SYLLABUS

FOR

ORNAMENTAL WOOD CARVING

UNDER CODE OF REGULATION FOR INDUSTRIAL SCHOOLS

FOR APPROVAL

DEPARTMENT OF EMPLOYMENT AND

TRAINING,

GUINDY, CHENNAI - 600032

SYLLABUS COMMITTEE MEMBERS:

1.T. RAJASEKAR. M.Tech.

Regional Joint Director of Training, Tirunelveli - 3.

2. S.RADHAKRISHNAN. B.E., P.G.D.C.A.

Asst.Apprenticeship Advisor (Jr)

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4. C.AJAIRAJ. Junior Training Officer.

8. Restrosionen.

C. AJOIRADU, VN12-626003 Bout 1.7.1.

TRADE : ORNAMENTAL WOOD CARVING SYLLABUS

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No-9 Tools & Equipment 22+30+5	Power required 4 Kw	Space Required (In Sq.m) Practical H Theory Cla	No. of Engg. Drawing Hours 2 Hrs / Week	No. of Workshop Cal & Sci Hours 2 Hrs / Week	No. of Theory Hours 8 Hrs / Week	No. of Practical Hours 32 Hrs / Week	Number of Trainees 20	Duration Two Years	Qualification VIII th STD Passed	Name of the Trade ORNAMEN	
0+5 = 57		Practical Hall : 600 Sq.ft. Theory Class : 200 Sq.ft	eek	eek	eek	Veek		S	Passed	ORNAMENTAL WOOD CARVING	

1ST YEAR SYLLABUS

Weeks	Theory / Maths / Drawing	Practical
	Importance of the Trade in the industrial development of the country. Introduction to the General safety, causes of the accident and its remedies Personal Duties of trainees, Discipline, relationship, medical facilities and other extra curricular activities of the institute.	Familiarisation with the Institute, work shop sections and general places and wood working section and wood working machine, shop, Introduction to the safety rules in shop floor and to the fire fighting equipments.
01 to 10	Safety precautions to carpentry and carving hand tolls, work shop discipline and safety first aid etc. Introduction to the hand tools, classifications, Names and uses. Measuring and marking and testing of tools – types, sizes, used etc.	Identification of hand tools, demonstration and using of measuring and marking tools. Sawing practices – using different types of saws. Identification of timbers, showing defects knots shakes grains etc.
	Growth of a tree, Cross sections / copier trunk, Parts their formation and function Identification of timbers	
	Introduction of drawing types of drawing different types of lines used in drawing. Different types of instruments used in drawing study	Study about How to draw free hand drawing and traditional drawings.
11 to 16	Study about different types of sand paper and polishing. Explaining different types of sand papers and their utilization.	Study the method of drawing square shape, rectangular shape, triangular shape with light and shade.
	System of Units – British, Metrie and SI units for length, are and volume etc.	Practical training of sand papering by using sand papers NO. 80, 100, 120 on 12" size wood. Verifying surface by using tri-square, scale and correcting the surface.
	Study on drawing in the centre portion, measuring, explaining measurement details and drawing trial picture.	

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81.0171	Study the advance type of free hand drawing	Free hand drawing
	Study about the use of wood filler after sand papering.	Practical training to clean the sand prepare wood piece and
19 to 20	Explaining process of closing minute holes of the wood so as to	applying wood filler by using plate piece.
	safeguard the wood from natural defects.	
21	Revision	
	Introduction of polishing of wood by various type of wood	Preparation sponge - pack and polishing Two Coats on
22 to 25	polishes. Explaining the process of wood polishing. Explaining	finished wood surface.
	process of polishing by using steel wool.	
	Study about different types of Padmants and decorating the	Traditional drawing four petals padmam.
26 to 28	ancient pillar with padmants. Explaining the methods of	Four petals padmam with corner design.
	measurement to draw the designs.	
20	Nature drawing, drawing trial pictures of various natural plants	Drawing the natural plants by going it's places and seeing
10	like plantain tree etc.	practically in shadows method.
30 to 33	Introduction of Carpentry works. Study on various types of	Sharpening the chisels by using oil and stone powder on
00 00	wood and knowing wires of the wood and handling the tools.	the wood.
	Study the method of measuring wood.	
33 to 34	Mensuration	
40 00	Calculation of timber required for a work. Calculating area,	Marking the wood and cutting by using hand saw. Finishing
	volume of geometrical shapes.	the wood by using hand plainer.
35 to 37	Teaching the preparation of square design, running design with single point double points and three points' leaves	Traditional drawing 16 th petals square design with corner design
20 to 40	Joints. Explanation of measurement methods for doing the work	Practical training of half- groove joint
30 10 40	of half groove joint.	
41	Drawing nature creepers, flowers of leaves and converting into	Nature drawing converting nature drawing to traditional
-	design.	drawing
42	Study tour	

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52	49 to 51	46 to 48	43 to 48
Revision	Advance studies of wood filler colour mixing different types of polishes polishes polishes polishes explaining method of using portable drilling machine and sander.	Decorating the rectangular object with designs	Teaching of joint: Groove joint (or) L. Joint. Explaining the Creating groove joint with proper measurements by using measurement methods.
	Colour mixing – practical. Practical training of using portable drilling machine and sander.	Traditional drawing running design	Creating groove joint with proper measurements by using hand chisels.

