WEST BENGAL COUNCIL OF HIGHER SECONDARY EDUCATION SYLLABUS FOR CLASSES XI AND XII

SECTOR: APPAREL, MADE-UPS AND HOME FURNISHING JOB ROLE: SPECIALIZED SEWING MACHINE OPERATOR

COURSE OVERVIEW

Sewing machine operator's work in the clothing and textile industry using a single machine but the specialized sewing machine operator should have the knowledge of different types of machines, stitches, seams and specialized techniques used. A specialized sewing machine operator is a textile worker who sews fabric with electronic machines, high speed motorized machines (umbrella), specific specialized machines used for specific stitches.

A Specialized Sewing Machine Operator is responsible for operating the specialized sewing machine to sew different kinds of stitches of fabric/garments in the apparel industry. They must understand the limits of their machines, faults, difficulties as all machines are not created equal. A specialized sewing machine operator should have a good eyesight, eye co-ordination, motor skills, distance vision and colour vision.

COURSE OUTCOMES

On completion of the course, student should be able to:

- Apply effective oral and written communication skills to interact with people and customers.
- Identify the principal components of a computer system.
- Demonstrate the basic skills of using computer.
- Demonstrate self-management skills.
- Demonstrate the ability to provide a self-analysis in context of entrepreneurial skills and abilities.
- Demonstrate the knowledge of the importance of green skills in meeting the challenges of
- sustainable development and environment protection.
- Identify the types of specialized sewing machine.
- Demonstrate different types of thread, needle and their uses in specialized sewing machine.
- Identify types of embroidery machine, high speed motorized machine and their uses.
- Demonstrate chain stitch machine, its importance and operating system.
- Importance of lock stitch machine.
- Explain the button and buttonhole machine with its importance.
- Identify different parts of zigzag sewing machine and its importance.
- Narrate introduction and importance of preparing the specialized sewing machine.
- Demonstrate samples using button, buttonhole and zigzag machine.
- Identify Communicating and resolving the problem in workplace.
- Describe maintenance, cleaning and disposal of waste.
- Identify cleaning procedure and safe practices.
- Describe importance and operating system of lock stitch, feed of arm, blind, bar-tack, and interlock machines.

- Narrate the importance and role of high-speed machines in apparel industry.
- Identify maintenance of health, work area, tools and machines.

COURSE STRUCTURE

JOB ROLE: SPECIALIZED SEWING MACHINE OPERATOR SECTOR: APPAREL, MADE-UPS AND HOME FURNISHING

			Contact Hours					
Class	Semester	Employability Skills	Domain Theory	Domain Practical	Practical Exam/Written Test/ Viva	Project (Practical File/Student Portfolio/ Viva Voce)	Total	
	I	70	30	55	-	-	155	
XI	II	40	30	50	10	15	145	
	III	70	20	40	-	-	130	
XII	IV	40	35	70	10	15	170	

JOB ROLE: SPECIALIZED SEWING MACHINE OPERATOR Class XI [Total Theory Marks: 25] WE SEMESTED & TODICS: (MCO) MARKS: 25 II MARK PER OFFETION

Class XI SEMESTER I TOPICS: (MCQ) MARKS: 25 [1 MARK PER QUESTION]

SL No.	Topic	Tuition Hours	Marks Allotted
	Part A: Employability Skills	70	
1	Unit 1: Communication Skills- III	25	2
2	Unit 2: Self-management Skills – III	25	2
3	Unit 3: Information and Communication Technology Skills – III	20	2
	Part B: Vocational Skills	85	
4	Unit 1: Production Technology	35	7
5	Unit 2: Introduction to Industrial Sewing Machines	25	6
6	Unit 3: Machines for seam finishes	25	6
	Total	155	25

Class XI SEMESTER II TOPICS: [Short Answer Question, Descriptive Question] MARKS: 25

