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

JOB ROLE: JAM, JELLY AND KETCHUP PROCESSING TECHNICIAN

COURSE OVERVIEW

A Jam, Jelly and Ketchup Processing Technician is responsible for processing fruits and vegetables to make jam, jelly and ketchup. He/she is responsible for receiving fruits, checking raw material quality, sorting, pulping, pasteurizing, cooking, juice extracting, clarifying, filtering, sampling for quality analysis, cooling, packaging and storing. He/she should possess the ability to plan, organize, prioritize, calculate and handle pressure.

COURSE OUTCOME:

On completion of the course, students 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 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 and control hazards in the workplace that pose a danger or threat;
- Prepare and maintain work area and equipment for food processing;
- Prepare Jam, Jelly and Ketchup as per the standards and standard operating procedures and methods;
- Demonstrate packaging of Jam, Jelly and Ketchup;
- Maintain documents and perform record keeping;
- Understand food quality and sanitation laws for processed food products

COURSE STRUCTURE

JOB ROLE: JAM, JELLY AND KETCHUP PROCESSING TECHNICIAN

SECTOR: FOOD PROCESSING

				Contact Ho	urs				Marks	
Class	Semester	Employability Skills	Domain Theory	Domain Practical	Practical Exam	Project	Total	,	Theory	Practical
VI	I	70	40	55	-	-	165	30	Average of Sem	NIL
XI	II	40	25	45	10	15	135	30	I & Sem II = 30	50 + 20 = 70
XII	III	70	33	52	-	-	155	30	Average of Sem III & Sem IV = 30	NIL
	IV	40	46	34	10	15	145	30		50 + 20 = 70

JOB ROLE: JAM, JELLY AND KETCHUP PROCESSING TECHNICIAN Class XI [Total Theory Marks 30]

Class XI SEMESTER 1 TOPICS: (MCQ) MARKS: 30 [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	95	
4	Unit 1: Introduction to Food Processing	35	8
5	Unit 2: Fruit and Vegetable Processing	60	16
	Total	165	30

Class XI SEMESTER 2 TOPICS: [Short Answer Question, Descriptive Question] MARKS: 30

SL No.	Topic & Sub-Topics	Tuition Hours	Short Answer Type Question (10 Marks)	Descriptive Type Question (20 Marks)	Total
	Part A: Employability Skills	40			
1	Unit 4: Entrepreneurial Skills - III	25	1	2	3
2	Unit 5: Green Skills - III	15	1	2	3
	Part B: Vocational Skills	70			
3	Unit 3: Introduction to Food Microbiology	25	3	6	9
4	Unit 4: Prepare and Maintain Work Area	45	5	10	15
	Part C: Practical Work	10			
5	Practical Examination	06			
6	Written Test	01			
7	Viva Voce	03			
	Part D: Project Work/Field Visit	15			
8	Practical File/ Student Portfolio	10			
9	Viva Voce	05			
	Total	135	10	20	30

JOB ROLE: BUSINESS CORRESPONDENT AND BUSINESS FACILITATOR Class XII [Total Theory Marks 30]

Class XII SEMESTER 3 TOPICS: (MCQ) MARKS: 30 [1 MARK PER QUESTION]

SL No.	Topic	Tuition Hours	Marks Allotted
	Part A: Employability Skills	70	
1	Unit 1: Communication Skills - IV	25	2
2	Unit 2: Self-management Skill - IV	25	2
3	Unit 3: Information and Communication Technology Skills - IV	20	2
	Part B: Vocational Skills	85	
4	Unit 1: Preparation of Jam, Jelly and Ketchup	65	16
5	Unit 2: Packaging of Jam, Jelly and Ketchup	20	8
	Total	155	30

Class XII SEMESTER 4 TOPICS: [Short Answer Question, Descriptive Question] MARKS: 30

SL No.	Topic & Sub-Topics	Tuition Hours	Short Answer Type Question (10 Marks)	Descriptive Type Question (20 Marks)	Total
	Part A: Employability Skills	40			
1	Unit 4: Entrepreneurial Skills - IV	25	1	2	3
2	Unit 5: Green Skills - IV	15	1	2	3
	Part B: Vocational Skills	80			
3	Unit 3: Documentation and Record Keeping	30	3	6	9
	Unit 4: Food Quality and Sanitation Laws for Processed Food Products	35	3	6	9
4	Unit 5: Occupational Health, Hygiene and First Aid Practices	15	2	4	6
	Part C: Practical Work	10			
5	Practical Examination	06			
6	Written Test	01			
7	Viva Voce	03			
	Part D: Project Work/Field Visit	15			
8	Practical File/ Student Portfolio	10			
9	Viva Voce	05			
	Total	145	10	20	30

