

Training Schedule - Handloom Weaving (669)

Total Contact Hours: 240 hrs (PCP(120 hrs) + Self Study (120hrs)

PCP- 120hrs (Theory (30hrs) + Practical (90hrs)

Session	Lesson	Theory (1 hour)	Practical (3 Hours)	Self study /Assignment	Learning Outcomes
Day 1	1. Handloom : The Pride of India	1.1 Handloom and powerloom 1.2 Traditional weaves and product of India	Undertake a visit to a Handloom and Power loom unit to understanding the working process of handloom and power loom. Group discussion on the difference between Handloom and Powerloom.	Know your progress 1.1 Practical 1.1 Let us Practice	Differentiates between Powerloom and Handloom Enumerates the Traditional weaves and Products of India
Day 2		1.2 Traditional weaves and product of India Hand woven Textiles of India: Cotton (Jamdani) Silk (Brocade, Baluchari, Paithani) Wool (Pashmina) Yarn Resist Dyed (Patola)	Handling samples of different weaves and noting the differences in the practical files. Make chart showing the place, fibre,loom, products of the hand woven traditional fabrics of India: •	Know your progress 1.2 Collect samples of traditional fabrics of India and paste in the practical file.	Appreciates and describes the following Hand woven Indian fabrics: <ul style="list-style-type: none"> ○ Cotton (Jamdani) ○ Silk (Brocade, Baluchari, Paithani) ○ Wool (Pashmina) ○ Yarn Resist Dyed (Patola) Aware of the Govt. measures and support available for this sector

		<p>1.3 Importance of Handlooms</p> <p>1.4 Current scenario: Govt. measures to uplift handloom sector.</p> <p>1.5 Scope and job opportunities.</p>	<p>- Record the contact details and address of the govt. agencies closest to your area set up for support to weavers.</p> <p>- Find out the the details regarding venue dates and timings of the melas, haat and exhibitions held in your area.</p> <p>- Draw the logo of India handloom Brand and Handloom Mark</p> <p>- Draw the chart to show the career progression of handloom weavers.</p>	<p>Know your progress 1.3</p> <p>Portfolio activity 1.1</p> <p>Portfolio activity1.2</p> <p>Practical 1.2</p> <p>Visit the govt. agencies closest to your area set up for support to weavers and discuss the support being extended by them.</p> <p>Write a report on your observations</p>	<p>Aware of the scope and job opportunities available in this sector</p> <p>Identifies the special weaves and their place of origin of the hand woven traditional fabrics of India.</p>
Day 4	<p>2. Handloom : Preparation and its Processes</p>	<p>2.1 Yarn related terminology</p> <ul style="list-style-type: none"> • Yarn • Warp Yarn • Weft Yarn • Yarn Hank • Yarn Count • Spool/Bobbin • Warp Beam • Shuttle • Pirn • Thread Count • Balance • Selvedge 	<p>Undertake a visit to a weaving unit to study the loom , its parts and the terminology used by the weavers in a weaving unit.</p> <p>Practice of Loom setting process of a table top loom/sample loom</p>	<p>Know your progress 2.1</p> <p>Practice of using the correct terminology of weaving.</p> <p>Practice of Loom setting process of a table top loom/sample loom</p>	<p>Identifies and explains the yarn related terms and parts of loom.</p> <p>Adopts correct procedure of Warp Yarn Preparation</p> <p>Adopts correct procedure of Weft Yarn Preparation</p> <p>Demonstrates the process of:</p>
Day 5		<p>2.2 Yarn preparation process</p> <p>A. Warp yarn</p>	<p>Undertake a visit to a weaving unit to study the procedure of:</p>	<p>Portfolio Activity 2.1</p> <p>Practice of:</p>	<ul style="list-style-type: none"> ○ Winding ○ Warping ○ Sizing

		preparation - Winding - Warping - Sizing - Dressing of warp - Beaming - Drawing in/Tying in • Weft Yarn Prepatration	- Winding - Warping - Sizing - Dressing of warp - Beaming - Drawing in/Tying in Practice of Loom setting process of table top loom/sample loom Practical work 2.1	- Winding - Warping - Sizing - Dressing of warp - Beaming - Drawing/tying in	○ Dressing of warp ○ Beaming ○ Drawing in/Tying in ○ Pirn Winding Observes prescribed precautions during yarn preparation
Day 6		B. Weft preparation process - Pirn Winding	Demonstrate the weaving process on sample loom.	Know your progress 2.2 Portfolio Activity 2.2 Practice of the weaving process on sample loom.	
Day 7		2.3 Precautions to be undertaken during yarn preparation.	Develop the samples on loom	Know your progress 2.3 Let us Practice Practice to develop the samples on loom	
Day 8	3. Understanding the Loom	3.1 Looms A. Parts of loom and their functions • Heald • Heald Frame • Harness or Shaft • Treadles • Sley - Two Sley Sword	Make an illustration of different parts of loom and state their function. Practice of identification and proper handling/working of different parts of a loom.	- Know your progress 3.1 Portfolio activity 3.1 - Continue the practice of identification and proper handling/working of different parts of a loom.	Identifies and explains the working of the different parts of loom.

