AMTE-20 INFORMATION TECHNOLOGY IN TEXTILE

UNIT-1 INTRODUCTION

- 1.1 Meaning of Information technology,
- 1.2 Historical perspective, IT revolution.

UNIT-2 GOALS OF IT DEPLOYMENT

- 2.1 Development of IT applications in business, Potential of IT in Textile Manufacturing, need and framework of IT use in textile.
- 2.2 Vision and Important areas, data versus information, information resources, Basic elements of IT in Textile mills, past and present IT in textile mills,
- 2.3 Elements of nonintegrated computer environment in manufacturing. Strategic planning, information resources management concept.

UNIT-3 ENTERPRISE IT INFRASTRUCTURE

- 3.1 Broad vision, Idea of architecture and standards, Inter and intra- enterprise integration, general areas of IT application-activities and anguages 2000
- 3.2 Integrated product and process design, shop floor production, business practices,
- 3.3 New areas of IT applications- virtual factory, programmable and reconfigurable factory,
- 3.4 Net worked factory, micro factory etc,
- 3.5 Non-manufacturing areas- knowledge and information management,.
- 3.6 Planning the enterprise IT infrastructure.

UNIT-4 GETTING CONNECTED FOR IT

- 4.1 Telecommunications, LANs, WANs and Internets,
- 4.2 Information Super Highway and the Internet,
- 4.3 World Wide Web, Idea of Client server architecture.

UNIT-5. COMPUTER BASED INFORMATION SYSTEMS

- 5.1 Information management, manager and systems, , computer-based information systems, information services organization, justifying the CBIS, achieving the CBIS.;
- 5.2 a) Management information systems- concept of information subsystems, systems model of textile firms, system approach, modeling and simulation, perspective of MIS, problem solving;
- 5.3 b) Manufacturing information systems- model of manufacturing information system in textile. shop floor information systems and control of individual activities.;
- 5.4 c) Financial information systems- model of financial information systems, accounting information systems, fund management and forecasting subsystems, control subsystems.
- 5.5 d) Human resource information systems-model of human resource s information systems, human resource management subsystems.
- 5.6 e) Marketing information systems, model of marketing information systems, Electronic Commerce- strategy and methodology, EDI, E-commerce technology, use of internet.

- 5.7 f) Knowledge-based Systems: Decision support systems, artificial intelligence, expert system, knowledge base, fuzzy logic and Neural Networks.
- 5.8 g) Virtual Office: Office automation, virtual office, virtual office in textile arena.

UNIT-6 IT ENABLED ORGANIZATIONAL CHANGE

6.1 Approaches towards It implementation, types of changes related to IT implementation, other issues.

UNIT-7 SECURITY AND SOCIAL ISSUES

- 7.1 Ethics and information systems,
- 7.2 Information crimes,
- 7.3 Legislation, right to privacy.

Reference Books:

- 1. Information Technology for Manufacturing-A research Agenda, National Academy Press, Washinton DC, 1995;
- 2. Introduction to Information Systems by James A. O'Brien, McGrawhill, USA 1997,
- 3. Computer Systems Today by S.K. Basandra, Wheeler Publishing, New Delhi, 1999,

