Name of the Subject: Technology of Food – I (Cereal, Pulses, Oilseeds and Extrusion Technology)							
Course Code: FPT	Semester: Fifth	Credits: 3C					
Duration: 6 Semesters	Maximum Marks: 100	Subject Code: FPT/T501					

For proper preservation & processing of food, it is essential to acquire the knowledge of bacteria & their property, genetics and also the concepts of preventing the growth of bacteria by means of sterilization & pasteurisation. The subject will primarily introduce the students to the essential concepts of understanding microbes, morphology, preparation of culture, genetics, nutrition, methods of prevention from contamination of food.

Teaching Scheme			Examination Scheme										
Theory				End Semester Examination									
Tutorial	Nil		Internal Scheme	Group	Unit	Objective Questions (Only MCQ/Fill in the Blanks/ True or False)				Subjective Questions			
Total Contact	17 Weeks or 51 Hours			A		To Be	To be Answere	Marks Per	Total Mark	To Be	To be Answere	Marks Per	Total Mark
Contact			30			Set	d	Question	S	Set	d	Question	S
Periods					1	3				2	Any 5 at		
	Class	Contact			2	6			1 x 20	2	least 2		10 x 5
	Test	Periods			3	6	Any 20	One	=	2	from	Ten	=
	3	48		В	4	6			20	2	each		50
					5	4				2	group		

	Detail Contents	Total Periods
Unit – 1	Introduction to Cereals Proximate composition of cereals, different types of cereals, general physiochemical structure of cereals, Storage of cereals, infestation control and use of pesticides, Toxic factors in cereals	5
Unit – 2	Cereals Processing Drying of cereals – solar, Ultra high temp. drying, Ultra low temp. drying, Milling of rice and wheat, Parboiling of rice, Classification of wheat, flour; difference between <i>atta</i> , <i>suji</i> and flour. Milling of corn and barley	12
	Cereal Products Different rice products- fermented rice products, aromatic rice, rice flakes, puffed rice; break first cereals products, instant rice, macaroni product.	
	Pulses and Legumes Proximate composition of pulses and legumes, classification of pulses (kharif, rabi), Toxic constituents	8
Unit – 3	of pulses, processing and milling of pulses, different types of pulse product, Processed soyabean products including fermented soya product.	

	Extruded Foods	8
Unit – 4	Objectives and importance of extrusion in food product development; Components and functions of an extruder; Classification of extruder; Advantages and disadvantages of different types of extrusion; Pre and post extrusion treatments; Manufacturing process of extruded products; Application of extrusion technologies in food industries. Texturized vegetable protein product (Soya nugget)	
	Fats and oils processing	1.5
Unit - 5	Introduction to oilseed, classification of oilseed, Extraction of fats and oil seeds –, rendering, pressing, solvent extraction; Processing of oils – degumming, refining, bleaching, deodorization, fractionation, winterization, hydrogenation, esterification, inter-esterification & emulsification; Extraction, refining and processing of rice bran oil. Preparation of fats and oils based products Natural vegetable fat (margarine; vanaspati) and animal fat (butter, lard):- source, composition, properties and industrial applications; Plastic fat in bakery and confectionary; Preparation of shortenings and salad oil. preparation of protein concentrate from mustard ,coconut seed and soya protein isolate Standard and quality control of fats and fatty foods; By-products of fat/oil processing industries.	15
	Reference Books	
	 Foods Facts & Principles / N. Shakuntala Manay & M. Shadaksharaswamy / New Age International Cereal Food Technology/NIIR Board, Asia pacific Business press. Food Analysis & Practice / Y. Pamaranz / AVI Post harvest technology of cereals, pulses and oilseeds, A. Chakraverty/ oxford IBH pub. Co. pvt. Ltd. Food Science / B. Srilaxmi / New Age international Principles of Food Science / Karek & L.M. Delker Advances in Pulse Production Technology, Jeswani and Baldev, ICAR Fundamentals of food engineering- D.G.Rao, PHI Learning 	

Name of the Subject: Technology of Food – II (Fish, Meat & Poultry)							
Course Code: FPT	Semester: Fifth	Credits: 3C					
Duration: 6 Semesters	Maximum Marks: 100	Subject Code: FPT/T502					

After successful completion of this paper each student should be able to:

