

FOUR YEAR UNDERGRADUATE PROGRAM (2024-28)
Department of Home Science
Course Curriculum

Part A: Introduction			
Program: Bachelor in Arts <i>(Certificate/Diploma/Degree/Honors)</i>		Semester: I	Session: 2024-2025
1	Course Code	HSSC – 01T	
2	Course Title	INTRODUCTION TO TEXTILES	
3	Course Type	DSC	
4	Pre-requisite(if any)	<i>As per Program</i>	
5	Course Learning Outcomes (CLO)	<ul style="list-style-type: none"> • Develop an understanding of concepts and basics of textiles. • Understands and define the key textile terms. • Develop critical understanding of the techniques of yarn and fabric manufacture. • Identify the fibres, yarn and fabrics for its appropriate use. • Analyze and asses dyed and printed textiles. • Recommend the dyes, printing and finishing of textiles for specific use. 	
6	Credit Value	3 Credits	<i>1 Credit = 15 Hours Teaching - learning & Observation</i>
7	Total Marks	Max. Marks: 100	Min Passing Marks : 40

Part B: Content of the Course		
No.of Teaching-learning Periods (1 hour per period : 45 Periods (45 hours))		
Unit	Topics (Course Contents)	No. of Periods
1	Introduction to Textiles Definition of textile fibers and terminology Classification of textile fibers Physical and Chemical properties of fibers. Natural fibers (Morphology, production, properties and end uses) - Cellulosic fibers (Cotton, Jute)	12
2	Fibers Natural fibers (Morphology, production, properties and end uses) - Protein fibers (Silk, Wool) Man-made fibers: (Manufacturing process, properties and end uses) - Viscose Rayon - Acetate Rayon - Nylon - Polyester - Acrylic - Elastomeric	11

3	Yarn and Fabric Yarns - Classification of yarns: simple, ply and cord - Types and properties of yarn - Twist in yarn: “s” and “z”, number of twist Woven fabrics - Looms and its part - Classification Basic weaves Plain, Twill, Satin - Novelty weaves – Pile, Leno, Honeycomb -Other methods of fabric construction.	11
4	Coloration and Finishing of Textiles Dyes - Terms related to dyes, Classification of dyes - Direct, Acid, Basic and Reactive dyes Printing - Styles of printing, Modern methods of printing - Pre-preparation for printing (printing paste, printing table) Finishing- Basic finishes, Special finishes	11
Keywords: Textile terminology, properties of fibres, classification of fibre-natural and synthetics, yarn types, twist in yarn, classification of weaves, fabric construction ,dyes, printing, finishing.		

Part C: Learning Resources	
Text Books, Reference Books, Other Resources	
Text Book	
<ul style="list-style-type: none"> • डॉ मंजु पाटनी, (2022) वस्त्र विज्ञान एवं परिधान का परिचय - Edition, Star Publication. • Textile Science: an explanation of fiber properties - Gohl, E., Vile sky, L., 2 edition, New Age International Publishing. • डॉबक्शी, वस्त्र विज्ञान एवं परिधान का परिचय - 2nd Edition, Vinod Pustak Mandir. • डॉ शिप्रा बैनर्जी, (2018), तंतु एवं वस्त्र विज्ञान - छ. ग. हिन्दी ग्रंथ अकादमी • Fundamentals of Textiles and their care - Sushila Dhantyagi, 5th Edition, Orient Black Swan. • Textile testing and analysis - Collier, B.J., & Epps, H.H. 1998 Edition, Prentice Hall Publishers • Booth, J.E. (1996). <i>Principles of Textile Testing</i>. New Delhi: CBS Publishers & Distributors Pvt. Ltd. • Corbman, P.B. (1983). <i>Textiles: Fibre to Fabric</i>. McGraw-Hill Publishers. • Collier, B.J., & Epps, H.H. (1998). <i>Textile testing and analysis</i>. Prentice Hall Publishers. • Dantyagi, S. (1996). <i>Fundamentals of Textiles and their Care</i>. India: Orient Black swan Private Limited. • D’Souza, N. (2014). <i>Fabric Care</i>. New Delhi: New Age International Publishers. • Greaves, P.H., Saville, B. P. (1995). <i>Microscopy of textile fibres</i>. bios Scientific Publishers • Gohl, E., Vile sky, L. (2003), Textile Science: an explanation of fiber properties (2 edition), New 	
Other Resources:	
<ul style="list-style-type: none"> • Manmade Fiber: https://youtu.be/Nplhszsvj6y • Synthetic Fiber Nylon: https://youtu.be/Wzhvqe3movi 	

- Animal Fiber Silk: <https://youtu.be/X6mjzfhtygy>
- Animal Fiber Wool: <https://youtu.be/Kdrsko1yr88>
- Classification Of Fiber: <https://youtu.be/Uvcoio2qefg>
- Methods Of Printing: <https://youtu.be/l9s-Zdufeo8>
- Study Of Yarn: <https://youtu.be/-Fhgijuaqzo>
- Fabric Construction: <https://youtu.be/Upwklpca5w8>
- Mechanical Finishes: <https://youtu.be/Vwkvkr1kpt8>
- Chemical Finishes: <https://youtu.be/B6xaduge1w8>
- Study Of Dyes: <https://youtu.be/6ortgd1mua4>

