

## **BACHELOR OF TECHNOLOGY IN TEXTILE ENGINEERING COURSE SUBJECTS**

120CREDITS= 60 UNITS X 2 CREDITS PER UNIT

### **Year 1**

Semester I

TX101 Pure Mathematics I

TX102 Applied Mathematics

TX103 Basic Physics I

TX104 Basic Chemistry I

TX105 Engineering Drawing I

TX106 Communication Skills I

TX107 Development Concepts and Applications

TX 108 Engineering Drawing II

### **Year 2**

TX201 Introduction to Textile Technology

TX202 Solid Mechanics I

TX203 Mechanics of Machines I

TX204 Engineering Drawing III

TX205 Introduction to Computer Hardware and Software

TX206 Electrical Technology I

TX207 Yarn Manufacture I

TX208 Textile Chemistry I

TX209 Textile Mechanics

TX210 Materials Science I

TX 211 Electrical Technology

TX212 Thermodynamics I

TX213 Engineering Materials

TX214 Electrical Technology II

TX215 Workshop Practice

Additional Study

State, Society and Development

## Year 3

### Semester I

TX301 Engineering Mathematics II

TX302 Research Methodology

TX303 Basic Electronics

TX304 Computer Programming

TX305 Engineering Mathematics III

TX 306 Statistics

TX307 Man Made Fibres I

TX308 Yarn Manufacture III

TX309 Cloth Manufacture I

TX310 Textile Physics II

TX311 Control Systems I

## Year 4

### Semester I

TX 401 Man Made Fibres II

TX402 Spinning Calculations

TX403 Cloth Manufacture II

TX404 Fabric Design I

TX405 Technology of Dyeing

TX406 Textile Finishing I

TX407 Textile Testing I

TX408 Instrumentation

### Semester II

TX409 Cloth Manufacture III

TX410 Fabric Design II

TX411 Knitting Mechanisms

TX412 Dyeing and Printing

TX413 Textile Finishing II

TX414 Textile Chemical Processing Machinery

TX415 Textile Testing II

TX416 Textile Industry Planning and Organisation

#### Year 5

TX501 Weaving Calculations

TX502 Textile Machinery Maintenance

TX503 Industrial Law and Ethics

TX504 Textile Project

TX505 Quality Control of Textile Processes

TX506 Textile Economics

TX507 Factory Management

TX508 Industrial Pollution Control

Additional Study

Operations Research

#### Year 6

TX601 Textile Project

TX602 Electives

Electives are selected from the following list, subject to the advice and prior approval of the department. Students will be advised on the electives offered in any particular semester.

The electives offered to a student will generally depend on the availability of expertise, the student's desired career specialisation and the needs of the profession.

- Clothing Technology
- Computer Applications in Textile Engineering
- Yarn Production and Planning
- Advanced Spinning Studies

- Industrial Yarns
- Fabric Production and Planning
- Advanced Weaving Studies
- Industrial Fabrics
- Advanced Finishing Studies
- Production Planning in Textile Finishing
- Computer Aided Design & Aided Manufacturing

Additional studies in the textbooks provided in all Textile Subjects