

UGANDA BUSINESS AND TECHNICAL EXAMINATIONS BOARD

MODULAR ASSESSMENT GUIDE FOR UGANDA COMMUNITY POLYTECHNIC
CERTIFICATE EXAMINATIONS IN GARMENT DESIGN AND CONSTRUCTION

October 2021

PREAMBLE

With global trends in the training and assessment which require acquisition of demand driven hands-on skills by trainees, modularization of curricula has become a requirement in the Ugandan TVET subsector.

The main objective of modularization of assessment is to realign formal TVET assessment to occupational profiles that are available in the world of work or industry.

This Modular Assessment Guide (MAG) has been derived from the NCDC curriculum of Uganda Community Polytechnic Certificate in Garment Design and Construction (2008) which is currently being taught and assessed for trainees. The occupational profiles were identified after which the related content was put together for realignment of the modules.

This program consists of **six (6) modules** which includes; **Garment Making** with five (5) sub modules, **Fabric Decoration** with four (4) sub modules, **Jewelry making** with six (6) sub-modules, **Fabric Construction** with five (5) sub modules. **English** and **Trade Calculations** are separate additional modules which a trainee should also under take in order to accomplish the whole course.

Trainees who prefer academic progression will be required to do **English language** and **Trade calculations** as additional modules and Such Trainees will undertake all the six modules.

Note: Those who want only skills can choose one of the four major core modules; Garment making, fabric construction, Jewelry making and Fabric decorating, without English and Trade calculations.

