

M.E.S MAMPAD COLLEGE (AUTONOMOUS)

MAMPAD COLLEGE P.O, MALAPPURAM, KERALA, INDIA, 676542
Affiliated to University of Calicut
Accredited by NAAC with A grade

Syllabus Year	2019-2020
Department	Food Technology
Programme	Bvoc. Food Processing & Safety Management

Programme outcome.

Sl.No	Programme Outcome
P01	They should live with moral ethical value and live in the society with responsible citizen
	They should be able to communicate with others effectively
PO2	
	They should take readily any challenge before them and solve those problems persist
P03	
P04	They must understand the environmental issues and to accept the adaption

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Continue adding rows till the POs are completely added.

Programme specific out come

Sl.No	Programme Specific Outcome.	
PSO1	They will demonstrate knowledge of Food Chemistry, Food Microbiology, Food science and Food	
	engineering.	
	They will demonstrate an ability to identify, formulate and solve processing problems related to	
PSO2	food sector/industry.	
	They will able to focus on the importance of safe processed nutritious food.	
PSO3		
PSO4	They will be get exposure to various technologies aspect of Food product preparation	

PSO5	They will demonstrate an ability to design or process food products as per the needs and specifications.
PSO6	They will demonstrate an ability to work in Food industries, research organization and
	teaching.
PSO7	They will demonstrate skills to use modern tools and equipment to analyze food prone infection
	and food spoilage.
PS08	They will demonstrate knowledge of professional and ethical responsibilities.
PS09	They will be able to understand economic importance of food products and food laws.
PS010	They will show the understanding of impact of technological solutions on the society and also
	will be aware of contemporary issues.
PS011	They will develop confidence for self-education and ability for life-long learning.

Continue adding rows till the POs are completely added

Course Out come (add sufficient Number of rows in each semester)

Semester	Course Code	Course Name	Course out come
		INTRODUCTION	
I	SDC1FP01	TO FOOD	The nature of food & its composition
		SCIENCE &	Able to analyze sensory evaluation of products using survey panels or consumers
		TECHNOLOGY	To understand sources of additives
			Information on different food journals which covers scientific and technological updates
			of food related things
			To study various research institutes advanced in area of food
		DC1FP02 FOOD CHEMISTRY	Understand the structure and functional properties of food nutrients.
	SDC1FP02		To get exposure on the importance of physico chemical properties in food products
			Knowledge on minor constituents and their relevance.
	SDC1FP03	FOOD	The students acquire information on the basic structure of microorganisms
	MICROBIOLOGY	Use of basic microbial methods or the evaluation microbial load	
			Knowledge on microbiological control
			Microbial monitoring of fermented foods

			Help to differentiate different type of contamination and various foods by different organisms.
	SDC1FP04 CEREALS, PULSES AND OIL SEEDS TECHNOLOGY	It will develop a critical understanding of the uniqueness of wheat as a cereal grain in the world food supply.	
			Students will learn to appreciate the complex nature of flour and the complexity of modern baking technology
			Students will develop competency to critically evaluate quality of product formulation and processing
II	SDC2FP05	TECHNOLOGY OF	An idea about fruits and vegetable classification
		FRUITS,	To understand sources of additives
		VEGETABLE PRODUCTS AND POST HARVEST MANAGEMENT	Information on different food journals which covers scientific and technological updates of food related things
			To study various research institutes advanced in area of food
III	SDC3FP09	BASIC FOOD QUALITY & SAFETY	Upon completion of this course students will be able to understand the importance of food safety and hygiene and can apply it at industrial level.
			Students will recognize the national and international standards and practices for food safety and can implement it at industries.
			Students can take new concept of food plant sanitation and apply them to another situation
			Students can implement the updated FSSAI act at analysis as well as production level.
			Students will get a knowledge about food adulteration
	SDC3FP10	BUSINESS MANAGEMENT	Understand the process of business management and its functions
			Familiarize the students with current management practices
			Understand the importance of ethics in current business
			To acquire knowledge and capability to develop ethical practices for effective management
	SDC3FP11	FOOD PRESERVATION	Helps to apply major food preservation techniques and explain underlaying principles