SL No.	Topic & Sub-Topics	Tuition Hours	Short Answer Type Question (8 Marks)	Descriptive Type Question (17 Marks)	Total
	Part A: Employability Skills	40			
1	Unit 1: Entrepreneurial Skills – III	25	1	2	3
2	Unit 2: Green Skills – III	15	1	2	3
	Part B: Vocational Skills	80			
3	Unit 4: Machines for Ornamental stitches	25	2	4	6
4	Unit 5: Machines for Attachments	25	2	4	6
5 *	Unit 6: Personal hygiene, cleaning and maintenance at workplace	30	2	5	7
	Part C: Practical Work	10			
6	Practical Examination	06			
7	Written Test	01			
8	Viva Voce	03			
	Part D: Project Work/ Field Visit	15			
9	Practical File / Student Portfolio	10			
10	Viva Voce	05			
	Total	145	8	17	25

JOB ROLE: SPECIALIZED SEWING MACHINE OPERATOR

Class XII [Total Theory Marks: 25]

Class XII SEMESTER III TOPICS: (MCQ) MARKS: 25 [1 MARK PER QUESTION]

SL No.	Topic	Hours Tuition	Marks Allotted
	Part A: Employability Skills	70	
1	Communication Skills – IV	25	2
2	Self-management Skills – IV	25	2
3	Information and Communication Technology Skills – IV	20	2
	Part B: Vocational Skills	60	
4	Unit 1: Introduction to Garment pre-production processes	30	9
5	Unit 2: Feed-off the arm and bar-tack machines	30	10
	Total	130	25

Class XII SEMESTER IV TOPICS: [Short Answer Question, Descriptive Question] MARKS: 25

SL No.	Topic & Sub-Topics	Tuition Hours	Short Answer Type Question (8 Marks)	Descriptive Type Question (17 Marks)	Total
	Part A: Employability Skills	40			
1	Entrepreneurial Skills – IV	25	1	2	3
2	Green Skills – IV	15	1	2	3
	Part B: Vocational Skills	105			
3	Unit 3: Flat lock machine, blind stitch machine, finishing machines and other equipment	40	2	6	8
4 .	Unit 4: Maintain Organizational Health, Safety and Security at Workplace	30	2	4	6
5	Unit 5: Quality Control in Stitching Process	35	2	3	5
	Part C: Practical Work	10			
6	Practical Examination	06			
7	Written Test	01			
8	Viva Voce	03			
	Part D: Project Work/ Field Visit	15			
9	Practical File / Student Portfolio	10			
10	Viva Voce	05			
	Total	170	8	17	25

DETAIL SYLLABUS CLASS - XI SEMESTER - I

Part A: Employability Skills					
Unit 1: Communication Learning Outcome	Skills – III Theory (10 hrs)	Practical (15 hrs)	Duration (25 hrs)		
1. Demonstrate knowledge of communication	1. Introduction to communication 2. Importance of communication 3. Elements of communication 4. Perspectives in communication 5. Effective communication	1. Role-play on the communication process 2. Group discussion on factors affecting perspectives in communication 3. Classroom discussion on the 7Cs (i.e. Clear, Concise, Concrete, Correct, Coherent, Courteous and Complete) of effective communication 4. Chart making on elements of communication	03		
2. Demonstrate verbal communication	Verbal communication Public Speaking	 Role-play of a phone conversation. Group exercise on delivering speech and practicing public speaking 	02		
3. Demonstrate non-verbal communication	Importance of non-verbal communication Types of non-verbal communication Visual communication	1. Role-play on non-verbal communication 2. Group exercise and discussion on Do's and 3. Don'ts to avoid body language mistakes 3. Group activity on methods of communication	02		
4. Speak using correct pronunciation	 Pronunciation basics Speaking properly Phonetics Types of sounds 	Group activities on practicing pronunciation	01		
5. Apply an assertive communication style	 Important communication styles Assertive communication Advantages of assertive communication Practicing assertive communication 	Group discussion on communication styles Group discussion on observing and sharing communication styles	03		
6. Demonstrate the knowledge of saying no	Steps for saying 'No' Connecting words	1. Group discussion on how to respond2. Group activity on saying 'No'	02		