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ACRONYMS

FOREWORD

ACKNOWLEDGEMENT

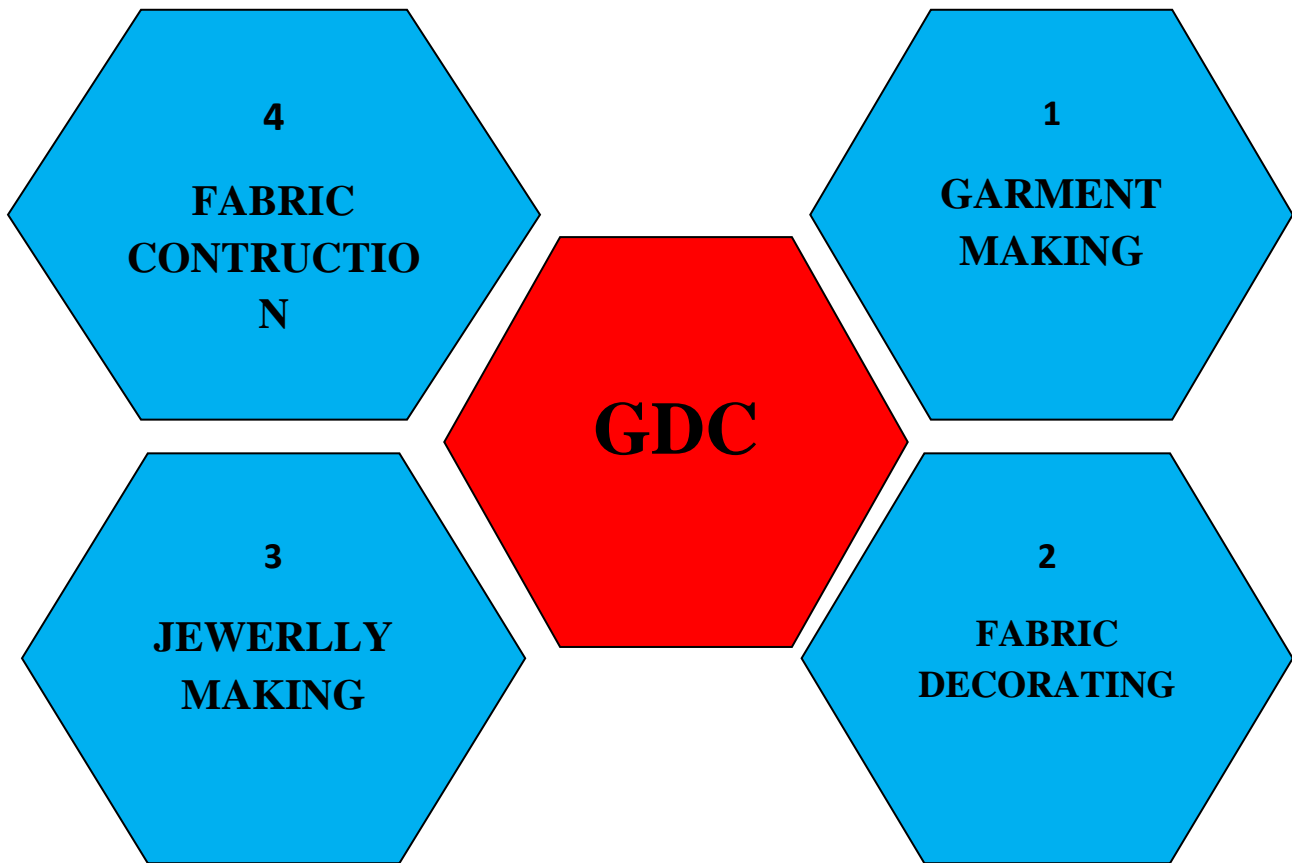
PROGRAMME OVERVIEW

The Uganda Community Polytechnic Certificate (UCPC) in Garment Design and Construction program will follow a modular training and assessment model, emphasizing skills development and competencies at every module that will enable a learner leave at any stage with employable skills.

Under this program, the candidates should be able to draft, cut and construct various garments using different methods, producing new fabrics. Other competences a learner should develop include the ability to start and manage individual sewing workshops and make profits.

The assessment syllabus has been prepared keeping in view, the learning outcome in each module. Trainees are allowed to proceed with their own learning pace (self-pacing) and will be assessed for every module completed. While the program structure has been divided into four modules as illustrated below, two modules; English language and trade calculations will be compulsory for trainees who wish to progress for all the modules.

SUMMARY OF MODULES AND SUB-MODULES IN GARMENT DESIGN AND
CONSTRUCTION



IDENTIFIED MODULES AND THEIR EXPECTED OUTCOMES

S/NO	MODULES	EXPECTED OUTCOMES	AWARD
1	GARMENT MAKING	<ul style="list-style-type: none"> Construct new garment designs Repair garments and making alterations. 	<ul style="list-style-type: none"> Competence certificate in Garment making
2	FABRIC CONSTRUCTION	<ul style="list-style-type: none"> Produce woven/knitted fabrics 	<ul style="list-style-type: none"> Competence certificate in Fabric Construction
3	FABRIC DECORATING	<ul style="list-style-type: none"> Produce designed fabric surfaces with patterns. 	<ul style="list-style-type: none"> Competence certificate in Fabric Decorating.
4	JEWELRY MAKING	<ul style="list-style-type: none"> Making jewelry ornamental pieces. 	<ul style="list-style-type: none"> Competence certificate in Jewelry Making

INTRODUCTION TO GARMENT DESIGN AND CONSTRUCTION

LEARNING OUTCOMES: By the end of the module, the trainee should be able to perform the following;

Skills:

- Use and maintain tools and equipment
- Treat fibres
- Garment construction processes
- Yarn construction
- Safety and care
- Apply elements and principles of design

UNITS	COMPETENCES	CONTENT	DURATION (HRS)
Tools and Equipment	<ul style="list-style-type: none"> Selects the various tools and equipment for fabric design and interior decoration. Maintains and stores the various tools. 	<ul style="list-style-type: none"> Identify various tools and equipment used in fabric and interior designing. Choice, use and care for the various tools and equipment 	16
Treat Fibres	<ul style="list-style-type: none"> Treats fibres Selects types of fibres 	<ul style="list-style-type: none"> Classification of fibres:- natural and man-made 	10