	<ul style="list-style-type: none"> - Reed/Beater - Sley Race • Shuttle and Bobbin • Weft Bobbin or • Prin • Lease Rod • Temples • Warp Beam Roller • Front Rest • Cloth Beam Roller 	Practice of sketching and labeling the different parts of the loom.	Continue the practice of sketching and labeling the different parts of the loom.	
Day 9	<p>3.2 Classification of looms</p> <p>A. On Basis of Operation</p> <ul style="list-style-type: none"> - Shuttle Loom - Shuttle less Loom <p>B. On Basis of Operation</p> <ul style="list-style-type: none"> - Powerloom - Handloom 	<p>Make a chart showing the classification of looms.</p> <p>Practice of identifying the different types of looms and their parts.</p>	<p>Know your progress 3.2</p> <p>Practical work 3.1</p> <p>Collect pictures of different types of looms and paste in the practical file</p>	<p>Identifies and Classifies looms as:</p> <ul style="list-style-type: none"> ○ Shuttle Loom ○ Shuttle less Loom ○ Powerloom ○ Handloom
Day 10	<p>3.3 Kinds of handlooms and working process.</p> <ul style="list-style-type: none"> • Backstrap/ Loin loom • Pit loom • Frame loom • Semi automatic loom • Fly Shuttle • Throw Shuttle 	<p>Make a chart of different kind of handlooms and their working process.</p> <p>Practice of identifying the different types of looms and their parts.</p> <p>Sketch pictures of the different types of looms.</p> <p>Demonstrate the working procedure on the different types of looms</p>	<p>Collect pictures of different types of looms, list their features and advantages.</p> <p>Practice of the working procedure on the different types of looms</p>	<p>Weaves using the following looms</p> <ul style="list-style-type: none"> ○ Backstrap/ Loin loom ○ Pit loom ○ Frame loom ○ Semi automatic loom ○ Fly Shuttle ○ Throw Shuttle ○ Dobby loom

		<ul style="list-style-type: none"> • Dobby loom • Jacquard loom <p>Study of the Features, Advantages and Limitation of the different types of looms.</p> <p>Difference between Throw shuttle and Fly shuttle loom</p>	Practice of identifying the different parts of Throw shuttle and Fly shuttle looms and their working procedure.	Let us Practice	<ul style="list-style-type: none"> ○ Jacquard loom <p>Verbalizes the advantages and limitations of the different types of looms</p> <p>Differentiates between Throw Shuttle and Fly Shuttle loom</p>
Day 11	4. The Joy of Weaving on Loom	<p>4.1 Path of warp yarn and cloth through a loom.</p> <p>4.2 Motions of the loom</p> <p>A. Primary motions of loom</p> <ul style="list-style-type: none"> - Shedding (Harness Frame) - Picking (Shuttle) - Beating(Reed) <p>B. Secondary motions of loom</p> <ul style="list-style-type: none"> - Take up(Cloth Beam) - Let off (Warp Beam) 	<p>Demonstrate the motions of loom.</p> <p>Practice of Primary motions of loom like :</p> <ul style="list-style-type: none"> - Shedding (Harness Frame) - Picking (Shuttle) - Beating(Reed) <p>Secondary motions of loom like:</p> <ul style="list-style-type: none"> - Take up(Cloth Beam) - Let off (Warp Beam) 	<p>Know your progress 4.1</p> <p>Continue practice of Primary motions of loom like :</p> <ul style="list-style-type: none"> - Shedding (Harness Frame) - Picking (Shuttle) - Beating(Reed) <p>Secondary motions of loom like:</p> <ul style="list-style-type: none"> - Take up(Cloth Beam) - Let off (Warp Beam) 	<p>Describes the path of Warp yarn and Cloth through the loom;</p> <p>Demonstrates awareness about the following Primary motions of the loom:</p> <ul style="list-style-type: none"> ○ Shedding (Harness Frame) ○ Picking (Shuttle) ○ Beating(Reed) <p>Demonstrates awareness about the following Secondary motions of loom</p> <ul style="list-style-type: none"> ○ Take up(Cloth Beam)
Day 12		<p>4.3 Defects in the woven fabric: causes and remedies</p> <p>A. Defects caused by imperfections in yarn:</p>	<p>Visit to the local market to discuss with the shopkeepers about the different types of defects commonly observed by them. Write a report.</p>	<p>Know your progress 4.2</p> <p>Practical 4.1</p> <p>Practical 4.2</p> <p>Hold small group</p>	<p>Know your progress 4.2</p> <p>Practical 4.1</p> <p>Practical 4.2</p> <p>Hold small group</p>

