

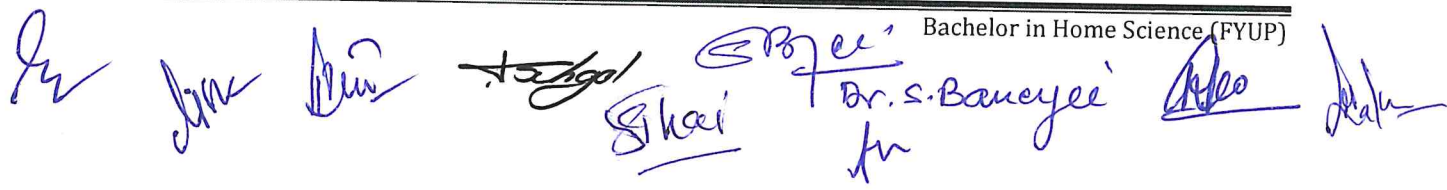
21

FOUR YEAR UNDERGRADUATE PROGRAM 2024-28
FACULTY OF Home Science
COURSE CURRICULUM

PART A: Introduction			
Program: Bachelor in Home Science <i>(Certificate / Diploma / Degree/Honors)</i>		Semester : II	Session: 2024-2025
1	Course Code	HSSC – 04 T	
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)	1. Develop an understanding of concepts and basics of textiles. 2. Understands and define the key textile terms. 3. Develop critical understanding of the techniques of yarn and fabric manufacture. 4. Identify the fibres, yarn and fabrics for its appropriate use. 5. Analyze and asses dyed and printed textiles. Recommend the dyes, printing and finishing of textiles for specific use.	
6	Credit Value	3 C	<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		
Total No. of Teaching – learning Periods (1 hour per period : 45Period (45 hours)		
Unit	Topics (Course Contents)	No. of Period
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

Bachelor in Home Science (FYUP)


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 Ghai
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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 books Recommended –

1. वस्त्र विज्ञान एवं परिधान का परिचय - डॉ मंजु पाटनी, 2022 Edition, Star Publication.
2. Textile Science: an explanation of fiber properties - Gohl, E., Vile sky, L., 2 edition, New Age International Publishing.
3. वस्त्र विज्ञान एवं परिधान का परिचय - डॉ वक्शी, 2nd Edition, Vinod Pustak Mandir.
4. तंतु एवं वस्त्र विज्ञान - डॉ शिप्रा ब्रैनर्जी
5. Fundamentals of Textiles and their care - Sushila Dhantayagi, 5th Edition, Orient Black Swan.
6. Textile testing and analysis - Collier, B.J., & Epps, H.H. 1998 Edition, Prentice Hall Publishers
7. Booth, J.E. (1996). *Principles of Textile Testing*. New Delhi: CBS Publishers & Distributors Pvt. Ltd.
8. Corbman, P.B. (1983). *Textiles: Fibre to Fabric*. McGraw-Hill Publishers.
9. Collier, B.J., & Epps, H.H. (1998). *Textile testing and analysis*. Prentice Hall Publishers.
10. Dantayagi, S. (1996). *Fundamentals of Textiles and their Care*. India: Orient Black swan Private Limited.
11. D'Souza, N. (2014). *Fabric Care*. New Delhi: New Age International Publishers.
12. Greaves, P.H., Saville, B. P. (1995). *Microscopy of textile fibres*. bios Scientific Publishers
13. Gohl, E., Vile sky, L. (2003), *Textile Science: an explanation of fiber properties* (2 edition), New

Other Resources:

1. Manmade Fiber: <https://youtu.be/Nplhszsvj6y>
2. Synthetic Fiber Nylon: <https://youtu.be/Wzhvqe3movi>
3. Animal Fiber Silk: <https://youtu.be/X6mjzfhvgy>
4. Animal Fiber Wool: <https://youtu.be/Kdrsko1yr88>
5. Classification Of Fiber: <https://youtu.be/Uvcoio2qefg>
6. Methods Of Printing: <https://youtu.be/l9s-Zdufeo8>
7. Study Of Yarn: <https://youtu.be/-Fhgijuaqzo>
8. Fabric Construction: <https://youtu.be/Upwklpca5w8>
9. Mechanical Finishes: <https://youtu.be/Vwkvkrllkpt8>
10. Chemical Finishes: <https://youtu.be/B6xaduge1w8>
11. Study Of Dyes: <https://youtu.be/6ortgd1mua4>

PART D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 marks
Continuous Internal Assessment (CIA): 30 Marks
Semester End Exam (SEE): 70 Marks

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

Name and Signature of Convener & Members of CBOS:

(Dr. Amita Sehgal) Dr. S. Banerjee

23

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COURSE CURRICULUM

Part A: Introduction

Program: Bachelor in Home Science (Certificate / Diploma / Degree/Honors)		Semester : II	Session : 2024-25
1	Course Code	HSSC – 04P	
2	Course Title	INTRODUCTION TO TEXTILES (Practical)	
3	Course Type	DSC	
4	Pre-requisite(if any)	<i>As per Program</i>	
5	Course Learning Outcomes (CLO)	<ol style="list-style-type: none"> 1. Develop an understanding of concepts and basics of textiles. 2. Understands and define the key textile terms. 3. Develop critical understanding of the techniques of yarn and fabric manufacture. 4. Identify the fibres, yarn and fabrics for its appropriate use. 5. Analyze and asses dyed and printed textiles. <ul style="list-style-type: none"> • Recommend the dyes, printing and finishing of textiles for specific use. 	
6	Credit Value	1 C	<i>1 Credit = 30 Hrs Laboratory /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)		No. of Periods
Module	Topics (Course Contenets)	
Lab/ Field Trining/ Experiment Contents of tcourse	<ol style="list-style-type: none"> 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
Key Words	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 Books Recommended :**

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3. Animal Fiber Silk: <https://youtu.be/X6mjzfhdygy>
4. Animal Fiber Wool: <https://youtu.be/Kdrsko1yr88>
5. Classification Of Fiber: <https://youtu.be/Uvcoio2qefg>
6. Methods Of Printing: <https://youtu.be/l9s-Zdufeo8>
7. Study Of Yarn: <https://youtu.be/-Fhgjuagzo>
8. Fabric Construction: <https://youtu.be/Upwklpca5w8>
9. Mechanical Finishes: <https://youtu.be/Vwkvkr1kpt8>
10. Chemical Finishes: <https://youtu.be/B6xaduge1w8>
11. Study Of Dyes: <https://youtu.be/6ortgd1mua4>

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

Internal Assessment: Continuous Internal Assessment (CIA)	Internal Test / Quiz (2) -	10 & 10	Better marks out of the two tests/ Quiz + Obtained marks in Assignment shall be considered against 15 Marks .
	Assignment/Seminar+ Attendance -	05	
	Total Marks -	15	
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	

Name and Signature of Convener & Members of CBOS

Dr. Mahiswar (Dr. Anita Singh) Dr. SoBanyee