



**Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore**  
**Shri Vaishnav Institute of Textile Technology**  
**Choice Based Credit System (CBCS) in Light of NEP-2020**  
**Generic Elective for PG Courses**  
**(2021-2023)**

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MTTX500	GE	TEXTILE FIBRE	60	20	20	-	-	3	0	0	3

**Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

**\*Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

**Course Educational Objectives (CEOs):**

1. To provide the basic knowledge of principle and manufacturing process of natural and manmade fibre.
2. To impart the knowledge of various properties of different natural and manmade fibre.

**Course Outcomes (COs):**

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes.

The students will be able to

1. Comprehend the correct manufacturing process of various natural and manmade fibre.
2. Identify different natural and manmade fibre accurately.
3. Demonstrate their knowledge on various fibres and their properties.

**Syllabus:**

**UNIT I Introduction to Fibres and Natural Cellulosic Fibres**

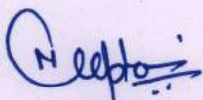
**10 Hrs.**

General classification of fibres, Structure, properties and uses of cotton, Structure, properties and uses of bast fibres

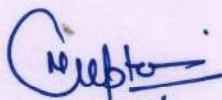
**UNIT II Natural Protein Fibres**

**9 Hrs.**

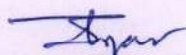
Structure, properties, uses and brief description of natural protein fibres: wool and silk fibres.




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**UNIT III Introduction to Polymers and Synthetic Regenerated Fibres** **8 Hrs.**

Basic concept of polymer, their classification, methods of polymerization, molecular weight and its measurement, distribution and importance, Basic idea of manufacturing process, properties and use of regenerated fibres e.g. rayon.

**UNIT IV Synthetic Manmade Fibres: Polyester and Nylon** **7 Hrs.**

Basic idea of manufacturing process, properties and use of man-made fibres e.g. rayon, nylon, polyester.

**UNIT V Different Fibre Characterization Techniques** **8 Hrs.**

Basic idea of manufacturing process, properties and use of man-made fibres: acrylic, polyolephins.

**Text Books:**

1. Manufactured Fibre Technology, Gupta, V.B., Kothari, V.K., Springer, 1997.
2. Textile Science: An Explanation of Fibre Properties, Gohl, E. P. G., Vilensky, L. D., CBS Publisher, 1984.

**References:**

1. Manmade Fibres – Moncrief, R.W., Halstead Press, New York, 1975.
2. Production of Synthetic Fibres – Vaidya, A. A., Prentice Hall of India, Private Limited, New Delhi, 1998.

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MTTX501	GE	INTRODUCTION TO FASHION	60	20	20	-	-	3	0	0	3

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**Course Educational Objectives (CEOs):**

1. To introduce about the concept of fashion.
2. To understand the designing terms and elements used in garments related to fashion.
3. To demonstrate the effect and application of color psychology.
4. To give basic side of draping, darting and designing of different parts of garment.

**Course Outcomes (COs):**

Students will be able:

1. To understand the fashion trends and forecast.
2. To make the different designs applying elements of design.
3. To apply colors according to the psychology.
4. To make different parts and dresses using draping technique.

**Syllabus:**

**UNIT I Introduction to Fashion**

**9 Hrs.**

Introduction to Fashion definition and origin terms and definitions, Traditional Indian garments and Embroidery, Ethical Garments.

**UNIT II Classification of Fashion**

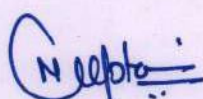
**9 Hrs.**

Classification of fashion style, fashion cycle and reasons for change in fashion.

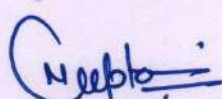
**UNIT III Fashion Lines**

**9 Hrs.**

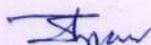
Introduction to necklines, waistlines, hemlines, collars, sleeves, cuffs, plackets and pockets. Fullness applied in apparel tucks, pleats, gathers, shirring, frills or ruffles, flounces.



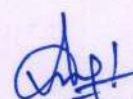
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**UNIT IV Draping**

**9 Hrs.**

Draping: Introduction to draping, equipment and dress forms, Preparation of muslin for draping, fabric behavior, Principles and techniques of draping.

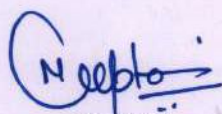
**UNIT V Concepts of Design**

**9 Hrs.**

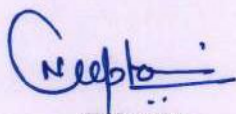
Silhouettes - Types and their application in everyday use, Skirts- Basic concepts in designing the variety of skirts, Trousers- Basic concepts in designing the variety of trousers, Wardrobe planning - design development for formal, casual, party and sports wears for men, women and kids based on their location.

**References:**

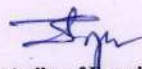
1. Draping for Apparel Industry- Helen Joseph Armstrong
2. Introduction to clothing production management-. J. Chuter
3. Apparel manufacturing handbook-Jacob Soliner
4. The technology of clothing manufacture-Herold Carr and Barbara Iatham, Om Book Service, 1994.



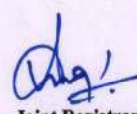
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**Course Educational Objectives (CEOs):**

1. To impart knowledge about the principle and manufacturing process of high performance fibres.
2. To understand accurately the optical, Electrical and Thermal properties of different synthetic fibres.

**Course Outcomes (COs):**

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes.

The students will be able to

1. Identify and comprehend the properties of synthetic fibres accurately.
2. Explain the correct manufacturing process of various synthetic fibres.
3. Explain optical and thermal behavior of the fibres.

**Syllabus:**

**UNIT I Inorganic Fibres**

**10 Hrs.**

Basic idea of manufacturing process, properties and use of Glass and Carbon fibre.

**UNIT II Organic Fibres**

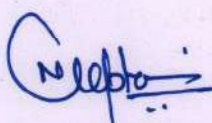
**9 Hrs.**

Basic idea of manufacturing process, properties and use of aramid, kevler nomax, Spandex and Spectra.

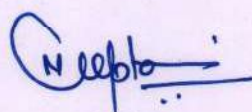
**UNIT III Introduction to High-performance Fibres: Special Fibres**

**8 Hrs.**

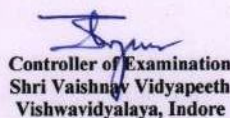
Basic concept of nano fibres, bi-component, hollow and tri-lobal fibres.



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**UNIT IV Introduction to Texturing**

**9 Hrs.**

Importance, classification, and basic principle of Texturing.

**UNIT V Physical properties of high performance Fibres**

**9 Hrs.**

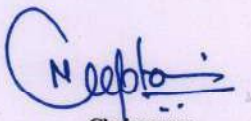
A brief idea about the optical properties of fibre, Brief idea about frictional properties of fibre, Brief Idea about electrical properties of fibres, Brief Idea about thermal properties of fibres. Brief idea about tensile properties of fibres.

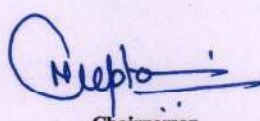
**Text Books:**

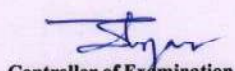
1. Physical Properties of Textile Fibres, Hearle, J. W. S., Morton, W. E., Wood Head Publishing, 2008.
2. 4th Edition Manufactured Fibre Technology, Gupta, V.B., Kothari, V.K., Springer, 1997.
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