- > An understanding of market organization, economic importance (\$ value) and product range of the industries studied and where appropriate, environmental or ecological market issues;
- > Process Flow Diagrams for products studied, and thereby describe the process and in particular be able to give a technical justification for the steps in the process;
- > Raw material characteristics, formulations, handling and processing procedures with quality, yield and cost of product produced and in most cases safety;
- > The processes studied and identify the control points for quality and in most cases safety. For these control points you should be able to recommend appropriate parameters

Teaching Scheme							Exai	mination Sch	neme					
Theory	3Hours / Week		3Hours / Week			End Semester Examination Objective Questions								
Tutorial	Nil Internal Scheme				TT '.	(((Only MCQ/Fill in the Blanks/ True or False)				Subjective Questions			
Total Contact		eeks or Iours		Group	Unit	To Be Set	To be Answered	Marks Per Question	Total Mark s	To Be Set	To be Answere d	Marks Per Question	Total Mark s	
Periods	Class Test	Contact Periods		A	1	9				4	Any 5 at least			
			30	В	2	9	Any 20	One	1 x 20 = 20	4	1 from each group	Ten	10 x 5 = 50	
	3	48		С	3	7				3				

Detail Contents

Total Periods

	Fish	
Unit – 1	Classification of fresh water fish and marine fish; Fish as raw material for processing and its biochemical composition. Factors affecting the quality of product and post harvest losses. Physical, chemical, microbiological and sensory changes during storage, Commercial handling, storage and transport of raw fish, Proximate composition of fish, Different spoilage & quality assessment Preservation of fish by canning, freezing & drying; salting, Smoking & curing of fish, Manufacture of fish protein concentrates, fish oil, fish paste & fish sauce, fish liver oil, fish meal, IQF prawn, fermented fish product and other important byproducts; Quality control of processed fish	17
Unit – 2	Meat Slaughtering technique of animal; Chemical and nutritional composition of meat; The eating quality of meat - color, water holding capacity (WHC) and juiciness, texture and tenderness, odour and taste, Post mortem changes of meat. Meat processing- comminution, emulsification, curing, smoking, cooking, ageing and tenderization; Meat products - meat emulsion, fermented meats, sausages, ham, bacon and comminuted meat products; Meat analogs; Meat storage and preservation- by temperature control (refrigeration, freezing, thermal processing), by moisture control (dehydration, freeze drying, curing, IMF meat), by microbial inhibition (chemical preservation, ionizing radiation); Packaging of meat products. Meat production, processing and consumption trends; Meat plant sanitation and waste disposal; By-products from meat industries and their utilization.	17
Unit – 3	Poultry Classification of poultry meat; Composition and nutritional value of poultry meat; Processing and preservation of poultry meat, spoilage and control; By-product utilization. Egg and egg products- Structure, composition and functions of eggs; Abnormalities in eggs; Functions of eggs in food products; Inspection and grading for egg quality; Preservation and safe handling of eggs; egg quality assessment, Spoilage and control; Coagulation of eggs, egg foams, egg powder and egg based products;	14
	 Reference Books Foods Facts & Principles / N. Shakuntala Manay & M. Shadaksharaswamy / New Age International Food Science / N.N. Potter Meat as Food (Vol. 1,2)/Cole & Lawrie Food Science / B. Srilaxmi / New Age international Fish as food (Vol 1,2,3,4)/ George Borgstorm Meat processing and preservation with packaging Technology, NIIR Board, Asia pacific Business press. Meat product processing, EIRI Board 	

Name of the Subject: Technology of Food – III (Fruits, Vegetables, Species & Beverage Technology)							
Course Code: FPT	Semester: Fifth	Credits: 3C					
Duration: 6 Semesters	Maximum Marks: 100	Subject Code: FPT/T503					

For proper preservation & processing of food, it is essential to acquire the knowledge of bacteria & their property, genetics and also the concepts of preventing the growth of bacteria by means of sterilization & pasteurisation. The subject will primarily introduce the students to the essential concepts of understanding microbes, morphology, preparation of culture, genetics, nutrition, methods of prevention from contamination of food.