		<ul style="list-style-type: none"> • Mixed End/Thick End • Slub or Slug • Hole Due to Broken Yarns 	<p>Collect samples of defects caused by Imperfection in yarns and paste them in the practical file</p> <p>Study the samples provided and identifies the defects and state the causes and possible remedies.</p>	<p>discussion on the types of defects your friends and family members have seen in the fabrics purchased by them. Write a report.</p>	<ul style="list-style-type: none"> ○ Let off (Warp Beam) <p>Identifies cause of Defects in the woven fabric and suggests remedies</p> <p>Controls and remedies defects caused by imperfections in yarn like:</p>
Day 13		<p>B. Defects caused during Weaving - - Warp Direction</p> <ul style="list-style-type: none"> • Reedy Fabric • Warp Streaks • Misdraws/Wrong Draws • Broken /Missing Ends • Double Ends • Ball like appearance in warp <p>Weft Direction</p> <ul style="list-style-type: none"> • Starting Marks • Filling Weft Bars • Broken Pick • Double Pick • Gout • Sloughing off 	<p>Collect samples of defects caused by Weaving in warp direction and paste them in the practical file</p> <p>Collect samples of defects caused by Weaving in weft direction and paste them in the practical file</p>		<ul style="list-style-type: none"> ○ Mixed End/Thick End ○ Slub or Slug ○ Hole Due to Broken Yarns <p>Controls and remedies defects caused during Weaving in Warp Direction</p> <p>Controls and remedies defects caused during Weaving in Weft Direction</p>

		5.1 Weave design A. Fabric Representation B. Design Paper	Show the intersection of warp and weft on graph paper using coloured pencils. Visit a weaving unit to study the methods adopted by the weavers to show weave designs. Sketch and show representation of Plain weave.	Know your progress 5.1 Continue the practice of showing the intersection of warp and weft on graph paper using coloured pencils	Shows the intersection of warp and weft on graph paper using coloured pencils. Sketches peg plan, point paper and tie up plans of variations of Rib weave
Day 15	5. Basics of Weave Design	5.2 Drafting, peg plan and tie up plans	Practice of the intersection of warp and weft on graph paper using coloured pencils. Sketch peg plan, point paper and tie up plans of variations of Rib weave	Practical 5.1 Continue the practice of sketching peg plan, point paper and tie up plans of variations of Rib weave	Explains the following Types of Drafts
Day 16		5.3 Types of Drafts <ul style="list-style-type: none"> • Straight Draft • Point Draft • Skip Draft • Sateen Draft 	Demonstrate Design, Draft and peg plan on graph paper of basic weaves. Practice creating drafts of the following weaves: <ul style="list-style-type: none"> • Regular Basket Weave • Irregular Basket Weave 	Know your progress 5.2 Practice creating drafts of different types of weaves	<ul style="list-style-type: none"> ○ Straight Draft ○ Point Draft ○ Skip Draft ○ Sateen Draft
Day 17		5.4 Basic principles of drafting and peg plan Drafting Peg Plans	Demonstrate Design, Draft and Peg Plan on graph paper of basic weaves. Practice of Design, Draft and peg plan on graph paper of all basic weaves.	Portfolio activity 5.1 Let us Practice Continue the practice of Design, Draft and Peg Plan on graph paper of all basic weaves.	Demonstrates Design, Draft and peg plan on graph paper of basic weaves. Creates drafts of the following weaves: <ul style="list-style-type: none"> ○ Regular Basket Weave ○ Irregular Basket Weave
Day 18		6. Weave :	6.1 Classification of	Make a chart showing	Practice and learn the

