

Kurukshetra University, Kurukshetra
(Established by the State Legislature Act-XII of 1956)
("A++" Grade, NAAC Accredited)



Syllabus
for
Post Graduate Programme
M.Sc. Home Science (Clothing and Textiles)

as per NEP 2020
Curriculum and Credit Framework for Postgraduate Programme

CBCS-LOCF
With effect from the session 2025-26

DEPARTMENT OF HOME SCIENCE
FACULTY OF LIFE SCIENCES

KURUKSHETRA UNIVERSITY, KURUKSHETRA -136119
HARYANA, INDIA

Semester-3

Session: 2025-26			
Part A – Introduction			
Name of Programme	M.Sc. Home Science (Clothing and Textiles)		
Semester	3		
Name of the Course	Entrepreneurship Management		
Course Code	M24-CLT-301		
Course Type	CC-9		
Level of the course	500-599		
Pre-requisite for the course (if any)			
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO1: Understand business environment for the entrepreneur government of Indian policy. CLO2: to learn management techniques- planning, organizing, executing, controlling. CLO3: understand the role of agencies like SSI MIDC and MSIC. CLO4: Understand about the communication- importance of business communication, principle, promotions etc. and learn how to establish an enterprise.		
Credits	Theory	Practical	Total
	4	0	4
Teaching Hours per week	4	0	4
Internal Assessment Marks	30	0	30
End Term Exam Marks	70	0	70
Max. Marks	100	0	100
Examination Time	3 hours		
Part B- Contents of the Course			
Instructions for Paper- Setter: The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions will carry equal marks.			
Unit	Topics		Contact Hours
I	I. Entrepreneurship – Definition, characteristics, employment promotion, efforts to promote entrepreneurship. II. Business environment for the entrepreneur. Government of India's policy towards promotion of entrepreneurship, reservations and sanctions for small scale sector.		15
II	III. Agencies for development of entrepreneurship – Role of SSI, procedure and formalities for setting up SSI, Role of MIDC in Industrial development, Role of NSIC – supply of machinery and equipment on like purchase, voluntary organization, Bank loan. IV. Personal effectiveness; Factors affecting entrepreneurs role, effective communication skills, achievement motivation, goal orientation,		15

	psychological barriers to self-employment	
III	V. Technical communication – Importance of Business communication, Principles, Procedures, Formulation of project proposal, Budget estimate and Feasibility of report. VI. Establishing an enterprise – Problems, information, source / schemes of assistance etc.	15
IV	VII. Management Techniques: - Planning, Organizing, Appointing Staffs, Executing, Controlling and Review. Financial Management, Working Capital, Bank Funding, Calculating Risks, Personal Management, Product Management, Purchase Techniques, Costing, Marketing Management, Sales Promotion, Labour Law Application.	15
Total Contact Hours		60
Suggested Evaluation Methods		
Internal Assessment: 30		End Term Examination: 70
➤ Theory		➤ Theory:
•Class Participation:		70
•Seminar/presentation/assignment/quiz/class test etc.:		Written Examination
•Mid-Term Exam:		
Part C-Learning Resources		
Recommended Books/e-resources/LMS:		
1. Kanitkar, A. (1995) Grassroots, Entrepreneurship; Entrepreneurs and Micro – Enterprises in Rural India, New Age International, New Delhi.		
2. S.K.G. – Sundaram: Entrepreneurship: A Hand Book for Beginners, S.N.D.T. Women’s University, Mumbai.		
3. G. R. Jain and Debnuni Gupta, New Initiatives in Entrepreneurship Education and Training, ed.		
4. W. Harrell (1995) For Entrepreneurs Only, New Jersey, Career.		
5. Sarabhai Vikram (1974): Management for Development, Vikas Publishing House Pvt. Ltd.,		
6. Michael Armotrong (1986): A Handbook of Management Techniques, Kogar Page Limited.		
7. K. Sadgrove (1997), the complete Guide to Business Risk Management, Jaice Publishing House, Mumbai.		
8. Colin Melver : Case Studies in Marketing, Advertising and Public Relations, Heinemann, London.		