	<ul style="list-style-type: none"> • Describes the properties and characteristics of different fibres. • Prepare fibres for dyeing. • Care of different fibres. 	<ul style="list-style-type: none"> • General properties of fibres:- natural and man]-made • Ability to take dye • Effect of temperature and chemicals • Wash ability • Shrinkage • Draping qualities • Texture • Care for different fibres • Maintenance • Differences between simple and complex yarns 	
Garment construction processes	<ul style="list-style-type: none"> • Selects different stitches • Selects different seams • Selects different methods of controlling fullness • Describe various methods of working fullness. 	<ul style="list-style-type: none"> • Stitches • Temporary • Joining • Neatening • Decorative • Seams • Plain • French • Overlaid • Machine fell seam • Controlling fullness • Dart • Pleats • Gathers • Smoking • Opening • Continuous • Faced • Bound 	30
Yarn construction	<ul style="list-style-type: none"> • prepare different yarns • Selects different methods of constructing yarn • Dyes the required yarns 	<ul style="list-style-type: none"> • Types of yarns • Making or production of yarns 	30
Safety and care	<ul style="list-style-type: none"> • Maintaining and caring for studio equipment 	<ul style="list-style-type: none"> • Care for different tools and equipment. • 	10
Elements and principles of design	<ul style="list-style-type: none"> • Chooses the various elements and principles in executing of art works. • Applies appropriately the elements of design. 	<ul style="list-style-type: none"> • Elements • Lines • Shape • Colour 	15

		<ul style="list-style-type: none"> • Space • Texture <p>Principles</p> <ul style="list-style-type: none"> • Balance • Rhythm / movement • Proportion • Emphasis / dominance • Unit. 	
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ASSESSMENT STRATEGIES OF THE OF THE MODULES

This module shall be assessed as follows;

Continuous assessment (40%)

- ❖ Assignments/home work (05%)
- ❖ Practical/project/field visits (25%)
- ❖ Class tests/class work (10%)

This will be done through the tripartite system of assessment.

Practical Exam (60%)

This will consist of one compulsory practical question which will be carrying 60 marks.

Assessment tools

- Scouring guides
- Marking guides
- Checklists for activities
- Oral questions and critiques
- Written questions

1.1 MODULE NAME: GARMENT MAKING

Module description:

In this module, trainees will learn to design, draft, cut and make new garments for children, women, men and repair various clothing as may be required.

Learning Outcome: By the end of this module, the trainee should be able to draft, cut and make new garments, renovate garments by sewing machines or by hands.

SUB-MODULES:

- Children garments
- Men garment

- women garments
- Traditional garments
- Repairing

Detailed learning content and competencies

S/no	Sub-modules	Competencies	Duties and tasks	Content	Duration
1	Children garments	<ul style="list-style-type: none"> • Sketching designs • Take measurements • Produce drawings • Prepare patterns • Grade patterns • Cut garment parts • Construct garments 	<ul style="list-style-type: none"> • Identify designs for children • Choose the right fabrics • Choose the right fasteners • Take measurements • Interpret the standard measurements • Brand and Package finished products 	<ul style="list-style-type: none"> • Drafting and constructing. ✓ Skirts ✓ Pair shorts ✓ Elastic Pyjamas ✓ Dresses • shirts 	60

