Course	Course Name	L-T-P-	Year of		
code		Credits	Introduction		
CH468	FOOD PROCESSING AND TECHNOLOGY	3-0-0-3	2016		
Prerequisite					
Course Obj	ectives				
• To familiarize the food industry					
• To identify the world and Indian food scenario					
To introduce various food preservation techniques					
To familiarize various food sources and their processing techniques					
Syllabus	TECHNOLOG	161			
General aspe	ects of food industry, world and Indian food needs,	various fo	od constituents and		
additives, food deteriorative factors and their control, Preliminary processing methods, food					
conversion techniques and equipment used. Food quality control and nutritive aspects,					
Various foo	d preservation techniques such as dehydration, st	erilization	and pasteurization,		
fermentation, cold treatment, irradiation, microwave etc. Production of various food materials					
and its proc	essing - cereals, pulses, vegetables, spices, fats and	d oils. Food	l industries - Diary		
products, me	eat, poultry and fish products. Beverage Industry-	Soft and A	coholic. Treatment		
and disposal	of food processing wastes				
Expected O	utcome				
The students will be able to apply					
i. The various food processing and preservation techniques and the equipment and					
technology required.					
ii. To familiarise various food industries and food quality aspects					
Keierence F	600KS	o main o Dert	T 4 J		
1. B.Sivasankar, Food Processing and Preservation, PHI Learning Pvt. Ltd					
2. Badger, W.L. Banchero, J.T., Introduction to Chemical Engineering, McGraw Hill 3. Food Industry Wastas: Disposal and Passyary: Harzka A & Pooth PG: 1081 Applied					
S. 1000 Scier	nce Pub Ltd.	I & Dootin	(C, 1901, Applied		
4. Hall	C.W. Farall A.W & Rippen A.L. Encyclopedia of F	ood Engine	ering, Van		
Nost	rand, Reinhold, New York.	6	6,		
5. Heid	J.L & Joslyn M.A, Fundamentals of Food Processin	ng Operatio	ons, AVI Pub.		
6. Unit	Operations of Chemical Engineering: McCabe, Sm	ith & Harrie	ot, TMH, 5th		
editie	n				
7. V. Sa	athe, A First Course in Food Analysis, New Age Int	ernational I	Pvt. Ltd. 1999		
8. Wast	on E.L., Elements of Food Engineering, Van Nostra	and, Reinho	old, New York.		

Course Plan					
Module	Contents	Hours	Sem. exam marks		
Ι	General aspects of food industry World and Indian food needs Various food constituents and additives Food deteriorative factors and their control	7 M	15%		
П	Preliminary processing methods Food conversion techniques and equipment used Food quality control and nutritive aspects	7	15%		
FIRST INTERNAL EXAMINATION					
III	Hot and cold preservation techniques Irradiation and microwave heating Fermentation and Pickling, packing methods	7	15%		
IV	Production and processing of cereals, pulses, Production and processing of vegetables, spices fats and oils	8	15%		
SECOND INTERNAL EXAMINATION					
V	Food industries - Diary products, meat, poultry and fish products	6	20%		
VI	Beverage Industry- Soft and Alcoholic. Treatment and disposal of food processing wastes	7	20%		
END SEMESTER EXAM					

Question Paper Pattern

Estd.

Maximum Marks: 100

Exam Duration: 3 Hours

Part A: There shall be Three questions uniformly covering Modules 1 and 2, each carrying 15 marks, of which the student has to answer any Two questions. At the most 4 subdivisions can be there in one main question with a total of 15 marks for all the subdivisions put together. (2 x15=30 Marks)

Part B: There shall be **Three questions** uniformly covering Modules 3 and 4, each carrying 15 marks, of which the student has to answer any **Two questions**. At the most 4 subdivisions can be there in one main question with a total of 15 marks for all the subdivisions put together. (2 x15=30 Marks)

Part C: There shall be **Three questions** uniformly covering Modules 5 and 6, each carrying 20 marks, of which the student has to answer any **Two questions**. At the most 4 subdivisions can be there in one main question with a total of 20 marks for all the subdivisions put together. (2 x20=40 Marks)