Bandhej, Lahariya <https://docs.google.com/presentation/d/1YB4AZ398BgNfvxGqnJodPva2VG7O4ZUVmtLBBiUYq3s/edit?usp=sharing>

Part D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

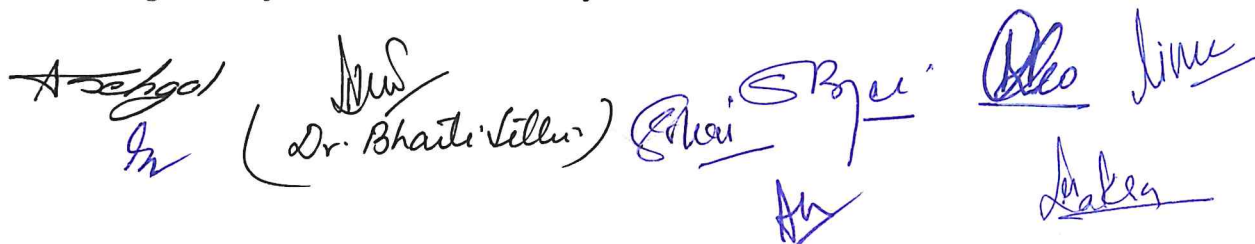
Maximum Marks: 100 Marks

Continuous Internal Assessment (CIA): 30 Marks

End Semester Exam (ESE): 70 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 20 +20 Assignment / Seminar - 10 Total Marks - 30	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 30 Marks
End Semester Exam (ESE):	Two section – A & B Section A: Q1 Objective-10x1=10 Mark; Q2.Short answer type-5x4=20 Marks Section B: Descriptive answer type qts.1 out of 2 from each unit-4x10=40 Marks	

Name and Signature of Convener & Members of CBoS:



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1	Course Code	HSSC-01P	
2	Course Title	INTRODUCTION TO TEXTILES (PRACTICAL)	
3	Course Type	DSC	
4	Pre-requisite (if, any)	As per requirement	
5	Course Learning Outcomes (CLO)	<ul style="list-style-type: none"> • Develop an understanding of concepts and basics of textiles. • Understands and define the key textile terms. • Develop critical understanding of the techniques of yarn and fabric manufacture. • Identify the fibres, yarn and fabrics for its appropriate use. • Analyze and asses dyed and printed textiles. • Recommend the dyes, printing and finishing of textiles for specific use. 	
6	Credit Value	1 Credits	1 Credit =30 Hours Laboratory or Field learning/Training
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20
PART -B: Content of the Course			
Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)			
Module		Topics (Course contents)	No. of Period
Lab./Field Training/ Experiment Contents of Course		1. Identification of textile fibers: <ul style="list-style-type: none"> • Visual test / Microscopic test • Burning test /Chemical test 2. Weaves and their variations: <ul style="list-style-type: none"> • Plain weave / Twill weave • Satin & Sateen weave • Honeycomb & Birdseye weave 3. Handloom center visit 4. Fiber sample collection 5. Prepare printing samples 6. Prepare Tie & dye sample	30
Keywords		Textile terminology, properties of fibres, classification of fibre-natural and synthetics, yarn types, twist in yarn, classification of weaves, fabric construction , dyes, printing, finishing.	



PART-C: Learning Resources**Text Books, Reference Books and Others***Text Books Recommended –*

- वस्त्रविज्ञान एवंपरिधानकापरिचय - डॉमंजुपाटनी, 2022 Edition, Star Publication.
- Textile Science: an explanation of fiber properties - Gohl, E., Vile sky, L., 2 edition, New Age International Publishing.
- वस्त्रविज्ञान एवंपरिधानकापरिचय - डॉबक्शी, 2nd Edition, Vinod Pustak Mandir.
- तंतुएवंवस्त्रविज्ञान - डॉशिप्राबैनर्जी
- Fundamentals of Textiles and their care - SushilaDhantiyagi, 5th Edition, Orient Black Swan.
- Textile testing and analysis - Collier, B.J., & Epps, H.H. 1998 Edition, Prentice Hall Publishers
- Booth, J.E. (1996). *Principles of Textile Testing*. New Delhi: CBS Publishers & Distributors Pvt. Ltd.
- Corbman, P.B. (1983). *Textiles: Fibre to Fabric*. McGraw-Hill Publishers.

Online Resources–

- e-Resources / e-books and e-learning portals

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- e-Resources / e-books and e-learning portals

PART -D: Assessment and Evaluation**Suggested Continuous Evaluation Methods:****Maximum Marks: 50 Marks****Continuous Internal Assessment(CIA): 15 Marks****End Semester Exam(ESE): 35 Marks**

Continuous Internal Assessment(CIA): (By Course Teacher)	Internal Test / Quiz-(2): 10 & 10 Assignment/Seminar +Attendance - 05 Total Marks - 15	Better marks out of the two Test / Quiz +obtained marks in Assignment shall be considered against 15 Marks
End Semester Exam (ESE):	Laboratory / Field Skill Performance: On spot Assessment A. Performed the Task based on lab. work - 20 Marks B. Spotting based on tools & technology (written) – 10 Marks C. Viva-voce (based on principle/technology) - 05 Marks	Managed by Course teacher as per lab. status

Name and Signature of Convener & Members of CBoS:

