CURRICULUM GUIDE

F O R

Bamboo Artisan

(A Modular Approach)

Council for Technical Education and Vocational Training



Curriculum Development Division

Sanothimi, Bhaktapur First revision, 2007

Table of Contents

Introduction	3
Aim	3
Objectives	3
Course Description	3
Duration	4
Target Group	4
Target location	4
Group Size	4
Medium of Instruction	4
Pattern of Attendance	4
Focus of Curriculum	4
Entry Criteria	4
Instructional Media and Materials	4
Teaching Learning Methodologies	5
Follow up Provision	5
Grading System	5
Trainees Evaluation Details	5
Trainers' Qualification (Minimum)	5
Trainer-Trainees Ratio	
Suggestions for Instruction	5
Certificate Requirements	7
Skill Testing Provision	7
Course Structure for Bamboo Artisan	9
Module Title: Basic Course	10
Sub module Title: Applied English	20
Sub module Title: Basic Mathematics	21
Module Title: Bamboo Stem Based Handicraft	22
Sub module Title: Basic Tools and Basic Works	23
Sub module Title: Bamboo Stem Based Decorative Articles Making	43
Module Title: Bamboo Root Based Handicraft	84
Sub module Title: Basic Tools and Basic Works	85
Sub module Title: Bamboo Root Based Decorative Articles Making	95
Module Title: Entrepreneurship Development	111
Sub module Title: Entrepreneurial Skills	112
Sub module Title: Sales and Marketing Skills	120
OJT for Bamboo Artisan	129
References	
Physical Facilities	133
Experts Involved	

Introduction

The competency based and market oriented curriculum guide for **Bamboo Artisan** is designed to produce employable skilled Handicraft Technician equipped with knowledge, skills and attitudes related to the occupation. In this curriculum, the trainees will practice skills of handicraft making; especially the bamboo based decorative articles in the bamboo handicraft industries. Once the trainees acquire the competencies they will have ample opportunity for employment and self-employment through which they will contribute in the national streamline of poverty reduction in the country.

The feature of this curriculum is to focus on entrepreneurial skills and Sales & marketing skills in order to create self-employment opportunity. The skills and knowledge included in Applied Mathematics, Basic English, and basic concept of handicraft improve their knowledge and skills and make them competent bamboo artisan needed for the occupation. Another major feature of the curriculum is to incorporate the drop-out youths who have only the class five schooling experience. The curriculum is designed on the basis of modular modality so that it will be successful to meet the needs of individual and community.

Aim

The main aim of this program is to produce employable bamboo based artisans who could provide effective services at bamboo based handicraft industries as well as could create self employment opportunity in the country.

Objectives

After completion of training the trainees will be able to:

- 1. Familiarize with concept of bamboo and bamboo based handicraft.
- 2. Apply English for understanding occupation related terminologies.
- 3. Perform simple mathematical problems related to occupation.
- 4. Design and draw sketches and drawings.
- 5. Develop entrepreneurial and marketing skills related to occupation.
- 6. Prepare the splints frames, lipping stripes, roofs, and bases as parts related to decorative articles.
- 7. Prepare carving and embroidery patterns.
- 8. Design bamboo stem based and root based decorative articles.
- 9. Make bamboo stem based and root based decorative articles.
- 10. Paste carving patterns on the prepared decorative articles.
- 11. Perform finishing works of the products.

Course Description

This curriculum guide is based on the work required to be performed by a bamboo-based handicraft making artisan at handicraft industries in Nepal. This curriculum guide is designed to equip trainees with the skills & knowledge of the field of bamboo based handicraft especially, with knowledge and skills of decorative article production. This course is divided in three modules with the prerequisite of Basic course. The Basic course consists of Basic Concept about bamboo and handicraft, Basic English, and Applied Mathematics. Moreover, the designed curriculum guide consists of two modules as specialized and common modules, is a complete package of Bamboo Artisan. These modules are. (1) Bamboo Stem Based Handicraft; (2) Bamboo Root Based Handicraft and (3) Entrepreneurship Development. The Entrepreneurship Development is offered in this curricular program as a common module. The provision of On-the-Job Training (OJT) is included to provide opportunities to the trainees to experience and expose to "The World of Work" as well as practice the critical competencies.

The duration of particular modules will be as mentioned in the course structure. There will be demonstration by instructors/trainers and the opportunity to practice skills/tasks

necessary for this level of technicians. Trainees will practice & learn skills using typical tools, equipment, machines, and materials necessary for the program

Duration

The total duration of the course extends over 10 months (i.e. 6 x130 or 780 hours in-house training + 4x160 hours or 640 hrs OJT=1420 hours total duration). The total duration of in-house training and OJT are 6 months and 4 months respectively. After the completion of the prescribed course the trainees should undergo OJT for the period as mentioned on the course structure. Trainees will learn and practice the knowledge and skills at the institutional level and apply them during the period of OJT so as to have exposure/experience of the "world of work." Entrepreneurial and marketing skills will be provided at the end of training under module 2 to make the trainees competent and orient them for self-employment at the end of training before undergoing OJT.

Target Group

The target group for this training program will be youths with special focus to poor, women, conflict victim, internal displaced people (IDP) and disadvantage groups (DAGs) with educational prerequisite of minimum primary level pass.

Target location

The target group for this training program will be from all over Nepal.

Group Size

The group size of this training program will be maximum 30, provided all necessary resources to practice the tasks/ competencies as specified in this curriculum guide.

Medium of Instruction

The medium of instruction for this program will be Nepali/English or both.

Pattern of Attendance

The trainees should have 80% attendance in theory classes and 90% in practical/performance to be eligible for internal assessments and final examinations.

Focus of Curriculum

This is a competency-based curriculum. This curriculum emphasizes on competency performance. 80% Time is allotted for performance and 20% Time is for related technical knowledge. So, the curriculum focuses on performance of the specified competencies. The provision of OJT is made to practice the critical tasks during the stated period.

Entry Criteria

Individuals who meet the following criteria will be allowed to enter this curricular program:

- Minimum of five class pass or equivalent
- Minimum of 15 years of age
- Citizenship certificate (for the name, parents' name, age, date of birth and address verification purpose only)
- Should pass entrance examination

Instructional Media and Materials

The following instructional media and materials are suggested for the effective instruction and demonstration.

- ➤ **Printed Media Materials** (Assignment sheets, Case studies, Handouts, Information sheets, Individual training packets, Procedure sheets, Performance Check lists, Textbooks etc.).
- > Non-projected Media Materials (Display, Models, Flip chart, Poster, Writing board etc.).
- > Projected Media Materials (Opaque projections, Overhead transparencies, Slides etc.).

- ➤ Audio-Visual Materials (Audiotapes, Films, Slide-tape programs, Videodiscs, Videotapes etc.).
- Computer-Based Instructional Materials (Computer-based training, Interactive video etc.).

Teaching Learning Methodologies

The methods of teaching for **Bamboo Artisan** program will be a combination of several approaches. Such as Illustrated Lecture, Group Discussion, Demonstration, Simulation, Guided practice, Practical experiences, Fieldwork and Other Independent learning.

- ➤ Theory: Lecture, Discussion, Assignment, Group work.
- > Practical: Demonstration, Observation, Guided practice and Self-practice.

Follow up Provision

First follow up: Six months after the completion of the program

Second follow up: Six months after the completion of the first follow up

Follow up cycle: In a cycle of one year after the completion of the second follow up for five years

Grading System

The trainees will be graded as follows based on the marks in percentage secured by them in tests/ evaluations.

- Distinction: Passed with 80% or above
- First Division: passed with 75% or above
- Second Division: passed with 65% or above
- Third Division: passed with 60% or above

Trainees Evaluation Details

- Continuous evaluation of the trainees' performance is to be done by the related instructor/ trainer to ensure the proficiency over each competency under each area of sub-module.
- Related technical knowledge learnt by trainees will be evaluated through written or oral tests as per the nature in the institutional phase of training.
- Trainees must secure minimum marks of 40% and 60% in theory and practical evaluations respectively.
- The ratio between internal and final examination of knowledge test will be 20:80 but for the performance test it will just reverse.
- The entrance test will be administered by the concerned training institute
- The OJT will be evaluated according to the OJT details stated in the curriculum

Trainers' Oualification (Minimum)

- TSLC in related field
- Good communicative and instructional skills
- Experience in related field

Trainer-Trainees Ratio

- In theory classes 1(trainer): 20 (trainees)
- In practical classes (in workshop and laboratory) 1(trainer): 10 (trainees)

Suggestions for Instruction

1. Select objectives

- Write objectives of cognitive domain.
- Write objectives of psychomotor domain.
- Write objectives of affective domain

2. Select Subject matter

• Study subject matter in detail.

- Select content related to cognitive domain.
- Select content related to psychomotor domain.
- Select content related to affective domain.

3. Select Instructional Methods

- Teacher centered methods: like lecture, demonstration, question –answers, inquiry, induction and deduction methods.
- Student initiated methods like experimental, field trip/excursion, discovery, exploration, problem solving, and survey methods.
- Interaction methods like discussion, group/team teaching, microteaching and exhibition.
- Dramatic methods like role play and dramatization
- 4. Select Instructional method (s) on the basis of objectives of lesson plans and KAS domains.
- 5. Select appropriate educational materials and apply at right time and right place.
- 6. Evaluate the trainees applying various tools to correspond the KAS domains.
- 7. Make plans for classroom / field work / workshop organization and management.
- 8. Coordinate among objectives, subject matter and instructional methods.
- 9. Prepare lesson plan for theory and practical classes.
- 10. Deliver /conduct instruction / program.
- 11. Evaluate instruction/ program.

Special suggestion for the performance evaluation of the trainees

- 1. Perform task analysis.
- 2. Develop a detail task performance checklist.
- 3. Perform continuous evaluation of the trainees by applying the performance checklist.

Suggestion for skill training

- 1. Demonstrate task performance in normal speed.
- 2. Demonstrate slowly with verbal description of each and every Performance steps in the sequence of activity of the task performance using question and answer techniques.
- 3. Repeat 2 for the clarification on trainees demand if necessary.
- 4. Perform fast demonstration of the task.

Provide trainees the opportunities to practice the task performance demonstration

- 1. Provide opportunity to trainees to have guided practice.
- 2. Create environment for practicing the demonstrated task performance.
- 3. Guide the trainees in each and every Performance steps of task performance.
- 4. Provide trainees to repeat and re-repeat as per the need to be proficient on the given task performance.
- 5. Switch to another task demonstration if and only trainees developed proficiency in the task performance.

Other suggestions

- 1. Apply principles of skill training.
- 2. Allocate 20% Time for theory classes and 80% Time for task performance while delivering instructions.
- 3. Apply principles of learning relevant to the age group of the learners.
- 4. Apply principles of intrinsic motivation.
- 5. Facilitate maximum trainees' involvement in learning and task performance activities.
- 6. Instruct the trainees on the basis of their existing level of knowledge, skills and attitude.

Certificate Requirements

The related training institute will provide the certificate of "Bamboo Artisan (Bamboo Based Handicraft)" based on the prescribed in-house training and related OJT completed as per the model of the curriculum. However, individuals who complete module(s) of the institutional training will receive the certificate of completion of the particular module(s).

Skill Testing Provision

The graduates who have the completion certificate of this program may sit in the skill test examination of level two (L-2).

Model of Training

		Training mod	del for Bamboo Artisa	ın	
Entry requirement	Basic Course	Specific Module	Common module	OJT	Completion and Certification
E s	BC	1. Bamboo Stem Based Handicraft 2. Bamboo Root Based Handicraft	Entrepreneurship Development	OJT	Bamboo Artisan

Course Structure for Bamboo Artisan

S.N.	Code	Course/Modules/sub modules	Nature	Total hours	Full marks
1	BC	M0: Basic Course	T+P	100	100
		Basic Concept of Bamboo and			
		Handicraft			
		 Applied English 			
		 Basic Mathematics 			
2	M1	M1: Bamboo Stem Based Handicraft	T+P	350	300
		 Basic Tools and Basic Works 			
		 Bamboo Stem Based Decorative 			
		Articles Making			
3	M2	M2: Bamboo Root Based Handicraft	T+P	270	250
		 Basic Tools and Basic Works 			
		 Bamboo Root Based Decorative 			
		Articles Making			
4	M3	M3: Entrepreneurship Development	T+P	60	50
		 Entrepreneurial Skills 			
		 Sales and Marketing Skills 			
		Total		780	700
5		On –the-Job Training (4 months)	P	640	400
		Grand total		1420	1100

Note: OJT commences after the completion of above-mentioned modules.

Module Code: BC

Module Title: Basic Course

Description

This module is designed to equip trainees with the knowledge and skills on Basic Course as a prerequisite for mastering any specialized module/s course. This course provides foundation knowledge of the occupation as well as knowledge and skills of applied English and basic mathematics for supporting to advance the occupational learning.

Aim

This module aims to equip trainees with foundation knowledge and skills as a prerequisite course to master specialized modules.

Objectives

After completion of this course module the trainees will be able to:

- 1. Familiarize with concept of bamboo and bamboo based handicrafts.
- 2. Apply English for understanding occupation related terminologies.
- 3. Perform simple mathematical problems related to occupation.

Prerequisite: Nil

Duration: 100 hours

Course: BC

S.N.	Code	Sub-modules	Nature	Total	Full
				hours	marks
1	BC 0.1	Basic Concept of Bamboo and	T+P	30	
		Handicraft			
2	BC 0.2	Applied English	T	40	100
3	BC 0.3	Basic Mathematics	T	30	
	Total			100	100

Module Code: BC

Sub module Code: BC 0.1

Sub module Title: Basic Concept of Bamboo and Handicraft

Description

This sub module is designed to equip trainees with the knowledge and skills on Basic concept of bamboo and handicraft as a prerequisite course for mastering other specific module/s. This course deals with concept, types, commonly available bamboos, bamboos identification and requirements of a good bamboo under the concept of bamboo as well as concept of handicraft related to the occupation.

Duration: 30 hours

Competencies

- 1. Familiarize with the basis of bamboo
- 2. Identify commonly available bamboos
- 3. Enlist the requirements of a good bamboo
- 4. Preserve fall bamboos
- 5. Identify green and seasoned bamboos
- 6. Familiarize with concept of bamboo based handicrafts/decorative articles
- 7. Specify the category of handicrafts/decorative articles
- 8. Describe bamboo based handicrafts

TASK NO. 1 Familiarize with the basis of bamboo.

Time: 1 hr Theory: 1 hr Practical: hrs

Douformous stone T!1 Df			Deletel Teeleteel
	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
1.	Receive instructions.	Class room, textbooks,	> Introduction of bamboo
2.	Define bamboo.	manuals and handouts	➤ Importance of bamboo
3.	Enlist importance of bamboo.		Uses of bamboo
4.	Enlist uses of bamboo.		
		Task (What): Familiarize with the basis of bamboo.	
		Standard (How well): Bamboo defined Importance of bamboo enlisted Uses of bamboo enlisted	

Tools/equipment:

TASK NO. 2 Identify commonly available bamboos.

Time: 4 hrs Theory: 2 hrs Practical: 2 hrs

D 6			T	 actical. 2 ms
	Performance steps		Terminal Performance	Related Technical
			Objectives	Knowledge
1.	Receive instructions		Condition(Given):	Types of bamboo.
2.	Enlist types of bamboo.		Workshop, displayed samples of commonly	Bamboo available at
3.	Read bamboo available	at	available bamboos	particular altitude.
	particular altitude.			Bamboo available in
4.	Enlist the bamboo available	in		the market for the
	the market for the purpose	of		purpose of handicraft.
	handicraft.		Task (What): Identify commonly available bamboos.	
			Standard (Harry well)	
			Standard (How well): Types of bamboo enlisted Bamboo available at particular altitude read Commonly available bamboo enlisted	

Tools/equipment:

TASK NO. 3 Enlist the requirements of a good bamboo. Theor

Time: 4 hrs Theory: 2 hrs Practical: 2 hrs

	Df	T:	Dalada de Traducia d
	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
1.	Receive instructions	Class room, textbooks,	Definition of a good
2.	Define good bamboo	manuals and handouts	bamboo
3.	Enlist the requirements		Requirements of a good
4.	Enlist defects in bamboo		bamboo
5.	Select young bamboo for		> Defects in bamboo
	preparing splints.		Method of cutting
6.	Select matured bamboo for	Task (What):	upstanding bamboo
	preparing pins and decorative	Enlist the requirements of a good bamboo	Cutting tool handling
	articles	good barriers	technique
7.	Select straight bamboo.		
8.	Remove defective, twisted and		
	wrapped bamboo.		
9.	Select well seasoned bamboo.	Standard (How well): Requirements of a good bamboo enlisted. Defects observed in bamboo	

Tools/equipment: Khukuri, knives etc

Safety:

Remove defective and cracked bamboo while selecting

Handle cutting tools in safe manner

TASK NO. 4 Preserve fall bamboos.

Time: 8 hrs Theory: 2 hrs Practical: 6 hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instructions.	Condition(Given):	Definition of
2. Define of preservation	Fall bamboo, shed, preservative materials,	preservation
3. Enlist importance of	brush ,cutting tools and	> Importance of
preservation	glove	preservation
4. Enlist need of seasoning process		Need of seasoning
5. Enlist technique of seasoning		process
process		> Technique of seasoning
6. Enlist commonly available anti-		process
termite preservative solution	Task (What):	Materials used in
7. Enlist storing technique	Preserve fall bamboos.	preservation
8. Cut bamboo only in winter		Storing technique
season.		
9. Put fall green bamboo on		
sunlight	Standard (How well):	
10. Keep fall bamboo for seasoning	Fall bamboo well seasoned and preserved	
process	F	
11. Keep seasoned bamboo for		
natural drying process under the		
sun light & at the well ventilated		
area		
12. Apply preservative.		
13. Store fall bamboo only on dry		
and well ventilated shed in		
staggered arrangement.		

Tools/equipment:

Safety: Remove bamboo from dampness while storing

TASK NO. 5 Identify green and seasoned bamboos.

Time: 3 hrs Theory: 1 hr Practical: 2 hrs

			110	ictical: 2 nrs
	Performance steps	Terminal Performance		Related Technical
		Objectives		Knowledge
1.	Receive instructions	Condition(Given):	\(\pi\)	Characteristics of green
2.	Read the characteristics of green	Green and seasoned bamboos		and seasoned bamboo
	bamboo.			Identification technique
3.	Read the characteristics of seasoned bamboo.			
4.	Observe green bamboo.			
5.	Observe seasoned bamboo.			
		Task (What): Identify green and seasoned bamboos.		
		Standard (How well): Green and seasoned bamboo observed and identified.		

Tools/equipment:

TASK NO. 6 Familiarize with concept of bamboo based Theory: 2 hrs handicrafts/decorative articles. Time: 2 hrs Practical: hrs

	muici arts/uccor anve articles.		Tractical. IIIS
	Performance steps	Terminal Performance Objectives	Related Technical Knowledge
2.	Receive instructions Define handicraft Enlist the importance of	Condition(Given): Class room, textbooks, manuals and handouts	 Definition of handicraft Importance of handicraft Historical background of
3.	handicraft in importance of		handicraft development
4.	Enlist the development concept of handicraft.	Task (What): Familiarize with concept of bamboo based handicrafts/decorative articles	
		Standard (How well): The concept of bamboo based handicrafts well familiarized.	

Tools/equipment:

Time: 4 hrs
TASK NO. 7 Specify the category of handicrafts/decorative
articles.

Time: 4 hrs
Theory: 2 hrs
Practical: 2 hrs

ar	ucies.		Practical: 2 nrs
	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
1.	Receive instructions.	Class reserve to the sales	Category of handicrafts
2.	Enlist different kinds of bamboo	Class room, textbooks, manuals and sample	➤ Importance of bamboo
	stem based handicraft/	handicrafts/decorative	based handicrafts
	decorative articles.	articles	Bamboo based decorative
3.	Enlist different kinds of bamboo		articles (stem based &
	root based handicrafts/decorative		root based)
	articles.		Potential of bamboo
		Task (What): Specify the category of	based handicraft in Nepal
		handicraft	
		•	
		Standard (How well): Category of handicrafts specified.	

Tools/equipment:

TASK NO. 8 Describe the history of handicraft development.

Time: 4 hrs
Theory: 2 hrs
Practical: 2 hrs

	Performance steps	Terminal Performance	Related Technical
	Terrormance steps	Objectives	Knowledge
	Receive instructions	Condition(Given): Class room, textbooks,	History of handicraft
2. 3.	Enlist history of handicraft Enlist development of handicraft	manuals and handouts	Development of handicraft
4.	Enlist bamboo based handicraft		➤ Bamboo stem based and root based handicrafts
		Task (What): Describe the history of handicraft development	100t based handierarts
		Standard (How well): The history of handicraft development described	

Tools/equipment:

Module Code: BC Sub module Code: BC 0.2

Sub module Title: Applied English

Description

This sub module is designed to equip trainees with the skills and knowledge on Applied English as a basic sub module related to the occupation. This module intends to deal Definition and spelling of the occupation related terminologies, Spelling of occupation related tools and equipment, Spelling of commonly demandable decorative articles or items and Interpretation of working drawings and catalogues.

Duration: 40 hours

Competencies

1. Define bamboo based handicraft following terminologies:

Artisan, Handicraft, Bamboo, Young bamboo, Matured bamboo, Cane, Node, Wall décor, Cloum, Seith, Stem, Root, Internodes, Seasoning, Measuring, Marking, Filing, Sawing, Boring, Drilling, Component piece, Extraction, Skinning, Coating, Stripes, Splints, Hairs, Working drawing, Pictorial drawing, Matt piece, Weaving pattern, Loose weaving, Tight weaving, Upright form, Upright splints, Upright stripes, Over two-under two weave, Over three-under three weave, Hexagonal weave, Square pattern, Blocking weave, Check pattern weave, Modified weave, Lap joint, Butt joint, Dove tail joint, Mitre joint, Mortise and tennon joint, Half lap joint, Structural frame work, Decorative articles, structural parts, Embroidery making, Carving etc, Insulation

2. Spell following bamboo based handicraft tools equipments and materials:

Measuring tape, Knives, Scissor, Scratching brush, Hand saw, Working board, Plash, Vice, Khukuri, C-clamp, Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try- square, Metal ruler, Scratch awl, Hack saw, File, Drilling machine, Drill bit, Circular machine, Small grinder, Rasp, Blow- lamp, Cotton cloth Chisel -Round chisel, Plane chisel, File – Wooden file, Steel file, Hand saw, Hammer, Scraper, Compressor machine, Spray machine for painting, Reamer, Drill Machine with cutter bit, Electric mini power saw, Leather pad, Glove, Sharpening stone, Compressor machine, Electric mini power saw, Spray machine, Carving chisel, Embroidery making tool sets, hardware, Sand paper, ply paper, Varnish, Thinner, Linseed oil etc

3. Spell following commonly demandable bamboo based handicrafts/decorative articles/items:

Flower vase, Flower vase (for table), Churi (Bangle)stand, Dust bin (Basket), Flower vase, Hair comb, Soap case, Square letter box, Temple, Tips box, Cassette rack, Drum (madal), Gate, hair clip, Hand fan, Helicopter, House letter box (five angled), Napkin holder, Pen stand, Phone stand, Photo frame, Pipe (Bansuri), Pooja basket, Ship, square tray, Table lamp, Tooth peg, Tower, Triangular tray, Wall lamp, Wall stand clock, Ornaments (hair clip/ ring/ bracelet), Animal items (giraffe/ cow/ elephant/zebra/rhino/antelope/camel/reindeer), Animal items (lizard/chameleon/snake/crocodile), Bird items (crow/ peacock/ parrot/ lophophorus), Human heads/ statue etc.

4. Interpret working drawing/pictorial drawings and catalogues.

Module Code: BC Sub module Code: BC 0.3

Sub module Title: Basic Mathematics

Description

This sub module is designed to equip trainees with the knowledge and skills on Basic Mathematics as a prerequisite course for mastering other specific module/s. This course deals with mathematical skills such as unit conversion, fraction, measurement, simple geometric concept, volume and quantity calculation, cost calculation as well as other calculations related to the occupation.

Duration: 30 hours

Competencies

- 1. Review additions, dividends, multiplications and subtractions related problems
- 2. Review fraction related problems
- 3. Convert unit of measurement from one system to another system
- 4. Measure length, breadth and height of the object /geometrical figure
- 5. Calculate perimeter of the geometrical figures (triangle, square, rectangle, circle, polygon)
- 6. Calculate area (rectangle, circle, trapezoid, triangle etc)
- 7. Measure mass/density/weight/capacity/Volume of solid and liquid
- 8. Calculate the quantity of materials required
- 9. Measure the quantity of work performed
- 10. Calculate the total cost of work performed and determine loss and profit
- 11. Calculate simple interest
- 12. Apply simple unitary rule.

Text book:

Mathematic - Grade six - Printed by Janak Education Materials Centre Ltd., Sanothimi, Bhaktapur

Module Code: M1

Module Title: Bamboo Stem Based Handicraft

Description

This module consists of two sub modules. These are Basic tools and basic works and Bamboo stem based decorative articles (handicrafts) making.

The first sub modules is designed to equip trainees with the knowledge and skills on Basic tools and equipment handling technique and Basic works related to bamboo based decorative articles making.

Similarly, the second sub module intends to provide the knowledge and skills on different bamboo stem based decorative articles making.

Aim

This module aims to equip trainees with the knowledge and skills on bamboo based decorative articles (handicrafts) making.

Objectives

After completion of this core module the trainees will be able to:

- 1. Handle tools and equipment related to occupation
- 2. Perform measuring, marking, slicing, drilling and skinning works
- 3. Perform bending and work of work piece
- 4. Prepare various types of pins and splints needed for handicraft decorative articles
- 5. Prepare various types of boarders and frames
- 6. Develop and design sketch and drawing
- 7. Weave decorative articles
- 8. Prepare carving patterns
- 9. Make various bamboo based decorative articles/ items
- 10. Apply paints and varnishes to the decorative articles

Prerequisite: Basic course completed.

Duration: 350 hours

Module Structure (M1)

S.N.	Code	Sub-modules	Nature	Total hours	Full
					marks
1.1	SM1.1	Basic Tools and Basic Works	T+P	70	
1.2	SM1.2	Bamboo Stem Based Decorative	T+P	280	300
		Articles Making			
	Total			350	300

On-the-job training for the module will be 320 hours if the module is taken separately and exited from the training.

Module Code: M1 Sub module Code: M1.1

Sub module Title: Basic Tools and Basic Works

Description

This sub module is designed to equip trainees with the knowledge and skills on basic tools handling techniques and basic as well as preparatory works related to bamboo stem based decorative articles making such as safety rules, measuring, marking, trimming, sawing, drilling, and preparations of pins, boarders, splints, joints and frames related to the occupation.

Duration: 70 hours

Competencies

- 1. Orient with safety rules
- 2. Identify/handle tools and equipment
- 3. Measure/ mark work piece
- 4. Saw/trim/slice /file work piece.
- 5. Split stripe
- 6. Drill/bore hole
- 7. Skin work piece
- 8. Apply blowtorch
- 9. Dry stripes
- 10. Straighten/bend/fold work piece
- 11. Prepare pin
- 12. Prepare thick splint/thin splint/wide splint/bend splint (choya)
- 13. Prepare photo frame/basket frame/temple frame/tray frame
- 14. Prepare lamp/letter box/photo frame lipping stripes (boarders)
- 15. Make butt joint/lap joint/ mitre joint
- 16. Apply glue for joining pieces
- 17. Make plain/slant/round/pagoda roof
- 18. Make clock base/flower base/lamp base/temple base
- 19. Fix hardware

TASK NO. 1 Orient with safety rules.

Time: 1 hr Theory: 1 hr Practical: hrs

	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
2.	Define safety. Enlist importance of safety precaution.	Condition (Given): Class room, handouts and safety poster	Define safetyImportance of safety precaution
	Enlist workshop hazards. Enlist personal safety rules and regulations.		Workshop hazardsSafety rules and regulations
5.	Enlist workshop safety rules and regulations.	Task (What): Orient with safety rules.	
		Standard (How well): Various safety rules and regulation oriented.	

Tools/equipment:

TASK NO. 2 Identify/handle tools and equipment.

Time: 3 hrs
Theory: 1 hr
Practical: 2 hr

Performance steps	Terminal Performance	Related Technical
-	Objectives	Knowledge
 Performance steps Receive instructions. Identify the tools used in bamboo based handicraft Identify the equipments used in bamboo based handicraft. Enlist function of tools and Equipment. Handle measuring and marking tools. Handle cutting, sawing and filling tools. Handle drilling/boring tools. Handle carving/embroidery making tools Handle clamping tools. 		

Tools/equipment: Various displaying tools and equipment

Safety: Handle cutting tools in safe manner

TASK NO. 3 Measure/mark work piece

Time: 3 hrs
Theory: 1 hr
Practical: 2 hrs

Performance stens	Terminal Performance	Related Technical
Terrormance steps		
1. Receive instructions. 2. Define measurement 3. Enlist importance of measuring 4. techniques 5. Enlist importance of marking 6. Obtain work piece 7. Collect measuring tools 8. Collect marking tools 9. Apply measuring tools to measure work piece in required size 10. Apply marking tools to mark work piece in required size & shape. 11. Clean and remove dust and particles object. 12. Restore all tools.	Terminal Performance Objectives Condition (Given): Workshop, necessary tools, equipments and materials Task (What): Measure and mark work piece Standard (How well): Work piece measured and marked applying measuring and marking tools.	Related Technical Knowledge Definition of measurement Measuring techniques Importance of marking work piece Marking technique

Tools/equipment: Measuring tape, scale, try-square, pencil, marker, dot pen.

TASK NO. 4 Saw/trim/slice /file work piece.

Time: 4 hrs Theory: 1 hr Practical: 3 hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
 Receive instructions. Collect tools and equipment. Obtained work piece Observe marked work piece Saw work piece in required size & shape. Trim work piece in required size 	Condition (Given): Workshop, necessary tools, equipments and materials	 Importance of sawing, trimming, slicing and filing in handicraft area. Sawing techniques Trimming and slicing techniques Filing techniques
 Slice work piece required size. File work piece as per standard. File work piece as required. Clean and remove dust and particles object. Restore all tools & remaining materials. 	Task (What): Saw/trim/slice/ file work piece. Standard (How well): Work piece sawed, trimmed, sliced and filed as per specification.	

Tools/equipment: Khukhuri, knives, chisel, file etc

Safety: Handle cutting tools in safe manner

TASK NO. 5 Split stripe

Time: 2 hrs Theory: 1 hr Practical: 1 hr

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instructions.	Condition (Given):	
2. Collect tools and equipments	Workshop, necessary	Measuring of required
3. Obtain work piece	tools, equipments and	split strip
4. Collect required tools and	materials	Splitting techniques
equipments		Safety precaution
5. Receive measurement of		
required		
6. Split strip		
7. Split cut piece in required		
stripes.		
8. Clean and remove dust and	Task (What):	
particles object.	Split stripe	
9. Restore all tools & remaining		
materials.		
	Standard (How well):	
	Stripe split as per	
	standard.	

Tools/equipment: Knives, khukuri etc Safety: Handle cutting tools safely

TASK NO. 6 Drill/bore hole

Time: 3 hrs Theory: 1 hr Practical: 2 hr

		1	11actical, 2 III
	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
1.	Receive instructions.	Condition (Given):	Uses of drill machine
2.	Collect tools and equipment.	Workshop, necessary	Drilling and boring
3.	Obtain work piece.	tools, equipments and	Procedure
4.	Observe work piece.	materials	Safety precaution
5.	Fix work piece		
6.	Mark the point to be drilled.		
7.	Drill hole.		
8.	Clean and remove dust and particles object.		
9.	Restore all tools & remaining materials.	Task (What):	
	materials.	Drill/bore hole	
		Billy bole hole	
		Standard (How well):	
		Various sizes of holes	
		bored and drilled as per	
		requirements.	

Tools/equipment: Drill machine, bit etc Safety: Handle cutting tools safely

TASK NO. 7 Skin work piece

Time: 2 hrs Theory: 1 hr Practical: 1 hr

Dowformence stone		The state of the s	Deletel Teeleteel
	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
	Receive instructions.	Condition (Given):	Importance of skinning
	Enlist importance of skinning	Workshop, necessary	Requiring tools
	Obtain work piece	tools, equipments and	Skinning techniques
	Collect required tools	materials	Safety precaution
5.	Determine the point to be		
	skinned.		
6.	Skin the work piece.		
	Clean and remove dust and		
	particles object.		
8.	Restore all tools & remaining		
	materials.		
		Task (What):	
		Skin work piece	
		Skiii work prece	
		Standard (How well):	
		Work piece skinned as per	
		requirements and	
		established standard.	
1			
1			

Tools/equipment: knives, khukuri, chisel etc

Safety: Handle cutting tools safely

TASK NO. 8 Apply blow-torch

Time: 2 hrs Theory: 1 hr Practical: 1 hr

	1	Tractical, Till
Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instructions.	Condition (Given):	5
2. Collect blowtorch	Workshop, blow-torch and	➤ Importance of blow
3. Enlist importance of blow-torch	materials	torch
4. Obtain work piece		Applying techniques
5. Collect materials		Safety precaution
6. Collect blow-lamp		,
7. Apply blow-torch on work		
piece.	Took (What).	
piece.	Task (What):	
	Apply blow - torch	
	Standard (How well).	
	Standard (How well):	
	Blow – torch well applied.	

Tools/equipment: blow –torch, lighter, cloth etc Safety: Handle blow-torch safely

TASK NO. 9 Dry stripes.

Time: 2 hrs Theory: 0.5 hr Practical: 1.5 hr

Performance steps		Terminal Performance	Related Technical
	Performance steps		
		Objectives	Knowledge
1.	Receive instructions.	Condition (Given):	Importance of drying
2.	Enlist the importance of drying	Workshop, necessary	Drying techniques
4.	Receive the drying techniques	tools, equipments and	Safety precaution
5.	Obtain work piece	materials	
6.	Keep drying process under sunlight.		
		Task (What): Dry stripes.	
		Standard (How well):	
		Stripes dried as per	
		standard.	

Tools/equipment: Safety:

TASK NO. 10 Straighten/bend/fold component piece.

Time: 3 hrs Theory: 1 hr Practical: 2 hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instructions.	Condition (Given):	> Importance of
2. Collect tools and equipme	ent. Workshop, necessary	straightening, bending
3. Enlist the importance of	tools, equipments and	and folding of
straightening/ bending/ fo	lding materials	component piece
component piece.		Straightening techniques
4. Collect component piece		Bending techniques
5. Apply blow –torch on req	uired	Folding techniques
portion of the component	piece.	Safety precaution
6. Clamp work piece on vice	2.	
7. Straighten work piece as	Task (What):	
required.	Straighten/bend/fold	
8. Bend work piece as require	red component piece	
size.		
9. Fold work piece as require	e size.	
	Standard (How well):	
	Component piece	
	straightened/bended and	
	folded.	

Tools/equipment: c-clamp, blow torch and vice.
Safety: Handle tools safely

TASK NO. 11 Prepare pin

Time: 2 hrs Theory: 1 hr Practical: 1 hr

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
 Receive instructions. Collect tools and equipment. Enlist importance of pin. Enlist types of pin. Enlist making techniques. Collect stripe. Measure and mark on stripes. Prepare pins. Clean and remove dust and particles object. Restore all tools & remaining materials. 	Condition (Given): Workshop, necessary tools, equipments and materials Task (What): Prepare pin	 Importance of pin Types of pin Making techniques Safety precaution
inaterials.	Standard (How well): Pin prepared as per standard.	

Tools/equipment: Hand saw, knives, scale, khukuri, chisel etc

Safety: Handle tools safely

TASK NO. 12 Prepare thick splint/thin splint/wide splint
(chova)

Time: 4 hrs
Theory: 1 hr
Practical: 3 hrs

(cnoya) Practical: 3 hrs				
Performance steps	Terminal Performance	Related Technical		
	Objectives	Knowledge		
1. Receive instructions.	Condition (Given):	> Types of splint (choya)		
2. Collect the required tools	Workshop, necessary	➤ Gauging of thick, thin		
3. Collect the required work piece	tools, equipments and	and wide splint		
4. Enlist types of splint (choya)	materials	> Preparation techniques		
5. Peel thick splint as required		Safety precaution.		
6. Peel thin splint as required.				
7. Peel wide splint as required.				
8. Clean and remove dust and				
particles object.	Task (What)			
9. Restore all tools & remaining materials.	Task (What): Prepare thick splint/thin			
materials.	splint/wide splint (choya)			
	spinio wide spinii (choya)			
	Standard (How well):			
	Thick splint, thin splint			
	and wide splint prepared			
	as per standard.			

Tools/equipment: Hand saw, knives, measuring tape, khukuri, chisels etc

Safety: Handle cutting tools safely

TASK NO. 13 Prepare photo frame/basket frame/temple frame/tray frame

Time: 5 hrs
Theory: 1 hr
Practical: 4 hrs

<u> </u>			Practical: 4 nrs	
	Performance steps Terminal Performance		Related Technical	
		Objectives		Knowledge
1.	Receive instructions.	Condition (Given):	>	Types of frame
2.	Enlist types of frame.	Workshop, necessary	>	Importance of frame
3.	Enlist making techniques	tools, equipments and	>	Uses of frame
4.	Obtain work piece.	materials	>	Frame making
5.	Collect tools.			techniques
6.	Measure and mark component			_
	piece.			
7.	Prepare various component			
	pieces for frames.	Task (What):		
8.	Clean and remove dust and	Prepare photo		
	particles object.	frame/basket frame/temple		
9.	Restore all tools & remaining	Frame/tray frame		
	materials.	j		
		Standard (How well):		
		Photo frame, basket		
		frame,		
		temple frame and tray		
		frame Prepared in required		
		size and numbers		

Tools/equipment: Hand saw, plash, vice, knives, measuring tape, hammer, chisel, file, glue etc Safety: Handle cutting tools safely

TASK NO. 14 Prepare lamp/letter box/photo frame lipping stripes (boarders)

Time: 5 hrs
Theory: 1 hr
Practical: 4 hrs

stripes (boarders)		Practical: 4 nrs
Performance steps	Terminal Performance	Related Technical
_	Objectives	Knowledge
1. Receive instructions. 2. Collect work piece. 3. Collect tools. 4. Measure and mark work piece. 5. Apply tool for lipping. 6. Prepare lipping strip for lamp 7. Prepare lipping stripes for letter box 8. Prepare lipping stripes for photo frame. 9. Obtain lipping. 10. Clean and remove dust and particles object. 11. Restore all tools & remaining materials.	Condition (Given): Workshop, necessary tools, equipments and materials Task (What): Prepare lamp/letter box/photo frame lipping stripes (boarders) Standard (How well): Lipping stripes for lamp, letter box, photo frame (boarders) prepared	Knowledge Importance of lipping Types of lipping stripes Preparing techniques Lipping techniques Safety precaution

Tools/equipment: Hand saw, plash, vice, knives, measuring tape, hammer, chisel, file, glue etc **Safety:** Handle cutting tools safely

TASK NO. 15 Make butt joint/lap joint /mitre joint

Time: 5 hrs Theory: 1 hr Practical: 4 hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
 Receive instructions. Collect required tools and equipments Collect work piece Mark the point to make butt joint. Mark the point to make lap joint 	Condition (Given): Workshop, necessary tools, equipments and materials	 Importance of joints Types of joints Making techniques Joint making technique Safety precaution
 Mark the point to make mitre joint. Prepare butt joint Prepare lap joint Prepare mitre joint Clean and remove dust and particles object. Restore all tools & remaining 	Task (What): Make butt joint/lap joint/ mitre joint	
materials.	Standard (How well): Butt joint, lap joint and mitre joint made as per standard and measurement.	

