**Lecture 6 – Geometry of Yarns**

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| Define Yarn linear density. Describe the measurement principles of Yarn linear density. |
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| Describe the measurement of Yarn twist for single and folded yarn. |
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| Describe relation between Yarn linear density and Yarn twist. |
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**Lecture 8 – Geometry of fabrics**

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| Describe basic Design parameters of woven and knitted fabrics. |
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| Describe measurement of Mass per unit area (fabric weight). |
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| Describe measurement of fabric Porosity. |
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| Describe measurement of fabric Thickness. |
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**Lecture 9 – Ultimatimate mechanical characteristics**

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| Describe the measurement principles for Tensile Strength, Strain, and Young modulus. |
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| Draw and describe tensile curve of woven fabric. |
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| Define Breaking Length. |
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**Lecture 11 – Shape stability**

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| Describe the measurement of Bending Stiffness. |
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| Describe the measurement of Drapability. |
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| Describe the measurement of Crease Recovery. |
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**Lectures 12 -13 – Durability and Comfort Properties**

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| Describe the measurement principles of Abrasion Resistance and Pilling. |
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| Describe the measurement of Non-flammability using LOI method. |
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| Describe the measurement of Air Permeability. |
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| Describe the measurement of Surface wetting. |
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