

FOUR YEAR UNDERGRADUATE PROGRAM 2024-28 FACULTY OF Home Science COURSE CURRICULUM

PA	ART A: Introduction				
Pro	ogram: Bachelor in Ho	me Science	Sei	Semester: V Session:2	
(De	egree/Honors)				
1	Course Code				
2	Course Title	Food Preservation			
3	Course Type	DSC			
4	Pre-requisite (if any)	As per Program			
5	Course Learning. Outcomes (CLO)	 To learn Basic Knowledge of Principles of Preservation. To assess Basic Knowledge of Asepsis, Temperature. To identify Basic Knowledge of Food Processing. To analyze Basic Knowledge of Traditional Foods. To apply Basic Knowledge of Effects of Food Storage. To classify Basic Knowledge of Dehydration and Pasteurization. 			
6	Credit Value	3 C 1 Credit = 15 Hours - learning & Observation			& Observation
7	Total Marks	Max. Ma	arks: 100	Min Pa	ssing Marks: 40

nit	Topics (Course Contents)	No. of Period
I	Food Preservation-Food and its preservation. Home and	12
	community level including commercial operations. Principles of food	
	Preservation. Causes of spoilage of food.	
II	Food Storage-Food Storage Principles -Plant product. Storage,	11
	Animal product Storage, Effects of Storage.	
	Canning-Principles and methodology.	
	Pasteurization- Principles & Methodology Effect on food quality.	
	Drying & Dehydration- Methods used and effect on food quality.	
III	Uses of low temperature- Refrigeration and freezing methods, Principles and applications. Shelf-life of frozen foods Pickling and Fermentation- Pickles, chutneys, ketchups sauces. Fermentation- Types, products and method, use	11
IV	ChemicalPreservatives- Preparation of Fruit, Juices, Squashes, FruitedSyrups, Cordials, Jam Jelly. Nutritional Implications of food processing- Causes for loss of Vitamins and minerals, Enrichment and Fortification	11
Keyword	ls: - Foodpreservation, Food Storage, Pasteurization, Drying&Dehydr	ation, Usesof lov
1 X C y W O I C	temperature, Pickling and Fermentation, Chemical Preservatives, Nutr	itional Implication
	of food processing.	

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PART C:

Learning Resources: Text Books. Reference Books, Other Resources

Text books Recommended -

1. Fruit and vegetable preservation, R.P.Shrivastava, 3rd Edition, CBS Publication,

2. Food processing and preservation, G.Subulakshmi, 2nd Edition, New age International Publication.

3. Food science, B. Shrilaxmi, 7th Edition, New age International Publication.

4. Food processing and preservation, DS Warris 1st Edition, CBS Publication.

5. Food processing and technology, Atul Agnihotri, 2nd Edition, Crescent publication.

- 6. Food processing, packaging, preservation and safety, R.D.Joshi, 3rd Edition, Agrotech press Publication
- 7. Handbook of Food Preservation, M.shafiur Rahman,5th Edition, CRC publication.

Online Resources:

· Food preservation

https://youtu.be/2PgVWLjK0gE

- Food Preservation Part II. Preservation by Chemical preservatives. https://youtu.be/HTletKeQx1g
- Food chemistry: preservatives & additives (beginners guide) https://youtu.be/9dhjmfdBQh8
- Physical and chemical methods of food preservation | Food and industrial Microbiology https://youtu.be/ItmBg5FBdRM

 Principles and methods of food preservation https://youtu.be/sE6ABn7qbmY

- CANNING: canning of fruits and vegetables. Types of cans process of canning. https://youtu.be/XKvo9 Jdjt4
- खाद्यपरिरक्षण //Food preservation https://youtu.be/WngqPRYWvAY

 Food Preservation Techniques? Definition, Principle, Physical & Chemical Methods https://youtu.be/M-5pgPzyCS4

 Chemical Preservation of Foods 1 Food Preservation Methods - Lesson 11 Food Processing Technology https://youtu.be/BQFC4APvqDo