Tools/equipment: Hand saw, plash, vice, knives, measuring tape, hammer, chisel, glue etc

Safety: Handle cutting tools safely

TASK NO. 16 Apply glue for joining pieces

Time: 3 hrs
Theory: 1 hr
Practical: 2 hrs

	T	Tractical. 2 ms
Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
 Receive instructions. Collect tools for glue 	Condition (Given): Workshop, necessary	
application.	tools, equipments and	Introduction to gluing materials
3. Obtain the gluing materials.	materials	➤ Importance of glue
4. Collect component parts.		> Types of glue
5. Prepare surface where the glue		➤ Glue applying
is applied.6. Apply glue as required.		techniques Safety precaution
7. Join component parts		Safety precaution
8. Clamp glued component parts.	Task (What):	
9. Clean and remove dust and	Apply glue for joining	
particles object.	pieces	
10. Restore all tools & remaining materials.		
materials.		
	Standard (How well): Glue applied for joining	
	component parts.	
	r v v v r v v v v v v v v v v v v v v v	

Tools/equipment: Glue, cloth etc **Safety:** Handle tools safely

TASK NO. 17 Make plain/slant/round/pagoda roof

Time: 12 hrs
Theory: 2 hrs
Practical: 10 hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instructions.	Condition (Given):	
2. Collect materials	Workshop, necessary	Introduction to different
3. Collect tools and equipments	tools, equipments and	types of roof
4. Draw free hand sketch of plain	materials	Importance of different
roof, slant roof, round roof and		types of roof
pagoda type roof		Size, shape and style of
5. Measure and work piece into		roof
required size.		Design and sketch of
6. Cut work piece into required		roofs.
size	Task (What):	Making techniques
7. Prepare surfaces and edges of	Make plain/slant/round/	Safety precaution
cut piece.	Pagoda roof.	
8. Prepare members of roof		
structure.		
9. Join members of roof structure.		
10. Prepare plain roof.		
11. Prepare slant roof.	Standard (How well):	
12. Prepare round roof.	Plain, slant, round and	
13. Prepare pagoda roof.	pagoda roofs made in	
14. Make roof in required size,	different size, shape and	
shape and style.	style as per obtained	
15. Clean and remove dust and	sketch.	
particles object.		
16. Restore all tools & remaining		
materials.		

Tools/equipment: Hand saw, plash, vice, knives, measuring tape, hammer, chisel pliers, glue etc **Safety:** Handle tools safely

TASK NO. 18 Make clock base/flower base/lamp Time: 8 hrs
Theory: 2 hrs
Practical: 6 hrs

base/temple base		Practical: 6 hrs
Performance steps	Terminal Performance	Related Technical
_	Objectives	Knowledge
 Receive instructions. Collect materials 	Condition (Given): Workshop, necessary	Introduction of base(stand)
3. Collect tools and equipments	tools, equipments and	Importance of base
4. Measure and work piece into	materials	Types of base
required size.	materials	Size, shape and style of
5. Cut work piece into required		base
size		Design and sketch of
6. Prepare surfaces and edges of		base
cut piece.		Making techniques of
7. Prepare members of base	Task (What):	base
structure.	Make clock base/flower	Safety precaution
8. Join members of base structure.	base/lamp base/temple	
9. Prepare clock base.	base.	
10. Prepare flower base.		
11. Prepare lamp base.		
12. Prepare temple base.		
13. Make roof in required size,	Standard (How well):	
shape and style.	Clock base, flower base,	
14. Clean and remove dust and	amp base and temple base	
particles object.	made in different size,	
15. Restore all tools & remaining	shape and style as per	
materials.	obtained sketch.	

Tools/equipment: Hand saw, plash, vice, knives, measuring tape, hammer, chisel, glue etc **Safety:** Handle tools safely

TASK NO. 19 Fix hard wares

Time: 2 hrs Theory: 1 hr Practical: 1 hr

	Tracucar. Tim		
	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
1.	Receive instructions.	Condition (Given):	Introduction of hardware
2.	Obtain tools and equipment.	Workshop, necessary	Importance of hardware
3.	Collect required hard wares.	tools, equipments and	> Types of hardware
4.	Obtain work piece.	materials	> Fixing techniques
5.	Obtain sketch.		Safety precaution
6.	Prepare and mark points where		
	the hard wares to be fixed.		
7.	Apply nails.		
	Clean and remove dust and		
	particles object.		
9.	Restore all tools & remaining		
	materials.	Task (What):	
	***************************************	Fix hard wares	
		Tim mare wares	
		Standard (How well):	
		Hard wares fixed as per	
		standard.	
		Standard.	

Tools/equipment: Plash, hammer, pliers, screwdriver, screw, hard wares etc Safety: Handle cutting tools safely

Module Code: M1 Sub module Code: M1.1

Sub module Title: Bamboo Stem Based Decorative Articles Making

Description

This sub module is designed to equip trainees with the knowledge and skills on bamboo stem based decorative articles making requires to be performed by this level of artisan. This sub module intends to deals with Designing & sketching of various decorative articles, Preparing carving patterns and component piece, Joining works and Making of different decorative articles as well as their finishing.

Duration: 280 hours

Competencies

- 1. Design bamboo stem based decorative articles
- 2. Draw working drawing/sketch
- 3. Design pattern of weaving
- 4. Weave matte piece of required size and shape
- 5. Prepare carving/embroidery patterns
- 6. Prepare component piece
- 7. Join structural frame work/component piece
- 8. Join matte on frame work
- 9. Make triangular /square tray
- 10. Make photo frame
- 11. Make five angled/ square letter box
- 12. Make flower vase (for table & wall)
- 13. Make pen stand
- 14. Make churi stand
- 15. Make tips box
- 16. Make dust bin (Basket)
- 17. Make hair clip
- 18. Make hair comb
- 19. Make soap case
- 20. Make hand fan
- 21. Make pipe (bansuri)
- 22. Make drum madal
- 23. Make napkin holder
- 24. Make tooth pick holder
- 25. Make gate
- 26. Make pooja basket
- 27. Make wall lamp/table lamp stand
- 28. Make phone holder
- 29. Make cassette rack
- 30. Make wall stand clock
- 31. Make house
- 32. Make temple
- 33. Prepare surface for polishing.
- 34. Apply polish / varnish
- 35. Paste carving patterns on decorative articles

Additional competencies

- 1. Make tower
- 2. Make ship
- 3. Make helicopter

TASK NO. 1 Design bamboo stem based decorative articles.

Time: 3 hrs
Theory: 1 hr
Practical: 2 hr

P			Practical: 2 nr
	Performance steps	Terminal Performance	Related Technical
	_	Objectives	Knowledge
1.	Receive instruction.	Condition (Given):	Concept of design
2.	Collect necessary instruments	Classroom, model of	Design criteria
	and materials.	decorative articles	Model of different
3.	Assume the decorative article to	necessary materials and	decorative articles
	be designed.	catalogue	Sketching of different
4.	Conceptualize the whole parts of		decorative articles
	the decorative articles.		Design techniques
5.	Ensure the freehand sketch of	Task (What):	
	the decorative articles to be	Design bamboo stem	
	drawn.	based decorative articles.	
6.	Obtain catalogue/model of the		
	object.		
7.	Design the concept based on		
	obtained catalogue or model of	Standard (How well):	
	the object	Bamboo stem based	
	3	decorative articles well	
		designed consulting	
		related catalogues.	
		8	

Tools/equipment: Various templates, model of decorative articles and catalogue

TASK NO. 2 Draw sketch/working drawing of decorative articles.

Time: 3 hrs
Theory: 1 hr
Practical: 2 hrs

	articles.		
	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
	Receive instruction. Collect tools, instruments and	Condition (Given): Classroom, drawing	Concept of working drawing and sketch in
	materials	model of decorative	handicraft design
3.	Obtain white paper.	articles and necessary	➤ Views of sketch
4.	Obtain models of decorative	materials	Dimension and scale
''	articles	materials	Technique of sketching
5.	Draw the freehand sketch of		
	different decorative articles.	Task (What):	
6.	Refine the freehand sketches	Draw sketch/working	
	and convert to working drawing	drawing of decorative	
7.	Insert measurement.	articles	
8.	Remove dust and particles from		
	drawing.		
	Ç	Standard (How well):	
		Sketch and working	
		drawing of decorative	
		articles drawn consulting	
		related catalogues	
		8	

Tools/equipments:

Paper, Pencil, Eraser, Dot pen, Marker, Paper cutter, sitting matte, Glue, Scotch tape, Pencil sharpener, Colour pencil, Ruler, Compass, Divider, Cutter, Cotton cloth & cleaning brush

TASK NO. 3 Design pattern of weaving.

Time:	3 hrs
Theory	: 1 hr
Practic	al: 2 hrs

	Tractical. 2 ms	
Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instruction. 2. Define weaving pattern. 3. Identify design techniques of pattern 4. Design over one- under one weave. 5. Design over two- under two weave. 6. Design over three- under three weave. 7. Design hexagonal weave. 8. Enlist types of pattern. 9. Design square pattern 10. Design blocking weave. 11. Design check pattern weave. 12. Design pattern of weaving.	Terminal Performance Objectives Condition (Given): Workshop, drawing and necessary materials Task (What): Design pattern of weaving. Standard (How well): Various types of weaving patterns designed consulting related catalogues.	Related Technical

Tools/Equipments:

Paper, Pencil, Eraser, Dot pen, Marker, Paper cutter, Sitting matte, Glue, Scotch tape, Pencil sharpener, Colour pencil, Ruler, Compass, Divider, Cutter, Cotton cloth & cleaning brush

TASK NO. 4 Weave matte piece in required size & shape.

Time: 4 hrs
Theory: 1 hr
Practical: 3 hrs

Fracucai: 5 nrs		Fractical: 5 III's
Performance steps	Terminal Performance	Related Technical
_	Objectives	Knowledge
1. Receive instruction.	Condition (Given):	Concept of matte
2. Collect tools and equipment	Workshop, necessary	weaving
3. Weave over one- under one	tools, equipment,	> Types of matte
weave.	materials, drawing and	> Types of splint
4. Weave over two- under two	template	Weaving techniques
mattes.		assigning various types
5. Weave over three- under three		of matte
mattes.		Safety precaution
6. Weave hexagonal matte.	Task (What):	
7. Weave square pattern matte	Weave matte piece in	
8. Weave blocking matte.	required size and shape	
9. Weave check pattern matte.		
10. Weave check pattern matte.		
11. Clean and remove dusts and		
particles.	Standard (How well):	
12. Clean and remove dust and	Matte woven in required	
particles object.	size and shape.	
13. Restore all tools & remaining		
materials.		

Tools/Equipments: Choya, scissors, Knives, glue, cloth etc

Safety: Handle tools safely

TASK NO. 5 Prepare carving/embroidery patterns.

Time: 3 hrs Theory: 1 hr Practical: 2 hrs

	1	1 lactical, 2 III s
Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instruction.	Condition (Given):	Concept of carving and
2. Enlist carving patterns.	Workshop, necessary	embroidery patterns
3. Collect required tools and	tools, equipment	Types of carving and
template.	materials, drawing and	embroidery patterns.
4. Collect work pieces.	template	Uses of carving and
5. Perform light burning over the		embroidery pattern
surface of work piece for black		Technique of preparing
coloring.		carving and embroidery
6. Prepare square carving pattern.	Task (What):	pattern
7. Prepare star pattern	Prepare	Safety precaution
8. Prepare flower pattern.	carving/embroidery	!
9. Prepare gajur pattern.	patterns.	
10. Clean and remove dust and		1
particles object.		1
11. Restore all tools & remaining		!
materials.	Standard (How well):	!
	Various carving and	1
	patterns of well prepared	!
	as per drawing.	
		!
		1

Tools/equipments: Knife, Chisels, Scissor, Glue (adhesive), Oil stone & Cleaning cloth

Safety: Handle of sharp edged tools safely

TASK NO. 6 Prepare component piece.

Time: 4 hrs
Theory: 1 hr
Practical: 3 hrs

Performance steps	Terminal Performance	Related Technical
1. 5	Objectives	Knowledge
1. Receive instruction.	Condition (Given):	> Introduction of
2. Determine the components to be	Workshop, necessary	component piece.
developed.	tools, equipment,	> Types of materials
3. Collect tools and equipment.	materials, drawing and	Technique of making
4. Obtain design template.	template	component pieces
5. Obtain work pieces.		
6. Measure and mark pieces.		
7. Trim work pieces.		
8. Skin work pieces.		
9. Prepare splint.	Task (What):	
10. Prepare frames	Make component piece.	
11. Prepare lippings.		
12. Weave matte.		
13. Prepare carving pattern.		
14. Prepare roof.		
15. Clean and remove dust and	Standard (How well):	
particles object.	Component piece made as	
16. Restore all tools & remaining	per sketch.	
materials.		

Tools/equipments: Knife, Chisels, Oil stone & cleaning cloth

Safety: Handle of sharp edged tools safely

Time: 4 hrs
TASK NO. 7 Join structural frame work/component piece.

Time: 4 hrs
Theory: 1 hr
Practical: 3 hrs

		Practical: 3 hrs
Performance steps	Terminal Performance	Related Technical
_	Objectives	Knowledge
 Receive instruction. Enlist structural joinery 	Condition (Given): Workshop, necessary	Concept of structural joinery
3. Enlist structural frame work.	tools, equipment,	> Types of structural
4. Determine the structural	materials, drawing and	frame work.
framework to be joined.	template	Structural frame
5. Collect tools and equipment.	1	Working techniques
6. Obtain structural frame work.		Safety precaution
7. Join splint.		
8. Join frames		
9. Join boarders.	Task (What):	
10. Weave matte.	Join structural frame	
11. Prepare carving pattern.	work/component piece.	
12. Prepare roof		
13. Clean and remove dust and		
particles object.		
14. Restore all tools & remaining materials.	Standard (How well): Structural frame work	
	joined as per sketch.	

Tools/equipments: Knife, Chisels, Scissor, Glue (adhesive), Oil stone, & Cleaning cloth **Safety:** Handle of sharp edged tools safely

TASK NO. 8 Join matte on frame work.

Time: 4 hrs
Theory: 1 hr
Practical: 3 hrs

	Performance steps	Terminal Performance		Related Technical
		Objectives		Knowledge
1.	Receive instruction.	Condition (Given):	>	Concept of joinery on
2.	Enlist joinery on matte frame	Workshop, necessary		matte
	work	tools, equipment,	>	Frame work
3.	Collect materials and tools	materials, drawing and	\triangleright	Setting techniques
4.	Set matte in required size and	template	>	Matte joining technique.
	shape		>	Safety precaution
5.	Join matte on frame.			
6.	Clean and remove dust and			
	particles object.	Task (What):		
7.	Restore all tools & remaining	Join matte of frame work.		
	materials.			
		Standard (How well):		
		Matte piece on frame		
		work joined as per sketch.		
		-		

Tools/equipments: Knife, Chisels, Scissor, Glue (adhesive), Oil stone, & Cleaning cloth

Safety: Handle sharp edged tools safely

Time: 10 hrs

		Time. 10 ms
TASK NO. 9 Make triangular tray/	square tray.	Theory: 1 hr
	I =	Practical: 9 hrs
Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instruction and design	Condition (Given):	Concept of triangular
template.	Workshop, necessary	tray and square tray as a
2. Collect required tools.	tools, equipment,	decorative item
3. Arrange work-place.	materials, drawing and	Sketch of triangular tray
4. Select required main & auxiliary	template	and square tray
materials.	_	Primary processing
5. Collect required main &		method.
auxiliary materials.	Task (What):	Component parts
6. Trim bamboo in required cut	Make triangular tray.	> Structural frame work
piece.		Safety precaution
7. Process Skinning of the entire		The state of the s
cut piece.	Standard (How well):	
8. Split cut piece in required	Primary processing work	
stripes.	done.	
9. Dry stripes.	Component pieces	
10. Make choya (splints) in required	prepared.	
width & gauge.	Required joints made.	
11. Prepare component pieces as per	Structural works joined	
template.	correctly.	
12. Make joints as required by the	Matte board base joined.	
work.	Lippings pasted.	
13. Join structural frame-work of	Elppings pasted.	
base & border frame		
14. Prepare matt board for base.		
15. Join matt board on the base.		
16. Join base & border according to		
the instruction.		
17. Prepare lippings (border stripes).		
18. Fix lippings (border stripes).		
19. Assemble components pieces of		
triangular/square tray.		
20. Clean and remove dust and		
particles object.		
21. Restore all tools & remaining		
materials.		
materials.		

Tools/equipments:

Measuring tape, Knives, Scissor, Drilling machine, Bits, Blow-lamp, White glue, Cotton cloth, Scratching brush, Hacksaw Working board, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Plash, Vice, Khukuri, Small Grinder, Clips, Oil stone, Try-square, Metal ruler, Leather pad, Glove etc

Safety:

TASK NO.10 Make photo frame.

Time: 7 hrs	
Theory: 1 h	r
Practical: 6	hrs

Performance steps	Terminal Performance	Related Technical
T errormance steps	Objectives	
 Receive instruction. Collect required tools. Obtain design template. Arrange work-place. Select required main & auxiliary materials. Collect required main & auxiliary materials. Trim bamboo in required cut piece. Process Skinning of the entire cut piece. 	Objectives Condition (Given): Workshop, necessary tools, equipment, materials, drawing and template Task (What): Make photo frame.	 Knowledge Concept of photo frame as a decorative item Sketch of photo-frame Primary processing method. Component parts Structural frame work Safety precaution
 Split cut piece in required stripes. Dry stripes. Prepare choya (splints) in required width & gauge. Prepare component pieces as per template. Make joints as required by the work. Join structural frame-works. Prepare lippings (border stripes). Paste lipping (border stripes). Assemble components pieces of photo frame. Clean and remove dust and particles object. Restore all tools & remaining materials. 	Standard (How well): Primary processing work done. Component pieces prepared. Required joints made. Structural works joined. Lippings pasted.	

Tools/equipments:

Measuring tape, Knives, Scissor, Drilling machine, Bits, Blow-lamp, White glue, Cotton cloth, Scratching brush, Hacksaw Working board, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Plash, Vice, Khukuri, Small Grinder, Clips, Oil stone, Try-square, Metal ruler, Leather pad, Glove etc

Safety:

TASK NO. 11 Make five angled/ square letter box

Time: 10 hrs
Theory: 1 hr
Practical: 9 hrs

Terminal Performance Objectives
1. Receive instruction and design template. 2. Collect required tools. 3. Arrange work-place. 4. Select required main & auxiliary materials. 5. Collect required main & auxiliary materials. 6. Trim bamboo in required cut piece. 7. Process Skinning of the entire cut piece. 8. Split cut piece in required stripes. 9. Dry stripes. 10. Make choya (splints) in required width & gauge. 11. Prepare component pieces as per template. Condition (Given): Workshop, necessary tools, equipment, materials, drawing and template Task (What): Make five angled/ square letter box. Safety precaution Component parts Structural frame work Safety precaution Standard (How well): Primary processing work done. Component pieces prepared.
work. 13. Join structural frame-work of base & border frame 14. Prepare lippings (border stripes). 15. Fix lippings (border stripes). 16. Assemble components pieces of letter box. 17. Clean and remove dust and particles object. Structural works joined correctly. Lippings pasted correctly.