Page 5 of Source: https://www.psscive.ac.in/publications/curricula

7. Identify and use parts of speech in writing	 Capitalization Punctuation Basic parts of speech Supporting parts of speech 	1. Group activity on identifying parts of speech 2. Writing a paragraph with punctuation marks 3. Group activity on constructing sentences 4. Group activity on identifying parts of speech	03
8. Write correct sentences and paragraphs	 Parts of a sentence Types of object Types of sentences Paragraph 	1. Activity on writing sentences 2. Activity on active and passive voice 3. Assignment on writing different types of sentences	02
9. Communicate with people	Greetings Introducing self and others	 Role-play on formal and informal greetings Role-play on introducing someone Practice and group discussion on how to greet different people? 	02
10. Introduce yourself to others and write about oneself	 Talking about self Filling a form 	 Practicing self- introduction and filling up forms Practicing self- introduction to others 	01
11. Develop questioning skill	Main types of questions Forming closed and openended questions	 Practice exercise on forming questions Group activity on framing questions 	01
12. Communicate information about family to others	Names of relatives Relations	Practice talking about family Role-play on talking about family members in a relations	01
13. Describe habits and routines	1. Concept of habits and routines	Group discussion on habits and routines Group activity on describing routines	01
14. Ask or give directions to others	Asking for directions Using landmarks	 Role-play on asking and giving directions Identifying symbols used for giving directions 	01

Unit 2: Self - Management-III				
Learning Outcome	Theory (10 hrs)	Practical (15 hrs)	Duration (25 hrs)	
1. Identify and analyze own strengths and weaknesses	Understanding self Techniques for identifying strengths and weaknesses Difference between interests and abilities	Activity on writing aims in life Preparing a worksheet on interests and abilities	03	
2. Demonstrate personal grooming skills	Guidelines for dressing and grooming Preparing a personal grooming checklist	Role-play on dressing and grooming standards Self-reflection activity on various aspects of personal grooming	04	
3. Maintain personal hygiene	Importance of personal hygiene Three steps to personal hygiene Essential steps of hand washing	Role-play on personal hygiene Assignment on personal hygiene	03	
4. Demonstrate the knowledge of working in a team and participating in group activities	 Describe the benefits of teamwork Working in a team 	Assignment on working in a team Self-reflection on teamwork	03	
5. Develop networking skills	Benefits of networking skills Steps to build networking skills	Group exercise on networking in action Assignment on networking skills	03	
6. Describe the meaning and importance of self-motivation	Meaning of self- motivation Types of motivation Steps to building self- motivation	Activity on staying motivated Assignment on reasons hindering motivation	03	
7. Set goals	Meaning of goals and purpose of goal-setting Setting SMART goals	Assignment on setting SMART goals Activity on developing long- term and short-term goals using SMART method	03	
8. Apply time management strategies and techniques	Meaning and importance of time management Steps for effective time management	Checklist for making preparation for daily activities Preparing To-do-list	03	

Page 7 of Source: https://www.psscive.ac.in/publications/curricula

Unit 3: Information and	Communication Technology-III		
Learning Outcome	Theory (08 hrs)	Practical (12 hrs)	Duration (20 hrs)
1. Create a document on the word processor	Introduction to ICT Advantages of using a word processor. Work with Libre Office Writer	 1. Group activity on demonstration and practice of the following: Creating a new document Typing text Saving the text Opening and saving file on Microsoft word/Libre 	02
2. Identify icons on the toolbar	Status bar Menu bar Icons on the Menu bar Multiple ways to perform a function	 Office Writer. 1. Group activity on using basic user interface of Libre Office writer 2. Group activity on working with Microsoft Word 	02
3. Save, close, open and print document	 Save a word document Close Open an existing document Print 	1. Group activity on performing the functions for saving, closing and printing documents in Libre Office Writer 2. Group activity on performing the functions for saving, closing and printing documents in Microsoft Word	02
4. Format text in a word document	 Change style and size of text Align text Cut, Copy, Paste Find and replace 	1. Group activity on formatting text in Libre Office Writer 2. Group activity on formatting text in Microsoft Word	02
5. Check spelling and grammar in a word document	Use of spell checker Autocorrect	Group activity on checking spellings and grammar using Libre Office Writer Group activity on checking spellings and grammar using Microsoft Word	02
6. Insert lists, tables, pictures, and shapes in a word document	 Insert bullet list Number list Tables Pictures Shapes 	1. Practical exercise of inserting lists and tables using Libre Office Writer	03

