ı	module/	Student work-	Credits	Semester	Frequency	Duration			
course code FPV 807		load 3 hours	(ECTS) 3 Units	1st Sem.	e.g. each semeste each winter-terr etc.				
1	Types of	courses	Contact	hours	Independent study	Class size			
•	a) Lectur			nours	X hours	6 students			
	b) Test /			10410	ATTOGIS	o oracinio			
	Exam								
5	Prereguis	ites for participation	on						
				Food quality	Control and Plant Sani	tation at			
	_	nduate level.	'	, ,					
2	Learning	outcomes							
_		tion of the learning	event the stud	ent should be	able to:				
					surance and control as v	well as establishment of			
		ality management s							
				ological qualit	ies of food as well qua	ality factors influencing			
	 consumer acceptability and safety. Demonstrate deep understanding of the principles and concepts of total quality managemer 								
	Demonstrate deep understanding of the principles and concepts of total quality management systems/techniques, operational quality control and practical quality enhancement strategies in the principles and concepts of total quality management systems.								
	food industry.								
	Have a good grasp of statistical quality control tools such as control charts and limits, Hoshi								
	management theories, regression modelling and optimization functions/equations.								
	 Exposed to recent development in international, regional and national quality certification monitoring and enforcement e.g. ISO, codex Alimentarius, Standard Organization of Nigeri (SON) 								
	• Describe the effect of various food processing, packaging and preservation techniques of nutritional, microbiological and sensory qualities of foods. Determination of yield, record keeping								
	 GAP, GMP, and GHP in food processing and handling. Demonstrate learning and apply principles of Hazard Analysis Critical Control Points (HACCP microbiological criteria and the use of microbiological analysis to monitor food quality and safety 								
	 Understand the principles and techniques of food plant sanitation e.g. Cleaning in Place (CII techniques. 								
3	Subject aims/Content								
	Evolution of quality concepts, customer focus, total quality management, operational quality management, suggestion and quality improvement. Evolution of quality management								
	management, quality control and quality improvement. Evolution of quality management methodologies, i.e. statistical technique, Hoshin management. Quality function deployment								
	standards on quality management system i.e. ISO 9000 Standard. Effects of raw material quality								
	and the various types of food processing on yield and quality of product. Sanitation in the food								
	industry.								
4	Teaching	methods							
-	_		ies, group wo	ork, lectures,	discussions, tutorials,	etc.			
6	Assessment methods								
		Assessment (CAT)), Assignments	s, Group work	and Exams				
8	+	ule/course is use							

	FST 809
10	Responsibility for module/course
11	Other information
	e.g. bibliographical references
	1. Hubbard, Merton R. Statistical quality control for the food industry/Merton R. Hubbard—3rd ed. Kluwer Academic / Plenum Publishers
	2. Food process modelling. Edited by LMM Tijskens, MLATM Hertog and BM Nicola. Published 2001,
	Woodhead Publishing Limited and CRC Press LLC
	3. Ronald H. Schmidt and Gary E. Rodrick. Food Safety Handbook. A John Wiley & Sons
	Publication

	module/	Student work-	Credits	Semester	Frequency	Duration				
course code load		(ECTS)	1st Sem.	e.g. each semeste	er, 1 semester					
ſ	FPV 809 3 hours		2 Units		each winter-tern					
					etc.	,				
1	Types of	courses	Contact	hours	Independent study	Class size				
-	a) Lectur			nours	X hours	6 students				
	b) Test /				7. 1. 3. 1. 3	0 010001110				
	Exam									
5	Prereguis	ites for participati	on							
		•		Food Additive	es, Safety and Toxicolo	gy at Undergraduat				
	level.	_			•					
2	Learning o	outcomes								
_	_	tion of the learning	event the stud	ent should be a	able to:					
		xplain food laws, its								
					ation and codes of practic					
	Demonstrate deep understanding of the international regulations and requirements for food esponding international regulations. FDA at a second of the international regulations and requirements for food esponding international regulations.									
	 and/or imports e.g. EU regulations, FDA, etc. Describe international, regional and national legislations on pesticide applications and residues 									
	foods e.g access to pesticides, regulatory control of pesticides.									
	• Describe the various international conventions on pesticides regulations and use e.g. The									
	Rotterdam Convention, The Stockholm Convention, The Basel Convention									
	 Understand the basic principles of policy formulation and implementation and conceptu frameworks in agricultural policy processes. 									
	 Understand and describe participatory appraisal of community food and nutrition. 									
	 Demonstrate learning and apply principles of nutritional surveillance to access the nutrional statu 									
	and needs of a community.									
	Understand the several agricultural policy and programs gaps in the nation's quest for food and									
3		trition security								
3	Subject aims/Content Food law, its philosophy and development. Food standards, codes to practice and statutory regulations.									
	Food export and regulations. Legislations on food additives. Toxic substances in food. Detoxification of									
		food and avoidance of contamination. Legislation on pesticide application to food raw materials and								
	products. Food, Nutrition and Economic development. Conceptual framework for food policy development. Food and Nutritional situation appraisal. Policy formulation and implementation.									
	Organization and coordination, monitoring and evaluation of food and nutrition policy. Review of									
	Agricultural Policy in Nigeria.									
4	Teaching methods									
	e.g. projed	ct work, case stud	ies, group wo	ork, lectures,	discussions, etc.					
6	Assessment methods									
	Continuous Assessment (CAT), Assignments, Group work and Exams									
8	This module/course is used in the following degree programme/s as well									
_	FST 809									
	1									
10	Responsib	ility for module/	COLITSE							