Session: 2025-26			
Part A – Introduction			
Name of Programme	M.Sc. Home Science (Clothing and Textiles)		
Semester	3		
Name of the Course	Garment Production Technology		
Course Code	M24-CLT-302		
Course Type	CC-10		
Level of the course	500-599		
Pre-requisite for the course (if any)			
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO1: Gain knowledge of garment industry, structure and functioning. CLO2: Understand the related to processes before, during and after production. CLO3: Familiarity with various machines, tools and equipment used in garment industry. CLO4: Understand various materials and components of garment production.		
Credits	Theory	Practical	Total
	4	0	4
Teaching Hours per week	4	0	4
Internal Assessment Marks	30	0	30
End Term Exam Marks	70	0	70
Max. Marks	100	0	100
Examination Time	3 hours		
Part B- Contents of the Course			
Instructions for Paper- Setter: The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions will carry equal marks.			
Unit	Topics		Contact Hours
I	Introduction to the Background and Structure of the Garment / creating Industry. The organization of garment factory 1. Principles of Management. 2. Various Departments like: (i) Design Departments (ii) Marketing Departments (iii) Finance Departments (iv) Purchasing Departments (v) Production Departments (vi) Operations Departments		15
II	Manufacturing Technology A) Cutting & Cutting Room (i) Market planning (ii) Efficiency, Method & use of worker plan. Methods of spreading of fabric and requirements of the spreading process. Cutting the fabric – objectives and methods of cutting fabric. Fusing		15

	Technology.	
III	Sewing Technology Sewing – Properties, Stitch types – Types of Sewing Machines – Feed machines and Types of Needles. Sewing threads – Types of fiber used, construction and finishing, thread size, thread packaging, thread costs, thread properties and seam performance. Sewing problems; Stitch formation, damage along the seam line puckering. Testing for sewability and Tailor ability.	15
IV	Use of components and Trims, Alternative Methods of forming materials Fusing Welding and adhesives, Moulding, Pressing Technology Production Technology Ware Housing Engineering & Quality Control Production Engineering Principles of Quality Control.	15
Total Contact Hours		60
Suggested Evaluation Methods		
Internal Assessment: 30		End Term Examination: 70
➤ Theory	30	➤ Theory: 70
• Class Participation:	5	Written Examination
• Seminar/presentation/assignment/quiz/class test etc.:	10	
• Mid-Term Exam:	15	
Part C-Learning Resources		
Recommended Books/e-resources/LMS: 1. Gerry Cooklin – Introduction to Clothing Manufacture, Black Well Sciences. 2. Harold Carr & Barbara Lathare – The Technology of Clothing Manufacture – Blackwell Science. 3. A.J. Chuter – Introduction to Clothing Production Management Blackwell Science. 4. D. J. Tyles – Materials Management in Clothing production – Blackwell Science. 5. Harold Carr & Barbara Lathan (1992): Fashion Design and Product Development – Blackwell Science. 6. Mike Easey – Fashion Marketing. Blackwell Science. 7. Stylios, G. (1991): Textiles objective Measurement and Automation in Garment Manufacture, Ellis Horword Ltd., New York, London, Singapore.		

Session: 2025-26			
Part A – Introduction			
Name of Programme	M.Sc. Home Science (Clothing and Textiles)		
Semester	3		
Name of the Course	Functional Clothing		
Course Code	M24-CLT-303		
Course Type	DEC-1		
Level of the course	500-599		
Pre-requisite for the course (if any)			
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understanding Importance of user centric functional clothing CLO 2: Learning about required features in the garment for enhanced mobility CLO 3: Exploring features to be incorporated in protective clothing CLO 4: Gathering information regarding clothing to enhance body functions		
Credits	Theory	Practical	Total
	4	0	4
Teaching Hours per week	4	0	4
Internal Assessment Marks	30	0	30
End Term Exam Marks	70	0	70
Max. Marks	100	0	100
Examination Time	3 hours	3 hours	
Part B- Contents of the Course			
Instructions for Paper- Setter: The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions will carry equal marks.			
Unit	Topics		Contact Hours
I	User Centered Design • Conducting research • Defining problem • Design strategies		15
II	Providing Mobility in Clothing • Expansion of clothing during movement • Increased mobility in clothing • Fit and movement		15
III	Protective Clothing • Clothing system for thermal protection • Impact –protective clothing • Protective clothing design for radiation hazard		15
IV	Clothing to Enhance and Augment Body Functions • Clothing for sensory perception • Clothing for high visibility • Clothing for physical strength enhancement • Clothing for protection from water • Clothing for special need		15

• Smart textiles		Total Contact Hours		60	
Suggested Evaluation Methods					
Internal Assessment: 30			End Term Examination: 70		
➤ Theory		30	➤ Theory:		70
•Class Participation:		5	Written Examination		
•Seminar/presentation/assignment/quiz/class test etc.:		10			
•Mid-Term Exam:		15			
Part C-Learning Resources					
Recommended Books/e-resources/LMS:					
1) Hayes, S.G., and Venkatraman, P. (2017) Material and Technology for Sportswear and Performance Apparel, CRC Press.					
2) Song, G. (ed.) (2011) Improving Comfort in Clothing, Woodhead Publishing.					
3) Watkins, S.M., and Dune, L.E. (2015) Functional Clothing Design, from Sportswear to Spacesuit, Fairchild Books, New York.					

