

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

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

<b>Part B: Content of the Course</b>		
No.of Teaching-learning Periods (1 hour per period : 45 Periods (45 hours))		
Unit	Topics (Course Contents)	No. of Periods
1	<b>Introduction to Textiles</b> 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	<b>Fibers</b> 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	<b>Yarn and Fabric</b> 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	<b>Coloration and Finishing of Textiles</b> 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
<b>Keywords:</b> Textile terminology, properties of fibres, classification of fibre-natural and synthetics, yarn types, twist in yarn, classification of weaves, fabric construction, dyes, printing, finishing.		

<b>Part C: Learning Resources</b>	
Text Books. Reference Books, Other Resources	
<b>Text Book</b>	
<ul style="list-style-type: none"> <li>• डॉ मंजु पाटनी, (2022) वस्त्र विज्ञान एवं परिधान का परिचय - Edition, Star Publication.</li> <li>• Textile Science: an explanation of fiber properties - Gohl, E., Vile sky, L., 2 edition, New Age International Publishing.</li> <li>• डॉ बक्षी, वस्त्र विज्ञान एवं परिधान का परिचय - 2<sup>nd</sup> Edition, Vinod Pustak Mandir.</li> <li>• डॉ शिप्रा बैनर्जी, (2018), तंतु एवं वस्त्र विज्ञान - छ. ग. हिन्दी ग्रंथ अकादमी</li> <li>• Fundamentals of Textiles and their care - Sushila Dhantiyagi, 5<sup>th</sup> Edition, Orient Black Swan.</li> <li>• Textile testing and analysis - Collier, B.J., &amp; Epps, H.H. 1998 Edition, Prentice Hall Publishers</li> <li>• Booth, J.E. (1996). <i>Principles of Textile Testing</i>. New Delhi: CBS Publishers &amp; Distributors Pvt. Ltd.</li> <li>• Corbman, P.B. (1983). <i>Textiles: Fibre to Fabric</i>. McGraw-Hill Publishers.</li> <li>• Collier, B.J., &amp; Epps, H.H. (1998). <i>Textile testing and analysis</i>. Prentice Hall Publishers.</li> <li>• Dantiyagi, S. (1996). <i>Fundamentals of Textiles and their Care</i>. India: Orient Black swan Private Limited.</li> <li>• D'Souza, N. (2014). <i>Fabric Care</i>. New Delhi: New Age International Publishers.</li> <li>• Greaves, P.H., Saville, B. P. (1995). <i>Microscopy of textile fibres</i>. bios Scientific Publishers</li> <li>• Gohl, E., Vile sky, L. (2003), Textile Science: an explanation of fiber properties (2 edition), New</li> </ul>	
<b>Other Resources:</b>	
<ul style="list-style-type: none"> <li>• Manmade Fiber: <a href="https://youtu.be/Nplhszsvi6y">https://youtu.be/Nplhszsvi6y</a></li> <li>• Synthetic Fiber Nylon: <a href="https://youtu.be/Wzhvqe3movi">https://youtu.be/Wzhvqe3movi</a></li> </ul>	

B.A. (Home Science) Page No: 105

- Animal Fiber Silk: <https://youtu.be/X6mjzfhdygy>
- 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/Vwkvkrkpt8>
- 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:

*Shri A. Singh*  
(D.A. Amata School)

*B. Singh*  
*J. Singh*

*S. Singh*  
*J. Singh*

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

PART- A: Introduction		
Program: Bachelor in Arts (Certificate/Diploma/Degree/Honors)		Semester -I
Session: 2024-2025		
1	Course Code	HSGE-01P
2	Course Title	INTRODUCTION TO TEXTILES (PRACTICAL)
3	Course Type	Generic Elective (Practical)
4	Pre-requisite (if, any)	As per requirement
5	Course Learning Outcomes (CLO)	<ul style="list-style-type: none"> <li>• Develop an understanding of concepts and basics of textiles.</li> <li>• Understands and define the key textile terms.</li> <li>• Develop critical understanding of the techniques of yarn and fabric manufacture.</li> <li>• Identify the fibres, yarn and fabrics for its appropriate use.</li> <li>• Analyze and asses dyed and printed textiles.</li> <li>• Recommend the dyes, printing and finishing of textiles for specific use.</li> </ul>
6	Credit Value	1 Credits <i>1 Credit =30 Hours Laboratory or Field learning/Training</i>
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	<ol style="list-style-type: none"> <li>1. Identification of textile fibers: <ul style="list-style-type: none"> <li>• Visual test / Microscopic test</li> <li>• Burning test /Chemical test</li> </ul> </li> <li>2. Weaves and their variations: <ul style="list-style-type: none"> <li>• Plain weave / Twill weave</li> <li>• Satin &amp; Sateen weave</li> <li>• Honeycomb &amp; Birdseye weave</li> </ul> </li> <li>3. Handloom center visit</li> <li>4. Fiber sample collection</li> <li>5, Prepare printing samples</li> <li>6. Prepare Tie &amp; dye sample</li> </ol>	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.	

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**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, 2<sup>nd</sup> Edition, Vinod Pustak Mandir.
- तंतुएवंवस्त्रविज्ञान - डॉशिप्राबैनर्जी
- Fundamentals of Textiles and their care - SushilaDhantyaagi, 5<sup>th</sup> 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.

**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**

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

**Name and Signature of Convener & Members of CBoS:**

A. Sehgal  
(Dr. Amrita Sehgal)

Shree

B. Singh

W

In

J. Singh

A. Kumar

S. Singh