

# GUJARAT TECHNOLOGICAL UNIVERSITY

## B. E. SEMESTER: VI

### TEXTILE TECHNOLOGY

Subject Name: **Advance Fabric Structure & CAD**

Subject Code: **162902**

Teaching Scheme				Evaluation Scheme		
Theory	Tutorial	Practical	Total	University Exam (Theory) (E)	Mid Sem Exam (Theory) (M)	Practical (I)
5	0	2	7	70	30	50

Sr. No	Course Content	Total Hrs.	Text Books
1.	Instruction to single color & weaves effect. Shepherd's check, spot, continuous line, all over, hair line, step effect.	03	Watson Textile Design and colour- Z.GROSICKI
2.	Compound color & weave effect, stripe & check	03	
3.	Simple spot figure designing, factors affecting spot.	02	
4.	Backed cloth principle of construction, Warp backed & weft backed cloth, warp wadded & weft wadded design, Factors considered in the construction.	03	Watson Textile Design and colour- Z.GROSICKI
5.	Double cloth - principle of constructions, factors affecting double cloth. Different methods of tying double cloth. Centre stitched double cloth, Wadded double cloth.	06	
6.	Treble cloth, constructions & designs, various methods of drafting.	02	
7.	Weft pile fabrics – all over velveteen designs, length, density & fastness of pile, Corduroy with construction.	04	
8.	Terry pile structure – principle – designs various designs.	03	
9.	Warp pile designs with wires, shed diagram, loose & fast designs, double plush cloth.	04	
10.	Gauze & Leno, principle of construction, different reeds, flat view of cloth, shaper motion, easer bar motion, Russian cord, plain & net leno.	06	
11.	Tapestry Damask Brocade and J/c design principles.	04	

12.	Extra warp & extra weft fabrics comparison with merits & demerits.	03	
13.	Analysis of woven samples.	03	Elementary weaves and figured fabrics - Z.GROSICKI

### Reference Books:

1. Watson Textile Design and colour- Z.GROSICKI.
2. Elementary weaves and figured fabrics - Z.GROSICKI.