

1. SALIENT FEATURES OF THE DIPLOMA PROGRAMME IN TEXTILE TECHNOLOGY

1. Name of the Programme : Diploma programme in Textile Technology
2. Duration of the Programme : Three years
3. Entry Qualifications : Matriculation or as prescribed by State Board of Technical Education, Haryana
4. Intake : 30 or as prescribed by SBTE Haryana
5. Pattern of the Programme : Semester System

6. Industrial Training:

Six weeks of industrial training is included after IV semester during summer vacation. Internal assessment out of 50 marks and external assessment out of another 50 marks will be added in 5th semester. Total marks allotted to industrial training will be 100.

Distribution of Marks:

- Daily diary and reports of training - 50 Marks
- Viva Voce (External) - 50 Marks

7. Ecology and Environment:

As per Govt. of India directives, a subject on Environmental Education has been incorporated in the scheme.

8. Student Centred Activities:

A provision of 5-6 hrs per week has been made for organizing Student Centred Activities for overall personality development of students. Such activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/ Disaster Management activities etc.

2. EMPLOYMENT OPPORTUNITIES FOR DIPLOMA HOLDERS IN TEXTILE TECHNOLOGY

Diploma holder in Textile Technology may be employed as following:

1. Supervisor in various sections of textile mills such as Spinning/Weaving/Processing, Textile Design, Knitting, Production, Sales, Maintenance etc.
2. Supervisor in textile mills to check/test the standards and quality of fibre, yarn, fabric, and garments as per specifications
3. Supervisor in defence, handlooms and handicrafts, textile committee/corporations, export houses, garment houses and similar undertakings dealing with textiles, woolen mills, carpet industry.
4. Technical Assistant in research and development organizations engaged in the field of textiles and textile laboratories
5. Supervisor in textile machinery manufacturers/auxiliaries for erection and installation, sales and service
6. Teacher in technical institutes
7. Self-employment (in establishing weaving units; carpet weaving industry, dyeing units, handloom or power loom, printing units etc. and providing consultancy to textile industries)

3. COMPETENCY PROFILE OF DIPLOMA HOLDERS IN TEXTILE TECHNOLOGY

Based on employment opportunities for diploma holders in Textile Technology, following competency profile is arrived at:

1. Competency to analyze and evaluate the performance of different fibres, yarns and fabrics
2. Basic understanding of the processes involved in converting fibres into yarns and yarn into fabric
3. Knowledge of characteristics of fibres, yarns and fabrics
4. Ability to manufacture and develop different types of yarns and fabrics
5. Ability to test the quality of raw materials and product at every stage of operation in textile processing and knowledge of material handling operations
6. Ability to develop textile design for weaving and their execution
7. Knowledge of chemical and mechanical processing of textile
8. Knowledge and associated skills to operate machines and their maintenance.
9. Knowledge of safety operations in textile industry.
10. Knowledge of production planning layout; productivity; costing, estimating and profitability; control and management
11. Ability to prepare, read and interpret drawings pertaining to textile machinery
12. Understanding of communication and interpersonal skills for effective functioning at work places
13. Ability to learning to learn skills and solve practical problems in relation to production; quality control; repair and maintenance; management of men, material and machine etc.
14. Appreciation of environment, conservation of energy, safety, entrepreneurship support system, basic principles of management and labour welfare
15. Skill of using computer software in textiles

4. DERIVING CURRICULUM AREAS FROM COMPETENCY PROFILE

SR. NO	COMPETENCY PROFILE	CURRICULUM AREAS
1.	Competency to analyze and evaluate the performance of different fibres, yarns and fabrics	<ul style="list-style-type: none"> - Basics of Textile Processes - Fabric Structure - Basics of Design and Colour
2.	Basic understanding of the processes involved in converting fibres into yarns and yarn into fabric	<ul style="list-style-type: none"> - Spinning Technology - Weaving Technology - Textile Processing
3.	Knowledge of characteristics of fibres, yarns and fabrics	<ul style="list-style-type: none"> - Textile Fibres - Advanced Yarn Manufacturing
4.	Ability to manufacture and develop different types of yarns and fabrics	<ul style="list-style-type: none"> - Textile Processing
5.	Ability to test the quality of raw materials and product at every stage of operation in textile processing and knowledge of material handling operations	<ul style="list-style-type: none"> - Textile Testing and Quality Control
6.	Ability to develop textile design for weaving and their execution	<ul style="list-style-type: none"> - Basics of Design and Colour
7.	Knowledge of chemical and mechanical processing of textile	<ul style="list-style-type: none"> - Textile Chemistry
8.	Knowledge and associated skills to operate machines and their maintenance	<ul style="list-style-type: none"> - Spinning Technology - Weaving Technology - Weaving Preparatory Process - Textile Processing - General Workshop Practice - Knitting Technology - Garment Manufacturing Technology
9.	Knowledge of safety operations in textile industry	<ul style="list-style-type: none"> - Textile Processing
10	Knowledge of production planning layout; productivity; costing, estimating and profitability; control and management	<ul style="list-style-type: none"> - Textile Merchandising