2	Women garments	<ul style="list-style-type: none"> • Sketching designs • Take measurements • Produce drawings • Prepare patterns • Grade patterns • Cut garment parts • Construct garments 	<ul style="list-style-type: none"> • Observe figure types • Interpret the standard measurements • Identify designs for women • Choose the right fabrics and trims 	<ul style="list-style-type: none"> • Drafting and construction of : • aprons • blouses • skirts • Dresses 	60
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			<ul style="list-style-type: none"> • Apply appropriate stitches, seams and finishes • Brand and Package finished products 		
3	Men garments	<ul style="list-style-type: none"> • Sketching designs. • Take measurements • Produce drawings • Prepare patterns • Grade patterns • Cut garment parts • Construct garments 	<ul style="list-style-type: none"> • Observe figure types • Interpret the standard measurements • Identify designs for women • Choose the right fabrics • Apply appropriate stitches, seams and finishes • Choose the right trims • Package finished products 	<ul style="list-style-type: none"> • Drafting and construction of: • men's shirts • Kaunda suits • Neck ties • Jackets 	60
4	Traditional garments	<ul style="list-style-type: none"> • Take measurements • Produce drawings for the yokes • Cut garment parts • Joining garment pieces. 	<ul style="list-style-type: none"> • Skills in identifying fabrics • Provide good client service. • Record and keep measurements. 	<ul style="list-style-type: none"> • Construction of the gomesi 	30
5	Repairing / renovating	<ul style="list-style-type: none"> • Measure customers • Record measurements • Use of right tools 	<ul style="list-style-type: none"> • Identify the right tools • Take and record measurements 	<ul style="list-style-type: none"> • Mending • Preventative mending • Adjustments 	30

		<ul style="list-style-type: none"> • Guide customers about the right / trending sizes. 	<ul style="list-style-type: none"> • Cut and stitch garment parts • Ensure correct hang and fit of the garment 	<ul style="list-style-type: none"> • Alterations/rec onstruction 	
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ASSESSMENT STRATEGIES OF THE MODULES

This module shall be assessed as follows;

Continuous assessment (40%)

- ❖ Assignments/home work (05%)
- ❖ Practical/project/field visits (25%)
- ❖ Class tests/class work (10%)

This will be done through the tripartite system of assessment.

Practical Exam (60%)

This will consist of one compulsory practical question which will be carrying 60 marks.

Assessment tools

- Scouring guides
- Marking guides
- Checklists for activities
- Oral questions and critiques
- Written questions

1.2 MODULE NAME: FABRIC DECORATION

Module description:

In this module, trainees will learn to design and decorate textile fabrics using dyestuff, printing paste, decorative stitches and patchwork

Learning Outcome: By the end of this module, the trainee should be able to add surface beauty to by dyeing, printing and appliqué in a way that is marketable.

Units:

- Tie and dye
- Printing
- Batik
- Patch work

Detailed learning content and competencies

S/no	Sub modules	Competencies	Duties and tasks	Content	Duration
1	Tie and dye	<ul style="list-style-type: none"> • Selects the right dyes. • Applies the dyes correctly. • Mixes the dyes and their chemicals correctly. 	<ul style="list-style-type: none"> • Color selection and composition. • Identifying appropriate dyes. • Choosing methods of dyeing according to fabric texture • Proper Storage of dyestuff 	<ul style="list-style-type: none"> • Types of dyes. • Stages of dyeing. • Methods of dyeing. • Handling dyed products. 	30
2	Printing	<ul style="list-style-type: none"> • Selects printing paste. • Applies paste on to the fabric. • Treats the fabric before printing. 	<ul style="list-style-type: none"> • Color selection and composition • Identifying appropriate paste • Choosing methods 	Types of printing paste; <ul style="list-style-type: none"> • Screen • Stencil. <ul style="list-style-type: none"> • Procedure of printing. • Methods of printing. 	30

