FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28) Department of Home Science Course Curriculum

	ogram: Bachelor in An ertificate / Diploma / Degr		Semeter – I/III/	V Sess	ion:2024-2025		
1	CourseCode	HSVAC-01					
2	CourseTitle	TECHNIQUES OF FOOD PRESERVATION					
3	CourseType	VAC					
4	Pre-requisite (if, any)	Asperrequirement					
5	CourseLearning.O utcomes(CLO)	 Understand the stages of sugar cookery, quality of pectin and acidity in the development of preserved food products Acquire skills to formulate food-based products Explore the principles of preservation in fruits and vegetables-based products Skills to prepare cereals and pulse based preserved products and develop new products with retention of quality 					
6	CreditValue						
7	TotalMarks	Max.Marks		MinPassingMa			
Total No. of Teaching-learn Unit To			(Course contents)	No. of Period			
	I Concept of Food Preservation	• 7 • F • F	mportance of Food Preservation, Types of Food spoilage by Micro By Enzymes Basic Principles of Food Preservat Food preservatives- Use of Salt, A natural food preservatives and artioreservatives	tion	08		
	II Preparation of deh products		Methods of drying &dehydration of driers, freeze drying- lyophilisa storage Drying methods. Preparation of salted, dehydrational Indian varieties of Khakharasetc and Masala Powde ginger powder etc) Hands on experience: Drying of potato, carrot, French beans, Edried vegetables, Drying &	rated, preserves chips, Papads, ers, onion, garlic, vegetables- peas,			

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III Preservation by Using		Role of Pectin in Preserved foods	08		
	Sugar	Sugar Concentrates – Principles of Gel Formation	(
		• Hands on Experience: Preparation of Jam, Jelly,	D 4 & 2		
	_ *	Marmalades, Sauce and Squash			
		 Preserves, Candied, Glazed, Crystallized Fruits, 			
	()	Toffee			
IV	Preservation by Using	• Preparation and Preservation of Fruit Juices, RTS	07		
- '	Chemicals and Salts and	 Pickling – Principles Involved and Types of 			
	Fermentation	Pickles			
		• Chemical Preservatives – Definition, Role of			
		Preservation			
	r	 Permitted Preservatives, FSSAI guidelines 			
		 Foods fermented by Yeasts 			
		Foods fermented by Bacteria			
	Preservation by Advanced	Freezing, Pasteurization, Food Irradiation,			
,	Preservation Technology	Canning and Bottling			
Keyword	Preservation, Spoilage, Canning, Pasteurization, chemical preservation, Crystalized and glazed fruit				
s	-				

PART-C: LearningResources

TextBooks,ReferenceBooksand Others

TextBooksRecommended -

 Srivastava R.P. (2012), Fruit and vegetable preservation – Principles and Practices, International Book Distributing Co., (IBDC), New Delhi.

Maria Parloa (2009), canned fruit, preserves and jellies: Household methods of preparation, US Department of Agriculture, Washington.

Shafiur, Rahman, M. (2007), Handbook of Food Preservation, 2nd edition, CRC press, New Delhi.

Online Resources-

- 1. food preservation: https://www.sciencedirect.com/topics/food-science/food-preservation
- chemical methods of food preservation: https://www.reagents.co.uk/blog/chemical-method-of-food-prservation/

3. Principle of the food processing& preservation- simple book Publishing: https://ebooks.infibnet.ac.in/ftp1/

Online Resources-

> e-Resources/e-booksande-learningportals

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PART -D: Assessment and Evaluation									
Suggested Continuou	ggested Continuous Evaluation Methods:								
Maximum Marks:	50	Marks							
Continuous Internal	Assessment(CIA): 15 M								
End Semester Exam(ESE): 35 N	1arks							
Continuous Internal	Internal Test / Quiz-(2):	10 & 10	Better marks out of the						
Assessment(CIA):	1		+obtained marks in Assignment shall be						
	Total Marks -	15	considered against	15 Marks					
End Semester	Laboratory / Field Skill	Performance: On	spot Assessment	Managed by					
End Semester	A. Performed the Task based on lab. work - 20 Marks			Course teacher					
Exam (ESE):	B. Spotting based on	as per lab. status							
	C. Viva-voce (based on principle/technology) - 05 Marks								

Name and Signature of Convener & Members of CBoS: