

HANDLOOM WEAVING COURSE

DETAILED SYLLABUS

Chapter Name	Duration (Hours)	
	Theory	Lab
Chapter 1 – Various handloom parts and its functions	6	3
1.1. Knowledge of handloom parts viz. warp beam, fabric beam, front rest, back rest, sley, sley race board, shuttle box, picker, short lam, long lam, treadle, tumbler lever/roller for reversing motion, shuttle, heald, reed, temple, lease rod etc. and its functions.		
Chapter 2 – Warping	6	15
2.1 Drafting of warp: Learning the process of drafting and drafting orders through healds and/or harness depending on the area of training.		
2.2 Denting of warp: Learning the process of denting through the reed – Denting order for different kind of products – missing dent		
2.3 Gaiting of warp: Learning gaiting of warp sheet before starting the weaving process with uniform tension throughout width of the fabric		
2.4 Piecing and Knotting of warp: Learning piecing and knotting of warp		
Chapter 3 – Principles of loom motions	6	9
3.1 Primary motions of weaving: Learning proper operation of primary motions viz. shedding, picking and beating-up. Levelling of heald shafts and adjustment of depth of shed to get optimum depth of shed Loading of shuttles with pirn and threading through the shuttle eyes to get proper tension – proper picking without flying away of shuttle – adjustment of picking rope and picker - beating up of weft uniformly to the fell of the cloth		
3.2 Secondary motions of weaving: Learning proper operation of let-off motion and take-up motion – release of optimum length of warp – maintaining proper tension of cloth		
3.3 Auxiliary motions of weaving: Temple motion – removing and fixing of temples properly – lease rod motion – purpose of lease rods – insertion of lease rods – shuttle changing as per the design and patterns		
Chapter 4 – Weaving	6	24
4.1 Jacquard weaving Weaving of fabrics by proper sequencing of various operations using Jacquard – mending of broken ends -		

weaving with optimum speed – pick matching - basic knowledge about Jacquard – capacity of Jacquard threading extra warp and weft yarns.		
Chapter 5 – Fabric study	6	3
<p>5.1 Fabric defects and prevention of defects Common fabric defects in weaving viz. missing end, double end, missing pick, double pick, floats, uneven selvedge, pulled-in selvedge, slack selvedge, crack, reediness, loose ends, wrong draw etc.</p> <p>5.2 Dimensions of fabrics or products Measurement of fabric width and length of product woven – Importance of maintaining the dimension - Shrinkage of fabrics – Tolerances for the dimensions.</p> <p>5.3 Mending and Folding of woven fabrics Unwinding the woven fabrics from the fabric beam - Cropping of loose ends and picks – cropping of extra length of picks at the selvedge – proper folding of products</p>		
Chapter 6 – Fabric study		
6 Soft Skills		
<ul style="list-style-type: none"> • Verbal/ Non-verbal communication • Interview skills • Professional/social etiquettes • Professional correspondence/ English 		