DETAIL SYLLABUS CLASS - XI SEMESTER – I

Part A: Employability			
Unit 1: Communication Learning Outcome	on Skills – III Theory (10 Hours)	Practical (15 Hours)	Duration (25 Hrs)
1. Demonstrate knowledge of various methods of communication	 Methods of communication Verbal Non-verbal Visual 	Writing pros and cons of written, verbal and non-verbal communication Listing do's and don'ts for avoiding common body language mistakes	05
2. Identify specific communication styles	Communication styles- assertive, aggressive, passive- aggressive, submissive, etc.	Observing and sharing communication styles of friends, teachers and family members and adapting the best practices Role plays on communication styles.	10
3. Demonstrate basic writing skills	 Writing skills to the following: Sentence Phrase Kinds of Sentences Parts of Sentence Parts of Speech Articles Construction of a Paragraph 	Demonstration and practice of writing sentences and paragraphs on topics related to the subject	10
Unit 2: Self-managem	ent Skills – III	l	
Learning Outcome	Theory (10 Hours)	Practical (15 Hours)	Duration (25 Hrs)
1. Demonstrate impressive appearance and grooming	 Describe the importance of dressing appropriately, looking decent and positive body language. Describe the term grooming Prepare a personal grooming checklist. Describe the techniques of self- exploration. 	 Demonstration of impressive appearance and groomed personality. Demonstration of the ability to self- explore. 	10
2. Demonstrate team work skills	 Describe the important factors that influence in team building. Describe factors influencing team work. 	 Group discussion on qualities of a good team. Group discussion on strategies that are adopted for team building and team work. 	10

3. Apply time management strategies and techniques	1. Meaning and importance of time management – setting and prioritizing goals, creating a schedule, making lists of tasks, balancing work and leisure, using different optimization tools to break large tasks into smaller tasks.	 Game on time management. Checklist preparation. To-do-list preparation. 	05
Unit 3: Information a	nd Communication Technology		D4:
Learning Outcome	Theory (08 Hours)	Practical (12 Hours)	Duration (20 Hrs)
1. Create a document on word processor	 Introduction to word processing. Software packages for word processing. Opening and exiting the word processor. Creating a document 	 Demonstration and practice of the following: Listing the features of word processing, Listing the software packages for word processing, Opening and exit the word processor, Creating a document 	10
2. Edit, save and print a document in word processor	 Editing text Wrapping and aligning the text Font size, type and face. Header and Footer Auto correct Numbering and bullet Creating table Find and replace Page numbering. Printing document. Saving a document in various formats 	 Demonstration and practicing the following: Editing the text Word wrapping and alignment, Changing font type, size and face, Inserting header and footer, Removing header and footer, Using autocorrect option, Insert page numbers and bullet Save and print a document. 	10

Part B: Vocational Skills					
Unit 1: Introduction to Food Processing					
Learning Outcome	Theory (15 Hours)	Practical (20 Hours)	Duration (35 Hrs)		
1. Describe the importance of food processing	Meaning of food processing Importance and need of food processing and preservation Fruit and vegetable in human nutrition	Identification of the proceed product from vegetable and fruits	10		
2. Categorize different sub- sectors under food processing	 Introduction to different sub-sector of food processing Role and contribution of 	Visit to a food processing industry and submit a report	15		

