

VEER NARMAD SOUTH GUJARAT UNIVERSITY

B.E. IV (TEXTILE TECHNOLOGY) Semester -VIII

TT - 804 ELECTIVE : GARMENT TECHNOLOGY

Teaching Scheme : (No. Of Contact Hrs.)			Theory Exams		Prac./Quiz/Viva/Exam		Grand Total
Theory	Tut.	Pract.	Duration (Hrs)	Marks	Sem. End Exam.	Cont.Int. Evaluation	
3	-	2	3	100	30	20	150

Theory:

1. Background to Clothing Industry in India and elsewhere.
2. Garment manufacturing:-
 - (a) Cutting: Market planning, requirements, planning and methods. Spreading requirements and methods of Spreading. Types of fabric packages. Cutting objectives and methods.
 - (b) Sewing: Various types of seams and stitches. Study of various feed mechanism sewing machine needles. Sewing problems like pucker, needle heating, etc.
 - (c) Brief out lines of alternative methods of joining materials.
3. Sewing Machinery:

Basic simple machines like lock stitch, overlock, etc.and work aids, simple automatics like button holder, button sewing bar tack etc. Advance Machineries.
4. Various components and trims used in making garment.
5. Outline of finishing methods used.
6. Various aspects of clothing manufacture like production planning etc.

Practical: This shall be based on the prescribed syllabi.

Term Work: This shall consist of record of practical work done during practicals and recorded in journals.

References :

- (1) Bary : Dress Pattern Designing, Blackwell, U.K.5th edition,1996
- (2) Carr : The Technology of Clothing Manufacture Blackwell,U.K.2nd edition,1996
- (3) Cooklin : Introduction to Clothing Manufacture Blackwell, U.K.1996
- (4) Hunter : Quick response in Apparel manufacturing, The Textile Institute, U.K.,1990

ELECTIVE (1) GARMENT TECHNOLOGY

LIST OF PRACTICALS

1. Study of yarn passage through machine.
2. Study of maker method.
3. Study of different spreading devices.
4. Study of various cutting systems.
5. Study of different types of seams.
6. Study of various feed mechanisms.
7. Study of different types of stitches.
8. Study of various sorts of needles.
9. Preparation of samples of different types of seams.
10. Study of modern sewing methods.
11. Study of different types of sewing beds.

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TT - 804 ELECTIVE : KNITTING TECHNOLOGY

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Theory	Tut.	Pract.	Duration (Hrs)	Marks	Sem. End Exam.	Cont.Int. Evaluation	
3	-	2	3	100	30	20	150

Theory:

1. Comparison of weaving , knitting and lacing.
2. Evolution of knitting, hand knitting and Machine knitting.
3. Introduction of weft knitting, elements of machine knitting terms and defination , production of plain weft knitting fabric and its decoration rib fabric and it modification.
4. Development of double jersey interlock, single pique , double pique and Pontode-Roma structures.
5. Design in weft knitting - Horizontal stripping , Plating, Individual stitch selection Alternation in number of needle knitting loops. Pattern on single and double jersey.
6. Quality control in weft knitting .
7. Introduction to warp knitting production of tricot fabric . Different structures of Tricot fabric. Pattrern chain formation. Drive to different elements.
8. Raschel warp knitting machine, comparison of Raschel and tricot machines, development in Raschel machine.

Practical :

This shall be based on the prescribed syllabi.

Term Work:

This shall consoist of record of practical work done during practicals and recorded in the journals.

References :

- (1) David J. Spencer : Knitting Technology, Pergamon Press,London,1986
- (2) Terry Brackenbury : Knitted Clothing Technology, Blackwell Scientific publ. London, 1992

(3) Andrea Wynne : Textile, Macmillian Education Ltd.London ,
1997.

ELECTIVE (2) KNITTING

LIST OF PRACTICALS

1. Study of yarn passage through knitting machines.
2. Study of different parts of flat bed knitting machine.
3. Study of different parts of circular knitting machine.
4. Study of knitting cycle.
5. Development of single jersey.
6. Development of double jersey.
7. Development of various types of warp knitting structures.
8. Study of various types of warp knitted structures with DOT diagram.
9. Study of Rib structure

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TT - 804 ELECTIVE : CAD/CAM

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Theory	Tut.	Pract.	Duration (Hrs)	Marks	Sem. End Exam.	Cont.Int. Evaluation	
3	-	2	3	100	30	20	150

Theory:

1. Components of CAD system.
2. Advantages of using CAD.
3. Introduction of Textile Design & need of CAD.
4. CAD versus Designer.
5. The impact of Computer Graphics on Clothing Design.
6. Using CAD : Clothing & Textile System in industry.
7. Developments of Dobby / Jacquard Design using different available software packages.
8. Practical utilisation of CAD systems in the preparation, Creation & processing of Designs for Textile Printing.
9. Latest Developments in the CAD system.
10. Developments of Software packages for different processes of Textiles

Practical :

This shall be based on the prescribed syllabi.

Term Work:

This shall consist of record of practical work done during practicals and recorded in the journals.

References :

- (1) Aldrich : CAD in Clothing and Textiles, 1994 edition, Hartnolls ltd.Great Britain
- (2) A.D. Sule : Computer Colour Analysis, New Age International publishers, New Delhi, 1997.

- (3) Chris H. Pappas & William H. Murry : C/C ++ Progammer's Guide, BPB Publications.New Delhi, 1996.

ELECTIVE (3) CAD/CAM

LIST OF PRACTICALS

1. Introduction to CAD system.
2. Development of Simpal computer graphic on Clothing design.
3. Development of Dobby designs.
4. Development of Jacquard designs.
5. Practical utilisation of CAD for creation, preparation & processing of Textile designing.
6. Development of software for different processes of textile.
7. Application of CAD in colour matching.
8. Development of production programme for different textile processes.