	Designs and Construction	weaves Basic Weaves and Decorative weaves 6.2 Basic weaves Method of construction <ul style="list-style-type: none"> Variations of Plain Weaves 	classification of weaves. Visit a weaving unit and learn the weaving procedure of Basic weaves	weaving procedure of different Basic weaves	Basic Weaves and Decorative weaves Enumerates the different types of Basic weaves
Day 19		Variation of Plain Weave <ul style="list-style-type: none"> Rib Weave: <ul style="list-style-type: none"> Warp Rib Weft Rib Basket Weave <ul style="list-style-type: none"> Regular Basket Weave Irregular Basket Weave 	On graph paper make with Design, Draft and Peg plan of variations of all plain weaves Practical 6.1	Using coloured strips of paper/ribbon make samples of different variations of plain weave and twill weave.	Designs, Drafts and makes the Peg plan of the following Variations of Weaves <ul style="list-style-type: none"> Rib Weave: <ul style="list-style-type: none"> Warp Rib Weft Rib Basket Weave <ul style="list-style-type: none"> Regular Basket Irregular Basket
Day 20		Variation of Plain Weave to be continued.	Practical 6.2	On graph paper make Design, Draft and Peg plan of the variation of all plain weaves	
Day 21		Twill Weave <ul style="list-style-type: none"> Balanced Twill Weave Unbalanced Twill Weave S Twill Weave Z Twill Weave 	On graph paper make variation of all twill weaves with Design, Draft and Peg plan. Practical 6.3 Observe and identify the type of weave of the samples provided. Record your observations in the practical file.	Portfolio activity 6.1 Using coloured strips of paper/ribbon make samples of different variations of plain weave and twill weave.	- Twill Weave

Day 22	<p>Twill Weave</p> <ul style="list-style-type: none"> • Herringbone Twill Weave • Pointed Twill Weave 		<p>Know your progress 6.1</p> <p>Visit the local market and collect samples of all weaves learnt and paste in the practical file and label them</p>	<ul style="list-style-type: none"> ○ Balanced Twill Weave ○ Unbalanced Twill Weave ○ S Twill Weave ○ Z Twill Weave ○ Herringbone Twill Weave ○ Pointed Twill Weave
Day 23	<p>Twill weave to be continued</p>		<p>Portfolio activity 6.1</p>	
Day 24	<p>6.3 Decorative Weave</p> <ul style="list-style-type: none"> • Dobby Weave • Jacquard Weave • Leno Weave 	<p>Do fabric analysis of samples provided. And identify the weaves of the samples and record your observations in the practical file.</p> <p>Practical 6.4</p> <p>Visit a Pile fabric waving unit and learn the procedure of weaving – Uncut and Cut pile fabrics</p>	<p>Know your progress 6.2</p> <p>Visit the local market and collect samples of decorative weaves learnt and paste in the practical file and label them</p>	<p>-Decorative Weave</p> <ul style="list-style-type: none"> ○ Dobby Weave ○ Jacquard Weave ○ Leno Weave - Pile Weave ○ Uncut Pile Weave ○ Cut Pile Weave - Surface figure weave ○ Lappet Weave ○ Swivel Weave ○ Spot Weave ○ Huckaback Weave
Day 25	<p>Pile Weave</p> <ul style="list-style-type: none"> • Uncut Pile Weave • Cut Pile Weave 	<p>Practice the Procedure of weaving Uncut and Cut pile fabrics</p> <p>Visit a weaving unit to study the methods adopted by the weavers to weave Surface Figure weaves.</p>	<p>Portfolio activity 6.2</p> <p>Visit the local market and collect samples of Pile weaves learnt and paste in the practical file and label them</p>	
Day 26	<p>F. Surface figure weave</p> <ul style="list-style-type: none"> • Lappet Weave • Swivel Weave • Spot Weave • Huckaback Weave 	<p>Visit the local market and study the Surface Figure weave fabrics available. Write a report of the visit and your observations.</p>	<p>-Know your progress 6.3</p> <p>Let us practice</p> <p>-Continue the practice of the procedure to weave Surface Figure weaves</p>	