Session: 2025-26			
Part A – Introduction			
Name of Programme	M.Sc. Home Science (Clothing and Textiles)		
Semester	3		
Name of the Course	Textiles For Home & Hospitality		
Course Code	M24-CLT-304		
Course Type	DEC-1		
Level of the course	500-599		
Pre-requisite for the course (if any)			
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Recall the salient features of various period styles of furnishings. CLO 2: Classify the textiles used for home & hospitality and describe their selection criteria. CLO 3: Explain the role of emerging trends in fashion and technology used in textiles for home and hospitality. CLO 4: Discuss the growing market for home & hospitality and the major production centers in India.		
Credits	Theory	Practical	Total
	4	0	4
Teaching Hours per week	4	0	4
Internal Assessment Marks	30	0	30
End Term Exam Marks	70	0	70
Max. Marks	100	0	100
Examination Time	3 hours	3 hours	
Part B- Contents of the Course			
Instructions for Paper- Setter: The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions will carry equal marks.			
Unit	Topics		Contact Hours
I	Introduction to Textiles Used in Home and Hospitality - Textiles used in home and various sectors of hospitality like hospitals, modes of travelling (airlines, railways, automobiles etc.), restaurants and hotels - Different styles in home furnishings. - Classification of textiles for home and hospitality (hard and soft): upholstery fabrics, window textiles, bed linen and other bed textiles, bathroom textiles, kitchen and table linen, floor coverings-rugs and carpets		15
II	Selection, Use, Care, Storage and Maintenance Various parameters for selecting textiles for home and hospitality (types, standard sizes, construction, performance, durability, aesthetics,		15

	price range etc.) • Informative labelling and Packaging • Government regulations and standards • Maintenance of various product categories at domestic and commercial levels	
III	Influence of Fashion and Technology • Contemporary fashion trends in textiles for home and hospitality and forecast for the future • Factors affecting selection of design (end use, size and type of room, type of arrangement, type of furniture, geographical location etc.) • Designers, Brands and Outlets dealing with furnishings • Innovations in technology, high performance materials and use of finishes to enhance functionality • Sustainable and eco-friendly practices in textiles used for home and hospitality	15
IV	Manufacturing and Production Capacity of Textiles for Home and Hospitality • Textiles for home and hospitality: Global Vs Indian market • Growing domestic market and major production centers • Present status of the industry and areas for improvement	15
Total Contact Hours		60
Internal Assessment: 30		End Term Examination: 70
➤ Theory	30	➤ Theory: 70
• Class Participation:	5	Written Examination
• Seminar/presentation/assignment/quiz/class test etc.:	10	
• Mid-Term Exam:	15	
Part C-Learning Resources		
Recommended Books/e-resources/LMS: • Das, Subrata (2010) Performance of Home Textiles, New Delhi, Woodland Publishing India Pvt Ltd • Howes, Karen (1997) Making the Most of Bedrooms, London, Conran Octopus • Lebeau, Caroline (2004) Fabrics- the Decorative Art of Textiles, London, Thames and Hudson • Neiswand, Nonie (1998) Bedrooms and Bathrooms, London, Conran Octopus • Ranall, Charles T. (2002) Encyclopedia of Window Fashions, California, Randall International • Wingate, Isabel B. (1949) Textile Fabrics and Their Selection, New York, Prentice Hall		

Session: 2025-26			
Part A – Introduction			
Name of Programme	M.Sc. Home Science (Clothing and Textiles)		
Semester	3		
Name of the Course	Knitting Technology		
Course Code	M24-CLT-305		
Course Type	DEC-1		
Level of the course	500-599		
Pre-requisite for the course (if any)			
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO1: learn about knitting technology and terms used in knitting CLO2: Gain knowledge about Indian knitting industry- past, present and future CLO3: Know about development of hand knitting to machine knitting CLO4: Study about basic wrap knit stitches, waste reduction techniques and future developments		
Credits	Theory	Practical	Total
	4	0	4
Teaching Hours per week	4	0	4
Internal Assessment Marks	30	0	30
End Term Exam Marks	70	0	70
Max. Marks	100	0	100
Examination Time	3 hours	3 hours	
Part B- Contents of the Course			
Instructions for Paper- Setter: The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions will carry equal marks.			
Unit	Topics		Contact Hours
I	Introduction to Knitting Technology; - Evolution and significance of knitting in Textile Industry. Comparison of knitted, woven, non-woven fabrics Classification of processes involved in knitting.		15
II	Knitted fabric defects. Comparison of warp and weft knitting. Basic weft knit stitches – single jersey, rib, purl, interlock, float & tuck stitches. Basic warp knit stitches – Under lap, closed lap, open lap.		15
III	Development of knitting from hand knitting to machine knitting and further developments. Weft knitting - Basic structure, stitches, designing of weft- knit structures, needle and yarn selection of weft knitting. Quality control of weft knit fabrics.		