Teaching Scheme							Exa	mination Sch	neme				
Theory	3Hour	s / Week		End Semester Examination									
Tutorial	1	Nil	Internal Scheme	Group	Unit	(O	Objective Questions (Only MCQ/Fill in the Blanks/ True or False) Subjective				e Questions		
Total Contact	17 Weeks or 51 Hours		30	A		To Be Set	To be Answere	Marks Per Question	Total Mark s	To Be Set	To be Answere	Marks Per Question	Total Mark s
Periods	Class Contact				1 2	3			1 x 20	2 2	Any 5 at least 2		10 x 5
	Test	Periods			3	6	Any 20	One	=	2	from	Ten	=
	3	48		В	4	6			20	2	each		50
					5	4				2	group		
		·						·	·		·		
			-4-1-1- C4-		Detail C	ontents	5					Total Pe	eriods

	Detail Contents	Total Periods
	Fruits and Vegetables Storage	8
Unit – 1	Different types of fruits and vegetable and their chemical composition, physical & chemical treatment for increasing post harvest shelf life, storage & handling – CA, MA storage, Cold storage	
	Different microbial groups associated with fruits & vegetables, microbial change during storage, Effects	
	of enzymes on quality of fruit & vegetable storage, methods for preventing microbial attack on fruit &	
	vegetable during harvesting & storage.	
	Fruits and Vegetables Products	15
	Preparation of jam, jelly, marmalade, tomato product, potato product, Drying and canning of fruits and	
Unit – 2	vegetables, machineries used in fruits and vegetables processing, Analysis and quality control of Fruits	
	and Vegetables Products.	
	Fermentation and picking	
	Fermentation methods of fruits & vegetables, fermented products, quality changes during fermentation, fermented pickles, pickling methods and storage & preservation of fermented & pickled products.	
	Fruits Juice Beverages	10
	Fruit squash, nectar, cordials, carbonated beverages, juice concentrate, juice powder manufacturing process and their properties, proximate composition, Analysis and quality control of beverage products.	
Unit – 3		

	Non alcoholic Beverage	10
Unit – 4	Proximate composition of tea, coffee & cocoa; different grades of tea and coffee; tea & coffee processing, different tea & coffee products, preparation of health drinks. Analysis and quality control of tea, coffee & cocoa products.	
Unit - 5	Introduction to Spices Importance of spices, classification of spices, Technology of spices powder production Different types of condiment and herb products, preservation and packaging of spice powder.	5
	Reference Books	
	 Processing of fruits & vegetables/Giridharilal & Siddappa Technology of Food Preservation/ Desrosier & Desrosier 	
	 Foods Facts & Principles / N. Shakuntala Manay & M. Shadaksharaswamy / New Age International Food Science / N.N. Potter 	
	 Food Chemistry / L. H. Meyer Food Analysis & Practice / Y. Pamaranz / AVI Hand book on quality analysis on Fruits & vegetables / Rangana 	
	8. Chocolate, Cocoa & Confectionary / B.W. MInifie	
	 Food Science / B. Srilaxmi / New Age international Principles of Food Science / Karek & L.M. Delker Fruits & vegetables processing (Vol. 1,2,3,4) / Suman Bhatti 	

	Name of the Subject: Dairy Technology								
Course C	Code: FPT	Semester: Fifth	Credits: 3C						
Duration	: 6 Semesters	Maximum Marks: 100	Subject Code: FPT/T504						

This paper imparts hands-on-training/Experiential learning on Processing of Milk & Milk Products in a commercial environment to sharpen their technical as well as managerial skills thereby enhancing the professional confidence and to provide an opportunity to develop a set of skills such as leadership, teamwork, interpersonal communication, analytical problem solving, entrepreneurial/business skills which are not gained in a class room environment.

Teaching Scheme			Examination Scheme										
Theory	3Hours	s / Week		End Semester Examination									
Tutorial	N	Nil	Internal Scheme	Group	Unit	Objective Questions (Only MCQ/Fill in the Blanks/ True or False)				Subjective	ctive Questions		
Total Contact		eeks or Hours	30	A		To Be Set	To be Answere d	Marks Per Ouestion	Total Mark s	To Be Set	To be Answere	Marks Per Ouestion	Total Mark s
Periods	Class	Contact	30	A	1 2	3	u	Question	1 x 20	2	Any 5 at least 2	Question	10 x 5
	Test 3	Periods 48		В	3 4 5	8 7 4	Any 20	One	= 20	2 2 2	from each group	Ten	= 50

