

**M.Voc. in Fashion Design & Technology**

**Semester II**

**Elective Course MVFT-113: Ultra Materials**

**Credits: (T-1, P-6=4)**

**Level: Post Graduate**

**Semester: II Semester**

**Pre requisite: Basic Knowledge of Textile and other material**

**Course Objective**

The module is focused to make students explore various types of innovative materials and their usage. This study will multiply the innovation capacity of a designer to experiment with varied materials and will help them to lead to innovation.

<b>Units</b>	<b>Topic</b>
<b>I</b>	Understanding Materials and its Behavior Ultra Materials
<b>II</b>	Ultra Materials <ul style="list-style-type: none"><li>• Metals</li><li>• Polymers</li><li>• Glass</li><li>• Ceramics</li><li>• Naturals</li></ul>
<b>III</b>	Material Intelligence & its exploration in <ul style="list-style-type: none"><li>• Textiles</li><li>• Fashion</li><li>• Art</li><li>• Product Design</li></ul>
<b>IV</b>	Functional textiles I <ul style="list-style-type: none"><li>• Medical textiles</li><li>• Protective Textiles</li><li>• Chemical Protective Textiles</li><li>• Protection from Radiation</li><li>• Protection from Extreme Cold</li><li>• Clean Room textiles</li></ul>
<b>V</b>	Functional textiles II <ul style="list-style-type: none"><li>• High Visibility Textiles</li><li>• Nano Technology Applied</li><li>• Wrinkle Resistant</li><li>• Anti-Bacterial Textiles</li><li>• Anti-Static Textiles</li></ul>

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| • UV Protection Textiles |
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**Learning Outcome:**

- Students will be able to work on various innovative materials
- They will be able to project their ideas through the use of different material's exploration in an effective way

**References Material:**

- Ultra Materials by George M. Ballerina & Andrew Dent



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