		15
IV	Warp knitting- development of warp knitting machines, basic warp knit structures and their representation. Tricot and Raschel knits - principle, machines and production methods Waste reduction techniques in knitting by recycling and reusing knitting waste. Robotics in knitting Technology. Future directions in knitting technology.	15
Total Contact Hours		60
Suggested Evaluation Methods		
Internal Assessment: 30		End Term Examination: 70
➤ Theory	30	➤ Theory: 70
•Class Participation:	5	Written Examination
•Seminar/presentation/assignment/quiz/class test etc.:	10	
•Mid-Term Exam:	15	
Part C-Learning Resources		
Recommended Books/e-resources/LMS: • Prof. Ajgaonkar D.B., "Knitting Technology", University Publishing Co. Mumbai. • Brackenbury Terry, "Knitting clothing Technology", Blackwell Science, U.K. • Spencer David J., "Knitting Technology", Pregeman Press, U.K.		

Session: 2025-26			
Part A – Introduction			
Name of Programme	M.Sc. Home Science (Clothing and Textiles)		
Semester	3		
Name of the Course	Apparel &Textile Designing		
Course Code	M24-CLT-306		
Course Type	DEC-1		
Level of the course	500-599		
Pre-requisite for the course (if any)			
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO1: Learn about apparel designing and influence of social media. CLO2: Learn about various fabric types and their handling. CLO3: Learn textile designing and its applications CLO4: Present day scenario of textile designing and sustainable textile practices		
Credits	Theory	Practical	Total
	4	0	4
Teaching Hours per week	4	0	4
Internal Assessment Marks	30	0	30
End Term Exam Marks	70	0	70
Max. Marks	100	0	100
Examination Time	3 hours	3 hours	
Part B- Contents of the Course			
Instructions for Paper- Setter: The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions will carry equal marks.			
Unit	Topics		Contact Hours
I	Apparel designing: • Definition, Meaning and Importance, Origin and History. Apparel Designing and Influence of Celebrities, social media and upcoming generations on it.		15
II	Factors influencing selection of fabric Special consideration in designing and layout of the garment for prints, stripes, checks, pile fabric. Handling of special fabric while cutting and stitching. (Deep pile, lace, velvet, chiffon, knits, leather) Supporting Fabrics: Interlining, Interfacing, Underlining: their functions and application		15
III	Textile designing: Meaning & Importance of Textile Designing. Differentiate between		15

	Apparel and Textile Designing Different techniques/methods of textile designing Elements of Textile Design, Motifs, Styles, Repeats, Layouts, Exploration and Stylization of designs, Construction of designs from incomplete repeats.		
IV	Scope of Textile Designing in Fashion Industry. Present Day Scenario of Textile Designing in Textile Industry of India. Circular Economy in Textiles, Sustainable Textile Practices and their scope &benefits to the society. Contemporary interpretations of Traditional Crafts	15	
Total Contact Hours			60
Suggested Evaluation Methods			
Internal Assessment: 30		End Term Examination: 70	
➤ Theory	30	➤ Theory:	70
• Class Participation:	5	Written Examination	
• Seminar/presentation/assignment/quiz/class test etc.:	10		
• Mid-Term Exam:	15		
Part C-Learning Resources			
Recommended Books/e-resources/LMS:			
• Gioello and Berke: Figure Type and Size Ramnge, Fairchild Publications, New York.			
• Allen Anne Seaman Julian Fashion Drawing the Basic Principles B.T. Batsford Ltd. London.			
• Grociki, Z.J.: Textiles Design and Colour, London, Longmans Green and Co. Ltd.			
• William Watson: Advanced Textiles Design, London, Longmans Green and Co. Bombay.			
• Nisbet, H : Grammar of Textile Design, Tarapoprewale Sons and Co. Bombay.			