	Detail Contents	Total Periods
	Introduction	
	Introduction to Milk	
	Definition, composition, White revolution, Present milk industry scenario in India and its future, factors	
	affecting composition of milk; energy value of milk; handling, transportation and reception of milk;	6
	Varieties and grading of milk.	
Unit – 1	Physico-Chemical Properties of Milk	
-	Density, boiling and freezing point, refractive index, Acidity and pH, viscosity, surface tension	
	Microbiology of Milk	
	Detection of E.coli in milk, microbes present in milk, inhibitors in milk.Quality control of milk and milk	
	products including various analytical technique	
	Utilization of Equipments in Dairy Industries	
	Heat exchangers (Pasteurizer, Vacreator, Refrigeration and cooling, Chillers, Evaporator and dryers,	8

Unit – 2	Humidifiers), Homogenizer, Filters, Clarifiers, Milk separators, Butter churners, Butter extruder, Ice-	
	cream churners, Ice-Cream freezers, Ghee Vat, Cheese Vat, Paneer equipments,	
	Cleaning and Sanitizing of Dairy Equipment	
	CIP System	
	Special Milk	
	Toned milk, Double toned milk, Flavoured Milk & Sterilized milk – Manufacturing flow sheets	
	Condensed & Evaporated Milk	
	Manufacturing flow sheets of evaporated milk, condensed milk	
Unit – 3	Dried Milk Products	14
	Methods of milk drying (Drum & Spray Drying), manufacturing flow sheets of whole milk and skim	
	milk powder by drum & spray drying; manufacturing flow sheets – whey powder, ice-cream mix	
	powder, infant milk powder & chhana powder, Khoya product.	
	Other Milk	
	Synthetic milk, Soya milk and Soya milk product - Manufacturing flow sheets	
	Frozen Milk Products	
	Manufacturing process of Ice Cream, Softy & Kulfi	
TT 14 4	Coagulated Milk Products	
Unit – 4	Classification of cheese, manufacturing process of cheddar, cottage cheese, mozzarella cheese,	14
	manufacturing process of Chhana & Paneer	
	Fermented Milk Products	
	Concepts of starter culture, types of starter culture used in dairy industries, Manufacturing process of	
	Dahi, Yoghurt, Butter & Ghee	
	Dainy Industrias Wasta & Dy maduate Utilization	
Unit - 5	Dairy Industries Waste & By- products Utilization Status, scope and utilization of dairy by- products in India; Physico chemical characteristic of whey,	6
	butter milk; Whey processing, beverages of whey; Butter milk processing, beverage of butter milk, Casein, industrial and food grade lactose	
	Casem, muusurar and rood grade factose	
	Reference Book	
	1. Foods Facts & Principles / N. Shakuntala Manay & M. Shadaksharaswamy / New Age International	
	2. Food Science / N.N. Potter	
	3. Outlines of Dairy technology/ Sukumar De	
	4. Dairy Technology/Warner	
	5. Dairy Processings & Food products / Lampert	

Name of the Subject: Bakery & Confectionary Technology						
Course Code: FPT	Semester: Fifth	Credits: 3C				
Duration: 6 Semesters	Maximum Marks: 100	Subject Code: FPT/T505				

For proper preservation & processing of food, it is essential to acquire the knowledge of bacteria & their property, genetics and also the concepts of preventing the growth of bacteria by means of sterilization & pasteurisation. The subject will primarily introduce the students to the essential concepts of understanding microbes, morphology, preparation of culture, genetics, nutrition, methods of prevention from contamination of food.

Teaching Scheme		Examination Scheme											
Theory	3Hours	End Semester Examination											
Tutorial		Nil	Internal Scheme	Objective Questions			Objective Questions (Only MCQ/Fill in the Blanks/			e Questions			
Total Contact		eeks or Iours	30	A		To Be Set	To be Answere d	Marks Per Question	Total Mark s	To Be Set	To be Answere	Marks Per Question	Total Mark s
Periods	Class Test	Contact Periods			1 2	3 6	Any 20	One	1 x 20	2 2	Any 5 at least 2 from	Ten	10 x 5
	3	48		В	3 4 5	6 6 4	Any 20	Olle	20	2 2 2	each group	Tell	= 50