	different sub-sectors in		
	Indian economy		
	1. Present scenarios of		
	food processing in		
3. Identify scope of	India		
food processing	2. Scope and future		10
	prospects of food		
	processing in India		
Unit 2: Fruits and Ve			
	Theory	Practical	Duration
Learning Outcome	(25 Hours)	(35 Hours)	(60 Hrs)
1. Describe the processing of fruits and vegetable	 Importance of fruits and vegetable in human nutrition Define fruits and vegetable processing Identify quality parameters of fruit and vegetable processing 	Identification of fruit and vegetable quality parameters for processing	10
	1. Principles of food		
2. Understand basic	preservation and		
principle and	processing 2. Methods of preservation	1. Enlist the different processed	15
methods of	3. Advantages of low-cost	products	13
preservation	technology for preservation		
	and processing		
	1. Define preservatives		
3. State the use of	2. Importance and types of	1. Demonstrate the use of	4.0
preservatives	the preservatives 3. Natural and chemical	preservatives	10
	preservative		
	1. Define minimal processing		
	2. Fruits and vegetable		
	suitable for minimal		
	processing		
4. Understand	3. Preparation of fruits and	1. Demonstration of product	1.0
minimal processing	vegetables for minimal	preparation- cutting, slicing,	10
technology	processing 4. Care during minimal	shredding, cubing, dicing etc.	
	processing		
	5. Use of machinery in		
	minimal processing		
	1. Drying, Dehydration and		
	its importance		
	2. Selection of fruits and	1. Demonstration of the drying	
5. Execute drying and	vegetables suitable for drying and dehydration	process	05
dehydration process	3. Sun drying, types of solar	2. Assessment of end point of	03
	driers and dehydrators	dried products	
	4. Osmotic drying and		
	dehydration		_
	1. Define canning	1. Enlist the Fruits and vegetables	
6. Carry out canning	2. Importance of canning	suitable for Canning	05
	3. Fruits and vegetable	2. Visit industry and prepare	

	suitable for canning	report of canning process	
	4. Process of canning		
	5. Precaution taken during		
	canning		
	6. Testing of defects in		
	canned products		
	1. Define fermentation		
	2. Type of fermentation	1. Select fruits/ vegetable for	
	3. Requirements of	fermentation	
7. Execute process of	fermentation	2. Demonstration fermentation	05
fermentation	4. Common fermented	process	03
	products	3. Select proper culture for	
	5. Merit and demerits of	fermentation	
	fermentation		

DETAIL SYLLABUS CLASS - XI SEMESTER - II

Part A: Employability Skills					
Unit 4: Entrepreneur Learning Outcome	rial Skills – III Theory (10 Hours)	Practical (15 Hours)	Duration (25 Hrs)		
1. Describe the significance of entrepreneurial values and attitude.	1. Values in general and entrepreneurial values. 2. Entrepreneurial value orientation with respect to inattentiveness, independence, outstanding performance and respect for work.	 Listing of entrepreneurial values by the students. Group work on identification of entrepreneurial values and their roles after listing or reading 2-3 stories of successful entrepreneur. Exhibiting entrepreneurial values in Ice breaking, rapport building, group work and home assignments. 	10		
2. Demonstrate the knowledge of attitudinal changes required to become an entrepreneur.	 Attitudes in general and entrepreneurial attitudes Using imagination/ intuition Tendency to take moderate risk Enjoying freedom of expression and action Looking for economic opportunities Believing that we can change the environment Analyzing situation and planning action Involving in activity 	 Preparing a list of factors that influence attitude in general and entrepreneurial attitude. Demonstrating and identifying own entrepreneurial attitudes during the following micro lab activities like thematic appreciation test. Preparing a short write-up on "who am I". Take up a product and suggest how its features can be improved. Group activity for suggesting brand names, names of enterprises, etc. 	15		
Unit 5: Green Skills		D	Description		
Learning Outcome	Theory (07 Hours)	Practical (08 Hours)	Duration (15 Hrs)		
1. Describe importance of main sector of green economy	Main sectors of green economy- E-waste management, green transportation, renewal energy, green construction, water management. Policy initiatives for greening economy in India.	 Preparing a poster on any one of the sectors of green economy. Writing a two-page essay on important initiatives taken in India for promoting green economy. 	08		