Tools/equipments:

Measuring tape, Knives, Scissor, Drilling machine, Bits, Blow-lamp, White glue, Cotton cloth, Scratching brush, Hacksaw Working board, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Plash, Vice, Khukuri, Small Grinder, Clips, Oil stone, Try-square, Metal ruler, Leather pad, Glove etc

Safety:

TASK NO.12 Make flower vase (for table and wall).

Time: 7 hrs	
Theory: 1 h	ır
Practical: 6	hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
 Receive instruction. Collect required tools. Arrange work-place. Select required main & auxiliary materials. Collect required main & auxiliary materials. Trim bamboo in required cut piece. Process Skinning of the entire cut piece. Split cut piece in required stripes. Dry stripes. Make choya (splints) in required width & gauge. Prepare component pieces as per template. Make joints as required by the work. Join structural frame-work of base & border frame Weave matte. Assemble components pieces of flower vase. Clean and remove dust and particles object. Restore all tools & remaining materials. 	Condition (Given): Workshop, necessary tools, equipment, materials, drawing and template Task (What): Make flower vase (for table/wall). Standard (How well): Primary processing work done. Component pieces prepared. Required joints made. Matte woven Structural works joined.	 Knowledge Concept flower vase as a decorative item Sketch of flower vase Primary processing method. Component parts Structural frame work Safety precaution

Tools/equipments:

Measuring tape, Knives, Scissor, Drilling machine, Bits, Blow-lamp, White glue, Cotton cloth, Scratching brush, Hacksaw Working board, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Plash, Vice, Khukuri, Small Grinder, Clips, Oil stone, Try-square, Metal ruler, Leather pad, Glove etc

Safety:

TASK NO.13 Make pen stand.

Time: 7 hrs
Theory: 1 hr
Practical: 6 hrs

ſ	Performance steps	Terminal Performance	Related Technical
	•	Objectives	Knowledge
	1. Receive instruction. 2. Collect required tools. 3. Arrange work-place. 4. Select required main & auxiliary materials. 5. Collect required main & auxiliary materials. 6. Trim bamboo in required cut piece. 7. Process Skinning of the entire cut piece. 8. Split cut piece in required stripes. 9. Dry stripes. 10. Make choya (splints) in required width & gauge. 11. Prepare component pieces as per template. 12. Make joints as required by the work. 13. Join structural frame-work of base & border frame 14. Weave matte. 15. Assemble components pieces of pen stand. 16. Clean and remove dust and		
	14. Weave matte.15. Assemble components pieces of pen stand.		

Tools/equipments:

Measuring tape, Knives, Scissor, Drilling machine, Bits, Blow-lamp, White glue, Cotton cloth, Scratching brush, Hacksaw Working board, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Plash, Vice, Khukuri, Small Grinder, Clips, Oil stone, Try-square, Metal ruler, Leather pad, Glove etc

Safety:

TASK NO. 14 Make churi (bangle) stand.

Time: 7 hrs
Theory: 1 hr
Practical: 6 hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
 Receive instruction and design template. Collect required tools. Arrange work-place. Select required main & auxiliary materials. Collect required main & auxiliary materials. Trim bamboo in required cut piece. Process Skinning of the entire cut piece. Split cut piece in required stripes. Dry stripes. Prepare component pieces as per template. Make joints as required by the work. Join structural frame-work of base & border frame Join base & border according to 	Condition (Given): Workshop, necessary tools, equipment, materials, drawing and template Task (What): Make churi (bangle) stand. Standard (How well): Primary processing work done. Component pieces prepared. Required joints made. Structural works joined.	
the instruction. 14. Prepare lippings (border stripes). 15. 1Fix lippings (border stripes). 16. Assemble components pieces of churi stand. 17. Clean and remove dust and particles object. 18. Restore all tools & remaining materials.	Lippings pasted.	

Tools/equipments:

Measuring tape, Knives, Scissor, Drilling machine, Bits, Blow-lamp, White glue, Cotton cloth, Scratching brush, Hacksaw Working board, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Plash, Vice, Khukuri, Small Grinder, Clips, Oil stone, Try-square, Metal ruler, Leather pad, Glove etc

Safety:

TASK NO. 15 Make tips box.

Time: 7 hrs
Theory: 1 hr
Practical: 6 hrs

Performance steps	Terminal Performance	Related Technical
	Ü	
1. Receive instruction and design template. 2. Collect required tools. 3. Arrange work-place. 4. Select required main & auxiliary materials. 5. Collect required main & auxiliary materials. 6. Trim bamboo in required cut piece. 7. Process Skinning of the entire cut piece. 8. Split cut piece in required stripes. 9. Dry stripes. 10. Prepare component pieces as per template. 11. Make joints as required by the work. 12. Join structural frame-work of	Objectives Condition (Given): Workshop, necessary tools, equipment, materials, drawing and template Task (What): Make tips box. Standard (How well): Primary processing work done correctly. Component pieces prepared. Required joints made.	Related Technical Knowledge Concept of tips box as a decorative item Sketch of tips box Primary processing method. Component parts Structural frame work Safety precaution
11. Make joints as required by the work.	prepared.	

Tools/equipments:

Measuring tape, Knives, Scissor, Drilling machine, White glue ,Cotton cloth, Scratching brush, Handsaw, Hacksaw, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Plash, Vice, Khukuri, Clips, Oil stone, Try-square, Metal ruler, Small nails, Leather pad, Glove, Ply-wood etc **Safety:**

TASK NO. 16 Make dust bin (basket).

Time: 7 hrs
Theory: 1 hr
Practical: 6 hrs

Performance steps	Terminal Performance	Related Technical
-	Objectives	Knowledge
 Receive instruction. Collect required tools. Arrange work-place. Select required main & auxiliary materials. Collect required main & auxiliary materials. Trim bamboo in required cut piece. 	Objectives Condition (Given): Workshop, necessary tools, equipment, materials, drawing and template Task (What): Make dust bin.	 Knowledge Concept of dust bin as a decorative item Sketch of dust bin Primary processing method. Component parts Structural frame work Safety precaution
 Process Skinning of the entire cut piece. Split cut piece in required stripes. Dry stripes. Make choya (splints) in required width & gauge. Weave basket. Assemble components pieces of dust bin. Clean and remove dust and particles object. Restore all tools & remaining materials. 	Standard (How well): Primary processing work done. Various types of choya prepared. Woven basket. Surface finished with correct	

Tools/equipments:

Measuring tape, Knives, Scissor, Drilling machine, Bits, Blow-lamp, White glue, Cotton cloth, Scratching brush, Hacksaw Working board, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Plash, Vice, Khukuri, Small Grinder, Clips, Oil stone, Try-square, Metal ruler, Leather pad, Glove etc

Safety:

TASK NO. 17 Make hair clip.

Time: 4 hrs
Theory: 1 hr
Practical: 3 hrs

Tools/equipments:

Measuring tape, Knives, Scissor, Drilling machine, Bit, White glue, Cotton cloth, Scratching brush, Handsaw, Working board, Pliers, Chisel Khukuri, Metal ruler, Leather pad, Glove etc **Safety:**

TASK NO. 18 Make hair comb.

Time: 4 hrs
Theory: 1 hr
Practical: 3 hrs

Performance steps	Terminal Performance	Related Technical
Terrormance steps	Objectives	
 Receive verbal instruction and design template. Prepare work-place. Collect required tools. Select required main & auxiliary materials. Collect required main & auxiliary materials. Trim bamboo in required cut piece. Process Skinning of the entire cut piece. Split cut piece in required stripes. Dry stripes. Make stripes in required width and gauge. Mark as required size, shape & style. Cut work-piece Saw teeth lines. Assemble components pieces of hair comb. Clean and remove dust and particles object. Restore all tools & remaining materials. 	Condition (Given): Workshop, necessary tools, equipment, materials, drawing and template Task (What): Make hair comb. Standard (How well): Primary processing work done. Stripe made. Work piece marked. Work piece cut.	 Knowledge Concept of hair comb as a decorative item Sketch of hair comb Primary processing method. Component parts Structural frame work Safety precaution

Tools/equipments:

Measuring tape, Knives, Scissor, Drilling machine, Bits, Blow-lamp, White glue, Cotton cloth, Scratching brush, Hacksaw Working board, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Plash, Vice, Khukuri, Small Grinder, Clips, Oil stone, Try-square, Metal ruler, Leather pad, Glove etc

Safety:

TASK NO. 19 Make soap case.

Time: 7 hrs
Theory: 1 hr
Practical: 6 hrs

Performance steps	Terminal Performance	Related Technical
•	Objectives	Knowledge
Receive verbal instruction and design template.	Condition (Given): Workshop, necessary	Concept of soap case as a decorative item
2. Prepare work-place.	tools, equipment,	➤ Sketch of soap case
3. Collect required tools.	materials, drawing and	Primary processing
4. Select required main & auxiliary	template	method.
materials.		Component parts
5. Collect required main &		> Structural frame work
auxiliary materials.		> Safety precaution
6. Trim bamboo in required cut	Task (What):	
piece.	Make soap case.	
7. Process Skinning of the entire	_	
cut piece.		
8. Split cut piece in required		
stripes.		
9. Dry stripes.	Standard (How well):	
10. Prepare choya (splints) in	Primary processing work	
required width & gauge.	done.	
11. Prepare component pieces as per	Choya made.	
template.	Required joints made.	
12. Make joints as required by the	Structural works joined	
work.	correctly.	
13. Join structural frame-work of	Walls made.	
base.	Cover made.	
14. Make walls.		
15. Make cover.		
16. Assemble components pieces of soap case.		
17. Clean and remove dust and		
particles object.		
18. Restore all tools & remaining		
materials.		

Tools/equipments:

Measuring tape, Knives, Scissor, Drilling machine, Bits, Blow-lamp, White glue, Cotton cloth, Scratching brush, Hacksaw Working board, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Plash, Vice, Khukuri, Small Grinder, Clips, Oil stone, Try-square, Metal ruler, Leather pad, Glove etc

Safety:

TASK NO. 20 Make hand fan.

Time: 7 hrs
Theory: 1 hr
Practical: 6 hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
 Receive instruction and design template. Collect required tools. Arrange work-place. Select required main & auxiliary materials. Collect required main & auxiliary materials. 	Condition (Given): Workshop, necessary tools, equipment, materials, drawing and template	 Concept of hand fan as a decorative item Sketch of hand fan Primary processing method. Component parts Structural frame work Safety precaution
6. Trim bamboo in required cut piece.7. Process skinning of the entire cut piece.8. Split cut piece in required work	Task (What): Make hand fan.	
 piece. Dry work piece. Cut fingers. Extend fingers in required span. Paste texture paper on both sides in required shape. Make hole as required by the work. Assemble components pieces of hand fan. Clean and remove dust and particles object. Restore all tools & remaining materials. 	Standard (How well): Primary processing work done correctly. Work piece split. Required fingers cut. Fingers extended. Texture paper pasted. Hole made.	

Tools/equipments:

Measuring tape, Knives, White glue, Cotton cloth, Scratching brush, Handsaw, Working board, Working table, Chisel, Vice, Khukuri, Try-square, Metal ruler, File, Leather pad, Glove, Texture paper, Glue etc

Safety:

TASK NO. 21 Make pipe (bansuri).

Time: 7 hrs	
Theory: 1 h	ır
Practical: 6	hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instruction.	Condition (Given):	Concept bansuri as a
2. Collect required tools.	Workshop, necessary	decorative item
3. Arrange work-place.	tools, equipment,	Sketch of bansuri
4. Collect appropriate materials.	materials, drawing and	Primary processing
5. Trim bamboo in required length.	template	method.
6. Process Skinning of the work		Component parts
piece.		Structural frame work
7. Dry work piece.	Task (What):	Safety precaution
8. Make holes as required by the	Make pipe (Bansuri).	
work.		
9. Make wooden whistling tongue.		
10. Fix tongue on the mouth of the	Standard (How well):	
work piece.	Primary processing work	
11. Apply blow lamp to create	done.	
pattern on the surface.	Appropriate materials	
12. Clean and remove dust and	collected.	
particles object.	Bamboo length trimmed.	
13. Restore all tools & remaining	Holes made.	
materials.	Wooden whistling tongue	
	made.	
	Tongue fixed as	
	instructions.	

Tools/equipments:

Measuring tape, Knives, White glue, Blow lamp, Wood, Cotton cloth, Scratching brush, Handsaw, Hacksaw, Working board, Try-square, Metal ruler, Leather pad, Glove, Glue, & Chisel **Safety:**

TASK NO.22 Make drum madal.

Time: 10 hrs Theory: 1 hr Practical: 9 hrs

2. Collect required tools. Workshop, necessary	Related Technical Knowledge
 Receive instructions. Condition (Given): Workshop, necessary 	Ü
 4. Collect appropriate materials. 5. Trim bamboo in required cut piece. 6. Process Skinning of the entire cut piece. materials, drawing and template > Task (What): 	decorative item Sketch of madal Primary processing method. Beveling technique Component parts

Tools/equipments:

Measuring tape, Knives, White glue, Handsaw, Working board, Cotton cloth, Scratching brush, Handsaw, Glove, Glue, Black Working table, Chisel, Vice, Khukuri, Try-square, Metal ruler, File, Leather, & charcoal powder

Safety:

TASK NO. 23 Make napkin holder.

Time: 7 hrs
Theory: 1 hr
Practical: 6 hrs

Tools/equipments:

Measuring tape, Knives, White glue, File, Working board, Cotton cloth, Scratching brush, Handsaw, hacksaw, Khukuri, Metal ruler, File, Leather pad, Glove, etc

Safety:

TASK NO. 24 Make tooth pick holder

Time: 7	hrs	;
Theory:	1	hr
Practica	l: 6	hrs

D. C		D. L. A. I. T L
Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instruction.	Condition(Given):	Concept of tooth pick
2. Collect required tools.	Workshop, necessary	holder as a decorative
3. Arrange work-place.	tools, equipment,	article
4. Collect appropriate materials.	materials, drawing and	Sketch of tooth pet
5. Trim bamboo in required cut	template	Primary processing
piece.		method
6. Process Skinning of the entire		Component parts
cut piece.	Task (What):	Structural frame work
7. Dry work piece.	Make tooth pick holder.	Safety precaution
8. Prepare choya (splints) as	_	
required.		
9. Make sticks (sinka) in required	Standard (How well):	
shape & style.	Primary processing work	
10. Cut sticks in standard tooth peg	done correctly.	
size.	Appropriate materials	
11. Bevel one end.	collected.	
12. Pack in standard bulk.	Bamboo length trimmed.	
13. Clean and remove dust and	Sticks made.	
particles object.	Sticks cut in standard size.	
14. Restore all tools & remaining	On end beveled.	
materials.	Standard bulk packed.	
	T	

Tools/equipments:

Measuring tape, Knives, Metal ruler, Leather pad, Khukuri, Sandpaper, Cotton cloth, Handsaw, Hacksaw, Working board, Working table, Chisel, etc

Safety:

TASK NO. 25 Make gate.

Time: 10 hrs
Theory: 1 hr
Practical: 9 hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
 Receive instruction and design template. Collect required tools. Arrange work-place. Select required main & auxiliary materials. Collect required main & auxiliary materials. Trim bamboo in required cut 	Objectives Condition (Given): Workshop, necessary tools, equipment, materials, drawing and template Task (What): Make gate	 Knowledge Concept of gate as a decorative item Sketch of gate Primary processing method. Component parts Structural frame work Safety precaution
 piece. Process Skinning of the entire cut piece. Split cut piece in required stripes. Dry stripes. Make choya (splints) in required width & gauge. Prepare component pieces as per template. Make joints as required by the work. Join structural frame-work of base & border frame Join various components parts. Paste various carving patterns. Assemble components pieces of gate. Clean and remove dust and particles object. Restore all tools & remaining materials. 	Standard (How well): Primary processing work done. Component pieces prepared. Required joints made. Matte woven. Structural works joined.	

Tools/equipments:

Measuring tape, Knives, White glue, Cotton cloth, Scratching brush, Handsaw, Hack saw, Working board, Working table, Chisel, Vice, Khukuri, Try-square, Metal ruler, File, Leather pad, Glove, etc

Safety:

TASK NO. 26 Make pooja baskets.

Time: 10 hrs
Theory: 1 hr
Practical: 9 hrs

Dowforms 4	Townsin al Desiference	Poloted Technical
Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instruction.	Condition (Given):	Concept of pooja basket
2. Collect required tools.	Workshop, necessary	as a decorative item
3. Arrange work-place.	tools, equipment,	Sketch of pooja basket
4. Select required main & auxiliary	materials, drawing and	Primary processing
materials.	template	method.
5. Collect required main &	_	Component parts
auxiliary materials.		> Structural frame work
6. Trim bamboo in required cut	Task (What):	Safety precaution
piece.	Make pooja basket.	
7. Process Skinning of the entire		
cut piece.		
8. Split cut piece in required	Standard (How well):	
stripes.	Primary processing work	
9. Dry stripes.	done.	
10. Make choya (splints) in required	Component pieces	
width & gauge.	prepared.	
11. Weave basket.	Required joints made.	
	Matte woven.	
12. Assemble components pieces of		
pooja basket.	Structural works joined.	
13. Clean and remove dust and		
particles object.		
14. Restore all tools & remaining		
materials.		

Tools/equipments:

Measuring tape, Knives, Scissor, White glue, Cotton cloth, scratching brush, Handsaw, working board, Khukuri, Metal ruler, Leather pad & Glove

Safety:

TASK NO. 27 Make wall lamp/table lamp stand.

Time: 10 hr	S
Theory: 1	hr
Practical: 9	hrs

Tools/equipments:

Measuring tape, Knives, Scissor, White glue, Cotton cloth, Scratching brush, Handsaw, Working board, Plash, Vice, Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler, & Small nails

Safety:

TASK NO. 28 Make phone holder.

Time: 10 hrs
Theory: 1 hr
Practical: 9 hrs

	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
1.	Receive instruction.	Condition (Given):	Concept of phone holder
2.	Collect required tools.	Workshop, necessary	as a decorative item
3.	Arrange work-place.	tools, equipment,	Sketch of phone holder
4.	Select required main &	materials, drawing and	Primary processing
	auxiliary materials.	template	method.
5.	Collect required main &		Component parts
	auxiliary materials.	Task (What):	Structural frame work
6.	Trim bamboo in required cut	Make phone stand.	Safety precaution
	piece.		
7.	Process Skinning of the entire		
	cut piece.	Standard (How well):	
8.	Split cut piece in required	Primary processing work	
	stripes.	done.	
9.	Dry stripes.	Component pieces	
10.	Make choya (splints) in	prepared.	
	required width & gauge.	Required joints made.	
11.	Prepare component pieces as	Matte woven.	
	per template.	Structural works joined.	
12.	Make joints as required by the		
	work.		
13.	Join structural frame-work of		
	base & border frame		
	Weave matte.		
15.	Assemble components pieces		
	of phone stand.		
16.			
1	particles object.		
17.	Restore all tools & remaining		
	materials.		

Tools/equipments:

Measuring tape, Knives, Scissor, White glue, Cotton cloth, Scratching brush, Handsaw, Working board, Plash, Vice, Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler, & Small nails etc

Safety:

TASK NO. 29 Make cassette rack.