	Detail Contents	Total Periods
Unit – 1	Ingredients for Baking Proximate composition of wheat, types of wheat, types and grades of flours, flour process, chemistry of flour, testing of wheat and flour for baking quality, Type & Mechanism of Gluten development. Major & minor ingredients used in baking (product wise) and their role in baking, Different baking ingredients and their role in baking - leavening agents (D.R.C, diastatic activity), Shortening agents, emulsifiers, antioxidants, improver, dough conditioner Quality of water used and its function in baking, impurities of water and their effect in quality of baked products. FSSAI/PFA limit for additives in bakery product.	8
Unit – 2	Baking Techniques Bulk handling of ingredients, Process parameters, Various dough and their use, Fermentation and proofing, Mechanism of Heat transfer in baking, time, temperature humidity effect in baking, cooling and packaging of baked products.	6
	Baking Equipments Types, working principle &, application of -Dough mixer, dough moulding, dough divider, proofer, baking oven, cooler, slicer.	10

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Unit – 3	Machines & equipment for batch and continuous processing of bakery products.	
Unit – 4	Product of Baking Production of bread, biscuits, cake, Pastry ,cookies, crackers , pasta, noodles, pizza and their quality aspects, defects of baked products and preventive measures. Snack food product Packaging of bakery products. Canned bakery products. Freezing of bakery product.	14
Unit - 5	Confectionary Technology Definition of Confectionary, Icing Technology, wafer manufacture, Fondant and Fudge, Manufacture of chocolate, production of chocolate mass, chocolate candy, chocolate based confectionary product, Milk based confectionary products, Different Sugar boiled stage, Sugar confectionaries, Sweet candy.	10
	Reference Books 1. Bakery & Confectionary Technology –By S.A.Matz. 2. Chocolate, Cocoa, Confectionary – By Minifie B.W. 3. Bakery Technology and Engineering –By S.A.Matz. 4. Equipments for Bakers –By S.A.Matz. 5. Cookies & Cracker Technology–By S.A.Matz. 6. Basic Baking- By S.C Dubey. 7. Textbook of Bakery and Confectionary – By Yogambal, PHI	

Course Code: FPT		Semester: Fifth	Credits: 2C			
	Semesters	Maximum Marks: 100	Subject Code: FPT/P506			
Objective:			, ,			
Tanal	hing Scheme	T	Examination Scheme			
Teach	ning Scheme		Examination Scheme			
Practical	4 Hrs/Week	Internal Scheme	External Scheme			
		Continuous Internal Assessment of 50	External Assessment of 50 marks shall be held at the end of the			
Tutorial	Nil	marks is to be carried out by the	Second Year First Semester on the entire syllabus. One job per			
		teachers throughout the Second Year	student from any one of the jobs done is to be performed. Job is			
Total	15 Weeks or 60 Hrs	First Semester. Distribution of marks:	to be set by lottery system. Distribution of marks: On Spot Job			
Periods	V 2	Performance of Job – 35, Notebook – 15.	– 25, Viva-voce – 25.			
~		1				
Sl.No.	A		Contents			
1.	Analysis of jam, j	eny (benzoate,				
2.	Analysis of fruit j	uice and beverage product (acidity				
3.	Analysis of raw m	ilk (Garber test ,phosphatage test, milk protei	n, milk sugar, MBRT Test)			
4.	Analysis of milk p	product quality				
5.	5. Analysis of wheat flour (Moisture, ash, gluten content, sedimentation value, D.R.C for bio leavening agent yeast)					
6.	Analysis of bread, cake, biscuit and cookies					
7.	Analysis of meat a	nd fish product				
		k and soymilk product.				

	Name of the Subject: Food Processing Laboratory - I							
Course Coo		Semester: Fifth		Credits: 2C				
	Semesters	Maximum Marks: 100		Subject Code: FPT/P507				
Objective:								
Teacl	ning Scheme		Examination Scheme					
Practical	4 Hrs/Week	Internal Scheme		External Scheme				
Tutorial	Nil	Continuous Internal Assessment of 50 marks is to be carried out by the		ssessment of 50 marks shall be held at the end of the ar First Semester on the entire syllabus. One job per				
Total Periods	15 Weeks or 60 Hrs	teachers throughout the Second Year First Semester. Distribution of marks: Performance of Job – 35, Notebook – 15.	student from	m any one of the jobs done is to be performed. Job is lottery system. Distribution of marks: On Spot Job				
Sl.No.		Detail	Contents					
1.	Development of	of fruit squash & Nectar						
2.	Development of	of Fruit jelly, jam, synthetic jelly.						
3.	Preparation of	mango pickle and mixed pickle						
4.	Development of	of flavoured ice cream						
5.	Development of curd and yogurt							
6.	Development of milk product (Paneer, Cheese, ghee, butter etc)							
7.	Development of flavoured soyamilk and soya milk product							
8.	Development of canned meat, fish, prawn product							
9.	Preparation of meat sausage							
10.	Development	of smoked meat and fish product						