Page 8 of Source: https://www.psscive.ac.in/publications/curricula

7. Insert header, footer and page number in a word document	 Insert header Insert footer Insert page number Page count 	1. Practical exercise of inserting header, footer and page numbers in Libre Office Writer 2. Practical exercise of inserting header, footer and page numbers in Microsoft Word	03
8. Make changes by using the track change option in a word document	 Tracking option Manage option Compare documents 	1. Group activity on performing track changes in LibreOffice Writer 2. Group activity on performing track changes in Microsoft Word	04

Part B: Vocational Skills			
Unit 1: Production Techn	ıology		
Learning Outcome	Theory (10 Hrs)	Practical (25 Hrs)	Duration (35 Hrs)
Explain different garment production systems	Various garment production systems	1. Prepare a comparison chart of production systems	15
2. Identify garment operating procedure	Need of process flow chart in preparation of a garment Sequence of operations in garment production for: Shirt Trouser	1. Prepare process flow chart of a garment	20
Unit 2: Introduction to In	ndustrial Sewing Machines		
Learning Outcome	Theory	Practical	Duration
Dear ining Outcome	(10 Hrs)	(15 Hrs)	(25 Hrs)
1. Identify types of thread, their classification and suitability as per machine and fabric	 Introduction to types of sewing threads Classification of sewing threads Numbering of thread Suitable threads for fabric and machine 	Identify different sewing threads	10
2. Identify needles for specialized machines	 Sewing machine needles and its parts Needle system Types of needles and their uses Selection of appropriate needle for fabric and machine Selection of thread type and 	1. Identify different sewing needles	15

Page 9 of Source: https://www.psscive.ac.in/publications/curricula

needle size for industrial sewing	
machine	

Learning Outcome	Theory (10 Hrs)	Practical (15Hrs)	Duration (25 Hrs.)
Identify lock stitch machine used in apparel industry	 Various specialized sewing machines used in industry Importance of lock stitch machine Parts of single needle lock stitch machine with under bed trimmer Operating steps of lock stitch machine Checking machine before operation 	1. Practice the preparatory process of specialized sewing machine before stitching 2. Practice stitching with lock stitch machine	13
2. Demonstrate the use of overlock machine	 Importance of overlock machine Types of overlock stitches Parts of overlock stitch machine Operating steps of overlock stitch Machine 	Prepare samples using overlock machine	12

CLASS - XI SEMESTER – II

Part A: Employability Skills				
	Unit 4: Entrepreneurial Skills – III			
Learning Outcome	Theory (10hrs)	Practical (15hrs)	Duration (25hrs)	
1. Differentiate between different kinds of businesses	1. Introduction to entrepreneurship 2. Types of business activities	Role-play on different kinds of businesses around us	03	
2. Describe the significance of entrepreneurial values	 Meaning of value Values of an Entrepreneur Case study on qualities of an entrepreneur 	Role-play on qualities of an entrepreneur	03	
3. Demonstrate the attitudinal changes required to become an entrepreneur	Difference between the attitude of entrepreneur and employee	Interviewing employees and entrepreneurs	03	
4. Develop thinking skills like an entrepreneur	 Problems of entrepreneurs Problem-solving Ways to think like an entrepreneur 	Group activity on identifying and solving problems	04	
5. Generate business ideas	 The business cycle Principles of idea creation Generating a business idea Case studies 	Group activity to create business ideas	04	
6. Describe customer needs and the importance of conducting a customer surveý	Understanding customer needs Conducting a customer survey	Group activity to conduct a customer survey	04 -	
7. Create a business plan	 Importance of business planning Preparing a business plan Principles to follow for growing a business Case studies 	Group activity on developing a business plan	04	