Time: 10 hrs
Theory: 1 hr
Practical: 9 hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instruction.	Condition (Given):	Concept of cassette rack
2. Collect required tools.	Workshop, necessary	as a item
3. Arrange work-place.	tools, equipment,	Sketch of cassette rack
4. Select required main & auxiliary	materials, drawing and	Primary processing
materials.	template	method.
5. Collect required main &		Component parts
auxiliary materials.		Structural frame work
6. Trim bamboo in required cut	Task (What):	Safety precaution
piece.	Make cassette rack.	
7. Process Skinning of the entire		
cut piece.		
8. Split cut piece in required	Standard (How well):	
stripes.	Primary processing work	
9. Dry stripes.	done.	
10. Make choya (splints) in required	Component pieces	
width & gauge.	prepared.	
11. Prepare component pieces as per	Required joints made.	
template.	Matte woven.	
12. Make joints as required by the	Structural works joined.	
work.		
13. Join structural frame-work of		
base & border frame		
14. Weave matte.		
15. Assemble components pieces of		
cassette rack.		
16. Clean and remove dust and		
particles object.		
17. Restore all tools & remaining		
materials.		

Tools/equipments:

Measuring tape, Knives, Scissor, White glue, Cotton cloth, Scratching brush, Handsaw, Working board, Plash, Vice, Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler, & Small nails

Safety:

TASK NO. 30 Make wall stand clock.

Time: 10 hi	rs
Theory: 1	hr
Practical: 9	hr

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instruction.	Condition (Given):	Concept of wall stand
2. Collect required tools.	Workshop, necessary	clock as a decorative
3. Arrange work-place.	tools, equipment,	item
4. Select required main & auxiliary	materials, drawing and	Sketch of wall stand
materials.	template	Primary processing
5. Collect required main &		method.
auxiliary materials.		Component parts
6. Trim bamboo in required cut	Task (What):	> Structural frame work
piece.	Make wall stand clock.	Safety precaution
7. Process Skinning of the entire		
cut piece.		
8. Split cut piece in required	Standard (How well):	
stripes.	Primary processing work	!
9. Dry stripes.	done.	
10. Make choya (splints) in required	Component pieces	
width & gauge.	prepared.	
11. Prepare component pieces as per	Required joints made. Matte woven.	
template.		
12. Make joints as required by the work.	Structural works joined.	
13. Join structural frame-work of		
base & border frame		
14. Weave matte.		
15. Assemble components pieces of stand clock.		
16. Clean and remove dust and		
particles object.		
17. Restore all tools & remaining		
materials.		

Tools/equipments:

Measuring tape, Knives, Scissor, White glue, Cotton cloth, Scratching brush, Handsaw, Working board, Plash, Vice, Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler, & Small nails

Safety:

TASK NO. 31 Make house.

Time: 10 hrs
Theory: 1 hr
Practical: 9 hrs

Performance steps	Terminal Performance Objectives	Related Technical Knowledge
 Receive instruction. Collect required tools. Arrange work-place. Select required main & auxiliary materials. Collect required main & auxiliary materials. Trim bamboo in required cut piece. Process Skinning of the entire cut piece. Split cut piece in required 	Condition(Given): Workshop, necessary tools, equipment, materials, drawing and template Task (What): Make house	 Concept of house as a decorative item Sketch of house Primary processing method. Component parts Structural frame work Safety precaution
stripes. 9. Dry stripes. 10. Make choya (splints) in required width & gauge. 11. Prepare component pieces as per template. 12. Make joints as required by the work. 13. Join structural frame-work of base & border frame 14. Weave matte. 15. Assemble components pieces of house. 16. Clean and remove dust and particles object. 17. Restore all tools & remaining materials.	Standard (How well): Primary processing work done. Component pieces prepared. Required joints made. Matte woven. Structural works joined.	

Tools/equipments:

Measuring tape, Knives, Scissor, White glue, Cotton cloth, Scratching brush, Handsaw, Working board, Plash, Vice, Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler, & Small nails

Safety:

TASK NO. 32 Make temple.

Time: 10 hrs Theory: 1 hr Practical: 9 hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instruction.	Condition(Given):	
2. Collect required tools.	Workshop, necessary	Concept of temple as a
3. Arrange work-place.	tools, equipment,	decorative item
4. Select required main & auxiliary	materials, drawing and	Sketch of temple
materials.	template	Primary processing
5. Collect required main &		method.
auxiliary materials.		Component parts
6. Trim bamboo in required cut		Structural frame work
piece.		Safety precaution
7. Process skinning of the entire	Task (What):	
cut piece.	Make temple	
8. Split cut piece in required		
stripes.		
9. Dry stripes.	Standard (How well):	
10. Make choya (splints) in required	Primary processing work	
width & gauge.	done.	
11. Prepare component pieces as per	Component pieces	
template.	prepared.	
12. Make joints as required by the	Required joints made.	
work.	Matte woven.	
13. Join structural frame-work of	Structural works joined.	
base & border frame		
14. Weave matte.		
15. Assemble components pieces of temple.		
16. Clean and remove dust and		
particles object.		
17. Restore all tools & remaining		
materials.		

Tools/equipments:

Measuring tape, Knives, Scissor, White glue, Cotton cloth, Scratching brush, Handsaw, Working board, Plash, Vice, Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler, & Small nails

Safety:

TASK NO. 33 Prepare surface for polishing.

Time: 10 hrs Theory: 1 hr Practical: 9 hrs

Tractical. 7 ms		
Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instruction. 2. Define surface preparation 3. Collect tools & materials. 4. Obtain work piece. 5. Check outer & inner surface. 6. Clean surface. 7. Prepare putty 8. Apply putty to fill the hole and gaps 9. Apply sand paper. 10. Clean and remove dust and particles object. 11. Restore all tools & remaining materials.		

Tools/equipments:

Knife, Chisels, Scissor, Glue, Spirit, Shellac, Brush, Sandpaper, Cotton cloth, Bamboo dust, & cleaning cloth

Safety:

TASK NO. 34 Apply polish/varnish.

Time: 4 hrs
Theory: 1 hr
Practical: 3 hrs

Tools/equipments:

Sandpaper, Small chisel, Spirit, Shellac, Brush, Cotton cloth, & cleaning cloth

Safety:

Time: 5 hrs
TASK NO. 35 Paste carving patterns on decorative articles.

Time: 5 hrs
Theory: 1 hr
Practical: 4 hrs

Tools/Equipments:

Small chisel, Brush, Cotton cloth, Cleaning cloth, white glue, Try-square, scale, pencil etc **Safety:**

Additional Competencies

TASK NO. 1 Make tower.

Time: 13 hrs
Theory: 1 hr
Practical: 12 hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
 Receive instruction. Collect required tools. Arrange work-place. Select required main & auxiliary materials. Collect required main & auxiliary materials. Trim bamboo in required cut piece. 	Condition(Given): Workshop, necessary tools, equipment, materials, drawing and template	 Concept of tower as a decorative of item Sketch of tower Primary processing method. Component parts Structural frame work Safety precaution
7. Process skinning of the entire cut piece.8. Split cut piece in required stripes.	Task (What): Make tower.	
 9. Dry stripes. 10. Make choya (splints) in required width & gauge. 11. Prepare component pieces as per template. 12. Make joints as required by the work. 13. Join structural frame-work of base & border frame 14. Weave matte. 15. Assemble components pieces of tower. 16. Clean and remove dust and particles object. 17. Restore all tools & remaining materials. 	Standard (How well): Primary processing work done. Component pieces prepared. Required joints made. Matte woven Structural works joined.	

Tools/equipments:

Measuring tape, Knives, Scissor, White glue, Cotton cloth, Scratching brush, Handsaw, Working board, Plash, Vice, Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler, & Small nails

Safety:

TASK NO. 2 Make ship.

Time: 13 hrs
Theory: 1 hr
Practical: 12 hrs

Performance steps	Terminal Performance	Related Technical
r criormance steps		
 Receive instruction and design template. Collect required tools. Arrange work-place. Select required main & auxiliary materials. Collect required main & auxiliary materials. Trim bamboo in required cut 	Objectives Condition (Given): Workshop, necessary tools, equipment, materials, drawing and template Task (What): Make ship.	Knowledge Concept of ship as a decorative item Sketch of ship Primary processing method. Component parts Structural frame work Safety precaution
piece.7. Process Skinning of the entire cut piece.		
 Split cut piece in required stripes. Dry stripes. Make choya (splints) in required width & gauge. Prepare component pieces as per template. Make joints as required by the work. Join structural frame-work of base & border frame Join various components parts. Paste various carving patterns. Assemble components pieces of ship. Clean and remove dust and particles object. Restore all tools & remaining materials. 	Standard (How well): Primary processing work done. Appropriate materials collected. Bamboo length trimmed. Component parts made. Structural frame joined.	

Tools/equipments:

Measuring tape, Knives, Scissors, White glue, Cotton cloth, Scratching brush, Handsaw, Working board, Plash, Vice, Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler, & Small nails

TASK NO. 3 Make helicopter.

Time: 13	hrs	
Theory:	1 h	r
Practical:	12	hrs

Performance steps	Terminal Performance	Related Technical
Terrormance steps	Objectives	Knowledge
 Receive instruction. Collect required tools. 	Condition (Given): Workshop, necessary	Concept of helicopter as a decorative item
3. Arrange work-place.	tools, equipment,	Sketch of helicopter
4. Select required main & auxiliary materials.	materials, drawing and template	Primary processing method.
5. Collect required main & auxiliary materials.		Component partsStructural frame work
6. Trim bamboo in required cut piece.	Task (What): Make helicopter.	> Safety precaution
7. Process skinning of the entire cut piece.		
8. Split cut piece in required stripes.	Standard (How well): Primary processing of	
9. Dry stripes.	work done.	
10. Make choya (splints) in required width & gauge.	Component pieces prepared.	
11. Prepare component pieces as per template.	Required joints made. Matte oven	
12. Make joints as required by the work.	Structural works joined.	
13. Join structural frame-work of base & border frame		
14. Weave matte.		
15. Assemble components pieces of helicopter.		
16. Clean and remove dust and particles object.		
17. Restore all tools & remaining materials.		

Tools/equipments:

Measuring tape, Knives, Scissor, White glue, Cotton cloth, Scratching brush, Handsaw, Working board, Plash, Vice, Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler, & Small nails

Safety:

Module Code: M2

Module Title: Bamboo Root Based Handicraft

Description

This module consists of two sub modules. These are Basic tools and basic works, and Bamboo root based decorative articles (handicrafts) making.

The first sub modules is designed to equip trainees with the knowledge and skills on Basic tools and equipment handling technique, and Basic works related to bamboo root based decorative article making.

Similarly, the second sub module intends to provide the knowledge and skills on different bamboo root based decorative articles making.

Aim

This module aims to equip trainees with the knowledge and skills on bamboo root based decorative articles (handicrafts) making

Objectives

After completion of this core module the trainees will be able to:

- 1. Handle tools and equipment
- 2. Perform measuring, marking, slicing, drilling and skinning works
- 3. Develop and design sketch and drawing
- 4. Prepare carving patterns and make embroideries
- 5. Make various bamboo root based decorative articles/ decorative items
- 6. Apply paints and varnishes to the decorative articles

Prerequisite: Basic course completed.

Duration: 270 hours

Module Structure (M2)

S.N.	Code	Sub-modules	Nature	Total hours	Full marks
1.1	SM2.1	Basic Tools and Basic Works	T+P	30	
1.2	SM2.2	Bamboo Root Based Decorative Articles Making	T+P	240	250
	Total			270	250

On-the-job training for the module will be 320 hours if the module is taken separately and exited from the training.

Module Code: M2 Sub module Code: M2.1

Sub module Title: Basic Tools and Basic Works

Description

This sub module is designed to equip trainees with the knowledge and skills on basic tools handling techniques and basic as well as preparatory works related to bamboo root based decorative articles making such as Safety rules, Identification of different shapes & sizes of bamboo roots, Extraction of bamboo roots from sources, measuring, marking, trimming, sawing, slicing, drilling, and making of various joints related to occupation.

Duration: 30 hours

Competencies

- 1. Orient with safety rules
- 2. Identify/handle tools and equipment
- 3. Assess different sizes/shapes of bamboo roots
- 4. Extract bamboo roots from source
- 5. Measure/ mark work piece
- 6. Saw/trim/slice /file work piece
- 7. Drill/bore hole
- 8. Make lap joint
- 9. Carve various patterns of decorative designs/ embroidery

TASK NO. 1 Orient with safety rules (review).

Time: 1 hr Theory: 1 hr Practical: hrs

	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
2.3.4.	Define safety. Enlist importance of safety precaution. Enlist workshop hazards. Enlist personal safety rules and regulations. Enlist workshop safety rules and	Condition (Given): Class room, handouts and safety poster Task (What):	 Define safety Importance of safety precaution Workshop hazards Safety rules and regulations
	regulations.	Orient with safety rules. Standard (How well): Various safety rules and	
		regulation oriented.	

Tools/equipment:

Safety:

TASK NO. 2 Identify/handle tools and equipment.

Time: 3 hrs Theory: 1 hr Practical: 2 hrs

Performance steps	Terminal Performance	Related Technical
_	Objectives	Knowledge
 Receive instructions. Identify the tools used in bamboo based handicraft Identify the equipments used in bamboo based handicraft. Enlist function of tools and Equipment. Handle measuring and marking tools. Handle cutting, sawing and filling tools. 	Condition (Given): Workshop and displayed tools and equipment Task (What): Identify/handle tools and equipment.	 Identifications of tools and equipments. Function of different tools and equipment Tools handling technique Safety precautions
7. Handle electric mini power saw.	ецирисис.	
 Handle compressor machine. Handle drilling/boring tools. Handle drilling machine. Handle blow torch. Handle carving/embroidery making tools. Handle clamping tools. Handle spray machine for painting 	Standard (How well): Various tools and equipments well identified and handled.	

Tools/equipment: Various displayed tools and equipment

Safety: Handle cutting tools in safe manner

TASK NO. 3 Assess different sizes/shapes of bamboo roots.

Time: 3 hrs
Theory: 1 hr
Practical: 2 hrs

		T	Tractical, 2 ms
	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
1.	Receive instructions.	Condition (Given):	Main and auxiliary
2.	Observe bamboo roots sample	Workshop, different sizes	roots
	displayed workshop.	and shapes of displayed	Identification of
3.	Identify different sizes of	bamboo roots	different sizes of
	bamboo roots such as main and		bamboo root
	auxiliary roots.		Identification different
4.	Identify different shapes of		shape of bamboo roots
	bamboo roots.		Texture of bamboo roots
5.	Observe the texture of main	Task (What):	
	roots and auxiliary roots.	Assess different	
6.	Observe the texture of different	sizes/shapes of bamboo	
	sizes and shapes of bamboo	roots.	
	root.		
7.	Enlist the shape of typical		
	bamboo root.	Standard (How well):	
	curred of 100W	Different sizes and shapes	
		of bamboo roots well	
		assessed.	
		assessed.	
1		1	i

Tools/equipment: Various displayed bamboo roots

Safety: Handle bamboo roots safely

TASK NO. 4 Extract bamboo roots from source.

Time: 4 hrs Theory: 1 hr Practical: 3 hrs

	T	Tractical. 3 IIIs
Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instructions.	Condition (Given):	Source for extraction
2. Collect tools and equipment.	Site and necessary	Extracting technique
3. Visit site where the bamboo	extracting tools	Storing technique
roots being extracted.		Safety precautions
4. Mark the ground for trench		
digging if necessary.		
5. Start trench digging and keep		
continue unless the root obtain	Task (What):	
6. Identify main and auxiliary	Extract bamboo roots	
roots.	from source.	
7. Extract main and auxiliary root	nom source.	
from source without damaging		
natural structure and texture.		
8. Store extracted bamboo roots.	Standard (How well):	
o. Store extracted bamboo roots.	Bamboo roots extracted	
	from source.	
	Main and auxiliary	
	bamboo roots well	
	identified.	
	Natural structure and	
	texture of bamboo root	
	kept remaining.	

Tools/equipment: Shovel, cross ct saw, jample measuring tape etc.

Safety: Handle extracting tools in safe manner

Do not damage natural structure and texture of bamboo roots.

TASK NO. 5 Measure/mark work piece (review).

Time: 2 hrs
Theory: 1 hr
Practical: 1 hr

D. C	T. I.D. C.	Delta I Tech de la
Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Receive instructions.	Condition (Given):	Definition of
2. Define measurement	Workshop, necessary	measurement
3. Enlist importance of measuring	tools, instruments and	Measuring techniques
4. techniques	materials	Importance of marking
5. Enlist importance of marking		work piece
6. Obtain work piece		Marking technique
7. Collect measuring tools		
8. Collect marking tools		
9. Apply measuring tools to		
measure work piece in required		
size	Task (What):	
10. Apply marking tools to mark	Measure and mark work	
work piece in required size &	piece	
shape.	piece	
11. Clean and remove dust and		
particles object.	Standard (How well).	
12. Restore all tools.	Standard (How well): Work piece measured and	
12. Restore an tools.	-	
	marked applying	
	measuring and marking	
	tools.	

Tools/equipment: Measuring tape, scale, try-square, pencil, marker, dot pen.

Safety:

TASK NO. 6 Saw/trim/slice /file work piece (review).

Time: 3 hrs
Theory: 1 hr
Practical: 2 hrs

Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
 Receive instructions. Collect tools and equipment. Obtained work piece Observe marked work piece Saw work piece in required size & shape. Trim work piece in required size 	Condition (Given): Workshop, necessary tools, equipment and materials	 Importance of sawing, trimming, slicing and filing in handicraft area. Sawing techniques Trimming and slicing techniques Filing techniques
7. Slice work piece required size.		
 8. File work piece as per standard. 9. File work piece as required. 10. Clean and remove dust and particles object. 11. Restore all tools & remaining materials. 	Task (What): Saw/trim/slice/ file work piece. Standard (How well): Work piece sawed, trimmed, sliced and filed as per specification.	

Tools/equipment: Khukhuri, knives, chisel, file etc

Safety: Handle cutting tools in safe manner

TASK NO. 7 Drill/bore hole (review).

Time: 2 hrs
Theory: 1 hr
Practical: 1 hr

		Tractical. 1 III
Performance steps		Related Technical
	Objectives	Knowledge
Receive instructions.	Condition (Given):	Use of drill machine
Collect tools and equipment.	Workshop,	Drilling and boring
Obtain work piece.	necessary tools,	> Procedure
<u>-</u>		Safety precaution
-		
-		
Clean and remove dust and		
particles object.		
Restore all tools & remaining materials		
materials.	Task (What):	
	Billi core note	
	Standard (How well):	
	requirements.	
	Collect tools and equipment. Obtain work piece. Observe work piece. Fix work piece Mark the point to be drilled. Drill hole. Clean and remove dust and particles object.	Receive instructions. Collect tools and equipment. Obtain work piece. Observe work piece. Fix work piece Mark the point to be drilled. Drill hole. Clean and remove dust and particles object. Restore all tools & remaining

Tools/equipment: Drill machine, bit etc Safety: Handle cutting tools safely

TASK NO. 8 Make lap joint (review).

Time: 2 hrs
Theory: 1 hrs
Practical: 1 hr

	Performance steps	Terminal Performance	Related Technical
	-	Objectives	Knowledge
1.	Receive instructions.	Condition (Given):	Concept of joint
2.	Collect tools and equipment.	Workshop, Workshop,	Types of joints
3.	Obtain drawing	necessary tools,	Function of joint
4.	Obtain work pieces.	equipment, materials	Lap joint making
5.	Observe work pieces.	and drawing	technique
6.	Measure and mark the point to		Safety precaution.
	be lapped on both pieces.		
7.	Prepare lap portion on both		
	work pieces.		
8.	Check the measurement of lap		
	portion and bring it into	Task (What):	
	requirement if necessary.	Make lap joint.	
9.	Join the lap portion of both		
	work pieces.		
10.	Fasten the nails as per	Standard (How well):	
	required.	Lap joint made as per	
11.	Check the lap joint and remove	drawing.	
	unnecessary portion if	Lap joint well kept tight	
	required.	and finish	
12.	Clean and remove dust and		
	particles object.		
13.	Restore all tools & remaining		
	materials.		