SECOND YEAR

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Weeks	Theory / Maths / Drawing	Practical
	Review of 1st year topics	
2	Theory Topics	
_	Maths topics	Safety measures
	Drawing topics	
02 to 03	Traditional Drawing: Teaching the use of Annam bird in the Art field which is prepared beautifully by the skill of imagination	Drawing Annam bird again by using the own imagination of the trainees by changing "Karukkany"
04 to 06	Teaching the method sand papering on sculptures and explaining the designs of sculptures	Practical training of sand papering on "Eight petals round shaped lotus" made by wood.
07 to 08	Nature drawing- Tall coconut tree and neem tree. Explaining how to draw with natural apperance	Drawing by seeing the trees practically in the size of 7 cm × 5.5 cm in the process of light and shade
09 to 11	Explaining the appearance of lioness fixed in pillars of the ancient temples	Drawing : Simham Imaginary : Simham
12 to 15	Sandapapering advanced sand papering four petals flower design	Practical preparation of four petals flower and applying wood filler and polishing suitably
16 to 19	Explanation on drawing elephant picture	Traditional drawing elephant. Imaginary elephat
29	Nature drawing – Bunch of grapes prepared by plaster of Paris	Light and shade drawing "Bunch of Grapes" Light and shade drawing "Dove" Bird.
21 to 23	Sand papering II stage, Polishing II stage	Four petals flower II model, sand papering and polishing
24 to 25	Introduction of portable router machine and portable Jigsaw machine. Introduction of wood carving and explaining carving works in details.	Practical on using the machine for art works. Explain 24 varieties chisels practically and their usage.
26 to 28	Explaining the appearance of Maharam	Traditional drawing Maharam – Imaginary Maharam

51 to 52	47 to 50	46	43 to 45	41 to 42	38 to 40	34 to 37	31 to 33	29 to 30
Revision	I. Introduction on designs of international styles III. Introduction of modern machineries usable for carving works	Study tour	Carving III stage which contains minute work and sophisticated designs	Teaching the method of drawing "Nandhi" which are seen in ancient temples.	Teaching II stage of carving works	Teaching the methods of using various chisels on various types carving works.	Sharpening the chisels by using oil stone and water emery.	Explaining the method drawing for the conversion of full size into half size.
	Drawing the designs of International styles		Practical carving III stage flower.	Nandhi exercise. Imaginary Nandhi. Drawing the man of work in the method of light and shade.	Carving practical four petals flower square design	Carving practical eight petals round shaped lotus.	Practical of sharpening the chisels of different sizes and shapes by using oil stone and water emery.	Drawing the Annam bird in light and shade process by referring the sculpture made by plaster of Paris and converting it into traditional drawing.

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List of Tools & Equipments for a unit or Batch of 20 Trainees wood carving for me unit TRAINEES KIT

12.	11.	10.	9.		7.	6.	5.	4.	3.	2.	1.	Sl.No.
Hammer, claw (500 gr)	Carvers mallet	Screw driver 300mm (cabinet maker)	Chisel, mortice 6, 10, 15mm (3 Nos.)	Chisel, firmer, (bevel edge) 6, 10, 15mm (3 Nos.)	Wooden Hand Planer	Carpendter mortice gauge	Carpenter marking gauge	Square, bevel 50mm	Carpentry square 200mm	Marking knife, 200mm length	Rule Sixs 1 meter (inch and mm)	Description
20	20	20	20	20	20	20	20	20	20	20	20	Quantity

CARVING CHISELS

22.	21.	20.	19.	18.	17.	16.	15.	14.	13.	
Keelre Chisels	Nagah Chisels	Thekil Chisels	Kuzhaivu Chisels	Suruthu Chisels	Panthu Chisels	Chip carving knife	'V' or parting tool	Straight bend and curve gauges	Straight and bend chisels	
2	2	2	2	20	20	20	20	20	20	

List of Tools & Equipments of Ornamental wood carving for one unit GENERAL OUTFIT

Sl.No.	Description	Quantity
1.	Measuring Tape 3 meter	1 No.
2.	Oil stone (carboundam) universal silicon carbide cambination rough and fine) $200 \times 50 \times 25 \text{mm}$	4 Nos.
3.	Wing camposs 300mm	2 Nos.
4.	Spirit level 300mm	2 Nos.
5.	Rip saw 600mm	4 Nos.
6.	Cross cut saw (600mm)	4 Nos.
7.	Fret saw frame and blade 150mm and 300mm	2 Nos.
.8	Router plane	4 Nos.
9.	Moulding plane set	4 Nos.
10.	Gauge chiesel finer 6mm, 10, 12, 16, 20mm	1 No.
11.	Pincer 50mm	1 No.
12.	File half round wood RASP 300mm	4 Nos.
13.	Needle file 100mm	2 Nos.
14.	Hand drill 6mm	1 No.

Sl.No.	Description	Quantity
15.	'C' Clamp 150mm	1 No.
16.	'T' Bar Gamp 4' Lg	1 No.
17.	Carpenter vice 250mm jaw	1 No.
18.	Carving tool set	4 Set
19.	Carpenters work bench 2400 x 600 x 800mm	1 No.
20.	Oil can	4 Nos.
21.	Steel lockers 20 compartment with individual lock	1 No.
22.	Steel almirah with shelves 1980 x 910 x 480mm	1 No.
23.	Instructor table	1 No.
24.	Instructor chair	1 No.
25.	Stool	1 No.
26.	Black Board with easel	1 No.
27.	Materials rack	1 No.

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Spray Gun	Portable Sander	Hand Drill machine	Portable Router – Different Type	Jigsaw Machine	Description	General Installation and Accessories	Fire buckets	Fire extinguisher	Spanner Double Ended set of 14	
1 No.	1 No.	1 No.	1 No.	1 No.	Quantity		4 Nos.	2 Nos.	1 Set.	