11	Ability to prepare, read and interpret drawings pertaining to textile machinery	- Engineering Drawing
12	Understanding of communication and interpersonal skills for effective functioning at work places	- Communication Skills - Employability Skills
13	Ability to learning to learn skills and solve practical problems in relation to production; quality control; repair and maintenance; management of men, material and machine etc	- Major Project Work
14	Appreciation of environment, conservation of energy, safety, entrepreneurship support system, basic principles of management and labour welfare	- Basics of Management - Environmental Education - Entrepreneurial Awareness Camp
15	Skill of using computer software in textiles	- Basics of Information Technology - Computer Applications in Textile Technology

5. ABSTRACT OF THE CURRICULUM AREAS

a) General Studies

- 1 Communication Skills
- 2 Basics of Information Technology
- 3 Entrepreneurial Awareness
- 4 Environmental Education
- 5 Basics of Management
- 6 Employability Skills
- 7 Personality Development

b) Applied Sciences

- 8 Applied Mathematics
- 9 Applied Physics
- 10 Applied Chemistry

c) Basic Courses in Engineering/Technology

- 11 Engineering Drawing
- 12 General Workshop Practice
- 13 Textile Fibres
- 14 Basics of Textile Processes

d) Applied Courses in Engineering/Technology

- 15 Basics of Design and Colour
- 16 Spinning Technology
- 17 Weaving Preparatory Processes
- 18 Weaving Technology
- 19 Fabric Structure
- 20 Textile Chemistry
- 21 Textile Testing and Quality Control
- 22 Computer Applications in Textile Technology
- 23 Knitting Technology
- 24 Advanced Yarn Manufacturing
- 25 Garment Manufacturing Technology
- 26 Industrial Training
- 27 Major Project Work

6. HORIZONTAL AND VERTICAL ORGANISATION OF THE SUBJECTS

Sr. No.	Subjects	Distribution in Hours in Various Semesters					
		I	II	III	IV	V	VI
1.	Communication Skills	5	5	-	-	-	-
2.	Applied Mathematics	5	5	-	-	-	-
3.	Applied Physics	6	-	-	-	-	-
4.	Applied Chemistry	5	5				
5.	Engineering Drawing	6	-	-	-	-	-
6.	General Workshop Practice	6	-	-	-	-	-
7.	Textile Fibres	-	7	-	-	-	-
8.	Basics of Information Technology	4	-				
9.	Basics of Design and Colour	-	9	-	-	-	-
10.	Basics of Textile Processes	-	5	-	-	-	-
11.	Fabric Structure	-	-	6	6	-	-
12.	Spinning Technology	-	-	10	10	8	-
13.	Weaving Technology	-	-	10	10	8	-
14.	Weaving Preparatory Processes	-	-	3	3	-	-
15.	Textile Chemistry	-	-	6	6	-	-
16.	Textile Testing and Quality Control	-	-	-	-	8	8
17.	Computer Applications in Textile Technology	-	-	-	-	-	4
18.	Knitting Technology	-	-	-	-	6	-
19.	Environmental Education	-	-	-	-	3	-
20.	Garment Manufacturing Technology	-	-	-	-	-	5
21.	Employability skills	-	-	-	-	2	2
22.	Advanced Yarn Manufacturing	-	-	-	-	-	4
23.	Basics of Management	-	-	-	-	-	3
24.	Industrial Training	-	-	-	-	-	-
25.	Major Project Work	-	-	-	-	-	9
26.	Student Centred Activities	3	4	5	5	5	5
	Total	40	40	40	40	40	40