STUDY & EVALUATION SCHEME FOR CERTIFICATE PROGRAMME IN SEWING MACHINE OPERATOR

Code	Units	Sch	idy eme l Hrs	Credits	Marks Evaluation Scheme		Total Marks						
					Interna	l Asses	sment		Exteri	nal Ass	essmen	nt	
		Th	Pr		Th	Pr	Total	Th	Hrs	Pr	Hrs	Total	
CSEO-101	Communication Skills	8	-	1	25	-	25	25	1	-	-	25	50
CSEO-101P	Communication Skills Lab.	_	24	1	-	25	25	-	-	50	3	50	75
CSEO-102	Fundamentals of Fabrics & Preparation for Cutting	24	-	1	25	-	25	50	2	-	-	50	75
CSEO-102P	Fundamentals of Fabrics & Preparation for Cutting	-	64	2	-	50	50	-	-	100	4	100	150
	Lab.												
CSEO-103	Sewing Machines – Basics & Overlock with Aids	32	-	2	25	-	25	50	2	-	-	75	75
CSEO-103P	Sewing Machines – Basics & Overlock with Aids	-	96	2	-	50	50	-	-	100	4	100	150
	Lab.												
CSEO-104	Variety of Techniques in Garment Making	32	-	2	25	-	25	50	2	-	-	50	75
CSEO-104P	Variety of Techniques in Garment Making Lab.	-	124	4	-	75	75	-	-	100	4	100	175
CSEO-105	Trims - Application in Garments and Sample Making	16	-	2	25	-	25	50	2	-	-	50	75
CSEO-105P	Trims - Application in Garments and Sample Making	_	92	4	-	75	75	-	_	100	4	100	175
	Lab.												
CSEO-106P	#Student Centre Activity	-	48	2	-	25	25	-	-	-	-	-	25
CSEO-107P	+ 4 – Week Industrial Training at the end of Semester	_	-	4	-	-	-	-	_	100	3	100	100
	TOTAL	112	448	27	150	300	450	225	-	550	-	775	1200

[#] SCA will comprise of co-curricular activities like extension lectures on entrepreneurship, energy conservation, environment, sports, hobby club, such as, photography, etc., seminars, declamation contest, educational field visits, NCC, NSS, cultural activities, etc.

+ Industrial Training

Before completion of the semester, the students will go for training in a relevant industry/ field organisation for a minimum period of 4 weeks and prepare a diary. The student will prepare a report at the end of training. This report will be evaluated by the concerned instructor in the presence of one industry representative from the relevant trade/ field.

Total weeks per semester: 16, Total working days per week: 5, Total hours per day: 7, Total hours in a semester: 16x5x7 = 560One credit is defined as one hour of lecture per week or two hours of practical per week in the programme.

GUIDELINES FOR ASSESSMENT OF STUDENT CENTRED ACTIVITIES (SCA)

The maximum marks for SCA should be 25. The marks may be distributed as follows:-

i) 5 marks for general behaviour and discipline
 (by Principal or HOD in consultation with the instructor(s)/trainers)

ii) 5 marks for attendance as per following

(by the instructors/ trainers of the department)

a) Up to 75%
b) 75% to 80%
c) 80% to 85%
d) Above 85%
Nil
02 marks
03 marks
05 marks

iii) 15 marks maximum for sports/ NCC/ NSS/ Cultural/ Co-curricular activities as per following:

(by In-charge of Sports/ Cultural/ NCC/ NSS/ Co-curricular activities)

15 marks - for National level participation or inter-university competition

10 marks - participation any two of the activities

05 marks - participation at the internal sports of the institute/college/university

Note: There should be no marks for attendance in the internal sessional of different subjects.

SALIENT FEATURES OF THE PROGRAMME

1	Sector	Tailoring	
2	Name of the certificate	Sewing machine operator	
	programme		
3	Entry qualification	Matriculation or equivalent NSQF level as	
		prescribed by MRSPTU, Bathinda.	
4	Duration of programme	Six (6) months	
5	Intake	30	
6	Pattern of programme	Semester pattern	
7	NSQF level	Level III	
8	Ratio of theory & practice	20:80	

JOB ROLE AND JOB OPPORTUNITIES OF A SEWING MACHINE OPERATOR

JOB ROLE

A sewing machine operator is expected to perform following job roles in industry

- Recognise the fabric materials and fabric types
- Understand the grains, pile directions
- Carry out accurate marking and measurements and cut the fabrics accordingly
- Set the sewing machine that will be used
- Methodically stitch the garments taking proper care of the design and measurements
- Use proper stitches and seams
- Add accessories and embellishments properly
- Possess the concept of overall balance in the design of the garment
- Correctly sew/ join the cut components without distortions
- Mend the garment after manufacturing
- Possess basic concept of the quality of the garment.