Session: 2025-26			
Part A – Introduction			
Name of Programme	M.Sc. Home Science (Clothing and Textiles)		
Semester	3		
Name of the Course	Laundry Science and Finishing of Fabrics		
Course Code	M24-CLT-307		
Course Type	DEC-2		
Level of the course	500-599		
Pre-requisite for the course (if any)			
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Learn about various laundering processes CLO 2: Know different equipments used in laundry and how to use them in daily life. CLO 3: Learn about soaps and detergents and their ingredients and manufacturing process. CLO 4: Know about removal of different stains from fabrics in day to day life		
Credits	Theory	Practical	Total
	4	0	4
Teaching Hours per week	4	0	4
Internal Assessment Marks	30	0	30
End Term Exam Marks	70	0	70
Max. Marks	100	0	100
Examination Time	3 hours	3 hours	
Part B- Contents of the Course			
Instructions for Paper- Setter: The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions will carry equal marks.			
Unit	Topics		Contact Hours
I	Introduction to Laundry process; Laundry equipments and their use Working of different electronic gadgets used in daily life and their Care and Maintenance		15
II	Soaps and supplies: Soaps and detergents; Stiffening Agents; Blueing Agents; Bleaching & other laundry reagents; Grease absorbents & solvents.		15
III	Use and care of fabrics. Dry cleaning of different clothes Storage and Care of Clothing Stains - classification of stains, methods of removing different types of stains.		15
IV	Fabric Finishing – Overview and Need, Significance in various clothing types. • Specialty and Heritage Finishing Methods their advantages and		15

	- process-like jacquard, ciboria, brocades etc. - Sustainable and Eco-friendly finishing used in textile industry.		
Total Contact Hours			60
Suggested Evaluation Methods			
Internal Assessment: 30		End Term Examination: 70	
➤ Theory	30	➤ Theory:	70
• Class Participation:	5	Written Examination	
• Seminar/presentation/assignment/quiz/class test etc.:	10		
• Mid-Term Exam:	15		
Part C-Learning Resources			
Recommended Books/e-resources/LMS:			
1. Corbman BP (19810) Textiles Fibre to fabric MC Graw Hill, New York.			
2. Hollen N & Saddler J Textiles (Latest Edition) Mac Mittan & Co. New York.			
3. Joseph M.L. (1976) Essentials of Textiles holt Ripeniart of Winston, New York.			
4. Joseph M.L. (1972) Introductory Textiles Science Holt Ripenhart of Winston, New York.			
5. Tortorc P.G. (1978) Understanding Textiles New York Mac Milan Publishing Inc.			
6. Gupta Sushma (20010) Text Book of Clothing Textiles and Laundry. Kalyani Publishers New Delhi.			
7. Deulkar Durga (1988) Household Textiles and Laundry Work, Atma Ram and Sons.			
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Session: 2025-26			
Part A – Introduction			
Name of Programme	M.Sc. Home Science (Clothing and Textiles)		
Semester	3		
Name of the Course	Fabric Manufacture		
Course Code	M24-CLT-308		
Course Type	DEC-2		
Level of the course	500-599		
Pre-requisite for the course (if any)			
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO1: Learn about basic terminology and overview of textile industry. CLO2: Develop expertise in selecting appropriate fabrics, international fabrics and textile materials, and their scope. CLO3: Gain knowledge of carbon footprints, and their after effects. CLO4: To create innovations in fabric manufacture.		
Credits	Theory	Practical	Total
	4	0	4
Teaching Hours per week	4	0	4
Internal Assessment Marks	30	0	30
End Term Exam Marks	70	0	70
Max. Marks	100	0	100
Examination Time	3 hours	3 hours	
Part B- Contents of the Course			
Instructions for Paper- Setter: The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions will carry equal marks.			
Unit	Topics		Contact Hours
I	1) Introduction to the term Fabric and related terminology. Fabric count, Fabric Identification. 2)An Overview of the Textile Industry; - *Mill sector/organized sector *Power loom sector/unorganized sector *Handloom sector/cooperatives/unorganized sector Discussion of all above with special reference to minimum lengths possible, scope for design intervention, lead times and cost.		15
II	International Fabrics and Textile Materials in the Indian market their demand supply and significance for the customer. Sourcing of different Fabrics; - International and National Scope for international and national fabrics in comparison with each other.		15
III	Processing of different fabrics with reference to; -Texture, colour and		15

	performance plus ability of the same. Carbon Footprints in textile industry and their effects on environment. Awareness towards bad effects of carbon footprints. Present day status of Indian textile materials in the fashion industry and their demand in western culture.	
IV	1) Innovations in Fabrics (intrinsic and visual) integrating into design practice a) International b) National c)Role of NGO’s in development and promotion of fabrics. 2)Understanding linings and interlinings-a designer perspective “Green Design in terms of fibre content, finish and garment packaging. 3) Interrelating Garment and Fabric Designs.	15
Total Contact Hours		60
Suggested Evaluation Methods		
Internal Assessment: 30		End Term Examination: 70
➤ Theory	30	➤ Theory: 70
•Class Participation:	5	Written Examination
•Seminar/presentation/assignment/quiz/class test etc.:	10	
•Mid-Term Exam:	15	
Part C-Learning Resources		
Recommended Books/e-resources/LMS:		
1. S. H., Hengky. "Image Analysis: Textile Industry in Indonesia." World Journal of Business and Management 1, no. 1 (June 25, 2015): http://dx.doi.org/10.5296/wjbm.v1i1.7883 .		
2. Lyons, Agnes M. M. "The Textile Fabrics of India and Huddersfield Cloth Industry." Textile History 27, no. 2 (January 1996): http://dx.doi.org/10.1179/004049696793711202 .		
3. Exploring Textile Arts: The Ultimate Guide to Manipulating, Coloring, and Embellishing Fabrics, by the Editors of Creative Publishing International, Inc. 2002, Creative Publishing International, Inc. ISBN# 1589230485		
4. The Maker’s Hand, by Peter Collingsworth, 1987, Lark Books and Interweave Press.		
5. Handbook of Textile Design: Principles, Processes and Practice (PB) By Wilson		
6. 1st Edition Emerging Technologies for Textile Coloration Edited By Mohd Yusuf, Mohammad Shahid Copyright 2022		

