FOOD STANDARDS AND QUALITY CONTROL

Sem	Subject	Category	Lecture		Theory		Practical	Credits
	Code							
IV	19CPFN4A	Core Paper X	Hrs/sem	Hrs/Per week	Hrs/sem	Hrs/Per week		4
			105	7	105	7		

COURSE OBJECTIVES

To enable students

- A) To gain knowledge on food safety and food laws.
- B) To study about quality control and common food standards.

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level (K1-K4)	
CO1	Introduction to Food Quality Control	K1,K2,	
CO2	Government Regulations In Quality Control	K2, K3, K4	
CO3	Food Producs and Food packaging	K2, K3, K4	
CO4	General guidelines on Safety and Food Hazards	K2, K3, K4	
CO5	Food Adulteration and test for identification	K2, K3, K4	

Knowledge level: K1 – Remember, K2-Understand, K3- Apply, K4-Analyse.

MAPPING WITH PO

COS	PO1	PO2	PO3	PO4	PO5
CO1	M	M	S	S	S
CO2	M	M	S	S	S
CO3	M	M	S	S	S
CO4	M	M	S	S	S
CO5	M	M	S	S	S

S-Strong; M-Medium, L- Low

UNIT-I 21 Hours

QUALITY CONTROL: Objectives, Importance, functions of quality control, stages of quality control in food industry.

FOOD QUALITY ASSURANCE: Design of company quality assurance program, Microbiological concerns.

Managing quality in supply chain and marketing of food products.

UNIT-II 21 Hours

GOVERNMENT REGULATIONS IN QUALITY CONTROL: FAO/WHO codex Alimentarious commission, PFA, AGMARK, BIS, FPO, fair average quality (FAQ) specification for food grains, ISO 9000 series.

HACCP: Background, current status, structured approach, principles, benefits and limitation. Consumer Protection Act (CPA)

UNIT-III 21 Hours

FOOD PACKAGING: Food packaging and labelling various methods. Recent trends in Packaging and labelling.

CEREALS AND PRODUCTS - bread, biscuits, cakes products.

FRUITS PRODUCTS: Jam, juices, squashes, ketchup, sauce.

OILS AND FATS: Coconut oil, groundnut oil, gingelly oil, palm oil, sunflower oil, vanaspathi, Butter, ghee

MILK AND PRODUCTS: Skimmed milk powder, partly skimmed milk powder, condensed sweetened milk. Other products - coffee, tea, sugar, honey, toffees.

UNIT-IV 21 Hours

FOOD SAFETY: Meaning of food safety

IMPORTANCE OF FOOD: Quality and safety for developing countries.

PATENT: Definition, requirements, patent law in India, administrator, need for patent system, advantages, precautions to be taken by applicants, patent procedures, non-patentable. FOOD HAZARDS: Physical, Chemical, Biological hazards associated with food types. Effect of processing and storage on microbial safety.

UNIT-V 21 Hours

FOOD ADULTERATION: Adulteration of food - common adulterants and tests to detect common adulterants.

Distribution of Marks: Theory -25 (IA) +75 (univ. exam) =100 Marks

TEXT BOOKS:

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF
				PUBLICATION
1	Sivasankar, B	Food Processing and	Prentice Hall,	2013
		preservation 2nd edition	Pvt, Ltd	
2	Srilakshmi, N	Food Science	New Age	2002
			International	
			Private Ltd.	

REFERENCE BOOKS:

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF
				PUBLICATION
1	Swaminathan, M	Food Science, Chemistry	Варрсо	2004
		and Experimental Foods	Publishers	
2	Chandrasekhar, U	Food Science and	Phoenix	2002
		Applications in Indian	Publishing	
		Cookery	House Private	
			Ltd.	
3	Adams, M.R. and	Food Microbiology	New Age	2005
	Moss, M.O.		International	
			(P) Ltd.	
4	Fellow, P.	Food Processing	CRC Press	2000
		Technology – Principles	Woodland	
		and Practices	Publishers	
5	Sommers, C.H.	Food Irradiation	Blackwell	2006
	and Xveteng Fan	Research and	Publishing	
		Technology		

WEB SOURCES:

 $Link: https://webstor.srmist.edu.in/web_assets/srm_mainsite/files/downloads/april_2016_curriculum_syllabus_fsqm_m.tech_2015_16.pdf$

TEACHING METHODOLOGY

- Chalk and board teaching
- Study Assignment method
- Active learning method
- Group discussions
- PPT
- Seminars
- Other Group activity

SYLLABUS DESIGNER:

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