		<ul style="list-style-type: none"> • Presses the printed fabrics after printing. 	<p>printing according to fabric texture and purpose</p> <ul style="list-style-type: none"> • Proper Storage of printing paste 	<ul style="list-style-type: none"> • Handling printed products 	
3	Batik	<ul style="list-style-type: none"> • Selects right tools and equipment for batik • Select materials for batik • Treat materials for batik • Prepares the designs appropriate for batik work • Prepares wax for resisting dye. • Apply wax using various techniques. • Prepare colour solutions for dyeing fabric. • chooses dyeing procedures properly • De-wax the dyed fabric • Fix finishes on dyed cloths 	<ul style="list-style-type: none"> • Selection of tools and equipment. • Removing wax form dyed materials. • Determining quantities of materials to be worked on 	<ul style="list-style-type: none"> • Introduction to batik • Tools and equipment for batik • Materials used for batik • Design for batik • Selection and preparation of materials for batik • Selection and preparation of design for batik • Waxing methods apply wax using different methods i.e. with a brush, using tinting, using, using a block, using splash methods, stencil methods, using scratch methods • Dyeing the fabric finishing 	10
4	Patch work	<ul style="list-style-type: none"> • Selects equipment and tools for patchwork. • Transfer of template shapes onto fabrics • Trims fabric pieces. 	<ul style="list-style-type: none"> • Use and care for the tool and equipment. • Create different patchwork designs • Creating admirable 	<ul style="list-style-type: none"> • Introduction to patch work • Patchwork equipment • patchwork materials and tools • patchwork design • Types of applique • Care for patchwork fabrics 	16

		<ul style="list-style-type: none"> • Presses patch quilting articles. • Joins the fabric pieces (strips, triangles, squares) 	patchwork designs	<ul style="list-style-type: none"> • General rules for working patchwork. 	
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ASSESSMENT STRATEGIES OF THE MODULES

This module shall be assessed as follows;

Continuous assessment (40%)

- ❖ Assignments/home work (05%)
- ❖ Practical/project/field visits (25%)
- ❖ Class tests/class work (10%)

This will be done through the tripartite system of assessment.

Practical Exam (60%)

This will consist of one compulsory practical question which will be carrying 60 marks.

Assessment tools

- Scouring guides
- Marking guides
- Checklists for activities
- Oral questions and critiques
- Written questions

MODULE 3: JEWELRY MAKING

DURATION OF THE MODULE: (10 weeks)

LEARNING OUTCOME: By the end of this module, the trainee should be able to make various ornaments using the following skills:

- Beading
- Wire wrapping /stringing
- Restoring broken pieces
- Engraving
- Shaping and mounting

Branding, packing and pricing.

Detailed learning content and competencies

S/no	Tasks	Competencies	Duties and tasks	Content	Duration
1	Beading	<ul style="list-style-type: none"> • Select the right tools and equipment. • Casting the resin. • Folding of papers • Take accurate measurements. • Shapes materials. Making ornaments like; <ul style="list-style-type: none"> ❖ Necklaces ❖ Bungles ❖ Bracelets ❖ Ear rings ❖ Nose rings ❖ Finger rings 	<ul style="list-style-type: none"> • Designing new shapes of beads • Helping customers to make the right choices • Researching and evaluating the quality of materials • Valuing pieces and materials • Restoring old or broken pieces • Making new art pieces • Cleaning and polishing jewelry • Creativity in mounting beads. • Business skills • Resin casting • Polishing the beads. • Ability to research current trends 	Shapes of beads <ul style="list-style-type: none"> ❖ Oval ❖ Square ❖ Round ❖ Triangle 	40
2	Wire wrapping	<ul style="list-style-type: none"> • Selects appropriate materials, tools and equipment. • Maintains and stores the tools appropriately. • Design wrapping skills; <ul style="list-style-type: none"> ❖ Wrapped wire loops. ❖ Herringbone wrap. • Wraps finished ornaments. 	<ul style="list-style-type: none"> • Selection of tools materials. • Accurate cutting of wires. • Selection of appropriate weaving method 	Wire wrapping tools; <ul style="list-style-type: none"> • Wires • Pliers • Wire cutters Methods of wrapping; <ul style="list-style-type: none"> • Herringbone wrapping. • Over-under basket weave wrapping. • Wire netting 	30