JOB OPPORTUNITIES

The clothing and garment making is the basic requirement of human civilisation and exists from the beginning of civilisation. Sewing machine is a widely prevalent simple machine which is seen at every village and nooks of towns. Although most of the sewing machines operate in non-organised sector there are some fairly large garment manufacturing units in the country. A sewing machine operator can find employment in any of the micro, small or large tailoring or garment making establishments.

Another feature of this trade is self-employment or entrepreneurship. A properly trained person can set up his own establishment as the requirement of finance and space is not very high. However, since this trade is widely prevalent, the entrepreneur should have adequate technical and communication skill to survive in the competition.

UNIT-1.1 Subject Code: CSEO-101 COMMUNICATION SKILL

LEARNING OUTCOMES:

After undergoing this unit, the students should be able to

- Speak confidently
- Overcome communication barriers
- Write legibly and effectively
- Listen in proper perspective
- Read various genres adopting different reading techniques
- Respond to telephone calls effectively

Practical 24 hrs	Theory 8 hrs
	Basic communication
	 Process of communication
	 Types of communication – formal
	and informal, oral and written,
	verbal and non-verbal
Looking up words in dictionary (meaning	Functional grammar and vocabulary
and pronunciation)	 Parts of speech
	• Tenses
	 Correction of incorrect sentences
 Self and peer introduction 	Listening
 Greetings for different occasions 	 Meaning and process of listening
	 Importance of listening
	 Methods to improve listening skills
	Speaking
	 Importance
	 Methods to improve speaking
	Manners and etiquettes
Newspaper reading	Reading
	Meaning
	• Technique of reading – skimming,
	scanning, intensive and extensive
	reading
Vocabulary enrichment and grammar	Functional vocabulary
exercises	One word substitution
Exercises on sentence framing	Commonly used words which are
accuracy	often misspelt
	• Punctuation
D ! 1 1 C 1 1	Idioms and phrases
Reading aloud articles and essays on	
current and social issues	
Comprehension of short paragraph Write short technical report	
Write short technical report	
Letter writing	
Participate in oral discussion	
Respond to telephonic calls	
effectively	

Mock interview

Means of Assessment

- Assignment and quiz/ class test
- Mid-term and end term written tests
- Laboratory and practical work
- Viva voce

UNIT-1.2 Subject Code: CSEO-102 FUNDAMENTALS OF FABRICS & PREPARATION FOR CUTTING

Learning Outcomes:

After undergoing study of this unit the students will be able to

- Correctly and safely handle different tools
- Identify different types of fabrics and the weaves
- Carry out proper measurements
- Accurately cut the fabrics

Practicals 641	rs Theory	24 hrs
 Familiarisation of the Institute Familiarisation with handling of tools Safety precautions while handle the tools Identification of fabrics & texts 	f Trad usag Mea ng mark tools ure • Fabr	le related tools, their importance, te and their safety:-suring tools, drafting tools, king tools, cutting tools, sewing tools, finishing tools ic fundamentals like brief idea at fibres, types of fabrics,
 Handling of fabrics Collection of different fabric samples with basic weaves Preparation of fabrics for cutting Recognition of fabric grain, selvedge and straightening of g 	selection according selection selection according selection selection according selection according selection selection according selection selection selection selection selection select	ction of needles and threads ording to fabric types ten needle policy ric preparation for cutting: fabric as, selvedge, shrinkage and ghtening of selvedge surements- Units and Measuring niques.

