



**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*				
<b>GPTX101</b>	<b>GE</b>	<b>TEXTILE FIBRE</b>	<b>60</b>	<b>20</b>	<b>20</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>

**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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