Session: 2025-26			
Part A – Introduction			
Name of Programme	M.Sc. Home Science (Clothing and Textiles)		
Semester	3		
Name of the Course	Indian Traditional Arts		
Course Code	M24-CLT-309		
Course Type	DEC-2		
Level of the course	500-599		
Pre-requisite for the course (if any)			
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand and explore various Indian arts. CLO 2: to give an insight and input about various aspects of history of Indian art right from its origin. CLO 3: students will learn about the historic importance and relevance of various aspects of Indian miniatures. CLO 4: students will get inspired and be influenced for their own creations		
Credits	Theory	Practical	Total
	4	0	4
Teaching Hours per week	4	0	4
Internal Assessment Marks	30	0	30
End Term Exam Marks	70	0	70
Max. Marks	100	0	100
Examination Time	3 hours	3 hours	
Part B- Contents of the Course			
Instructions for Paper- Setter: The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions will carry equal marks.			
Unit	Topics		Contact Hours
I	Historical context of the following; - - Study Art and Architecture of Indus valley Civilization - Art and Architecture during Mohenjo-Daro and Harappa Civilization - Gupta Architecture - Mauryan art		15
II	To explore and review the traditional art of following; - Ajanta& Ellora - Temples of Orissa - Khajuraho		15
III	Descriptive and Detailed study of the following - Mughal Miniatures - Rajasthani Miniatures - Pahari miniatures - Buddhist Jatakas		15

IV	Study of various art and architecture of following; • Tomb of Humayun • Mewar Art, • Miniature Paintings of India • Taj Mahal of Agra • Buland Darwaza	15
Total Contact Hours		60
Suggested Evaluation Methods		
Internal Assessment: 30		End Term Examination: 70
➤ Theory	30	➤ Theory: 70
• Class Participation:	5	Written Examination
• Seminar/presentation/assignment/quiz/class test etc.:	10	
• Mid-Term Exam:	15	
Part C-Learning Resources		
Recommended Books/e-resources/LMS:		
• Indian Architecture (Hindu & Buddhist) By Percy Brown		
*Indian Architecture (Islamic) By Percy Brown		
*The Art of India by C. Sivaramamurti		
*History of Fine Arts by Edith Tomory.		

Session: 2025-26			
Part A – Introduction			
Name of Programme	M.Sc. Home Science (Clothing and Textiles)		
Semester	3		
Name of the Course	Textile Waste Management		
Course Code	M24-CLT-310		
Course Type	DEC-2		
Level of the course	500-599		
Pre-requisite for the course (if any)	-		
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: To understand the usage of textile waste. CLO 2: To understand how to manage and reuse the textile waste. CLO 3: To get theoretical and practical knowledge about different types of methods used in waste management of textiles. CLO 4: To acquaint the students with skills of making appropriate materials by using textile wastes.		
Credits	Theory	Practical	Total
	4	0	4
Teaching Hours per week	4	0	4
Internal Assessment Marks	30	0	30
End Term Exam Marks	70	0	70
Max. Marks	100	0	100
Examination Time	3 hours	3 hours	
Part B- Contents of the Course			
Instructions for Paper- Setter: The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions will carry equal marks.			
Unit	Topics		Contact Hours
I	Definition of textile wastes. Different methods of managing textile waste. 3R s of waste management. Recycling vs upcycling.		15
II	Overview of textile industry. Waste fabrics- tool for women empowerment. Textile waste products and their usage.		15
III	Textile waste management and environmental concerns. Deadly waste in garment manufacturing. Textile industry-threat to nature. Different types of pollution.		15
IV	Solid waste management in textile industry. Awareness among new generation for value addition of post-consumer textile waste. Challenges faced by labourers in textile industry. Government initiatives and policies to manage textile waste.		15