Means of assessment

- Assignment and quiz/ class tests
- Mid-term and end-term written tests
- Viva voce
- Practical work

UNIT-1.3 Subject Code: CSEO-103

FUNDAMENTALS OF FABRICS & PREPARATION FOR CUTTING

Learning outcomes

After undergoing the study of this unit the students will be able to

- Recognise and understand the functions of critical machine parts in a single needle lock stitch machine and overlock machine
- Set up machines with different threads and fabrics
- Operate the machines correctly
- Understand the faults in machine operation
- Carry out basic maintenance work

Carry out basic maintenance work				
Practicals 96 hrs	Theory 32 hrs			
Practice on industrial single needle lock	Basic sewing machine:			
stitch machine:	 Parts and function 			
 Ergonomic principle of seating on 	Machine needle			
lock stitch machine	 Stitch formation 			
 Speed control 	 Sewing machine practice 			
 Practice on paper 	 Care and maintenance 			
 Threading on machine 	 Trouble shooting 			
 Bobbin winding and loading 	 Types of industrial sewing 			
 Practice on machine 	machines			
 Running on straight line, square, 				
zig-zag line, circles, semi-circle				
and spiral				
Practice on overlock machine:	Over lock machine			
 Threading 	 Parts and functions 			
 Running 	Machine practice			
 Minor adjustments 	Care and maintenance			
	 Trouble shooting 			
	Basic garment analysis			
Practice of making seams	Seams			
 Plain seam (straight & curved) 	 Classification 			
with seam finishes	• Uses			
 Self-enclosed seam 	 Properties 			
 Top stitched seam 	 Seam finishes 			
 Corded seam 	Sewing aids:			
 Decorative seam 	Presser foot			
Practice with sewing aids.	• Folders			
	• Guides			

Means of assessment

- Assignment and quiz/ class tests
- Mid-term and end-term written tests
- Viva voce
- Practical work

UNIT-1.4 Subject Code: CSEO-104 VARIETY OF TECHNIQUES IN GARMENT MAKING

Learning Outcomes:

After going through this unit the students will be able to make different components of garment

- Use proper needles and threads
- Efficiently use hand stitches
- Correctly make variations in garment decoration

-	in garment decoration	22 1
Practicals Making samples of:	124 hrs Theory Introducing Fullness	32 hrs
Making samples of.Darts		
DartsPleats		essity, types and aring stitching
• Pleats	_	•
Molzing complex of		essity, types and uses
Making samples of • Tucks	Introducing Fullness	
	• Tucks – Type	
• Gathers and shirrs	Gathering anFlare	d shiffing
• Frills		a trunca (atual alat an d
		s – types (straight and
Dreatice of hand stitch making an	d making Hand stitches	uses
Practice of hand stitch making an of simple samples with hand stitc	U	c cize and two
or simple samples with hand stite	Hand needlesSewing threa	s – size and type
	stitches	oplication of hand
Making samples of	Study of Hems –	
Faced Hem	Types and us	200
Edge stitched Hem	Corner making	5C3
Double stitch hem	• Types and us	ses
Band hem	Types and as	, 65
Ease in hem		
Mitered hem		
Practice of corner making		
Self-turned		
With additional strip		
Making samples of	Study of casing	
Casing & draw string	• Introduction	and uses
• Casing with elastic		
 Casing with heading 		
 Inside applied casing 		
Outside applied casing		
Making samples of edge finishing	Edge finishing	
Biased facing	• Facings	
 Combination shaped facing 		
Outside shaped facing	• Pipings	
Shaped facing		
• Self-facing		
Binding		

• Dining	
• Piping	N. 11'
Making samples of different shaped	Necklines
necklines	 Different shapes of necklines
Making of samples of plackets	Plackets
 Faced plackets 	• Types
 Continuous placket 	 Sample making
 One-piece placket 	
Two-piece placket	
 Two-piece placket with pleat 	
• Zippered placket – Lapped, Fly front,	
Open end, Visible, Invisible.	
Making samples of different pockets	Pockets
• Patch	• Types
• Inseam	 Design variation
• Cut/ slash	
Samples of making collars	Collars
	 Classifications
	Collar terms
Samples of making sleeves with and	Sleeves
without cuff	 Classification
	 Sleeve length variation

Means of assessment

- Assignment and quiz/ class tests
- Mid-term and end-term written tests
- Viva voce
- Practical work

UNIT-1.5 Subject Code: CSEO-105 TRIMS - APPLICATIONS IN GARMENTS AND SAMPLE MAKING

Learning Outcomes:

After undergoing study of this unit the students will be able to

- Recognise the variety in fasteners
- Properly fix the fasteners in the garment
- Prepare draft and pattern for ladies' suits
- Make the complete suit.