		<ul style="list-style-type: none"> • Create weave designs. • Apply decorating skills in good colors and designs. 			
3	Restoring old and broken ornaments.	<ul style="list-style-type: none"> • Identify damages and their causes • Sort manageable damages • Apply various techniques of repair and recycling • Clean and polish the jewelry. 	<ul style="list-style-type: none"> • Identifying right materials (wood, metals, stones, shells and plastics). • Making new art pieces • Selection of appropriate molds Restoring ear rings • Restoring bracelets • Restoring bangles • Use of permanent solvents 	<ul style="list-style-type: none"> • Damages and their causes; <ul style="list-style-type: none"> ❖ water damage ❖ sun and heat ❖ chemical damage ❖ damage by beauty products ❖ physical damage ❖ damage due to age 	30
4	Engraving	<ul style="list-style-type: none"> • selects appropriate materials, tools and equipment • Draw various designs • Apply various techniques of engraving • Engraves trendy designs artistically. 	<ul style="list-style-type: none"> • Appropriate costing • Identifying better materials • Selecting right tools to be used. • Pricing pieces and materials • Sourcing for better materials 	Appropriate materials <ul style="list-style-type: none"> • Metals • Wood • Papers • Stones • Adhesives(wood and paper glue) • Beads • Plastic wires • Metallic brush • Sand paper • Tools for engraving • Stone setting pliers 	60

				<ul style="list-style-type: none"> • Clamps and fixtures • Mill grain and texturing <p>Types of engraving</p> <ul style="list-style-type: none"> • Etching(lettering, logos) • Inside ring • Laser engraving • Rotary engraving • Techniques of engraving • Hand engraving • Machine 	
5	shaping and mounting	<ul style="list-style-type: none"> • handling of tools • Applies shaping and mounting skills. 	<ul style="list-style-type: none"> • Selection of right tools and equipment. • Artistic ability and knowledge of popular jewelry styles • Hand steadiness and control • Must have an eye for detail. 	<p>methods of shaping and mounting;</p> <ul style="list-style-type: none"> • Bead mounting • Knotting • Wire wrapping <p>Resin casting</p> <ul style="list-style-type: none"> • Wood resins • Paper resins 	90
6	Pricing, branding and packaging.	<ul style="list-style-type: none"> • Costs the products. • Brand the products decoratively • Package products impressively 	<ul style="list-style-type: none"> • Selection of better methods of branding. • Relative pricing of products. • Proper packaging. 	<p>Types of branding;</p> <ul style="list-style-type: none"> • Personal branding • Product <p>Types of packaging</p> <ul style="list-style-type: none"> • Paper board • Plastic boxes • clip board 	12

				<ul style="list-style-type: none"> • poly bags • foil sealed bags 	
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ASSESSMENT STRATEGIES OF THE MODULES

This module shall be assessed as follows;

Continuous assessment (40%)

- ❖ Assignments/home work (05%)
- ❖ Practical/project/field visits (25%)
- ❖ Class tests/class work (10%)

This will be done through the tripartite system of assessment.

Practical Exam (60%)

This will consist of one compulsory practical question which will be carrying 60 marks.

Assessment tools

- Scouring guides
- Marking guides
- Checklists for activities
- Oral questions and critiques
- Written questions

MODULE 4: FABRIC CONSTRUCTION

Duration (13 weeks)

Leaning outcome: By the end of this module, the trainee should be able to make fabrics using the following skills;

- Weaving
- Crocheting
- Knitting
- Macramé

Detailed learning content and competencies

S/no	Task	Competencies	Tasks and duties	Content	Duration
1	weaving	<ul style="list-style-type: none"> • Inserts yarns through guides • selects correct types of yarns • Selects right tools and equipment. • Use hooks in threading loom machines. 	<ul style="list-style-type: none"> • Tie broken yarn ends with fingers. • Recording fabric production defects • Threading yarns through guides using hooks • Maintaining machines (clean machines and keep them lubricated) • Skills of identifying texture, patterns, dyes and yarns • Identifying of color and shape. • Artistic and creative skills 	<ul style="list-style-type: none"> • Types of yarns • Wool • Cotton • Rayon • Silk • Polyester • Appropriate tools • Looms • Tapestry needles • Shuttle • Pair of scissors • Shed sticks • A comb 	30