Learning Outcome	Theory (07 hrs.)	Practical (08 hrs.)	Duration (15 hrs.)
1. Describe the importance of the main sector of the green economy	 Meaning of ecosystem, food chain and sustainable development Main sectors of the green economy- E- waste management, green 	Group discussion on sectors of green economy Preparing posters on various sectors for promoting green economy	06

Page 11 of Source: https://www.psscive.ac.in/publications/curricula

\$	transportation, renewal energy, green construction, and water management		
2. Describe the main recommendations of policies for the green economy	1. Policies for a green economy	1. Group discussion on initiatives for promoting the green economy 2. Writing an essay or a short note on the important initiatives for promoting green economy.	03
3. Describe the major green sectors/ areas and the role of various stakeholders in the green economy	1. Stakeholders in the green economy	Group discussion on the role of stakeholders in the green economy Making solar bulbs.	03
4. Identify the role of government and private agencies in the green economy	 Role of the government in promoting a green economy Role of private agencies in promoting green economy 	Group discussion on the role of Government and Private Agencies in promoting a green economy. Preparing posters on green sectors.	03

Part B: Vocational Skills			
Unit 4: Machines for Ornal	mental stitches		
Learning Outcome	Theory (10 Hrs)	Practical (15 Hrs)	Duration (25 Hrs)
1. Identify and use embroidery machines	 Types of embroidery machines Types of computerized embroidery machines 	Identify different embroidery machines	10
2. Demonstrate the use of zigzag machines	 Parts of Zigzag sewing machine Operating steps of a zigzag sewing machine 	1. Practice stitching with zigzag sewing machine	15
Unit 5: Machines for Attach	nments		8
Learning Outcome	Theory (10 Hrs)	Practical (15 Hrs)	Duration (25 Hrs)
	1. Belt-loop setter for trousers and jeans		
1. Demonstrate belt & loop attachment and button sewing machine	2. Button attachment machine and its parts3. Importance of button sewing machine4. Operating steps of button sewing machine	Prepare samples using button attachment machine	13

Page 12 of Source: https://www.psscive.ac.in/publications/curricula

:	button hole machine 3. Operating steps of a button hole machine		
Unit 6: Personal hygiene, cle	eaning and maintenance at wor	kplace	
Learning Outcome	Theory (10 Hrs)	Practical (20 Hrs)	Duration (30 Hrs)
1. Understand personal health and hygiene	1. Introduction to health and hygiene 2. Factors that affect the maintenance of good health 3. Importance of good personal hygiene 4. Health and safety precautions for operators if using hand needle	1. Practice health and hygiene	10
2. Demonstrate cleaning and maintenance at workplace	Introduction to cleaning and maintenance Types of maintenance work Benefits of maintenance and clean environment	Practice cleaning and maintenance	10
3. Cleaning and maintenance of specialized machines	1. Cleaning, oiling and maintenance of a specialized sewing machine	Practice cleaning and maintenance of specialized machines	10