Practicals 92 hrs	Theory 16 hrs
Practice of fixing fasteners, such as	Trimmings
buttons, hooks, eyes and press studs.	 Types
Practice of making button holes by hand.	 Applications
Practice of darning and patching.	• Fixing of buttons, hooks, etc.
Stitching of complete ladies' suits after	 Making of button holes
drafting and developing patterns.	Mending
	 Darning
	 Patching
	Drafting and developing patterns for ladies'
	suits.

Means of Assessment

- Assignment and quiz/ class tests
- Mid-term and end-term written tests
- Viva voce
- Practical work

SUBJECT CODE: CSEO-107 INDUSTRIAL TRAINING – I (4 Weeks)

The purpose of industrial training is to:

- Develop understanding regarding the size and scale of operations and nature of industrial/field work in which students are going to play their role after completing the courses of study.
- Develop confidence amongst the students through firsthand experience to enable them to use and apply institute based knowledge and skills to perform field activities.
- Develop special skills and abilities like interpersonal skills, communication skills, attitudes and values.

It is needless to emphasize further the importance of Industrial Training of students during their one-year certificate programme. It is industrial training, which provides an opportunity to students to experience the environment and culture of world of work. It prepares students for their future role as skilled person in the world of work and enables them to integrate theory with practice.

An external assessment of 100 marks have been provided in the study and evaluation scheme of 1st Semester. Evaluation of professional industrial training report through vivavoce/presentation aims at assessing students understanding of materials, industrial process, practices in industry/field organization and their ability to engage in activities related to problem solving in industrial setup as well as understanding of application of knowledge and skills learnt in real life situations.

The instructor along with one industrial representative from the concerned trade will conduct performance assessment of students. The components of evaluation will include the following:

a)	Punctuality and regularity	20%
b)	Industrial training report	50%
c)	Presentation and viva-voce	30%

RESOURCE REQUIREMENTS

LIST OF TOOLS AND EQUIPMENT

Lab Equipment and Tools

Sr. No.	Name of Item	Quantity
1.	Measuring tape 150 cm	30
2.	Seam Ripper	30
3.	Thimble	30
4.	Tailor's card scale triangular	30
5.	Tailor's square - plastic	30
6.	French curve set of three	30
7.	Thread cutter	30
8.	Scale (plastic) 24 inch	30
9.	Scissors – 25cm	30
10.	Pinking shears	5
11.	Leg shaper - plastic	30
12.	Garment Hangers	30
13.	Screw driver set	4
14.	Table sharpener	4
15.	Pressing table	5
16.	Blanket for pressing	5
17.	Sprayer	5
18.	Waste bin	10
19.	Pattern punch	5
20.	Pattern notcher	5
21.	Pattern hanging stand	4
22.	Water tub	1
23.	Stand for hanging dresses	5
24.	Trial room with 3 side mirrors of size 150cm x 60cm each	1
	and arrangement for hanging dresse	
25.	Electric automatic steam press	5
26.	Sewing machine – single needle lock stitch industrial	15
	model	
27.	Over lock machine – three thread	1
28.	Zig – zag multi-purpose machine	1
29.	Double needle machine	1
30.	Button hole machine	1
31.	Button sewing machine	1
32.	Machine attachment	As per
		requirement
33.	Chairs with low back rest or stools for the machines	30 nos.
34.	Drafting Tables	10
35.	Display board covered with glass or acrylic sheet 120 cm x 90 cm	2
36.	Instructor Table	1
37.	Instructor chairs	2
38.	Steel Amirah 195x90x60 cm	2

39.	Pigeon hole Amirah with 15 lockers and separate locking	2
	arrangement for trainees	
40.	Calculator – desk type	1
41.	White board with accessories	1
42.	Dummy lady, men kids	1 each

Class Room Furniture

Sr.	Name of Item	Quantity
No.		
1.	Instructor Table & chair	1 set
2.	Students' chairs with writing pads	30 nos
3	White Board of size 120cm x 90cm	1 no.
4.	LCD Projector with screen	1 set
5.	Lap top for instructor with latest (Vista & above)	1 no.
	configuration pre- loaded with operating system and	
	MS office package	