Total Contact Hours		60	
Suggested Evaluation Methods			
Internal Assessment: 30		End Term Examination: 70	
➤ Theory	30	➤ Theory:	70
•Class Participation:	5	Written Examination	
•Seminar/presentation/assignment/quiz/class test etc.:	10		
•Mid-Term Exam:	15		
Part C-Learning Resources			
Recommended Books/e-resources/LMS:			
1. Rajkishore Nayak and Asis Patnayik (2021): Waste Management in the Fashion and Textile Industry.			
2. Pintu Pandit, Shakeel Ahmed, Kunal Singha, Sanjay Shrivastava (2020): Recycling from Waste in Fashion and Textiles: A Sustainable and Circular Economic Approach			
3. Ayşegül Körlü; Waste in Textile and Leather Sectors.			
4. Waste Management in the Fashion and Textile Industries. The Textile Institute Book Series.			
5. See Felett: C. (1980): A curriculum for preschools, Columbus: Charles E. Merrill Publishing company			
6. Hurlock, Elizabeth B. (2017). Child Development Sixth Edition. MC-Graw Hill Book Co. New Delhi.			
7. Berk, Laura E (2022). Child Development. 9th edition, Prentice Hall of India, Private Ltd. New Delhi.			

Session: 2025-26			
Part A – Introduction			
Name of the Programme	M.Sc. Home Science (Clothing and Textiles)		
Semester	3		
Name of the Course	Printing In Textiles		
Course Code	M24-CLT-311		
Course Type	PC-5		
Level of the course	500-599		
Pre-requisite for the course (if any)			
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO1: understand the different styles and methods involved in printing Textiles. CLO2: learn to make various Indian printing techniques CLO3: recognize the difference between different kinds of prints and their processing. CLO4: apply various printing methods on different types of fabrics and create designs.		
Credits	Theory	Practical	Total
	0	4	4
Teaching Hours per week	0	8	8
Internal Assessment Marks	0	30	30
End Term Exam Marks	0	70	70
Max. Marks	0	100	100
Examination Time	0	4 hours (or as decided by PGBOS)	
Part B- Contents of the Course			
Practicals			Contact Hours
	1. Develop at least two designs each for various printing techniques mentioned below, and Also create a Mixed sample (paper +fabric design) folder for the same along with sheet work. • Madhubani art • Kalamkari printing • Nib painting • Lippan art inspired Fabric painting • Gond Art • Mandala Art • Bagh/Rajput painting on Textiles 2. Develop at least three functional or decorative products using any printing technique done earlier above. You can combine and create a fusion surface design also. 3. Make one article using ecofriendly material or make use of textile upcycling techniques and use old discarded fabrics refreshing them using any printing or painting techniques .Offered end products can include wall hanging, diary covers, wall organizers, kits, fashion accessories etc.		
Suggested Evaluation Methods			
Internal Assessment: 30		End Term Examination: 70	

➤ Practicum	30	➤ Practicum	70
• Class Participation:	5	Lab record, Viva-Voce, write-up and execution of the practical	
• Seminar/Demonstration/Viva-voce/Lab records etc.:	10		
• Mid-Term Exam:	15		
Part C-Learning Resources			
Recommended Books/e-resources/LMS:			
1. A. Shenai (1987), Chemistry of Dyes and Principles of Dyeing Sevak Prakashan, Mumbai.			
2. H. A. Lubs, Robert E. The Chemistry of Synthetic Dyes and pigments, Krieger Publishing Company, New York.			
3. V. A. Shenai (1999), Azo Dyes – Facts and Figures – Sevak Prakashan, Mumbai.			
4. R. S. Prayag, Technology Textile Printing – Noyes Data Corporation.			
5. V.A. Shenai (1977), Technology of Printing – Technology of Textile Processing, Vol. IV, Sevak Publication.			
6. M.L. Gulrajani and Deepti Gupta (1990), Natural dyes and their Application to Textiles”, ed. I.T.I. Delhi Publications.			
7. John and Margarot Cannow (1994), Dye Plants and Dyeing, The Herbert Press (UK).			
8. ASTM and ISI Standards.			
9. K. Venkatrama (1970), Chemistry of Synthetic Dyes, Part I and II.			