Tools/equipment: Bottom square, measuring tape, chisels set, file, mallet, claw hammer etc.

Safety: Handle cutting tools in safe manner

Time: 10 hrs

TASK NO. 9 Carve various patterns of decorative designs/ Theory: 1 hr embroidery. Practical: 9 h

	embroidery.			actical: 9 hrs
	Performance steps	Terminal Performance		Related Technical
		Objectives		Knowledge
1.	Receive instructions.	Condition (Given):		Concept of decorative
2.	Collect tools and equipment.	Workshop, tools		design
3.	Obtain work piece	equipments, materials and		Concept of embroideries
4.	Observe work pieces.	drawing, catalog and		carving
5.	Obtain drawing/catalog of	model of object		Commonly used carving
	decorative designs/			pattern
	embroideries.			Embroidery catalogues
6.	Obtain model of object to be			Embroidery carving
	carved.			technique
7.	Mark/trace the decorative			Safety precaution
	design/embroidery on the work	Task (What):		
	piece.	Carve various patterns of		
8.	Carve commonly used/carving	decorative designs/		
	pattern/ embroideries such as	embroidery.		
	fish embroidery/brick			
	embroidery/flower			
	embroidery/triangle	Standard (How well):		
	embroidery/circle embroidery	Various types of		
	etc.	commonly used		
9.	Apply finishing materials such	embroidery carved as per		
	as ply paper and sand paper.	catalogues and model of		
10.	Clean and remove dust and	objects.		
	particles object.			
11.	Restore all tools & remaining			
	materials.			

Tools/equipment: Carving tools set

Safety: Handle carving tools in safe manner

Module Code: M2 Sub module Code: M2.1

Sub module Title: Bamboo Root Based Decorative Articles Making

Description

This sub module is designed to equip trainees with the knowledge and skills on bamboo root based decorative articles making require to be performed by this level of artisan. This sub module intends to deal with Designing & sketching of various bamboo root based decorative articles such as office items, birds and animals, Making of various bamboo root based decorative articles such office items, birds, animals and ornaments as well as their finishing.

Duration: 240 hours

Competencies

- 1. Design bamboo root based decorative articles.
- 2. Draw sketch/working drawing of office items.
- 3. Draw sketch/working drawing of animals.
- 4. Draw sketch/working drawing of birds.
- 5. Draw sketch/working drawing of statues.
- 6. Make office items (tea mat/ pen holder/telephone holder)
- 7. Make ornament items (hair clip/ ring/ bracelet).
- 8. Make animal items (giraffe/ cow/ elephant/zebra/ rhino/antelope/camel/reindeer)
- 9. Make animal items (lizard/chameleon/snake/crocodile)
- 10. Make bird items (crow/ peacock/ parrot/ lophophorus)
- 11. Make human heads/ statue
- 12. Prepare surface for polishing.
- 13. Prepare spirit shellac solution
- 14. Apply spirit shellac solution(primer)
- 15. Apply touch wood polish / varnish (final)

Time: 5 hrs
TASK NO. 1 Design bamboo root based decorative articles.

Time: 5 hrs
Theory: 1 hr
Practical: 3 hrs

			11	actical: 3 nrs
	Performance steps	Terminal Performance		Related Technical
	-	Objectives		Knowledge
1.	Receive instruction.	Condition (Given):	>	Concept of design
2.	Collect necessary instruments	Classroom, model of	>	Design criteria
	and materials.	decorative articles		Model of different
3.	Obtain white paper.	necessary materials and		decorative articles
4.	Assume the decorative article to	catalogue	>	Sketching of different
	be designed.			decorative articles
5.	Conceptualize the whole parts of		>	Design techniques
	the decorative articles.	Task (What):		
6.	Ensure the freehand sketch of	Design bamboo root based		
	the decorative articles to be	decorative articles.		
	drawn.			
7.	Design the concept.			
		Standard (How well):		
		Bamboo root based		
		decorative articles		
		designed consulting		
		related catalogues.		
1		1	1	

Tools/equipment: Various templates, model of decorative articles and catalogue **Safety:**

Time: 5 hrs TASK NO. 2 Draw sketch/working drawing of office items. Theory: 1 hr

			Pr	actical: 4 hrs
	Performance steps	Terminal Performance		Related Technical
		Objectives		Knowledge
1.	Receive instruction.	Condition (Given):	>	Concept of working
2.	Collect tools, instruments and	Classroom, model of		drawing and sketch
	materials	decorative articles and		office items
3.	Obtain white paper.	necessary materials	>	Model of office items
4.	Obtain models of office items.		>	Views of sketch
5.	Draw the freehand sketch of		>	Dimension and scale
	various office items such as tea	Task (What):	>	Technique of sketching
	mat, pen holder, telephone	Draw sketch/working		
	holder etc.	drawing of office items.		
6.	Refine the freehand sketches			
	and convert to working drawing			
7.	Insert measurement.	Standard (How well):		
8.	Remove dust and particles from	Sketch and working		
	drawing.	drawing of various office		
		items, drawn consulting		
		related catalogues.		

Tools/equipments:

Paper, Pencil, Eraser, Dot pen, Marker, Paper cutter, sitting matte, Glue, Scotch tape, Pencil sharpener, Colour pencil, Ruler, Compass, Divider, Cutter, Cotton cloth & Cleaning brush Safety:

TASK NO. 3 Draw sketch/working drawing of animals.

Time:	5 hrs
Theory	: 1 hr
Practic	al: 4 hrs

	T. 0			cucai. 4 ms
	Performance steps	Terminal Performance		Related Technical
		Objectives		Knowledge
1.	Receive instruction.	Condition (Given):		Concept of working
2.	Collect tools, instruments and	Classroom, model of		drawing and sketch of
	materials	decorative articles and		animals
3.	Obtain white paper.	necessary materials	>	Model of animals
4.	Obtain models of various			Views of sketch
	animals.			Dimension and scale
5.	Draw the freehand sketch of	Task (What):		Technique of sketching
] 3.	various animals such as snake,	Draw sketch/working		reclinique of sketching
	lizard, chameleon, giraffe, cow,	drawing of animals.		
	_	drawing or animals.		
	elephant, zebra, rhino, antelope, camel and reindeer			
		Grand of the state		
О.	Refine the freehand sketches	Standard (How well):		
	and convert to working drawing	Sketch and working		
7.	Insert measurement.	drawing of various		
8.	Remove dust and particles from	animals drawn consulting		
	drawing.	related catalogues.		
			1	

Tools/equipments:

Paper, Pencil, Eraser, Dot pen, Marker, Paper cutter, sitting matte, Glue, Scotch tape, Pencil sharpener, Colour pencil, Ruler, Compass, Divider, Cutter, Cotton cloth & Cleaning brush **Safety:**

TASK NO. 4 Draw sketch/working drawing of birds.

Time: 5 hrs
Theory: 1 hr
Practical: 4 hrs

Tools/equipments:

Paper, Pencil, Eraser, Dot pen, Marker, Paper cutter, sitting matte, Glue, Scotch tape, Pencil sharpener, Colour pencil, Ruler, Compass, Divider, Cutter, Cotton cloth & Cleaning brush **Safety:**

TASK NO. 5 Draw sketch/working drawing of statues.

Time: 5 hrs
Theory: 1 hr
Practical: 4 hrs

	Performance steps	Terminal Performance		Related Technical
	-	Objectives		Knowledge
1.	Receive instruction.	Condition (Given):	>	Concept of working
2.	Collect tools, instruments and	Classroom, model of		drawing and sketch
	materials	decorative articles and		birds
	Obtain white paper.	necessary materials	>	Model of statues
4.	Obtain models of statues.		>	Views of sketch
5.	Draw the freehand sketch of		>	Dimension and scale
	parts of human heads, human	Task (What):	>	Technique of sketching
	half body and human full body.	Draw sketch/working		
6.	Refine the freehand sketches	drawing of statues.		
	and convert to working drawing			
7.	Insert measurement.			
8.	Remove dust and particles from	Standard (How well):		
	drawing.	Sketch and working		
		drawing of various birds		
		drawn consulting related		
		catalogues.		

Tools/equipments:

Paper, Pencil, Eraser, Dot pen, Marker, Paper cutter, sitting matte, Glue, Scotch tape, Pencil sharpener, Colour pencil, Ruler, Compass, Divider, Cutter, Cotton cloth & Cleaning brush **Safety:**

Time: 13 hrs

Theory: 1 hr

TASK NO. 6 Make office items (tea mat/ pen holder/telephone holder)

holder/telephone holder).		Practical: 12 hrs	
1101	-	Tarminal Parformanca	
	1 crioi mance steps		
1. 2. 3. 4. 5. 6. 7. 8.	Receive instruction. Collect required tools. Obtain working drawing. Arrange work-place. Select required work piece. Collect required main & auxiliary materials. Trim bamboo root in required cut piece of items to be made such as tea mat, pen holder and telephone holder. Proceed to convert work piece into mat shape and keep continue until completion. Process to convert work piece into pen holder shape.	Terminal Performance Objectives Condition (Given): Workshop, necessary tools, equipment, instruments, work piece, materials and catalogues or drawing or model of office items Task (What): Make office items (tea mat/ pen holder/telephone holder).	Related Technical Knowledge Concept of office items as decorative articles Drawing and catalog of tea mat, pen holder and telephone holder items Primary processing method Procedure Safety precautions
	Process to convert work piece into telephone holder shape. Carve decorative design/embroidery over the mat/ pen holder/telephone holder as per design and drawing. Check the measurement of the products. Clean and remove dust and particles object.	Standard (How well): Primary processing work done. Office items such as tea mat, pen holder and telephone holder made as per drawing and design.	

Tools/equipments:

Measuring tape, Knives, Scissor, Cotton cloth, Scratching brush, Handsaw, Working board and Vice. Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler etc

Safety:

TASK NO. 7 Make ornament items (hair clip/ ring/ bracelet).

Time: 13 hrs
Theory: 1 hr
Practical: 12 hrs

	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
1.	Receive instruction.	Condition (Given):	Concept of ornament
2.	Collect required tools.	Workshop, necessary	items as decorative
3.	Obtain working drawing.	tools, equipment,	articles
4.	Arrange work-place.	instruments, work piece,	Drawing and catalog of
5.	Select required work piece.	materials and catalogues	hair clip, ring, and
6.	Collect required main &	or drawing or model of	bracelet items
	auxiliary materials.	ornaments	Primary processing
7.	Trim bamboo root in required		method
	cut piece of items to be made		Procedure
	such as hair clip, ring, and	Task (What):	Safety precautions
	bracelet.	Make ornament items	
8.	Proceed to prepared work	(hair clip/ ring/ bracelet).	
	piece into hair clip shape.		
9.	Proceed to convert work piece		
	into ring shape and keep		
	continue until completion.	Standard (How well):	
10.	Proceed to convert work piece	Primary processing work	
	into bracelet shape.	done.	
11.	Carve decorative	Ornament items such as	
	design/embroidery over	hair clip, ring, and bracelet	
	prepared the hair clip/ ring/	made as per drawing and	
	bracelet as per design and	design.	
	drawing.		
12.			
	products.		
13.			
	particles object.		
14.	Restore all tools & remaining		
	materials.		

Tools/equipments:

Measuring tape, Knives, Scissor, Cotton cloth, Scratching brush, Handsaw, Working board, Vice. Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler etc

Safety:

Time: 46 hrs

Theory: 2 hr

TASK NO. 8 Make animal items (giraffe/ cow/ elephant/zebra/rhino/antelone/camel/reindeer).

	no/antelope/camel/reindeer).	cow/ elephant/zebra/	Practical: 44 hrs
1 1111		Terminal Performance	Related Technical
	Performance steps		
1	D : : : : : :	Objectives	Knowledge
1.	Receive instruction.	Condition (Given):	Concept of animal
2.	Collect required tools.	Workshop, necessary	items as decorative
3.	Obtain working drawing.	tools, equipment,	articles
4.	Arrange work-place.	instruments, work	Drawing and
5.	Select required work piece.	piece, materials and	catalog of giraffe,
6.	Collect required main & auxiliary	catalogues or drawing or	cow, elephant,
	materials.	model of animal items	zebra, rhino,
7.	Trim bamboo root in required cut		antelope, camel
	piece of items to be made such as	Task (What):	and reindeer items
	giraffe, cow, elephant, zebra, rhino,	Make animal items	Primary
	antelope, camel and reindeer.	(giraffe/ cow/ elephant/	processing method
8.	Proceed to prepared work pieces into	zebra/ rhino/antelope/	Component parts
	giraffe/ cow/ elephant/zebra/	camel/reindeer)	Procedure
	rhino/antelope/camel/reindeer shape		Safety precautions
	and keep continue until completion.		
9.	Make/insert parts of giraffe over	Standard (How well):	
	prepared such shape of work piece.	Primary processing	
10.	Make/insert parts of cow over	work done.	
	prepared such shape of work piece.	Animal items such as	
11.	Make/insert parts of elephant over	giraffe, cow, elephant,	
	prepared such shape of work piece.	zebra, rhino, antelope,	
12.	Make/insert parts of zebra over	camel and reindeer	
12.	prepared such shape of work piece.	made as per drawing and	
13.	Make/insert parts of antelope over	design.	
13.	prepared such shape of work piece.	design.	
14.	Make/insert parts of camel over		
17.	prepared such shape of work piece.		
15.	Make/insert parts of reindeer over		
15.	prepared such shape of work piece.		
16.			
10.	Carve decorative design/embroidery		
	over the prepared giraffe/ cow/		
	elephant/zebra/		
	rhino/antelope/camel/reindeer as per		
17	design and drawing.		
17.			
10	products.		
18.	Clean and remove dust and particles		
4.0	object.		
19.	Restore all tools & remaining		
	materials.		

Tools/equipments:

Measuring tape, Knives, Scissor, Cotton cloth, Scratching brush, Handsaw, Working board, Vice, Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler etc

Safety:

Time: 38 hrs

Theory: 2 hr

TASK NO. 9 Make animal items (lizard/chameleon/spake/goro/crocodile).

(lizard/chameleon/snake/goro/crocodile).			actical 26 hrs	
(IIZă			Pr	actical: 36 hrs
	Performance steps	Terminal Performance		Related Technical
		Objectives		Knowledge
1.	Receive instruction.	Condition (Given) :	>	Concept of animal
2.	Collect required tools.	Workshop, necessary		items as decorative
3.	Obtain working drawing.	tools, equipment,		articles
4.	Arrange work-place.	instruments, work	>	Drawing and catalog
5.	Select required work piece.	piece, materials and		of lizard, chameleon,
6.	Collect required main & auxiliary	catalogues or		snake, goro, and
	materials.	drawing or model of		crocodile.
7.	Trim bamboo root in required cut	animal items		Primary processing
	piece of items to be made such as			method
	lizard, chameleon, snake, goro, and			Component parts
	crocodile.	Task (What)		Procedure
8.	Proceed to prepared work pieces	Make animal items		Safety precautions
	into lizard/ chameleon/ snake/goro/	(lizard/chameleon		
	crocodile shape and keep continue	/snake/goro/crocodile)		
	until completion.			
9.	Make/insert parts of lizard over			
	prepared such shape of work piece.			
10.	Make/insert parts of chameleon	Standard (How well):		
	over prepared such shape of work	Primary processing		
	piece.	work done.		
11.	Make/insert parts of snake over	Animal items such as		
	prepared such shape of work piece.	lizard, chameleon,		
12.	Make/insert parts of goro over	snake, goro, and		
	prepared such shape of work piece.	crocodile made as per		
13.		drawing and design.		
	prepared such shape of work piece.			
14.	Carve decorative			
	design/embroidery over the			
	prepared lizard/ chameleon/			
	snake/goro/ crocodile as per design			
	and drawing.			
15.	Check the measurement of the			
	products.			
16.	Clean and remove dust and			
	particles object.			
17.	\mathcal{E}			
	materials.			

Tools/equipments:

Measuring tape, Knives, Scissor, Cotton cloth, Scratching brush, Handsaw, Working board, Vice. Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler etc

Safety:

Time: 38 hrs

Theory: 2 hr

TASK NO. 10 Make bird items (crow/ peacock/ parrot/lophophorus)

lophophorus).		ophorus).	Practical: 36 hrs		
		Performance steps	Terminal Performance	Related Technical	
		-	Objectives	Knowledge	
	1.	Receive instruction.	Condition (Given):	Concept of office items	
	2.	Collect required tools.	Workshop, necessary	as decorative articles	
	3.	Obtain working drawing.	tools, equipment,	Drawing and catalog of	
	4.	Arrange work-place.	instruments, work piece,	crow, peacock parrot	
	5.	Select required work piece.	materials and catalogues	and lophophorus.	
	6.	Collect required main &	or drawing or model of	Primary processing	
		auxiliary materials.	bird items	method	
	7.	Trim bamboo root in required		Component parts	
		cut piece of items to be made	Task (What):	Procedure	
		such as crow, peacock parrot	Make bird items (crow/	Safety precautions	
		and lophophorus.	peacock/ parrot/		
	8.	Proceed to prepared work	lophophorus.		
		pieces into items crow/			
		peacock/ parrot/ lophophorus	Standard (How well):		
		shape and keep continue until	Primary processing work		
		completion.	done.		
	9.	Make/insert parts of crow over	Bird items such as crow,		
		prepared such shape of work	peacock parrot and		
	10	piece.	lophophorus made as per		
	10.	Make/insert parts of peacock	drawing and design.		
		over prepared such shape of			
	11	work piece.			
	11.	Make/insert parts of parrot over prepared such shape of			
		work piece.			
	12.	Make/insert parts of			
	12.	lophophorus over prepared			
		such shape of work piece.			
	13.	1 1			
	10.	design/embroidery over the			
		prepared crow/ peacock/			
		parrot/ lophophorus as per			
		design and drawing.			
	14.	Check the measurement of the			
		products.			
	15.	1			
		particles object.			
	16.	Restore all tools & remaining			
		materials.			

Tools/equipments:

Measuring tape, Knives, Scissor, Cotton cloth, Scratching brush, Handsaw, Working board, Vice, Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers Chisel, Clips, Oil stone, Try-square, Metal ruler etc

Safety:

Time: 38 hrs

Theory: 2 hr

TASK NO. 11 Make statues (human head/human half body/human full body).

body/human full body).				actical: 36 hrs
Doa	•	Toursing Dougous area	rr	
	Performance steps	Terminal Performance		Related Technical
1	Receive instruction.	Objectives Civer)		Knowledge Concert of statues items
1.		Condition (Given):		Concept of statues items
2.	Collect required tools.	Workshop, necessary	_	as decorative articles
3.	Obtain working drawing.	tools, equipment,		\mathcal{C}
4.	Arrange work-place.	instruments, work piece,		human head, human half
5.	Select required work piece.	materials and catalogues		body and human half
6.	Collect required main &	or drawing or model of	_	body
7	auxiliary materials.	statues		Primary processing
7.	Trim bamboo root in required		_	method
	cut piece of items to be made	Task (What):	^	Component parts
	such as human head, human	Malas status a (lassus au	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Procedure
0	half body and human full body	Make statues (human head/human half		Safety precautions
8.	Proceed to prepared work			
	pieces into the parts of human	body/human full body).		
	head/ human half body/ human	Standard (Harry well)		
	full body shape and keep	Standard (How well):		
0	continue until completion.	Primary processing work done.		
9.	Make/insert parts of head over prepared such shape of work	Statues items such as		
	1 1			
10.	piece. Make/insert parts of human	human head, human half body and human half body		
10.	half body over prepared such	made as per drawing and		
	shape of work piece.	design.		
11.	Make/insert parts of human	design.		
11.	full body over prepared such			
	shape of work piece.			
12.	Carve decorative			
12.	design/embroidery over the			
	prepared human head/human			
	half body/human full body as			
	per design and drawing.			
13.	Check the measurement of the			
	products.			
14.	Clean and remove dust and			
	particles object.			
15.	Restore all tools & remaining			
	materials.			