 Food Preservation and Storage https://youtu.be/uRd3VzOfOJc

PART D:Assessment and Evaluation					
Suggested Continuous Evaluation Methods:					
Maximum Marks:	100 marks				
Continuous Comprehens					
Semester End Exam (SE	E): 70 Marks				
Internal Assessment: Continuous Internal Assessment (CIA)	Internal Test / Quiz(2) –20+20 Assignment/Seminar – 10 Total Marks–30	Better marks out of the two tests/ Quiz + Obtained marks in assignment shall be considered against 30 Marks			
End Semester Exam (ESE):	Two section $-A & B$ Section A: Q1. Objective $-10 \text{ x1} = 10 \text{ Mark}$; Q2. Short answer type- $5x4 = 20 \text{Mark}$ Section B: Descriptive answer type qts.,1 out of 2 from each unit- $4x10 = 40 \text{ Marks}$				

Name and Signature of Convener & Members of BOS

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FOUR YEAR UNDERGRADUATE PROGRAM 2024-28 FACULTY OF Home Science COURSE CURRICULUM

PART A: Introduction Program: Bachelor in Home Science				Semester : V	Session: 2024-25
_	ree/Honors)			4	
1	Course Code			HSSC – 14 P	
2	Course Title	Food Preservation (Practical)			
3	Course Type	DSC			
4	Pre-requisite (if any)	As per Program			
5	Course Learning. Outcomes (CLO)	 To learn Basic Knowledge of Principles of Preservation. To assess Basic Knowledge of Asepsis, Temperature. To identify Basic Knowledge of Food Processing. To analyze Basic Knowledge of Traditional Foods. To apply Basic Knowledge of Effects of Food Storage. To classify Basic Knowledge of Dehydration and Pasteurization. 			
6	Credit Value	1 C	1 Credi	it = 30 Hrs Laboratory/	Field learning/ Trainin
7	Total Marks	Max. Marks:	50	Min Pass	ing Marks : 20

Total No. of Teaching – learning / Performance Periods : 30 periods (30 hours)				
Module	Topics (Course Contents)		- Periods	
0	1.	PreparationofJam,Jellies marmalades.		
Lab/ Field Training/	2.	Preparation of Pickles & chutneys.	30	
Experiment contents of	3.	Dehydration of Vegetables & Fruits.		
the course	4.	Preparation of synthetic syrups& squashes.	ii ii	
	5.	Preparation of Sauces.		
	6.	Preparation of preserved foods by using chemical preservatives by using quantities suggested by FAD and to observe their shelf life.		
	7.	PreparationofPapad, Badi, Chips.	,	
	8.	Surveyofmarketproducts.		
	9.	Packaging technique		
	10.	Project- Survey of popular preserved foods in market		
Key Words	Preser	vation, Nutritive value, shelf life, Freezing,		

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Online Resources:

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- Food chemistry: preservatives & additives (beginners guide) https://youtu.be/9dhjmfdBQh8
- Physical and chemical methods of food preservation | Food and industrial Microbiology https://youtu.be/ItmBg5FBdRM
- Principles and methods of food preservation https://youtu.be/sE6ABn7qbmY
- CANNING: canning of fruits and vegetables. Types of cans process of canning. https://youtu.be/XKvo9_Jdjt4
- खाद्यपरिरक्षण //Food preservation https://youtu.be/WngqPRYWvAY
- Food Preservation Techniques? Definition, Principle, Physical & Chemical Methods https://youtu.be/M-5pgPzyCS4
- Chemical Preservation of Foods I Food Preservation Methods Lesson II I Food Processing Technology https://youtu.be/BQFC4APvqDo
- Food Preservation and Storage https://youtu.be/uRd3VzOfOJc

PART D: Assessment and Evaluation					
Suggested Continuous Maximum Marks: Continuous Internal As	ssessment (CIA): 15 Ma				
Internal Assessment: Continuous Internal Assessment (CIA)	Internal Test / Quiz (2) - 10 & 10 Assignment/Seminar+ Attendance - 05 Total Marks - 15		Better marks out of the two tests/ Quiz + Obtained marls in Assignment shall be considered against 15 Marks		
End Semester Exam(ESE):	Laboratory / Field Skill Performance : on spot Assessment A.Performed the task based on Lab work - 20 marks B.Spotting based on tools & Technology (written) - 10 marks C.Viva –voce (based on principle/ Technology) - 05 Marks				

Signature of Convener and Members (CBoS):

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