DETAIL SYLLABUS CLASS - XII SEMESTER – III

Learning Outcome	Theory (10 hrs)	Practical (15 hrs)	Duration (25 hrs)
1.Demonstrate e active listening skills	1. Active listening -listening skill, stages of active listening 2. Overcoming barriers to active listening	1. Group discussion on factors affecting active listening 2. Preparing posters of steps for active listening 3. Role-play on negative effects of not listening actively	10
2. Identify the parts of speech	1. Parts of speech – using capitals, punctuation, basic parts of speech, Supporting parts of speech	Group practice on identifying parts of speech Group practice on constructing sentences	10
3. Write sentences Unit 2: Self-Managemen	1. Writing skills to the following: Simple sentence Complex sentence Types of object Types of sentences Active and Passive sentences Statement/ Declarative sentence Question/ Interrogative sentence Emotion/ Reaction or Exclamatory sentence Order or Imperative sentence Types of object Sentence Order or Imperative sentence Reaction or Exclamatory sentence Types of object Sentence Types of object Statement	1. Group work on writing sentences and paragraphs 2. Group work on practicing writing sentences in active or passive voice 3. Group work on writing different types of sentences (i.e., declarative, exclamatory, interrogative and imperative)	05
Learning Outcome	Theory	Practical	Duration
	(10 hrs)	(15 hrs)	(25 hrs)
1. Describe the various factors influencing motivation and positive attitude	 Motivation and positive attitude Intrinsic and extrinsic motivation Positive attitude – ways to maintain positive attitude Stress and stress management ways to manage stress 	1. Role-play on avoiding stressful situations 2. Activity on listing negative situations and ways to turn it positive	10

Page 14 of Source: https://www.psscive.ac.in/publications/curricula

2. Describe how to become result oriented	How to become result oriented? Goal setting – examples of result-oriented goals	Group activity on listing aim in life	05
3. Describe the importance of self-awareness and the basic personality traits, types and disorders	 Steps towards self-awareness Personality and basic personality traits Common personality disorders- Suspicious Emotional and impulsive Anxious Steps to overcome personality disorders 	Group discussion on self-awareness	10
	Communication Technology Skill Theory	S-1 V Practical	Duration
Learning Outcome	(06 hrs.)	(14 hrs.)	(20 hrs.)
1. Identify the components of a spreadsheet application	1. Getting started with spreadsheet - types of a spreadsheet, steps to start LibreOffice Calc., components of a worksheet.	1. Group activity on identifying components of spreadsheet in Libre Office Calc.	02
2. Perform basic operations in a spreadsheet	1. Opening workbook and entering data – types of data, steps to enter data, editing and deleting data in a cell 2. Selecting multiple cells 3. Saving the spreadsheet in various formats 4. Closing the spreadsheet 5. Opening the spreadsheet. 6. Printing the spreadsheet.	1. Group activity on working with data on Libre Office Calc.	03
3. Demonstrate the knowledge of working with data and formatting text	1. Using a spreadsheet for addition – adding value directly, adding by using cell address, using a mouse to select values in a formula, using sum function, copying and moving formula 2. Need to format cell and content 3. Changing text style and font size 4. Align text in a cell 5. Highlight text	1. Group activity on formatting a spreadsheet in Libre Office Calc 2. Group activity on performing basic calculations in Libre Office Calc.	02
4. Demonstrate the knowledge of using advanced features in spreadsheet	 Sorting data Filtering data Protecting spreadsheet with password 	1. Group activity on sorting data in Libre Office Calc	03
<u> </u>	- 45 4 5 111	s.//www.psscivo.as.in/publicat	. ,

Page 15 of Source: https://www.psscive.ac.in/publications/curricula

5. Make use of the software used for making slide presentations	 Presentation software available Stapes to start LibreOffice Impress Adding text to a presentation 	Group practice on working with LibreOffice Impress tools	02 .
6. Demonstrate the knowledge to open, close and save slide presentations	1. Open, Close, Save and Print a slide presentation	1. Group activity on saving, closing and opening a presentation in LibreOffice Impress	01
7. Demonstrate the operations related to slides and texts in the presentation	1. Working with slides and text in a presentation- adding slides to a presentation, deleting slides, adding and formatting text, highlighting text, aligning text, changing text colour	Group practice on working with font styles in Libre Office Impress	04
8. Demonstrate the use of advanced features in a presentation	 Advanced features used in a presentation Inserting shapes in the presentation Inserting clipart and images in a presentation Changing slide layout 	Group activity on changing slide layout on Libre Office Impress	03