Tools/equipments:

Measuring tape, Knives, Scissor, Cotton cloth, Scratching brush, Handsaw, Working board, Vice, Khukuri, C-clamp. Leather pad, Glove, Working table, Screwdriver, Hammer, Mallet, Pliers, Chisel, Clips, Oil stone, Try-square, Metal ruler etc

Safety:

TASK NO. 12 Prepare surface for polishing.

Performance steps

Collect tools & materials.

Check outer surface and

measurement of the product.

Clean surface of the product.

Apply sand paper to make surface smooth and even.

Clean and remove dust and

10. Restore all tools & remaining

Apply putty to fill the hole and

Receive instruction.

Obtain product.

Prepare putty.

particles object.

materials.

gaps.

1.

2.

3.

4.

5.

6. 7.

8.

9.

polishing.	Theory: 2 hr
	Practical: 9 hrs
Terminal Performance	Related Technical
Objectives	Knowledge
Condition (Given) :	Concept of surface
Workshop, products,	preparation
necessary tools and	Requirements of surface
materials	Materials for surface preparation
	> Types of ply paper and
Task (What):	sand paper
Prepare surface for	Function of ply paper,
polishing.	sand paper and putty
	> Putty preparation
Standard (How well):	technique
All the dust and particles	> Surface preparation
removed.	technique
Surface well prepared for polishing.	> Safety precautions

Time: 11 hrs

Tools/equipments:

Knife, Chisels, Scissor, Glue, Spirit, Shellac, Brush, Sandpaper, Cotton cloth, Bamboo dust, & cleaning cloth

Safety:

TASK NO. 13 Prepare spirit shellac solution.

Time: 4 hrs
Theory: 1 hr
Practical: 3 hrs

Performance steps		Terminal Performance	Related Technical
	•	Objectives	Knowledge
1. 2. 3.	Receive instruction. Collect tools & necessary amount of materials. Determine the amount to be prepared.	Condition (Given): Workshop, necessary tools and materials	 Concept of spirit shellac solution Important of spirit shellac solution Ingredients required for
4.	Measure/weigh the ingredients to the required amount (i. e. 1 litre spirit, 250 gram shellac, 10 gram red powder and 10 gram blue brown powder)	Task (What): Prepare spirit shellac solution.	 spirit shellac solution Preparation technique Preparation technique Safety precautions
5.	Batch the ingredients of above amount of ratio.	Standard (How well): All the steps followed in	
6.	Mix the ingredients and	sequence.	
7.	Stir mixer until it becomes consistency slurry.	Consistency and colour of solution well produced.	
8.	Test the consistency of solution.		
9.	Ensure the solution ready for use.		
10.	Restore all tools & remaining materials.		

Tools/equipments: Weighing machine, liquid measuring instrument, small bucket, stirrer etc. **Safety:**

Weigh and measure ingredients correctly.

TASK NO. 14 Apply spirit shellac (Primer).

Time: 7 hrs Theory: 1 hr Practical: 6 hrs

	Performance steps	Terminal Performance		Related Technical
	1	Objectives		Knowledge
1.	Receive instruction.	Condition (Given):	>	Requirement of surface
2.	Collect tools instruments.	Workshop, products,		of product
3.	Obtain prepared spirit shellac	necessary tools, materials	>	Application procedure
	solution.	and spirit shellac	>	Safety precaution
4.	Obtain the products.	1		• 1
5.	Clean and remove dust and			
	from products.	Task (What):		
6.	Check the prepared surface of	Apply spirit shellac		
	the products.	solution.		
7.	Start to apply spirit shellac			
	from the top part of the			
	products and complete the			
	whole surface.	Standard (How well):		
8.	Let the products in sun light	All the steps followed in		
	after painting for at least two	sequence.		
	days.	Spirit shellac solution well		
9.	Apply next coat as per	applied.		
	requirement and precede step	The texture and colour of		
	no. 8.	paint in the product		
10.	Ensure the of the surface of the	produced red brown		
	products ready for final	colour.		
	paint/polishing/varnishing.			
11.	Restore all tools & remaining			
	materials.			

Tools/equipments:

Sandpaper, Small chisel, Spirit Shellac, Brush, Cotton cloth, & Cleaning cloth Safety:

Handle product safely

TASK NO. 15 Apply touch wood polish / varnish (final paint).

Time: 7 hrs
Theory: 1 hr
Practical: 6 hrs

paint).				
Performance steps		Terminal Performance		Related Technical
		Objectives		Knowledge
1.	Receive instruction.	Condition (Given):	\wedge	Requirement of surface
2.	Collect tools instruments.	Workshop, products,		of product
3.	Obtain touch wood	necessary tools, materials	>	Application procedure
	polish/varnish	and touch wood polish or	>	Safety precaution
4.	Obtain the products.	varnish		
5.	Clean the surface of products.			
6.	Start to apply touch wood	Task (What):		
	polish/varnish from the top	Apply touch wood polish /		
	part of the products and	varnish (final).		
	complete the whole surface.			
7.	Let the products in sun light	Standard (How well):		
	after painting for at least two			
	days.	All the steps followed in		
8.	Apply next coat as per	sequence.		
	requirements and proceeds step	Touch wood polish or		
	no 7.	varnish well applied.		
9.	Clean and remove dust and	The texture and colour of		
	particles object.	touch wood paint in the		
10.	Restore all tools & remaining	product produced red		
	materials.	brown colour.		

Tools/equipments:

Sandpaper, Small chisel, Touch wood polish or varnish, Brush, Cotton cloth, & cleaning cloth **Safety:**

Handle product safely

Module Code: M3

Module Title: Entrepreneurship Development

Description

This module is designed to equip trainees with the knowledge and skills on Entrepreneurship Development as a compulsory module require to be performed by this level. This module provides skills and knowledge on entrepreneurial skills and Sales and marketing as sub-modules.

Aim

This module aims to equip trainees with knowledge and skills of entrepreneurship development skills to bamboo artisans to be an entrepreneur.

Objectives

After completion of this core module the trainees will be able to:

1. Acquire entrepreneurial skills to be an entrepreneur

2. Promote sales and marketing skills

Prerequisite: Specialized modules completed.

Duration: 60 hours

Module Structure (M 3)

S.N.	Code	Sub-modules	Nature	Total hours	Full marks
1	SM 3.1	Entrepreneurial Skills	T+P	30	50
2	SM 3.2	Sales and Marketing Skills	T+P	30	
		Total		60	50

Module Code: M3

Sub Module Code: SM3.1

Sub module Title: Entrepreneurial Skills

Description

This course is designed to equip the trainees with knowledge and skills on Entrepreneurial Skills in order to be an entrepreneur. The course deals with various entrepreneurial competencies, project identification, enterprise management, marketing skills, promotional activities, business scheme preparation and communication skills needed for the occupation.

Duration: 30 hours

Competencies

- 1. Develop entrepreneurial competencies.
- 2. Select / identify a project.
- 3. Prepare a business scheme.
- 4. Develop marketing skill.
- 5. Conduct promotional activities.
- 6. Apply communication skills.
- 7. Manage an enterprise.

Task No: 1 Develop entrepreneurial competencies.

Time: 2 hrs
Theory: 2 hrs
Practical: hrs

Performance steps	Terminal Performance	Related Technical
1 errormance steps	Objectives	Knowledge
1. Observe the surrounding	Condition(Given):	➤ Introduction to
environment and entrepreneur's	Classroom and reading	Entrepreneurship
own capabilities.	materials	> Traits of an entrepreneur
2. Develop entrepreneur's own		➤ Concept of
capabilities.		employment
3. Take performance steps for		Concept of business
achievement of		Entrepreneurial
- Economic objective.		competencies
 Social objective. 		Managerial skill
- Human objective.		
4. Prepare business plans based on		
ones own findings.	Task (What):	
5. Develop new profitable	Develop entrepreneurial	
business opportunities by	competencies.	
combining resources in a new		
way.		
6. Produce marketable products.		
7. Create markets.		
8. Innovate and develop improved		
technologies.		
9. Inspire others.	Standard (How well):	
10. Supply quality goods.	All the steps followed in	
11. Reduce cost for reducing price	sequence.	
of product.	Entrepreneurial	
12. Provide employment.	competencies well	
13. Utilize the scarce resource	developed	
properly.		
14. Avoid social nuisances.		
15. Manage financial problem.		
16. Develop management skill for		
all business activities		
- Production, inventory,		
purchasing, marketing,		
research and development,		
financial and personnel.		
17. Satisfy employees / consumers		
/ partners.		
18. Develop dynamism & risk		
taking ability according to the		
situation.		
19. Make perfect decision.		
20. Develop confidence.		

Tools/equipment:

Task No: 2 Select / identify a project.

Time: 5 hrs Theory: 2 hrs Practical: 3 hrs

		T	Hactical, Jills
	Performance steps	Terminal Performance	Related Technical
	1 ci ioi mance steps	Objectives	Knowledge
1.	Make list of projects.	Condition(Given):	Concept of business
2.	Classify the projects in group	Site and reading materials	Introduction to SWOT
	according to		(Strength, weakness,
	- Personal interest / ability.		opportunity and
	- Possibility of earning profit.		threat)
	- Less risk.		Tips for opportunity
	- Knowledge and skill		selection
	needed.		Reason of business
	- Estimated size and	Task (What):	failure
	available resources.	Select / identify a project.	> Requisites of business
	- Prevailing level of		success
	competition.		Project selection
	- Chance of expansion in		criteria
	future.		
	- Level of competition.		
	- Rising trend of future		
	demand.		
	- Duration.		
	Investigate the projects.		
4.	Determine	Standard (How well):	
	- Form of business.	All the steps followed in	
	- Provision of capital.	sequence.	
	- Location.	A project selected and	
	- Available staffs according	identified meeting the	
	to the project.	requirements.	
	- Office equipment.		
_	- Government policy.		
5.	Prioritize the projects regarding		
	- Strength, weakness,		
	opportunity, threat.		
6.	Select right project according to		
	your vision and mission.		

Tools/equipment:

Task No: 3 Prepare a business scheme.

Time: 5 hrs Theory: 2 hrs Practical: 3 hrs

			Tractical. 3 ms
	Performance steps	Terminal Performance	Related Technical
	refformance steps	Objectives	Knowledge
2. 3.	Identify the project standard regarding - Functional Technical Aesthetic Capital cost Life cycle cost. Specify the objective of the project. Analyze net Working by critical path method - State the master activities of the	Condition(Given): Reading materials and field visit report	 Concept and importance of business plan / scheme Guideline for preparing a business plan Production planning Expenses Financial analysis Profit and loss account
	 project. Evaluate whole activities. Set up the sequence of activities. Allocate the Time / duration for each activity. Study about the cost of activities (labour / material / tools cost). Prepare tabulation (sequence activities with Time). 	Task (What): Prepare a business scheme.	
4.	 Apply project evaluation and review technique. Analyze production Prepare resource and multi project schedule. State required men, machine, and materials for each production activities. 		
5.	 Give specification of resources. Determine Time schedule for each activities. Analyze finance 	Standard (How well): All the steps followed in sequence.	
	 by undiscounted method Calculate simple rate of return on investment. Calculate payback period. by discounted method Calculate net present value. Internal rate of return. Benefit cost ratio. 	Business scheme prepared according to the guidelines.	
6.	 Develop financial plan Indicate funds need by form for the specified period. Indicate timing of inflows and outflows. Indicate sources. Indicate use of funds for project activities. Forecast to determine the specific amounts and timing of expenditure and receipts. 		
	- Follow the profit and loss account.		

Tools/equipment: Safety:

Task No: 4 Develop marketing skills.

Time: 4 hrs
Theory: 2 hrs
Practical: 2 hrs

	Performance steps	Terminal Performance	Related Technical
1		Objectives	Knowledge
1.	Set the objectives to be	Condition(Given):	➤ Introduction to market
	achieved.	Products, market, customer	and marketing
2.	Analyze the market to increase	and reading materials	Concept on demand
	sales volume.		and supply
	Formulate the sales budget.		> Types of market (on the
4.	Evaluate the potential		basis of region)
_	customer's needs and wants.		> Introduction to
5.	Determine marketing plans,		marketing mix
	procedures and policies to serve		> Introduction to product
	the customers demand.		life cycle
6.	11 2		Buyers' behavior and its
7.			characteristics
	different constituent elements		
	of the marketing mix		
	- Product.	Task (What):	
	- Price.	Develop marketing skill.	
	- Place.		
	- Promotion.		
8.	Select effective marketing		
	channel.		
9.	Develop effective and smooth		
	marketing communication.		
10.	Apply market research.	Standard (How well):	
11.	Co-ordinate and control all	All the steps followed in	
	marketing activities.	sequence.	
12.	Evaluate performance of sales	Marketing skills well	
	force periodically.	developed.	
13.	Review all plans and policies	-	
	and change if necessary.		
14.	Motivate the employees		
	properly.		
15	Plan and develop product to		
	match		
	- Demand of the customer.		
	- Product life cycle.		
16	Observe and study buyer's		
	behaviors and their grievances.		
17	Select effective distribution		
	channels.		

Tools/equipment:

Task No: 5 Conduct promotional activities.

Time: 5 hrs Theory: 2 hrs Practical: 3 hrs

	Performance steps	Terminal Performance	Related Technical
-	0.1	Objectives	Knowledge
1.	Select promotion mix as	Condition(Given):	Concept of promotion
	advertising according to	Products, market,	Communication model
	- Promotion objectives.	customers, and reading	Concept of
	- Nature of the product.	materials	advertisement
	- Nature of the target market.		Purpose of advertising
	- Stage of product life cycle.		Advertising media
	- Size of the promotion		Features of advertising
	budget.		
	- Promotion strategy.	Task (What):	
2.	Identify target audience.	Conduct promotional	
3.	Select objective regarding	activities.	
	- Informative.		
	- Persuasive.		
	- Reminding.		
	- Reinforcing.		
4.	Make decision for the budget.		
	Choose the message.		
6.	Liaison with the advertising		
	agency.	Standard (How well):	
7.	Supervise advertising and	All the steps followed in	
	marketing research.	sequence.	
8.	Select the media	Promotional activities	
	- Print media.	conducted.	
	- Visual media.		
	- Audio media.		
	- Audio visual media.		
9.	Keep in touch with		
	representatives of important		
	media.		
10.	Coordinate with the sales and		
	other departments.		
11.	Distribute advertising material.		
	Administer the project.		
	Evaluate impact		

Tools/equipment: Safety:

Task No: 6 Apply communication skills.

Time: 5 hrs Theory: 2 hrs Practical: 3 hrs

	Tractical. 5 mg	
Performance steps	Terminal Performance	Related Technical
	Objectives	Knowledge
1. Determine the receiver to	Condition(Given):	Concept and
whom to communicate.	Enterprises and	importance of
2. Specify the objective of	communication media	communication
communication.		➤ Elements of
3. Select appropriate channel of		communication
4. Communication (downward,		> Types of communication
upward, broadcast horizontal,		(oral and written, formal
grape-vine, and committee).		and informal, upward,
5. Solve the barriers in		downward and
communication.		horizontal)
6. Design the contents according	Task (What):	Barriers to
to the receiver	Apply communication	communication
- Role of receiver.	skills.	Means of
- History leading to		communication
communication.		Listening technique
7. Apply suitable method of		> Communication
communication.		process
8. Apply suitable language.		
9. Listen and understand the		
feelings of receiver.		
10. Clarify the communication.	Standard (How well):	
11. Apply appropriate media.	All the steps followed in	
	sequence.	
	Communication skills well	
	applied.	
	причи.	

Tools/equ	uipment:
Safety:	

Task No: 7 Manage an enterprise.

Time: 4 hrs
Theory: 2 hrs
Practical: 2 hrs

	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
1.	Establish and regulate industry / business by - selection of business /	Condition(Given): Enterprises and reading materials	Establishment and regulation of business / industry
	business form.investigation and research.select location, office equipment.		 Concept of management Role of management Managerial functions
2.	manage capital.study of legal formalities.Follow all management process to		(planning, organizing, co-ordination and controlling)
3.	achieve goal of an enterprise. Apply planning process		Method of planningCo-ordination in
3.	 determine the objectives. formulate policies, procedure, programs, strategies and standard. develop scheduling. 	Task (What): Manage an enterprise.	operating business
4.	 develop budgeting. Apply organizing process division of work. placement of personnel into works. establishing relationships. 		
	 delegation and decentralization of authority. 	Standard (How well):	
5.	 Apply staffing process determine manpower requirements. recruit, select, and train the personnel. promote and transfer the personnel. 	All the steps followed in sequence. Enterprises well managed.	
6.	Co-ordinate the efficient organization within a team by leading. communicating. motivating.		
7.	Apply horizontal, vertical, external internal, diagonal co-ordination. Apply controlling process - establish standard of performance for office work. - measurement of actual performance.		
	 compare actual performance with standard. 		

Tools/equipment:

Module Code: M 3

Sub Module Code: SM3.2

Sub module Title: Sales and Marketing Skills

Description

This sub module is designed to equip the trainees with knowledge and skills on sales and marketing skills of the related occupation. This course deals with market identification, demand determination, market network, product deliberation and monitoring.

Duration: 30 hours

Competencies

- 1. Envelop products
- 2. Determine price
- 3. Identify distributor
- 4. Identify market place
- 5. Organize exhibition
- 6. Advertise products for sales
- 7. Deliver products
- 8. Evaluate products

TASK NO. 1 Envelop products.

Time: 4 hrs Theory: 2 hrs Practical: 2 hrs

	Performance steps	Terminal Performance Objectives	Related Technical Knowledge
1. 2. 3. 4. 5. 6. 7.	Receive instructions. Enlist importance of packing. Enlist packing materials. Collect materials. Envelop products. Restore enveloped products. Keep records.	Condition(Given): Product and enveloping materials Task (What): Envelop product	 Concept of packing Importance of packing. Types of packing materials Enveloping techniques Safety precaution.
		Standard (How well): All the steps followed in sequence. Product well enveloped.	

Tools/equipment: Paper, plastic, glue, staple, scissor, knife, tape **Safety**: Handle products safely

TASK NO. 2 Determine price.

Time: 3 hrs Theory: 1 hr Practical: 2 hrs

	Performance steps	Terminal Performance	Related Technical
		Objectives (Circuit)	Knowledge
1.	Receive instructions.	Condition(Given): Specification, bill of	List of materials
2.	Enlist materials.	quantity, format and	Bill of quantity.
3.	Enlist quantity.	calculator	Cost analysis procedure.
4.	Find rate of materials.		Safety precaution
5.	Find rate of labour charge.		
6.	Calculate indirect cost.		
7.	Add profit.		
8.	Sum up price.	Task (What): Determine price.	
9.	Keep records.	Determine price.	
		Standard (How well):	
		All the steps followed in	
		sequence.	
		Price determined as per rule	

Tools/equipment: Paper, pencil, eraser, calculator

TASK NO. 3 Identify distributor.