			Practice the procedure to weave Surface Figure weaves. Practical 6.5	-Collect samples of fabrics with Surface figure weave and paste in the practical file and label them.	
Day 27	7.Quality Assurance in Handloom Fabrics	<p>7.1 Quality and its dimension.</p> <ul style="list-style-type: none"> • Performance and Features • Durability • Reliability • Aesthetics • Serviceability • Conformance • Perceived Quality <p>7.2 Factors affecting qualities.</p> <ul style="list-style-type: none"> • Fibre • Yarn <ul style="list-style-type: none"> - Yarn Regularity - Yarn Appearance - Yarn Count - Yarn Twist - Yarn Strength - Yarn Hairiness • Weaving • Fabric Properties <ul style="list-style-type: none"> - Colour Fastness - Dimensional Stability - Strength 	<p>Practical work 7.1, Undertake a Market Survey and study the Dimensions of quality expected by the consumer. Rate the dimensions and write a report</p> <p>Visit a weaving unit to study the methods adopted by the weavers to ensure quality in Weaving at fibre and yarn stage. Study the factors affecting quality and the methods adopted by them to overcome them.</p> <p>Design a Rating Scale to help assess quality dimensions.</p> <p>Visit a weaving unit to study the methods adopted by the weavers to ensure quality in Weaving at fabric stage. Practical work 7.2</p>	<p>Know your progress 7.1,</p> <p>Hold small group discussions with family and friends to study the problems being faced by them with regard to quality of fabrics available in the markets.</p> <p>Know your progress 7.3</p> <p>Practice of identifying and rating quality dimensions.</p>	<p>Ensures quality in the following dimensions:</p> <ul style="list-style-type: none"> ○ Performance and Features ○ Durability ○ Reliability ○ Aesthetics ○ Serviceability ○ Conformance ○ Perceived Quality <p>Controls the factors affecting quality.</p> <p>Adopts prescribed procedures to control defects and achieve quality.</p>

Day 28		7.3 Standard and certification of handloom fabric and products. 7.4 Importance of quality	Practical work 7.3 Know your progress 7.2 Practice of identifying and rating quality dimensions.	Portfolio activity 7.1 Let us Practice	Appreciates the need for Standard and Certification of handloom fabric and products takes steps to achieve this goal.
Day 29	8.Take Care and Be Safe	8.1 Good condition of looms and its parts. <ul style="list-style-type: none"> • Maintenance procedure for loom and its parts - Preventive or Proactive Maintenance - Corrective or Reactive Maintenance Elements of Maintenance <ul style="list-style-type: none"> ○ Inspection/Check up ○ Lubrication ○ Planning and Scheduling ○ Training ○ Recording and analysis 	Practical work 8.1 Designing a schedule for maintenance procedure for loom and its parts <ul style="list-style-type: none"> - Preventive or Proactive Maintenance - Corrective or Reactive Maintenance Organize training for correct maintenance procedures Learn the procedures for correct: <ul style="list-style-type: none"> ○ Inspection/Checkup ○ Lubrication ○ Planning and Scheduling ○ Recording and analysis 	Know your progress 8.1, Continue practice of: Inspection/Checkup Lubrication Planning Scheduling Recording and analysis Know your progress 8.2 Know your progress 8.3	Undertakes the Maintenance for loom and its parts: Designs a schedule for : <ul style="list-style-type: none"> ○ Inspection/Checkup ○ Lubrication ○ Planning and Scheduling ○ Recording and analysis Trained to take Remedial measures for commonly occurring faults and repairs
Day 30		<ul style="list-style-type: none"> • Remedial measures for faults and repairs • Commonly occurring faults and their 	<ul style="list-style-type: none"> - Practice the procedures of identifying faults - Learn and adopt correct procedures for attending to faults - Practice and observe all 	Portfolio activity 8.1 Practice of First Aid Design and make a chart to guide your	Creates a hazard free and efficient work area. Observes correct working Postures and

		<p>remedial measures</p> <p>8.2 Crafting hazard free and efficient work area.</p> <ul style="list-style-type: none"> • Safety and health issues - Exposure to Chemicals - Exposure to noise - Ergonomic issues - Exposure to lint and dust • Tips for Hazard free work area • Potential Hazards and Preventive Measures • Correct working Postures and Equipment handling procedures <p>8.3 Develop protocols of handling emergencies.</p> <ul style="list-style-type: none"> • Handloom Weavers Comprehensive Welfare Scheme 	<p>precautions prescribed for creating a hazard free work place</p> <ul style="list-style-type: none"> - Undertake training for meeting emergencies and natural calamities like earthquake, floods and fire. - Undertake First Aid training 	<p>colleagues and employees for creating a Hazard Free Workplace.</p> <p>Hold small group discussions on how to meet emergencies with family and friends. Write a report on the outcome.</p> <p>Visit your neighborhood Welfare Officer and study the welfare Schemes offered by the Govt. in case of accident, disability and death.</p> <p>Let us Practice</p>	<p>Equipment handling procedures</p> <p>Develop protocols of handling emergencies. Practices and observes all precautions prescribed for creating a hazard free work place.</p> <p>Undertakes training for meeting emergencies and natural calamities like earthquake, floods and fire.</p> <p>Undertakes First Aid training.</p> <p>Demonstrates ability to use safety equipment e.g. Fire Extinguisher. Adheres to emergency, injury and sanitation prescribed procedures.</p> <p>Identifies and reports problems to the</p>
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