles of : <ul style="list-style-type: none"> • America • China • Egypt • France • Greece • Japan and • Romes 					10
Unit III	History and evolution of traditional costumes of <ul style="list-style-type: none"> • America, • China, • Egypt • France, • Greece, • Japan and • Rome. 					10

Unit IV	Fiber content, fabrics, motifs, colours and designs used in: <ul style="list-style-type: none"> • America, • China, • Egypt • France, • Greece, • Japan and • Rome. 	10
Unit V	Historical development of tradition textiles from different state of India	5
Unit VII	Introduction: Historic background and detailed study of ancient and medieval Indian costumes	5
Unit VII	Study of traditional dyed, printed, embroidered and non-woven textiles of : <ul style="list-style-type: none"> • America, • China, • Egypt • France, • Greece, • Japan and • Rome. 	10

Suggested Readings:

- Blanche Payne., *History of Costumes from the Ancient Egyptian to the Twentieth Century*. Harper & Row.
- Jack Cassin Scott., *The Illustrated Encyclopedia of Costume and Fashion*. StudioVista
- Pandit, S., *Indian Embroidery – It's variegated charms. Latest edition*. Vinu BaiPatel, Baroda.
- Dhamija, J.S., *Handicrafts of India*. National book trust, India.
- Dhaniya, J and Jain, J., *Handwoven Fabrics of India*. Mapin publishing Ltd., Ahmedabad.

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