TRINITY COLLEGE FOR WOMEN
NAMAKKAL

DEPARTMENT OF COSTUME DESIGN & FASHION

TECHNICAL TEXTILE

EVEN SEMESTER

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Technical Textile

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Introduction:- Technical Textiles are defined as comprising all those textile based products which are used principally for their performance or functional characteristics rather than for this aesthetic or are used for non consumer application.

According to the industry some technical Textile are given by below:-

1. AGRO TEXTILE

Agriculture, Horticulture, Forestry & Fishing segments are called agro textile.

Some applications of the agro textiles are given by below:-

- Preventing erosion.
- Fishing nets.
- For layer separation.
- In green house cover effects.
- In nets for plants.
- As sun screens.
- As packing materials for storing grass.
- Knitted nets.
- Anti birds nets.
- Materials for ground & plant water management.

2. CLOTHING TEXTILE

Clothtech includes the technical components of clothing. It has some important properties, such as, High resistance to temperature, High absorbency, Durability, Water proof, Pressure & other extreme condition.

Some applications of the clothing textiles are given by below:-

- ✓ In shoe components like shoe laces.
- ✓ For insulation & structures like interlining.
- ✓ Sewing products like sewing threads, labels, fasteners (Zips, Velcro)

3. ECO TEXTILE

Promote new innovations, In an eco friendly manner

OEKTECH is the term used for technical Textiles that are used for environmental protection.

Some features of eco textiles are given by below:-

- ✓ They utilize ecologically grown fibres.
- ✓ They are processed with leas drainaging inputs.
- ✓ The processing units are equipped with good sewage treated.

Some applications of the eco textiles are given by below:-

- ❖ Soil Seals.
- ❖ Textile drainage systems.
- ❖ Textiles for protection against hazardous substances.
- ❖ Textile noise barrier systems.
- ❖ Erosion prevention systems.
- ❖ Filter systems.
- ❖ Mobile containers.



4. GEO TEXTILE

A geo textile can be defined as; Penneable geo synthetic comprised solely of Textiles Geo textiles are extensively used with; Soil, Rock, Earth or any other geo technical Engineering material.

Geo Textiles has three basic function & they are given by below:-

i. Separation
ii. Stabilization
iii. Filtration

Some applications of the geo textiles are given by below:-

- Roadways parking tots, loading areas & construction sites.
- Prevent drainage systems.
- Filtration, protection & separation function.
- Fluid transmission.
- For water way erosion control.
- Reduce soil piping & embankment erosion.
- Prevention of weed growth.
- Moisture conservation for horticulture

5. HOME TEXTILE

A direct upon all sorts of consumer textile markets, including both clothing & furnishing these are called home textile.

Some applications of the home textiles are given by below:-

- Woven & knit wipes.
- Non-woven wipes.
- Ticking.
- Spring Insulators.
- Platform cloth (used in famishing).
- Dust cloth fabrics.
- Skirt linings & other fabrics (for used in furnishing).
- Carpet backings.
- Sewing thread are used in furnishing & house hold textile.
- Curtain.
- Bed sheet, Bed cover.

6. INDUSTRIAL TEXTILE

INDUTECH is the name given to textiles that are used for divers applications like filtration, conveying & cleaning etc.

Some applications of the industrial textiles are given by below:-

- Dry & wet filtration.
- Polishing cloths.
- Needle punched felt.
- Open weave fabric.
- Drive belts conveyors.
- Loop & eye fastenings.
- Basic fabrics for coating.
- Coated fabrics.
- Fusing threads & rods.
- Fire retardant fabrics.
- Heat resistance fibres/yarns.
- Coated & extra dual yarns.
- Yarns for composites.
- High tenacity yarns.

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