Part B: Vocational Skills Unit 1: Introduction to Garment pre-production processes			
Learning Outcome	Theory (10 Hrs)	Practical (20 Hrs)	Duration (30 Hrs)
1. Specification sheet	1. Introduction and contents of a specification sheet: fabric type, seams and stitches, colour, accessory details (zippers, pockets, etc.), and ornamentation (embroidery, cutwork, patchwork 2. Importance of specification sheet	1. Search a specification sheet from internet and interpret the details given in it 2. Prepare different types of specification sheet like fabric type, seams and stitches, colour, accessory details (zippers, pockets, etc.), and ornamentation (embroidery, cutwork, patchwork etc. and prepare a sample file	12
2. Explain the pre- production operations in an apparel industry	Meaning and importance of pre- production operations Pre-production planning	1. Make a chart of pre- production operations in the apparel industry and list out their utilities	05
3. New attachments of sewing machine	1. Sewing machine attachments such as gathering foot, 1/4th inch foot, darning foot, binder foot, 3-way cording foot, beading foot, pin tucking foot,	Prepare samples using different attachments	13

Page 16 of Source: https://www.psscive.ac.in/publications/curricula

	ribbon foot, piping foot, ruffle foot.		
Unit 2: Feed-off the arm an	nd bar-tack machines		
Learning Outcome	Theory (10 Hrs)	Practical (20 Hrs)	Duration (30Hrs)
1. Demonstrate operationalization of Feed off the arm machine	 Importance of feed off the arm machine Parts of feed off the arm machine Threading of feed off the arm machine Operating steps of feed off the arm machine 	1. Sewing practice on feed arm machine 2. Collect pictures of garments in which feed of arm machine is used and paste in practical file	15
2. Demonstrate operationalization of bartack machine	1. Importance of bar-tack sewing machine 2. Different parts of bar-tack sewing machine 3. Operating steps of bar-tack sewing machine	Sewing practice on bar-tack machine Thread a bar-tack machine	15

DETAIL SYLLABUS CLASS - XII SEMESTER – IV

Unit 4: Entrepreneurial Sk	tills-IV		
Learning Outcome	Theory (10 hrs.)	Practical (15 hrs)	Duration (25 hrs.)
Describe the concept of entrepreneurship and the types and roles and functions entrepreneur	1. Entrepreneurship and entrepreneur 2. Characteristics of entrepreneurship 3. Entrepreneurship-art and science 4. Qualities of a successful entrepreneur 5. Types of entrepreneurs 6. Roles and functions of an entrepreneur 7. What motivates an entrepreneur 8. Identifying opportunities and risk-taking 9. Startups	 Group discussion on the topic "An entrepreneur is not born but created". Conducting a classroom quiz on various aspects of entrepreneurship. 	10
2. Identify the barriers to entrepreneurship	 Barriers to entrepreneurship Environmental barriers No or faulty business plan Personal barriers 	 Group discussion about "What we fear about entrepreneurship" Activity on taking an interview of an entrepreneur. 	05
3. Identify the attitude that make an entrepreneur successful	1. Entrepreneurial attitude	1. Group activity on identifying entrepreneurial attitude.	05
4. Demonstrate the knowledge of entrepreneurial attitude and competencies	1. Entrepreneurial competencies 2. Decisiveness 3. Initiative 4. Interpersonal skills- positive attitude, stress management 5. Perseverance 6. Organizational skills- time management, goal setting, efficiency, managing quality.	 Playing games, such as "Who am I". Group discussion on business ideas Group practice on "Best out of Waste" Group discussion on the topic of "Let's grow together" Group activity on listing stress and methods to deal with it like Yoga, deep breathing exercises, etc. Group activity on time management 	05
Unit 5: Green Skills-IV			
Learning Outcome	Theory Page 18 of Source: https://	Practical	Duration