			<ul style="list-style-type: none"> • Knowledge of related software • Good communication presentation and negotiating skills • Basic sewing skills, to weave in ends, sew seams and attaching buttons • Operating different types of looms. • Create fabric designs/patterns knitted fabrics • Identify source of fibers and fabrics. • Testing fabrics for performance • Produce fabrics using various methods of knitting 		
2	Crocheting	<ul style="list-style-type: none"> • Select appropriate stitches • Select correct size of crochet needle • Produce crocheted articles e.g. chair backs, table cloths. • Follows working procedures for stitches and motifs. 	<ul style="list-style-type: none"> • Identify designs for crocheting • Choose the right yarns for the fabrics • Take measurements • Interpret the standard measurements • Brand and Package finished products • Prescribes rules of working different stitches and motifs. 	<ul style="list-style-type: none"> • Types of crochet stitches, motifs. • Sizes of crochet needles • Articles produced by crochet. • General care for crocheted fabrics 	16

3	knitting	<ul style="list-style-type: none"> • Selects appropriate sizes of needles • Prepares materials for knitting:- threads • Select appropriate stitches • produce knitted articles – scarf, baby sweaters 	<ul style="list-style-type: none"> • Identify designs for knitting • Choose the right yarns for knitting. • Take measurements • Knit fabrics according to standard measurements • Brand and Package finished products 	<ul style="list-style-type: none"> • Introduction to knitting • Terms used in knitting • Sizes of knitting needles and their uses • Types of knitting stitches • Types of articles produced by knitting gauge or tension • General care for knitted fabrics. 	20
4	Macramé	<ul style="list-style-type: none"> • Select materials for making macramé • produce knotted articles:- bags, belts, mats, ropes, flower pot hangings, lamp shades • Interlace better designs to produce macramé articles. • Selects right yarns. 	<ul style="list-style-type: none"> • Identify designs for the macramé • Chooses the right yarns for making macramé • Take measurements • Interprets well all the measurements for the objects • Chooses the right methods to be used when making macramé. • Brand and Package finished products 	<ul style="list-style-type: none"> • Introduction to macramé • Types of knots • Types of articles produced by knotting • General care for macramé • Making knotted article. • General care of macramé articles. 	10

ASSESSMENT STRATEGIES OF THE MODULES

This module shall be assessed as follows;

Continuous assessment (40%)

- ❖ Assignments/home work (05%)
- ❖ Practical/project/field visits (25%)
- ❖ Class tests/class work (10%)

This will be done through the tripartite system of assessment.

Practical Exam (60%)

This will consist of one compulsory practical question which will be carrying 60 marks.

Assessment tools

- Scouring guides
- Marking guides
- Checklists for activities
- Oral questions and critiques
- Written questions

INDUSTRIAL TRAINING

Trainees shall be attached to organizations for a period of six weeks after each module where they shall practice skills performed in the organization. The field attachment report shall be marked out of 40% and the field supervisor's assessment will contribute 30% and the Instructor's assessment will contribute 30%. The Board shall prepare field attachment log books, field supervisor's trainee assessment forms and Trainer assessment forms.

REFERENCES

Bina, abling. (2019). Marker rendering for fashion, accessories, and home fashion

Claire b. shaefer. (2014). Sewing for the apparel

Beverly, kemp.gattrson. (2008). Apparel concept and practical applications

Sara j. kadolph. (2007). Quality assurance for textiles and apparel 2nd edition 2007

Nancy, henke. (2011). Apparel design, textiles and construction

Berkebile, Tracy Stanley. (2018). Making wire and bead jewelry, artful wirework techniques by

Xuella, Arnold. Sara withers. 200 tips for jewelry making

Countner, legenhouse. (2017). Fashion jewelry a beginners guide to jewelry making.

Sharilyn miller (2011). Step by step technique and projects

Billier j. collier, Helen, Epps. Textile testing and analysis

Isabel Sanchez. Practical pattern making

Melita, M. Neal. (1993) needle work for schools.