2. Describe the major green Sectors/ Areas and the role of various stakeholder in green economy	 Stakeholders in green economy. Role of government and private agencies in greening cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forests and fisheries. 	1. Preparing posters on green Sectors/Areas: cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forests and fisheries.	07
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Part B: Vocational S	zille			
	Unit 3: Introduction to Food Microbiology			
Learning Outcome	Theory (10 Hours)	Practical (15 Hours)	Duration (25 Hrs)	
1. Understand importance of microbes in food processing	 Impotence of microbes in food industry Define food spoilage Primary source of microorganism in food Important properties of enzymes in fruit and vegetable Factors affecting microbial growth in food 	1. Enlist and discus beneficial microbes in food industry	25	
Unit 4: Prepare and I		Practical	Duration	
Learning Outcome	Theory (15 Hours)	(30 Hours)	(45 Hrs)	
1. Prepare plan for jam, jelly and ketchup processing	Types of various fruit and vegetables suitable for jam, jelly and ketchup Chemical composition of fruit required for jam, jelly and ketchup preparation	1. Enlist the fruits and vegetable used for jam, jelly and ketchup	10	
2. Utilize the equipment for jam, jelly and ketchup preparation	 Types of machineries used in processing in the organization Maintenance of process equipment Unit operations 	1. Enlist the tools and equipment used for jam, jelly and ketchup processing	12	
3. Maintain work area	1. Identify various section of working unit and their functioning 2. Outline hygiene and sanitation standards in processing unit 3. Define SOPs for disposal of waste material.	Enlist various approved satiation practice as per SOPs standard	8	
4. Maintain processing machineries and tools	 Identify type of tools and equipment and their functioning in processing unit Describe the working and performance of machines and tools 	Identification of installed equipments and tools used Demonstration of chemical maintenance	15	

3. Types of chemicals, material	
for cleaning	
4. Procedure to disinfect tool	
and equipments	
5. Knowledge of food safety	
standard and regulation	
6. Regulation pertaining to	
work place like health and	
safety	

DETAIL SYLLABUS CLASS - XII SEMESTER – III

Part A: Employabilit	y Skills		
Unit 1: Communication Skills – IV			
Learning Outcome	Theory (10 Hours)	Practical (15 Hours)	Duration (25 Hrs)
1. Describe the steps to active listening skills	Importance of active listening at workplace Steps to active listening.	 Demonstration of the key aspects of becoming active listener. Preparing posters of steps for active listening. 	10
2. Demonstrate basic writing skills	 Writing skills to the following: Sentence Phrase Kinds of Sentences Parts of Sentence Parts of Speech Articles Construction of a Paragraph 	Demonstration and practice of writing sentences and paragraphs on topics related to the subject.	15
Unit 2: Self-managen	nent Skills – IV		
Learning Outcome	Theory	Practical	Duration
Learning Outcome	(10 Hours)	(15 Hours)	(25 Hrs)
1. Describe the various factors influencing self-motivation	 Finding and listing motives (needs and desires); Finding sources of motivation and inspiration (music, books, activities); expansive thoughts; living fully in the present moment; dreaming big. 	 Group discussion on identifying needs and desire. Discussion on sources of motivation and inspiration. 	10
2. Describe the basic personality traits, types and disorders	 Describe the meaning of personality. Describe how personality influence others. Describe basic personality traits. Describe common personality disordersparanoid, antisocial, schizoid, borderline, narcissistic, avoidant, dependent and obsessive. 	Demonstrate the knowledge of different personality types.	15
Unit 3: Information a	and Communication Technology		D
Learning Outcome	Theory (08 Hours)	Practical (12 Hours)	Duration (20 Hrs)
1. Perform tabulation using spreadsheet application	 Introduction to spreadsheet application, Spreadsheet applications, 	1. Demonstration and practice on the following:Introduction to the	10

	 Creating a new worksheet, Opening workbook and entering text, Resizing fonts and styles, Copying and moving, Filter and sorting, Formulas and functions, Password protection, Saving a spreadsheet in various formats. 	spreadsheet application, Listing the spreadsheet applications, Creating a new worksheet, Opening the workbook and enter text, Resizing fonts and styles, Copy and move the cell data, Sorting and Filter the data, Applying elementary formulas and functions, Protecting the spreadsheet with password, Printing a spreadsheet, Saving the spreadsheet in various formats.	
2. Prepare presentation using presentation application	 Introduction to presentation, Software packages for presentation, Creating a new presentation, Adding a slide, Deleting a slide, Entering and editing text, Formatting text, Inserting clipart and images, Slide layout, Saving a presentation, Printing a presentation document. 	 Demonstration and practice on the following: List the software packages with features for presentation, Creating a new presentation, Adding a slide to presentation, Deleting a slide, Entering and edit text, Formatting text, Inserting clipart and images, Sliding layout, Saving a presentation, Printing a presentation. 	10