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Part A – Introduction			
Name of the Programme	M.Sc. Home Science (Clothing and Textiles)		
Semester	3		
Name of the Course	Advance Fashion Illustration		
Course Code	M24-CLT-312		
Course Type	PC-6		
Level of the course	500-599		
Pre-requisite for the course (if any)			
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO1: Understand the sketching of basic action croquis CLO2: Illustrate garment details and developing a line of garment on theme. CLO3: Develop basic rendering techniques CLO4: Create and display theme based croquis		
Credits	Theory	Practical	Total
	0	4	4
Teaching Hours per week	0	8	8
Internal Assessment Marks	0	30	30
End Term Exam Marks	0	70	70
Max. Marks	0	100	100
Examination Time	0	4 hours (or as decided by PGBOS)	
Part B- Contents of the Course			
Practicals			Contact Hours
	• Sketching of different action croqui (based on basic figure learnt earlier) • Garments and garment details: - • Necklines and collars • Sleeves details • Skirts & pants • Blouses, coats & jackets • Drawstring & fastenings • Pleats, gathers, darts and tucks • Frills, flounces, ruffles, fringes • Cowls & cascades& headgears • Footwear • Bags & Purses • Jewelry • Basic Rendering Techniques: • - Colour Macrames and patch work. • -Shirring, smoking, quilting • Yokes and ties • . • 3. Sketching of Accessories: • Hats matching using different mediums. • Stripes Checks, gingham and plaids. • Patterns & textures • Shading techniques		120

	Theme Rendering: Developing a line of garments based on a theme (any one the following)		
	• Beachwear - Cocktail wear • Swimwear - Eveningwear • Casual wear - Ramp wear • Action/Sportswear – • Executive wear • Nightwear - Traditional Indian Costume		
Suggested Evaluation Methods			
Internal Assessment: 30		End Term Examination: 70	
➤ Practicum	30	➤ Practicum	70
• Class Participation:	5	Lab record, Viva-Voce, write-up and execution of the practical	
• Seminar/Demonstration/Viva-voce/Lab records etc.:	10		
• Mid-Term Exam:	15		
Part C-Learning Resources			
Recommended Books/e-resources/LMS:			
1. Abling Bina, Fashion Sketchbook, Fairchild Publishers, New York.			
2. Mckelvey Kathyarn, Illustrating Fashion Blackwell Science Munslow Janine.			
3. Seaman Julian, Professional Fashion Illustration, B.T. Batsord Ltd. London.			
4. Ireland, Patrick John, Fashion Illustration, B.T. Batsford Ltd. London.			
5. Allen Anne Seaman Julian Fashion Drawing The Basic Principles B.T. Batsford Ltd. London.			

Session: 2025-26			
Part A - Introduction			
Name of Programme	M.Sc. Home Science (Clothing and Textiles)		
Semester	3		
Name of the Course	Nutrition for Holistic Health		
Course Code	M24-OEC-322		
Course Type	OEC		
Level of the course	500-599		
Pre-requisite for the course (if any)	-		
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO1: Importance of macro nutrients in maintaining good health CLO2: Familiarize with the micro nutrients of food group system CLO 3: Impart knowledge on food groups and meal Planning. CLO4. Gain knowledge about balanced diet and therapeutic diet.		
Credits	Theory	Practical	Total
	2	0	2
Teaching Hours per week	2	0	2
Internal Assessment Marks	15	0	15
End Term Exam Marks	35	0	35
Max. Marks	50	0	50
Examination Time	3 hours		
Part B- Contents of the Course			
Instructions for Paper- Setter: The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All questions will carry equal marks.			
Unit	Topics	Contact Hours	
I	Food: Functions of food and classification. • Essential food constituents: ○ Carbohydrates ○ Proteins ○ Fats Fiber: Role of fiber in human nutrition.	8	
II	Dietary sources, functions, daily allowances, deficiency and excess of following: ○ Vitamin: A, D, E, K, B1, B2, B3, B12, C ○ Minerals: Calcium, iron, iodine, sodium, potassium.	8	

	• Functions of water in the body.		
III	• Food groups • Food Pyramid • Meal Planning: Meaning and introduction • Principles of meal planning, factors affecting it.	7	
IV	• My food plate • Balanced diet, its concept and points to be considered while planning a balanced diet. • Therapeutic diet and its diets and principals	7	
Total Contact Hours		30	
Suggested Evaluation Methods			
Internal Assessment: 15		End Term Examination: 35	
➤ Theory	15	➤ Theory:	35
• Class Participation:	4	Written Examination	
• Seminar/presentation/assignment/quiz/class test etc.:	4		
• Mid-Term Exam:	7		
Part C-Learning Resources			
Recommended Books/e-resources/LMS:			
4. B. Shrilakshmi, (2007): Dietetics, published by K.K Gupta for New Age International Pvt. Ltd. New Delhi			
6. Passmore P, and M.A. East Wood: Human Nutrition and Dietetics, Churchill Living Stone			
7. Antia F.P.and Philip Abraham (2001) Clinical Nutrition and Dietetics, Oxford Publishing Company			
8. Wohlshils and Goodheart: Modern Nutrition in Health and Disease, McLaren and Ubrman, Philadelphia			
9. Stanfield S. P. and Hui Y.H: Nutrition and Diet Therapy14th Edition Jones and Barlett Publishers Sudbury, Massachusetts			