

Punyashlok Ahilyadevi Holkar Solapur University, Solapur

Skill Development Centre

- **Course Name : “Basic Certificate Course in Handloom Products Designing and Manufacturing”**
- **Duration of Course:** 3 Months
- **Need of Course:**
 1. To rejuvenate the traditional industries like handloom and textile units in the district which is weakened during past few years.
 2. Imparting higher training to skilled and technical persons who can in turn demonstrate weaving, designing and processing activities.
 3. Training is provided for skill development to weavers in Weaving, Dyeing, Designing, Managerial skills.
 4. Department to create skilled technical persons in Handloom who can in turn to demonstrate the weaving, designing, dyeing, processing and other related activities to weavers as well as to serve in the industry for production of quality and value-added product and diversification of handloom items.
- **Employment and Entrepreneurship Opportunities from Course:**
 1. To promote the skilled people into startup activities.
 2. To promote self – Employability.
 3. To become Handloom Entrepreneur
 4. To become women entrepreneurs.
- **Tentative Fees:** 1800/-
- **Minimum Admission Eligibility for Student:** 8th std.

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Course Structure

Course Title: “Basic Certificate Course in Handloom Products Designing and Manufacturing”

Name of Skill Course	Duration	Name of Paper	Paper No.	Lecture Hours Per	Theory	Internal Evaluation	Practical Evaluation	Credits
Basic Certificate Course in Handloom Products Designing and Manufacturing	3 Months	Introduction to Handlooms and its operating skill	I	45	80	20	00	3
		Maintain work area, tools and machines and Working in a team	II	45	80	20	00	3
		Preparation of new Handloom article	III	90	00	00	100	3
Total				180	160	40	100	9

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Paper Title	Introduction to Handlooms and its operating skill	
Paper No	Paper No. I	
Objectives of Paper	1. To introduce handloom and its product.	
	2. To make familiar with different operating functions of Handloom.	
	3. To knowledge about the different types of knots used in the process.	
	4. To build and develop skills of Handloom weaving techniques.	
Expected out comes from Paper	1. Understand handloom machine and its associated activities.	
	2. Gain knowledge about manufacturing/ constructive process of weaving in Handloom Industries.	
	3. Able to Carry out pre-weaving activities.	
	4. Cognize utilities of Handloom unit.	
Content		
Unit -1	Gain familiarity with handloom and the sector, Gain familiarity to the design heritage of handlooms in India, Understand the uniqueness of designs, colours and motifs, Understand the process flow of making hand-knotted handlooms, Identify and describe the different types of yarns used in making handlooms.	10 Hours
Unit -2	Identify and understand the functions of different parts of the handloom, Identify and understand the used of tools used for weaving a handloom, Understand the appropriate maintenance of tools, gain familiarity with different layouts of the handlooms, gain familiarity with design graphs and understand their use.	10 Hours
Unit -3	Understand knot density, pile height and their importance, Understand the step-by-step process of making the warp & drawing it on the loom, Practice sessions for carrying out making of the warp and drawing it on the loom, Understand the different types of knots used, Understand the process of knotting the yarn on the warp with Persian knot, Turkish knot & Tibet a Knot using the tools.	10 Hours
Unit -4	Knitting a handloom as per the given specifications, Understand the different errors (warp breakage, tension problem, dropped pick, narrow selvedge, dye bands, oil stains, wrong pattern, improper pile etc.) which occur during knotting the handloom, understand rectification of defects, their solution, Understand permissible & No permissible defects in handlooms, Practical based on above theory.	15 Hours
Reference Book	<ol style="list-style-type: none"> 1. Spinning of man-made and blends on cotton systems by K.R. Salhotra. 2. Weaving by Prof. DB Ajgaonkar, Prof. Sriramalu & Prof. MK Talukdar. 3. Klein W, "New Spinning Process", The Textile Institute, Manchester, Vol.5, 2002. 4. Seyam A. M., "Structural Design of Woven Fabrics, Theory and Practice", Textil Institute, Manchester, 2002. 5. Georner D. Modern Preparation & Weaving by A. Ormerod. 	

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Paper Title	Maintain work area, tools and machines and Working in a team	
Paper No	Paper No. II	
Objectives of Paper	1. To provide an overview of different tools used in handloom machine.	
	2. To provides an end-to end understanding and practical knowledge of handloom machine.	
	3. To engage preparatory process of handloom product weaving.	
	4. To understand the different errors occurring in to the system.	
Expected out comes from Paper	1. Handle machine, materials and tools safely and correctly.	
	2. Capable to carry out maintenance and cleaning of handloom machine.	
	3. Proficiency in handloom fabric designing and manufacturing.	
	4. Able to Identification and remedies of common defects in handloom machine	
Content		
Unit -1	Handle materials, machinery, equipment and tools with care and use them in correct way, maintain a clean and hazard free working area, carry out running maintenance within agreed schedules, Carry out maintenance and/or cleaning within one's responsibility.	10 Hours
Unit -2	Report unsafe equipment and other dangerous occurrences, use clean equipment and methods appropriate for the work to be carried out, Dispose of waste safely in the designated location, Store cleaning of equipment safely after use.	10 Hours
Unit -3	Be accountable to one's own role in whole process, perform all roles with full responsibility, Report problems faced during the process, talk politely with other team members and colleagues, submit daily report of own performance, adjust in different work situations, Give due importance to others' point of view.	10 Hours
Unit -4	Identify activities that can cause potential injury through sharp objects and other tools and equipment's, Use and maintain personal protective equipment such as "Nose Mask" etc., Identify areas in the workplace which are potentially hazardous / unhygienic in nature, conduct regular checks on equipment and machines to identify potential hazards due to wear and tear of the machine, Practical based on above theory.	15 Hours
Reference Book	<ol style="list-style-type: none"> 1. Winding & Warping by Talukdar MK. 2. Yarn Preparation-Vol-I by Sengupta. 3. Sizing by Prof. D. B. Ajgaonkar, Dr. M. K. Talukdar & V. R. Wadekar. 4. The Technology of Warp Sizing by J.B. Smith. 5. Fabric forming by B Haskukhrai. 	

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Paper Title	Preparation of Handloom Article	
Paper No	Paper No. III (Practical)	
Objectives of Paper	1.	To develop skills through training and production practical.
	2.	To encourage to achieve quality in handloom weaving.
	3.	To provide hand to hand handloom article production.
	4.	To stimulate for innovative design and pattern for handloom article.
Expected out comes from Paper	1.	Prepare innovative Handloom products
	2.	Equipped with the knowledge to become handloom professional.
	3.	Proficient to create commercialized handloom products for sale.
	4.	Competent to set up their own handloom production unit and become Handloom Entrepreneur.
Content		
Unit- I	<ul style="list-style-type: none">▪ The practical work is designed to train the students.▪ Each student shall be required to work on handloom machine.▪ They need to prepare various handloom article.▪ The article will be evaluated by mentor and assigned marks.▪ These marks are consider for final exams.▪ Every student must prepares at least 3 handloom articles.	