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

PART A: Introduction				
Program:**Bachelor in Home Science** *(Certificate / Diploma / Degree/Honors)*		**Semester : II**		Session:**2024-2025**
1	Course Code	**HSGE – 02 T**		
2	Course Title	**INTRODUCTION TO TEXTILES**		
3	Course Type	Generic Elective		
4	Pre-requisite(if any)	***As per Program***		
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**	***1 Credit = 15 Hours Teaching Learning & Observation***	
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

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 - डॉवक्शी, 2nd Edition, Vinod Pustak Mandir.
4. तंतु एवं वस्त्र विज्ञान - डॉ शिप्रा बैनर्जी
5. Fundamentals of Textiles and their care - SushsilaDhantyagi, 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. Dantyagi, 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/X6mjzfhtygy
4. Animal Fiber Wool: Https://Youtu.Be/Kdrsko1yr88
5. Classification Of Fiber: Https://Youtu.Be/Uvcoio2qefg
6. Methods Of Printing: Https://Youtu.Be/I9s-Zdufeo8
7. Study Of Yarn: Https://Youtu.Be/-Fhgijuaqzo
8. Fabric Construction: Https://Youtu.Be/Upwklpca5w8
9. Mechanical Finishes: Https://Youtu.Be/Vwkvkrlkpt8
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 Assesment (CIA): 30 Marks

Semester End Exam (SEE): 70 Marks

Internal Assessment: Continuous Internal Assessment (CIA)	Internal Test / Quiz(2) –**20+20** Assignment/Seminar – **10** Total Marks– **30**	Better marks out of the two tests/ Quiz + Obtained marks in assignment shall be considered against 30 Marks
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:

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1	Course Code	HSGE – 02P		
2	Course Title	**INTRODUCTION TO TEXTILES (Practical)**		
3	Course Type	Generic Elective		
4	Pre-requisite(if any)	***As per Program***		
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	**1 C**	***1 Credit = 30 Hrs Laboratory /Field Learing/ Training***	
7	Total Marks	**Max. Marks: 50**		**Min Passing Marks 20**

PART B: Content of the Course		No. of Periods
Total No. of Learning- Training/ Performance Periods : 30 Periods (30 Hours)		
Module	**Topics (Course Contenets)**	
Lab/ Field Trining/ Experiment Contents of tcourse	1. Identification of textile fibers: • Visual test / Microscopic test • Burning test /Chemical test 2. Weaves and their variations: • 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

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4. Animal Fiber Wool: Https://Youtu.Be/Kdrsko1yr88
5. Classification Of Fiber: Https://Youtu.Be/Uvcoio2qefg
6. Methods Of Printing: Https://Youtu.Be/I9s-Zdufeo8
7. Study Of Yarn: Https://Youtu.Be/-Fhgijuaqzo
8. Fabric Construction: Https://Youtu.Be/Upwklpca5w8
9. Mechanical Finishes: Https://Youtu.Be/Vwkvkrlkpt8
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** Assignment/Seminar+ Attendance - **05** Total Marks - **15**	Better marks out of the two tests/ Quiz + Obtained marls 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**	

Name and Signature of Convener & Members of CBOS

(Dr S Mishra) (S. Sheri)