Part B: Vocational Skills				
Unit 1: Preparation of Jam, Jelly and Ketchup				
Learning Outcome	Theory (25 Hours)	Practical (40 Hours)	Duration (65 Hrs)	
1. Select the suitable fruits for Jam, Jelly and Ketchup	1. Quality of fruits and vegetables based on appearance, colour, texture, flavour maturity etc 2. Explain fruit and vegetable washing 3. Sorting of fruit and vegetable on the basis of fruit size, shape, colour and texture etc.	1. Demonstrate physical parameters to know quality of fruit and vegetables for preparation of jam, jelly and ketchup 2. Depict the flowchart of washing and sorting	10	
2. Carry out peeling, de-seeding/de- stoning of fruits	1. Apply procedure to peel out by peeler depending upon the types of fruits and vegetables2. Understand types of peeling	1. Demonstrate peel out and deseed/de-stone of the fruits	10	
3. Extract the fruit pulp and juice	1. Apply procedure to make pulp by pulper refiner to sort	Demonstrate function of pulper and Juicer	10	

	out inert material like stone, bark, vegetable seeds, clog etc 2. Check the quality of fruit pulp/ fruit juice through physical parameters like appearance, colour, odour etc.	2. Understand the sampling procedure for analysis of physical parameters of fruit pulp and juice	
4. Prepare Jam and Jelly	 Apply approved procedure to prepare jam and Jelly Role of sugar, salt, Pectin and acid in jelly formation Determining the end point of jam and jelly Cause of failure jelly Precautions taken during preparation of jam and jelly 	Demonstrate preparation of jam and jelly Demonstrate tests for end point determination	15
5. Prepare Ketchup	1. Understand the Ketchup 2. Desirable physical parameters for fruit selection 3. Desirable quality parameters of ingredients 4. Recipe for tomato ketchup 5. Discuss the preservative used in tomato ketchup 6. Point to be taken care during preparation of ketchup	Demonstrate preparation of tomato ketchup Determine the end point of tomato ketchup	10
6. Utilize the fruit and vegetable waste	1. Identify various waste material from fruits and vegetables 2. Importance of waste disposal, methods of waste disposal and Treatment of waste. Jam, Jelly and Ketchup	Visit the fluent plant and prepare report on waste dispose	10
	Theory	Practical	Duration
Learning Outcome	(08 Hours)	(12 Hours)	(20 Hrs)
1. Understand Packaging	 Define Packaging Types of packaging material used fruits and vegetable products Define de-aeration, sterilization and aseptic packaging Suitable packing materials for Jam, Jelly and Ketchup 	 Enlist and discus on basic quality standard for packaging materials Identification of different packing material 	20

DETAIL SYLLABUS CLASS - XII SEMESTER – IV

Part A: Employabilit				
Unit 4: Entrepreneurial Skills – IV				
Learning Outcome	Theory (10 Hours)	Practical (15 Hours)	Duration (25 Hrs)	
1. Identify the general and entrepreneurial behavioral competencies	1. Barriers to becoming entrepreneur. 2. Behavioral and entrepreneurial competencies — adaptability/decisiveness, initiative/perseverance, interpersonal skills, organizational skills, stress management, valuing service and diversity.	 Administering self-rating questionnaire and score responses on each of the competencies. Collect small story/ anecdote of prominent successful entrepreneurs. Identify entrepreneurial competencies reflected in each story and connect it to the definition of behavioral competencies. Preparation of competency profile of students. 	10	
2. Demonstrate the knowledge of self-assessment of behavioral competencies	1. Entrepreneurial competency in particular: self-confidence, initiative, seeing and acting on opportunities, concern for quality, goal setting and risk taking, problem solving and creativity, systematic planning and efficiency, information seeking, persistence, influencing and negotiating, team building.	1. Games and exercises on changing entrepreneurial behavior and development of competencies for enhancing self-confidence, problem solving, goal setting, information seeking, team building and creativity.	15	
Unit 5: Green Skills -	I	,		
Learning Outcome	Theory (05 Hours)	Practical (10 Hours)	Duration (15 Hrs)	
1. Identify the role and importance of green jobs in different sectors	 Role of green jobs in toxinfree homes. Green organic gardening, public transport and energy conservation, Green jobs in water conservation. Green jobs in solar and wind power, waste reduction, reuse and recycling of wastes, Green jobs in green tourism Green jobs in building and construction. Green jobs in appropriate technology. 	 Listing of green jobs and preparation of posters on green job profiles. Prepare posters on green jobs. 	15	