	(05 hrs)	(10 hrs)	(15 hrs)
1. Identify the benefits of the green jobs	 Green jobs Benefits of green jobs Green jobs in different sectors: Agriculture Transportation Water conservation Solar and wind energy Eco-tourism Building and construction Solid waste management Appropriate technology 	1. Group discussion on the importance of green job.	08
2. State the importance of green jobs	1. Importance of green jobs in Limiting greenhouse gas emissions Minimizing waste and pollution Protecting and restoring ecosystems Adapting to the effects of climate change	 Preparing posters on green jobs. Group activity on tree plantation. 	07

Learning Outcome	Theory (15 Hrs)	Practical (25 Hrs)	Duration (40 Hrs)
1. Identify stitching process of flat lock machine	1. Introduction of flat lock machine 2. Parts of flat lock machine 3. Threading of flat lock machine 4. Operating steps of flat lock machine	1. Prepare samples using flat lock machine	10
2. Identify operating system of blind stitch sewing machine	 Importance of blind stitch sewing machine Different parts of blind stitch machine Operating steps of blind stitch sewing machine 	1. Sewing practice through blind stitch machine 2. Collect images of blind stitch sewing machine paste in practical file and write its uses in the practical file	10
3. Identify and operate	1. Introduction, parts and	1. Practice use of all the	15

Page 19 of Source: https://www.psscive.ac.in/publications/curricula

finishing machines and	operating steps of:	machines in the session	
other equipment	Welt attachment machine	and prepare samples	
	Fusing machine2. Pressing equipment used in garment industry:		
	Hand irons		
	• Iron table		
	 Buck press or steam press 		
	 Trouser pressing 		
	 Double-legger pressing 		
	 Carousel pressing 		
	 Steam finisher 		
	Tunnel finisher	•	
	 Creasing machine 		
	3. Pleating machine		

Unit 4: Maintain Organizational Health, Safety and Security at Workplace			
Learning Outcome	Theory (10 Hrs)	Practical (20 Hrs)	Duration (30 Hrs)
Describe importance of health and safety at workplace	 Importance of health Types of hazards at workplace Steps of reporting to concerned person in an organization at the time of emergency Emergency action plan 	1. Prepare emergency action plan	10
2. Explain health and safety measures at workplace	Introduction to safety Importance of ergonomics at workplace Recommendations to improve the safety and health conditions in garment manufacturing units Important safety instructions while working on specialized machines Safety Rules for safe working operations on specialized sewing machine	1. Demonstrate proper actions taking in case of emergencies at workplace	10
3. Explain steps of Storing materials and equipment	 Social responsibility of companies Waste management in textile and apparel industry 	Practice waste management	05
4. Describe organizational policy, goals, rules & regulation and workmen security	 Purpose and benefits of organizational policies Importance of organizational goals Workmen security system 	Prepare organizational plan	05

Learning Outcome	Theory (10 Hrs.)	Practical (25 Hrs.)	Duration (35Hrs.)
1. Describe quality control process and its importance in garments	 Importance of quality in stitching process Types of problem and factors which affecting quality of stitching 	1. Check garment according to AQL chart	15
2. Narrate types of faults & corrections required in stitching process	Classification, cause and rectification of defects	1. Identify garment defects	20

ORGANISATION OF FIELD VISITS

In a year, at least 3 field visits/educational tours should be organized for the students to expose them to the activities in the workplace.

Visit Boutiques, Market, Workshops, relevant industries and small units to observe the following: Location, Site, Office building, Store, Fabric yard, Packing area, Fabric store, Cutting area and Industrial machines. During the visit, students should obtain the following information from the owner or the supervisor of the industry:

- 1. Area under industry and its layout
- 2. Departments in industry
- 3. Work culture and environment of various departments
- 4. Various cutting, sewing, pattern making and layout machines
- 5. Different Specialized sewing machines
- 6. Different buyers, the company deals with
- 7. Product range of the industry
- 8. Understand time and action calendar
- 9. Manufacture, export, import, sale procedure
- 10. Manpower engaged
- 11. Total expenditure of industry
- 12. Total annual income
- 13. Profit/Loss (Annual)
- 14. Any other information