

# VEER NARMAD SOUTH GUJARAT UNIVERSITY

## B. E. III (TEXTILE PROCESSING) Semester - VI TP - 601, TECHNOLOGY OF PRINTING - I

Teaching Scheme			Theory Exam		Practical/Quiz/Viva Exam		Grand Total
(No. Of Contact hr.)			Duration (hr.)	Marks	Sem. End Exam	Cont. Int. Evaluation	
Theory	Tut.	Pract.					
3	1	2	3	100	30	20	150

### Theory

- 1. Introduction :** Necessity of definition of printing  
Various stages involved in printing
- 2. Preparation Of Fabric For Printing - Importance Of Preparation :**
  - \* Stitching, Shearing/Cropping, Singeing, Desizing, Scouring, Mercerising, Bleaching, Optical Brightening, Stentering, etc.
- 3. Equipments And Methods Used For Block, Stencil & Roller Printing :**
  - \* Engraving of Wooden Process
  - \* Stencil cutting process
  - \* Methods of block & stencil printing
  - \* Engraving of copper rollers
  - \* Construction & Working of roller printing machine
  - \* Design setting mechanism in roller printing machine
- 4. Preparation Of Print Paste & Thickening Agents :**
  - \* Selection of dyes for print paste
  - \* Formulation & properties of printing paste
  - \* Classification, properties & functions of thickeners
  - \* Selection of suitable thickeners
  - \* Merits & demerits of various thickening agents
- 5. Styles Of Printing :**
  - \* Various styles of printing : Direct style, Dyes style, Raised style, Azoic style, Resist style, Discharge style, Batik style, Crimp style, Brasso style, etc.
- 6. Direct Style Of Printing :**
  - \* Printing of Cotton/Viscose fabric with Direct, Basic, Vat, Indigosol, Aniline Black, Reactive & Pigment Dyes.
  - \* Printing of Wool & Silk with appropriate Dyes.
- 7. Methods Of Fixation :**
  - \* Necessity of dye fixation
  - \* Machines like Steamer, Ager, Polymeriser, etc. For fixation of dyes. Neat sketch & working.

### Practicals

This shall be based on prescribed syllabi.

### Term work

This shall consist of records of practical work done during practical & recorded in the journal.

### References Book :-

- (1) Tech. & Textile Printing                      Sheni V.A.
- (2) Textile Printing                                   Miles W.C.
- (3) Principles & Cotton Printing                Kale.