

DEPARTMENT OF TEXTILE TECHNOLOGY

II YEAR/ IV SEM

TT 6402 FABRIC STRUCTURE

UNIT I

1. Give the design, draft and pegplan of the following twill derivatives

i) Herringbone twill

ii) Transposed twill

iii) Wavy twill

iv) Broken twill

2. Draw the design of plain weave and its derivatives. Discuss its characteristics and applications.

3. State and explain the twill weave and its derivatives

4. State and explain the plain weave characteristics and its derivatives then uses?

5. Explain in detail about the loom requirements required to produce plain and twill weave fabrics?

UNIT II

6. Give the design and draft for the following types of honeycomb weaves and explain the difference between them.

i) Ordinary honey comb.

ii) Brighten honey comb.

7. Explain in detail the light & pigment theory of colour.

8. Construct a crepe weave based on any three principles.

9. Discuss the various means of realizing Mock – leno effects in fabrics with the suitable designs and thread diagrams.

10. Draw the design of Huck-a-back weaves. Discuss its characteristics and applications.

UNIT III

11) with neat sketch explain the design for twill faced Bedford cord

12) With neat sketch explain the design of alternate 10-end plain faced bed ford cord.

13) Design and explain the formation of welt fabrics.

- 14) State and explain the properties and applications of welt and piques fabric.
- 15) Design and explain the formation of extra warp figuring using single color.
- 16) State the loom requirements, properties and applications of extra weft figuring fabrics.
- 17) With neat sketch explain the design for warp backed fabric.
- 18) Explain the importance of wadding threads in a structure.

UNIT IV

- 19) With neat sketch explain the mechanism of formation of terry pile fabric.
- 20) With neat sketch explain the design for plain back velveteen.
- 21) With neat sketch explain the design for twill back velveteen.
- 22) With neat sketch explain the design of corduroy velveteen.
- 23) With neat sketch explain the mechanism of formation of wire pile fabric.

UNIT V

- 24) With neat sketch explain the elaborate notes on self twilling jacquard.
- 25) With neat sketch explain the elaborate notes on gauze and leno weaves.
- 26) Write short notes on 3-D fabrics formation.
- 27) Explain in detail about the double cloth and its classification?
- 28) Explain in detail about the self stitched and centre stitched double cloth?