■ COURSE TITLE:- SPICE AND FLAVOR TECHNOLOGY ■ CREDITS:- 3(2+1)

## > THEORY

NO.	TOPICS	NO. OF
OF		LECTURES
UNITS		
1	Production and processing scenario of spice, flavour & plantation crops and its	2
	scope	
2	Major Spices:	2
	(1) Post Harvest Technology composition, processed products of following	
	spices	
	(2) Ginger	
	(3) Chill	
	(4) Turmeric	
	(5) Onion and garlic	
	(6) Pepper	
	(7) Cardamom	
	(8) Cashew nut, coco nut.	
3	Minor spices, herbs and leafy vegetables: processing and utilization, All spice,	5
	Annie seed, sweet Basil, Caraway seed, Cassia, Cinnamon, Clove, Coriander,	
	cumin, Dill seed	
	Fern seed nutmeg mint marjoram, Rose merry, saffron, sage	
4	Savory, Thyme, Ajowan, Curry leaves, Asafoctida	3
		2
5	Tea, Coffee, Cocoa: Processing quality control	2
6	Vanilla and annatto-processing	2
	, and an	_
7	Spice oil and oleoresins	2
8	Chemistry and physiology of taste, flavouring compounds in foods	3
9	Separation, purification and identification of natural flavouring materials	3
10	Synthetic flavouring agents and their stability	2
4.1		
11	Flavours of soft drinks, Baking and confectionery industry	2
12	Standards specification of spices and flavours	2
13	Packaging of spices and spice products	2
	TOTAL	32
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## > PRACTICALS

NO. OF UNITS	TOPICS	NO. OF EXPT.
1	Identification and characterization of flavouring compounds of spices	1
2	Oil determination of spices	1
3	Extraction of oil from clove, pepper, cardamom-chili	1
4	Extraction of oleoresins-Turmeric, ginger, pepper, clove	2
5	Piperine estimation in pepper oleoresin	1
6	Steam distillation of spices	2
7	Determination of curcumin content in turmeric	1
8	Chemical analysis of spices moisture, Volatile oil, specific gravity, refractive index, acid value	1
9	Study of standard specification of spices	1
10	Packaging study of spices	1
11	Preparation of curry powder	1
12	Preparation of Indian Masala for different foods	2
13	Visit to spice industry	1
	TOTAL	16

> Reference Books:

manafacture and uses.

■ Spices – vol. II Parry J. W.

■ Spice and condiments Pruthi J. S.

Herbs and spices Rosemery Hemphill

■ The book of spices Rosen garten, F. and Livington Jr.

Spices and herbs for the Food Inudstry
Lewies, Y.S.

■ Spices Vol. I and II; Tropical Agril. Series. Purseglove, J. W. Brown E. G., Green C. L. And Robbins SRJ.

■ Food Flavourings P. R. Ashust.

■ Food Flavouring composition, J. Merrory