e.g. bibliographical references

module/ Student work-			Credits	Semester	Frequency	Duration		
course code FPV 817		load 3 hours	(ECTS) 2 Units	1st Sem.	e.g. each semeste each winter-tern etc.			
1	Types of a) Lectur		Contact hours 3 hours		Independent study X hours	Class size 6 students		
	b) Test / Exam							
5	Prerequisites for participation e.g. must have successfully completed Introductory Sensory Evaluation of foods at Undergraduate level.							
2	 Learning outcomes On completion of the learning event the student should be able to: Define sensory evaluation, types, objectives and applications Demonstrate deep learning of the recent developments in taste, odour and flavour measurements Describe the principles and theories of instrumental sensory analysis in the food industry (e.g Optical Sensors and Electronic Eyes, Mechanical texture analysis of foods) Understand the relationships and interactions between physical, chemical and sensory attributes o foods. Have a good grasp and describe the use automation in sensory analysis (control systems and information technologies) to reduce the need for human work in determining consume 							
3	acceptability, preference and willingness to pay for premium. Subject aims/Content Recent developments on taste, odour and flavour assessments in food products. Principles of consumer acceptability studies. Interrelationship between physical, chemical and sensory attributes of foods.							
4	Automation in sensory analysis. Teaching methods e.g. project work, case studies, group work, lectures, discussions, etc.							
6	Assessment methods Continuous Assessment (CAT), Assignments, Group work and Exams							
8	This module/course is used in the following degree programme/s as well FST 809							
10	Responsibility for module/course							
11	e.g. bibliographical references 1. Moskowitz, Howard R. (2006). Sensory and consumer research in food product design and developmed Howard R. Moskowitz, Jacqueline H Beckley, and Anna V. A. Resurreccion. First Edition 2006. IFT Press Series 2. Stephanie Clark I Michael Costello I MaryAnne Drake I Floyd Bodyfelt (2009) (Editors). The Sensory Evaluation of Dairy Products. Second edition. Springer Science Business Media, LLC 2009 3. Andrew J. Rosenthal (1999). Food Texture Measurement and Perception. Aspen Publishers, Inc. Gaithersburg, Maryland.							

module/ course code FPV 818 Student work- load 3 hours		Credits	Semester	Frequency	Duration			
			(ECTS) 2 Units	2nd Sem.	e.g. each semester, each winter-term, etc.	1 semester		
1	Types of a) Lectur b) Test / Exam	res	Contact 3 h	hours nours	Independent study X hours	Class size 6 students		
5	Prerequisites for participation e.g. must have successfully completed Food product development and sensory evaluation at Undergraduate level.							
2	 Learning outcomes On completion of the learning event the student should be able to: Define products, product line, product mix and product development. Understand the various stages in food product development, strategies and methods. Describe product life cycle and reasons for new products success or failure. Demonstrate deep understanding of the multidisciplinary approaches for developing new food products and processes, within the context of industry-cooperated projects. Explain the rudiments of group dynamics and human relations. Describe the various factors that influence the process of new food product development and launching. Understand the basic principles of mathematical modelling for process design and automation. Understand and describe the layout, types and format of feasibility report. Demonstrate learning and apply principles of market and consumer survey in determining the 							
3	potential consumer acceptability of new food product. Subject aims/Content Product development concept: basic considerations for new products development – strategies and methods. Multidisciplinary approaches for developing new food products and processes, in the context of industry-cooperated projects. Group dynamics and interpersonal skills. Influence of process factors on product and process development. Analysis of mathematical models for design a food process. Feasibility report preparation. Market survey and consumer survey. Food acceptability.							
4	Teaching methods e.g. project work, case studies, group work, lectures, discussions, etc.							
6	Assessment methods Continuous Assessment (CAT), Assignments, Group work and Exams							
8	This module/course is used in the following degree programme/s as well							
10	Responsibility for module/course							
11	Other information e.g. bibliographical references 1. Mary Earle, Richard Earle and Allan Anderson (2001). Food product development. Woodhead Publishing Limited 2. Moskowitz, Howard R. (2006). Sensory and consumer research in food product design and							

development / Howard R. Moskowitz, Jacqueline H-. Beckley, and Anna V. A. Resurreccion. First Edition 2006. IFT Press Series.

r	nodule/	Student work-	Credits	Semester	Frequency	Duration		
		load 3 hours	(ECTS) 2 Units	1st Sem.	e.g. each semester each winter-term etc.			
1	Types of	courses	Contact	hours	Independent study	Class size		
	a) Lectui b) Test / Exam		3 h	nours	X hours	4 students		
5	Prerequisites for participation e.g. must have successfully completed Production Economics as well as Introductory Entrepreneurship at Undergraduate level.							
3	 Define management theories, principles and practice with case study of food establishment Understand the various concept and approaches in food marketing, branding and promotion. Describe food business laws and regulations (national, regional and international). Understand and describe the layout, types and format of feasibility studies for food base industries. Demonstrate deep understanding of the multidisciplinary approaches for food business analysi technology selection, financial management and auditing. Explain the rudiments of general and project management. Understand the basic principles of mathematical modelling for process design and automation. Demonstrate learning and applications of management information system Have a sound knowledge of waste handling, treatment and disposal in the food industry 							
	Subject aims/Content Management peculiarities of food industries. Marketing concept and marketing mix. Food business law Preparation of feasibility studies for food – based industries. Business analysis, financial and cost analyses technology selection, marketing analysis, product management, food safety and regulation, wast management in food industries, proposal preparation, general management and project management management of information system.							
4	Teaching methods e.g. project work, case studies, group work, lectures, discussions, etc.							
6	Assessment methods Continuous Assessment (CAT), Assignments, Group work and Exams							
8	This module/course is used in the following degree programme/s as well							
10	Responsib	oility for module/	course					
11	Other information e.g. bibliographical references							