Time: 3 hrs Theory: 1 hr Practical: 2 hrs

	Performance steps	Terminal Performance	Related Technical
	i citormance steps	Objectives	Knowledge
1. 2. 3. 4. 5. 6. 7.	Enlist distributor. Find market share. Research competitiveness. Enlist challenges. Make strategy. Identify distributor.	Condition(Given): List of distributors Task (What): Identify distributor.	 Identification of distributor List of distributor Finding market share Concept of competition Concept of Challenges Identification strategy
8.	Keep records.	Standard (How well): All the steps followed in sequence. Distributor identified.	

Tools/equipment: Safety:

TASK NO. 4 Identify market place.

Time: 3 hrs Theory: 1 hr Practical: 2 hrs

		Tractical, 2 ms		
	Performance steps	Terminal Performance Objectives	Related Technical Knowledge	
2. 3.	Receive instructions. Define the market. Enlist the marketing techniques.	Condition(Given): List of market and phone address	Concept of market.Marketing techniquesIdentification of market	
4.	Observe and identify market place.		place	
5.	Keep records.	Task (What): Identify the market place.		
		Standard (How well): All the steps followed in sequence. The market place identified.		

Tools/equipment:

TASK NO. 5 Organize exhibition.

Time: 7 hrs Theory: 1 hr Practical: 6 hrs

	Practical; 0 III's		
Performance steps	Terminal Performance	Related Technical	
	Objectives	Knowledge	
 Receive instruction. Define exhibition. 	Condition(Given): Venue, product, and stall	Definition of exhibitionOrganizing exhibition	
3. Determine the products to de		Displaying product	
displayed.		Exhibition organizing	
4. Collect products.		procedure	
5. Deliver products at exhibition		1	
venue.	Task (What): Organize exhibition.		
6. Specify venue.	Organize exindition.	1	
7. Organize exhibition.			
8. Display product.			
9. Sell products.			
10. Keep records.	Standard (How well): All the steps followed in sequence. Exhibition well organized.		

Tools/equipment: Safety:

TASK NO. 6 Advertise products for sales.

Time: 3 hrs Theory: 1 hr Practical: 2 hrs

		Practical: 2 III's			
Performance steps	Terminal Performance	Related Technical			
	Objectives	Knowledge			
 Receive instructions. Define advertisement. Enlist types of advertisement. Find market segment. 	Condition(Given): Poster, pamphlet, website, and other media	 Definition of advertisement Types of advertisement Market segment 			
5. Enlist appropriate season for		Season of advertisement			
advertisement. 6. Find advertising cost.	Task (What): Advertise products for sales	➤ Advertising cost			
	Standard (How well): All the steps followed in sequence. Products advertised through various media for sale.				

Tools/equipment:

TASK NO. 7 Deliver products.

Time: 4 hrs Theory: 1 hr Practical: 3 hrs

Performance steps	Terminal Performance Related Technical		
r erformance steps			
 Receive instructions. Enlist schedule of product 	Objectives Condition(Given): Product and transportation	Knowledge ➤ Schedule of product delivery	
delivery.3. Enlist transport media.4. Prepare documentation.5. Handle correctly the product.	Task (What): Deliver products.	 Importance of transport Importance of documentation Importance of handling products 	
	Standard (How well): All the steps followed in sequence. Products delivered to the market.		

Tools/equipment: marker, duster,

TASK NO. 8 Evaluate products.

Time: 3 hrs Theory: 1 hr Practical: 2 hrs

		Tractical, 2 ms	
	Performance steps	Terminal Performance	Related Technical
		Objectives	Knowledge
1.	Receive instructions.	Condition(Given):	> Importance of evaluation
2.	Enlist importance of evaluation.	Follow up report, workshop and meeting.	➤ Element of evaluation
3.	Enlist element of evaluation.		Process of evaluation
4.	Enlist process of evaluation.		Preparing checklist
5.	Examine product.		Conducting evaluation
6.	Conduct evaluation of product.	Task (What): Evaluate products.	
		Standard (How well): All the steps followed in sequence. Feedback from customers obtained. Product well evaluated.	

Tools/equipment: Safety:

OJT for Bamboo Artisan

Overview of OJT

On the Work Training is an individual approach designed to train the learner to perform certain task while working in the work. It creates appropriate Working environment for the teaching learning activities. Training is relevant as the learner is being trained in a real work setting. The aim of the On the Work Training (OJT) is to provide the learner the maximum experience & exposure of "The World of Work".

In one occupational set up, it is not possible to expose the trainees for all required competencies that they have to master to perform their future work. Moreover, trainers and institution management should take precaution while planning for the OJT placement. Therefore, it is suggested to plan the OJT placement on rotating modality so that the trainees will have enough opportunity to practice the skills enlisted for OJT exposure.

.

Objectives of OJT

After completion of OJT the trainees will be able to:

- 1. To practice/ apply the skills/ knowledge developed by the trainees through institutional training in the real world of the related occupation
- 2. To practice the skills gained through institutional training that the trainees have not got enough opportunity to practice and apply them due to the institutional constraints and or limitation
- 3. To gain world of work experiences
- 4. To acquire skills and knowledge developed in the related field of occupation
- 5. To make trainees familiar with the future occupation/ work they are going to hold
- 6. To provide trainees with supporting skills and knowledge necessary for the related occupation
- 7. To make trainees familiar with the day to day administrative / management activities applicable in their related occupation.

OJT placement

The related training institute needs to perform the followings for OJT placement of the trainees.

Make list of the employing agencies:

- 1. Make list of the Employing agencies:
 - (a) Bamboo based handicraft centers run by the government / Private agencies
 - (b) Bamboo based handicraft centers run by NGOS / INGOS
 - (c) Bamboo based handicraft projects
 - (d) Others
- 2. Select the employing agencies / related industries:
 - (a) Obtain the curriculum
 - (b) Match the skills specified in the curriculum with the occupational activities being conducted by industries.
 - (c) Select the employing agency for OJT which: -
 - Is well equipped and can provide maximum opportunity to practice /develop / apply the skills and knowledge included in the curriculum
 - Can provide recently developed knowledge / skills in the related occupation
 - Has the possibility to offer work for the trainees having satisfactory work performance after the completion of OJT.

- Can offer facilities to the trainees during OJT.
- 3. Contact employing agency for OJT
- 4. Make agreement with employer agency regarding OJT.
- 5. Orient the employer regarding supervision & evaluation of the trainees on OJT.
- 6. Assign the trainees who have passed institutional training to the selected employer agencies
- 7. Orient the trainees for OJT (Objectives, curriculum, activities in which they have to be involved, recording, supervision & evaluation etc.)
- 8. Send Trainees with official letter for OJT.
- 9. Manage / provide salary (at least to cover the living cost) to the trainees.
- 10. Have initial supervision to help socialize and guide the trainees sent for the JOT.
- 11. Have periodic supervision and evaluation of the trainees at least three Times at an interval of two months during the period of OJT.
- 12. Collect feedback as inputs for the revision of the curriculum for future.
- 13. Keep records.

Orientation to the Trainees for OJT

The trainees who are placed on OJT are to be oriented by the related institute about the followings:

- 1. OJT Activities
- 2. OJT Evaluation
- 3. OJT curriculum

Suggestion for Trainees for OJT

- 1. Receive orientation for OJT provided / delivered by the related Training institute
- 2. Obtain curriculum
- 3. Obtain official letter for Joining OJT
- 4. Contact the assigned organization
- 5. Maintain attendance
- 6. Manage Accommodation
- 7. Obtain Work description
- 8. Visit / observe the activities related
- 9. Study critically the related units of industry
- 10. Obtain curriculum
- 11. Match the tasks specified in the curriculum with the actual tasks / activities being carried in the industry.
- 12. Make lists of tasks:
 - (a) You need to practice for confidence building
 - (b) You need to practice the skills that are not covered in the institutional Training
 - (c) You need to practice the skills that are not included in the curriculum but need to perform in the real world of the occupation for successful OJT performance.
 - (d) Recently developed skills through research applicable to your level of work after OJT.
- 13. Finalize the Task list consulting with:
 - (a) Your supervisor &
 - (b) Instructor
- 14. Practice / perform / develop as many related skills as possible related to your level of work.
- 15. Perform related administrative functions.
- 16. Perform / develop skills on cue the duties and tasks specified in the work description provided by the employer during OJT.
- 17. Get help form the senior (s) / supervisor (s) to perform the tasks \develop skills as maximum as possible.
- 18. Develop daily diary / Log book 130

- 19. Fill the daily diary / Log book
- 20. Get signed by your supervisor regularly
- 21. Seek & follow suggestion from seniors
- 22. Show excellent work performance to influence your senior (s) / supervisor so that they could recommend to the employer to offer you the work after OJT.
- 23. Develop professionalism.

OJT Evaluation

The OJT will be evaluated by:

- a. Related supervisor of organization
- b. Related instructor/supervisor of the training institute
- c. CTEVT (representative or assigned expert if needed)

The marks distribution for the OJT evaluation of the trainees will be as follows:

S.N.	Evaluators	Marks Distribution		
		Full Marks	Percentage	
1.	Related Supervisor of the industries	200	50%	
/ Organization				
2. Related supervisor / instructor of		100	25%	
	the training institute			
3. External expert		100	25%	
	Total	400	100%	

Competencies to be performed during OJT

Trainees are suggested to perform all the critical competencies mentioned above under each module of this **Bamboo Artisan** curricular program

References

औद्योगिक शिक्षा, बेतबाँस कक्षा ९, श्री ५ को सरकार, शिक्षा मन्त्रालय, पाठचक्रम विकास केन्द्र, सानोठिमी, भक्तपुर, २०५६।

औद्योगिक शिक्षा, बेतबाँस कक्षा ৭০, श्री ५ को सरकार, शिक्षा मन्त्रालय, पाठचक्रम विकास केन्द्र, सानोठिमी, भक्तपुर, २०५७।

पूर्व व्यावसायिक शिक्षा कक्षा ७, श्री ५ को सरकार, शिक्षा तथा खेलकुद मन्त्रालय, पाठचक्रम विकास केन्द्र, सानोठिमी, भक्तपुर, २०६२।

बाँस तथा निगालोका वस्तुहरूको नमूना पुस्तिका, संकलन तथा विकास, श्री ५ को सरकार, उद्योग वाणिज्य तथा आपूर्ति मन्त्रालय, घरेल् तथा साना उद्योग विकास समिति, त्रिप्रेश्वर, काठमाडौं, २०६१ ।

Basketry from Nepal, Trade Promotion Centre, Export Service Center, KTM

Textile and Bamboo Crafts of the North Western Region, Aditi Shirali, National Institute of Design, Mumbai, India

Physical Facilities

The theory class rooms at least should have area of 10 square feet per trainee and in the workshop it should be at least of 30 square feet per trainees. All the rooms and laboratory should be well illuminated and ventilated.

•	Workshop (General)	- 1
•	Class room	-1
•	Office room	-1
•	Principle room	-1
•	Faculty room	-1
•	Reception room	-1
•	Library	- 1
•	Store room	-1
•	OHP	-1

Tools and Equipment:

1.	Blow- lamp	23.	Leather pad
2.	C-clamp	24.	Mallet
3.	Chisel	25.	Measuring tape
4.	Chisel -Round chisel	26.	Metal ruler
5.	Circular machine	27.	Oil stone
6.	Claw hammer	28.	Plane chisel
7.	Clips	29.	Pliers
8.	Compressor machine	30.	Rasp
9.	Cotton cloth	31.	Reamer
10.	Drill bit	32.	Scissor
11.	Drill machine with cutter bit	33.	Scratch awl
12.	Drilling machine	34.	Scratching brush
13.	Electric mini power saw	35.	Screwdriver
14.	File- metal	36.	Sharpening stone
15.	File – wooden	37.	Small grinder
16.	Glove	38.	Small nails
17.	Hack saw	39.	Spray machine for painting
18.	Hammer	40.	Steel file
19.	Hand saw	41.	Try- square
20.	Khurpa	42.	Vice
21.	Khukuri	43.	Working board
22.	Knives	44.	Working table

DACUM Panel

Ms Sarita Kharel Hetauda

Mr. Ram Kumar Rai Hetauda

Mr. Rajan Rai Hetauda

Mr. Suresh Thing Hetauda

Mr. Birju Rai Hetauda

Mr. Hem Karna Nagarkoti Hetauda

Mr. Rajesh Rai Hatiya, Makwanpur

Mr. Ram Chandra Rai Hetauda

Ms. Samjhana Rai Hetauda

Ms. Nira Mugrati Hetauda

DACUM Coordinators

Mr. Bishnu Koirala Curriculum Division CTEVT

DACUM Facilitator

Mr. Mister Kant Mainali Curriculum Division, CTEVT

DACUM (Work Analysis) of Junior Bamboo Artisan

March, 2006



Training for Employment Project
Pulchowk, Lalitpur

DUTIES & TASKS for Junior Bamboo Artisan

A Plan wor	ks					_
A1. Plan for place	A2. Plan for production	A3. Plan for budget	A4. Plan for materials	A5. Plan for tools/ equipm ent	A6. Plan for helper	
B Sketch de	ecorative articl	es		<u>, </u>		1
B1. Sketch pen stand	B2. Sketch letter box	B3. Sketch boat/ship	B4. Sketch photo frame	B5. Sketch flower base	B6. Sketch lamp set	B7. Sketch dust bin
B8. Sketch coaster set	B9. Sketch basket	B10.Sketch tips box	B11.Sketch soap case	B12.Sketch file rack	B13.Sketch tooth peg tray	B14. Design tray
B15. Sketch house	B16. Sketch temple			,		
C Handle to	ools/ equipmen	t				
C1. Take measureme nt	C2. Clamp work piece	C3. Saw work piece	C4. Cut work piece into size	C5. Apply bottom square	C6. Chisel hole	C7. Drill hole
C8. Handle blow lamp	C9. Apply scissors	C10.Sharpen cutting tools	'	,		
D Prepare/	Make frames					
D1. Make photo frame	D2. Make triangle tray frame	D3. Make basket frame	D4. Make lamp set frame	D5. Make in beetle leaf shape	D6. Make temple frame	
E Prepare s	stripes (choya)				L	
E1. Prepare thick stripe	E2. Prepare thin stripe	E3. Prepare wide stripe	E4. Prepare narrow stripe	E5. Prepare fou side stripe	E6. Bend st	ripe
F Make join	nts					
F1. Make butt joint	F2. Make flat joint	F3. Make lap joint	F4. Make square joint	F5. Make round joint	F6. Make dove tail joint	F7. Make tennon and mortise
G Make roo	ofs					
G1. Make plain roof	G2. Make round roof	G3. Make slant roof	G4. Make two side slant roof	G5. Make butterfly roof	G6. Make pagoda roof	a
H Make Ba	ses	ı		1	<u> </u>	
H. Make clock base	H. Make flower basket base	H. Make table lamp base	H. Make boat base	H. Make temple base	е	
I Make box	arders	I	1	1		
I1. Make lamp boarder	I2. Make glass fitting boarder	I3. Make letter box boarder	I4. Make boat boarder	I5. Make frame boarder	I6. Make boarde	

J Perform carving patterns

J1	Skin off w/p	J2 Carve in square shape	J3 Carve in flower shape	J4 Carve in half size shape	J5 Carve in snake shape	J6 Carve in irregular shape	J7 Carve in Gajur
J8	Carve in differen t size	oggwetive outi	Jaa				
K		ecorative artic		174 M 1 1 11	K5. Make	W.C. M.I	1/7 M 1
	Make triangula r tray	photo frame	K3. Make square tray	K4. Make letter box (five Angled)	square letter box	K6. Make flower base	K7. Make flower base (table)
	Make flower base (wall)	K9. Make pen stand	K10.Make churi stand	K11.Make tips box	K12.Make dust bin	K13.Make hair clip	K14.Make soap case
	Make hair comb	K16.Make hand fan	K17.Make pipe (Bansuri)	K18.Make drum (Madal)	K19.Make sprayer	K20.Make napkin holder	K21.Make tooth peg
	Make ship	K23.Make gate	K24.Make Pooja basket	K25.Make wall lamp	K26.Make table lamp	K27.Make phone stand	K28.Make cassette rack
	Make wall stand clock	K30.Make towers	K31.Make helicopter	K32.Make house	K33.Make temple		1
L	Finish d	lecorative artic	eles			1	
L1	Apply put tings	L2 Apply sand papers	L3 Clean w/p	L4 Apply chopra	L5 Apply varnish	L6 Season w/p	L7 Store w/p
M	Market	products		1			l
_	Envelo p product	M2. Determine price	M3. Identify distributor	M4. Identify market place	M5. Organiz e exhibiti on	M6. Advertise through electronic media	M7. Supply product
M8.	Evaluat e product						
N	Commu	nicate with ot	her				
N1	Communic ate with Employer	N2 Communi cate with Artisan	N3 Communi cate with Supplier	N4 Communi cate with Visitor	N5 Commu nicate with Client	N6 Communi cate with Colleague s	N7 Commu nicate with Instruct
N8	Communic ate with Supervisor	Phone					. AF
0	Develop	Professionalis	sm				
O1.	Seek Training Places	O2. Attend Training	O3. Read Books / Journals	O4. Browse WWW sites	O5. Watch AV media	O6. Visit fare	O7. Visit Shops / equippe d places
			<u> </u>	I	<u>I</u>	I	<u> </u>

Additional Information for Junior Bamboo Artisan

Entry	Career Paths	Future Concerns	
Requirements Minimum age 16 yrs. Five class pass Physically fit (Eyes and hands in good condition) Duration of training Six months	 Senior Artisan Senior Technician Instructor 	 Highly Competition Bright future 	
al Knowledge	Tools &	Equipment	
		Mallet	
	Chisel Chisel -Round chisel Circular machine Clips Compressor machine Cotton cloth Drill bit Drill machine with cutter bit Drilling machine Electric mini power saw File- metal File – Wooden file Glove Hack saw Hammer Hand saw Khukuri Knives	Measuring tape Metal ruler Oil stone Plane chisel Pliers Rasp Reamer Scissor Scratch awl Scratching brush Screwdriver Sharpening stone Small grinder Small nails Spray machine for painting Steel file Try- square Vice Working board	
	Requirements Minimum age 16 yrs. Five class pass Physically fit (Eyes and hands in good condition) Duration of training	Requirements Minimum age 16 yrs. Five class pass Physically fit (Eyes and hands in good condition) Duration of training Six months Blow- lamp C-clamp Chisel Chisel -Round chisel Circular machine Clips Compressor machine Cotton cloth Drill bit Drill machine with cutter bit Drilling machine Electric mini power saw File- metal File - Wooden file Glove Hack saw Hammer Hand saw Khukuri	

Experts Involved

Content Experts

Amita Shilpakar, Handicraft Design and Development Centre, Lalitpur

Arjun Pradhan, Handicraft Entrepreneur, Lalitpur

Birju Rai, Hetauda

Hem Karna Nagarkoti, Hetauda

Mister Kant Mainali, CTEVT

Nira Mugrati, Hetauda

Rajan Rai, Hetauda

Rajesh Rai, Hatiya, Makwanpur

Ram Chandra Rai, Hetauna

Ram Kumar Rai, Hetauda

Samjhana Rai, Hetauda

Sanu Raja Shilpakar, Handicraft Design and Development Centre, Lalitpur

Sarita Kharel, Hetauda

Suresh Thing, Hetauda

Process Experts

Bishnu Koirala, CTEVT

Devi Prasad Dahal, TfE

Mister Kant Mainali, CTEVT

Dr. Ram Hari Lamichhane, TfE

Sagar Mani Lamsal, CTEVT

Shiva Shankar Ghimire, CTEVT

Srijana Thapa, TfE