

AMTE-6 TECHNOLOGY OF PRE SPINNING PROCESS

UNIT-1 INTRODUCTION

- 1.1 Sequence of spinning machinery for producing carded,
- 1.2 Combed and blended yarns in short staple and long staple spinning system;
- 1.3 Yarn numbering systems- direct, indirect and conversions;
- 1.4 Influence of characteristics of raw material – FIBRE fineness, length, strength, elongation, stiffness, FIBRE friction, cleanliness on spinning performance; spin ability

UNIT-2 GINNING AND BLOWROOM MACHINERY

- 2.1 Description and working of different types of gins; selection of right type of gins;
- 2.2 Ginning performance on yarn quality; objects, principle and description of opening, cleaning and blending machines used in blow room;
- 2.3 Chute feed;
- 2.4 Cleaning efficiency, production calculations.

UNIT-3 CARDING MACHINE

- 3.1 Objects and principle of carding;
- 3.2 Detailed study of flat card;
- 3.3 Autolevelling; card clothing and its maintenance;
- 3.4 Drives and production calculation.

UNIT-4 COMBER

- 4.1 Objectives of comber preparatory;
- 4.2 Detailed study of sliver lap, ribbon lap and super lap formers;
- 4.3 Objects and principles of combing; sequence of combing operation;
- 4.4 Combing efficiency and production calculation.

UNIT-5 DRAWING MACHINE AND ROVING MACHINE

- 5.1 Tasks of drawing machine;
- 5.2 Drafting systems used in modern drawing machines; autolevelling; draft and production calculation;
- 5.3 Objectives of roving machine; working of roving machine;
- 5.4 Bobbin builder mechanism – mechanical and electro-mechanical; draft, twist and production calculations.

References Books

1. Lord P.R., “Yarn Production: Science, Technology and Economics “, The Textile Institute, Manchester, 1999
2. Salhotra K.R. and Chattopadhyay R., “Book of papers on Blow room and Card “, Indian Institute of Technology, Delhi, 1998