8. Role of green jobs in	
Improving energy and raw	
materials use	
9. Role of green jobs in	
limiting greenhouse gas	
emissions	
10. Role of green jobs	
minimizing waste and	
pollution	
11. Role of green jobs in	
protecting and restoring	
ecosystems	
12. Role of green jobs in	
support adaptation to the	
effects of climate change	

	effects of climate change		
Part B: Vocational S	kills		
	on and Record Keeping		
Learning Outcome	Theory (20 Hours)	Practical (10 Hours)	Duration (30 Hrs)
Keep record of raw material	1. Importance of record keeping 2. Assess the details to be document at raw material collection stages 3. Understand loading process of raw material details in enterprise resource planning (ERP).	1. Enlist the importance of record keeping	10
2. Maintain record of production schedule and process	1. Assess the details to be document at production schedule and process 2. Understand record loading process of production schedule and process detail in enterprise resource planning (ERP).	Demonstration of record maintenance process at production schedule and process stages	10
3. Maintain record of finished product	Assess the details to be maintain and document at finished product stages Understand loading the finished product detail in enterprise resource planning (ERP) for future reference		10
Unit 4: Food Quality	and Sanitation Laws for Process		
Learning Outcome	Theory (20 Hours)	Practical (15 Hours)	Duration (35 Hrs)
1. Explain the food quality	 Meaning and importance of food quality Food quality control measures Factor affecting food quality 	1. Enlist and discus the food quality standards and measures	10
2. Recognize the	Quality assurance and international trades	1. Enlist and discus the food	15

food quality control standard, acts and legislation 3. Describe food additive	 Food safety, laws and standards Basic principles of HACCP Benefits of HACCP Food standardization and regulatory agenesis in India Food Adulteration Act Define food additive Permitted limit of food colour, flavour and preservative used food industry 	quality control standard on flow chart 1. Prepared flow chart on international acceptance limit of various food additive	10
Unit 5: Occupation H	lealth, Hygiene and First Aid Pra		
Learning Outcome	Theory (06 Hours)	Practical (09 Hours)	Duration (15 Hrs)
1. Recognize and adopt strategies for preventing hazardous conditions and work practices	 Types of hazards Common hazards at Processing unit/Industry Principles of safety and health Procedure and steps to be taken to report any accident, incident or problem without delay to an appropriate person Applicable hygiene and safety standards, regulations, and codes for Processing unit/Industry 	1. Reading of the manuals for tools, equipment and materials used at Processing unit/Industry 2. Demonstration of the correct and safe use of tools, equipment and materials 3. Demonstration of the correct and safe storage of tools, equipment and materials 4. Discussion on the procedure for reporting any accident, incident or problem without delay to an appropriate person and taking action to reduce further danger	05
2. Administer first aid or undertake most important action in a lifethreatening emergency	1. Procedure for providing first aid in case of medical emergency – cut, burns, bites, grazes, bruises electric shock, external bleeding, etc.	1. Demonstration of basic first aid practices adopted for cut, burns, snake bites, grazes, bruises, external bleeding, dog bites, bee bites, and other injuries 2. Demonstration of first aid care for a conscious and an unconscious victim with an obstructed airway	05
3. Undertake physical and biological methods of treating waste materials	Procedure for treating waste materials using physical and biological methods	Disposing waste safely and correctly in a designated area	05

ORGANISATION OF FIELD VISITS

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

Visit a Food processing industry and observe the following: Location, Site, Office building, Store, Washing chamber, weighing room, packaging material, Packing Yard, storage chamber etc. During the visit, students should obtain the following information from the owner or the supervisor of the industry/processing unit:

- 1. Types of processed foods at the industry
- 2. Types of packaging material used
- 3. Types of products prepared
- 4. Total input and output handled annually
- 5. Manpower engaged
- 6. Total expenditure of the packhouse
- 7. Total annual income
- 8. Profit/Loss (Annual)
- 9. Any other information