	Name of the Subject: Bakery & Confectionary Technology Laboratory							
Course Co	de: FPT	Semester: Fifth	Credits: 2C					
Duration:	6 Semesters	Maximum Marks: 100	Subject Code: FPT/P508					
Objective:								
Teac	ching Scheme		Examination Scheme					
Practical	4 Hrs/Week	Internal Scheme	External Scheme					
Tutorial	Nil	Continuous Internal Assessment of 50 marks is to be carried out by the	External Assessment of 50 marks shall be held at the end of the Second Year First Semester on the entire syllabus. One job per					
Total Periods	15 Weeks or 60 Hrs	teachers throughout the Second Year First Semester. Distribution of marks: Performance of Job – 35, Notebook – 15.	student from any one of the jobs done is to be performed. Job is to be set by lottery system. Distribution of marks: On Spot Job – 25, Viva-voce – 25.					
CLN		David.						
Sl.No.	Development of Br		Contents					
2.	Development of Ca							
3.	Development of Bi							
4.	Development of Cookies							
5.	Development of Crackers							
6.	Development of bakery product like – pasta, noodles, pizza, patties, doughnuts, cream roll e.t.c							
7.	Development of extruded food							
8.	Development of confectionary item like – candy, chocolate e.t.c							
9.	Development of several icing product like pastry							
10.	Development of sn	ack food						

Name of the Subject: Food Processing Project Work - I						
Course Code: FPT	Semester: Fifth	Credits: 2C				
Duration: 6 Semesters	Maximum Marks: 100	Subject Code: FPT/P509				

Objective: **Project Work**-I is intended to provide opportunity for students to develop understanding of the interrelationship between different courses learnt in the entire diploma programme and to apply the knowledge gained in a way that enables them to develop & demonstrate higher order skills. The basic objective of a project class would be to ignite the potential of students' creative ability by enabling them to develop something which has social relevance, aging, it should provide a taste of real life problem that a diploma-holder may encounter as a professional. The course further includes preparation of a Project Report which, among other things, consists of technical description of the project. The Report should be submitted in two copies, one to be retained in the library of the institute. The Report needs to be prepared in computer using Word and CADD software wherever necessary.

Seminar on Project Work-I is intended to provide opportunity for students to present the Project Work in front of a technical gathering with the help of different oral, aural and visual communication aids.

Teach	ning Scheme	Examination Scheme				
Practical	4 Hrs/Week Internal Scheme		External Scheme			
Tutorial Total Periods	Nil 15 Weeks or 60 Hrs	Continuous Internal Assessment of 50 marks is to be carried out by the teachers throughout the Second Year First Semester. Distribution of marks: Performance of Job – 35, Notebook – 15.	External Assessment of 50 marks shall be held at the end of the Second Year First Semester on the entire syllabus. One job per student from any one of the jobs done is to be performed. Job is to be set by lottery system. Distribution of marks: On Spot Job – 25, Viva-voce – 25.			
Sl.No.		Datail	Contents			
1.	Processing of	fruits and vegetables by canning, drying etc.	Contents			
2.	•	cement in canned food.				
3.		cement in fruits and vegetables food product	S.			
4.	•	its, vegetables and cereals applying modern				
5.	Development of potato based product.					
6.	Quality enhancement in dairy food products					
7.	Development of different types of dairy product.					
8.	Up gradation of local bakery unit under quality perception.					
9.	Preparation of nutritionally enriched bread, cake and biscuit.					
10.	Development	of varieties of confectionary product				

			III (Industrial Visit & Report Submission)
Course Code: FPT		Semester: Fifth	Credits: 1C
Duration: 6 Semesters		Maximum Marks: 50	Subject Code: FPT/P510
Objective:			
Teaching Scheme		Examination Scheme	
Term Work	2 Hrs/Week	Term Work (Internal Scheme)	
Tutorial	Nil	_	
Total Contact Periods	15 Weeks or 30 Hrs		marks is to be carried out by the teachers throughout the Second Year Performance of Job -35 , Assignments -15 .
Sl.No.			etail Contents
51.110.	Visit to food processing industry and submission of report based on plant layout and operation		