		TECHNOLOGY	Analyse and evaluate novel food processing method including non thermal food
			processing technique
			To get an idea about new product development.
			Students will develop an understanding of shelf life and nutritional consequences of preservation.
	SDC3FP12	FOOD PACKAGING	To study about food packaging, functions and properties
		TECHNOLOGY	To identify various kind of packaging materials
			To realize advanced packaging technologies
			To find out the importance of food labeling and standards
	SDC3FP13	DAIRY	
		TECHNOLOGY	To acquire knowledge about dairy products and their physico-chemical properties
			To obtain informations regarding with their processing methods
			To get details on dairy plant sanitation and hygiene
IV	SDC4FP14	SPICES & PLANTATION PRODUCTS TECHNOLOGY	To acquire information on the different spices and plantation products in food chain sector
			Acquiring knowledge on properties and processing of different spices, coffee, cocoa and tea.
			Exposure on the different products and application on available in the current food processing sector
	SDC4FP15	BEVERAGES TECHNOLOGY	Signify the importance of beverage in food industry
			Develop general knowledge on origin and economic status of beverage industry in India Lists various type of beverages
			Understand manufacturing process and quality evaluation of alcoholic and non-alcoholic beverages
			Familiarize brewing technology
			Optimize the idea on various water treatment process
			Understand quality standards of water

			Understand importance of fermentation and carbonation in beverage industry
	SDC4FP16	TECHNOLOGY OF ANIMAL PRODUCTS	Description of slaughtering methods
			Emphasize on curing methods
			Significance of animal byproducts and processing
			Understand preservation techniques of fish and egg
	SDC4FP17	FOOD ENGINEERING	Understand the application of food engineering during the handling ,processing, storage and distribution of food products
			Familiarize fundamental food engineering concepts and develop problem solving skill. Develop knowledge in different modes of heat transfer operations
			Understand rheological characteristics of food
			Familiarize working principle of heat exchangers, evaporators, driers and boilers.
			Comprehend the theories of refrigeration and freezing
			Understand concept of Pasteurization technique
V	SDC5FP19	FOOD BIOTECHNOLOGY	Have developed an understanding of the application of biotechnology in animal, plant and food production.
			Understand the principles of fermentation
			Understand how different biotechnology processes are applied to food product development
			Recognize the impact of biotechnological applications on food supply and consumer acceptance of food products.
			Apply microbiological and molecular biological techniques in food testing.
	SDC5FP20	FOOD TOXICOLOGY	The Awareness on the concept "food processing as a toxin generator".
			Familiar with their properties, modes of action of toxins.
	SDC5FP21	INSTRUMENTAL FOOD ANALYSIS	Exposure to various Instrumental analysis of foods which needed for statutory requirements

		& TECHNIQUES	
		-	Understand the relevance of each technique in the various types of food.
			Knowledge of operation and analysis through sophisticated instruments in the field of food processing to develop a better food analyst.
SI	DC5FP22	FOOD SAFETY REGULATION & STANDARDS	Exposure to various food safety management systems in the current scenario of food industries.
			Exposure on the various laws and regulations for self-establishment of the new food start-up
			Become an expertise food technologist in the area of an quality department of an food industry
SI	DC5FP23	FOOD SUPPLY CHAIN & MARKETING MANAGEMENT	Familiarize the new concepts of supply chain and special focus on the food supply chain system.
			To get knowledge food safety and quality is legally regulated during the distribution in the supply chain
			To initate the marketing management skills of students through various mediuem of marketing.
			Students will acquire knowledge on to market the food products.
SI	DC5FP24	FOOD QUALITY MANAGEMENT & AUDITING	Understand principles and methods of quality management
			Exposure on HACCP in different food processing
			Recognizing special establishment inspection in different processing units
			Identifying hazards and critical control points
			A clear idea about standards and specifications

