Fotal Contact H	ours= 16 Total	Marl	ks= 5	500	-		Total C	redits= 14
Semester I		Contact		Max Marks		Total		
Subject Code	Subject Name		Hours				Marks	Credits
			Т	Р	Int.	Ext.		
CBCFS1-101	Bakery	4	0	0	40	60	100	4
CBCFS1-102	Confectionery	4	0	0	40	60	100	4
CBCFS1-103	Bakery Lab	0	0	4	60	40	100	2
CBCFS1-104	Confectionery Lab	0	0	4	60	40	100	2
CBCFS1-105	Industrial Training (Training Project Report +Log Book & Certificate from Hotel + Viva & Presentation)	0	0	0	60	40	100	2
	Total	8	0	8	260	240	500	14

The students have to complete Industrial Training (Training Project Report +Log Book & Certificate from Hotel) of **8 weeks** in a three star or above category and evaluation will be done by the institute on the basis of presentation as well as viva-voice.

# **Overall Marks** / Credits

Semester	Marks	Credits
1 <sup>st</sup>	500	14
Total	500	14

	BAKERY	
Subject Code: CBCFS1-101	LTPC	Duration: 60 (Hrs.)
	$4 \ 0 \ 0 \ 4$	
Course Objectives		
•	nowledge of scope of baker	ry and confectionary, terminolog
	ation chart of bakery.	y and confectionary, terminolog
, 6	2	es of flours, their composition ar
functional propert		es of nours, then composition at
		ed in bread making and effect
processing conditi	-	ice in bread making and effect t
		f ovens, methods of bread makin
and characteristics		i ovens, methods of bread makin
Course Outcomes	, or a good bread.	
	of soons of heltows and son	fectionary, terminology used, ar
		needonary, terminology used, af
organization chart of 2 Eamiliarizing students		s, their composition and function
properties.	, with different types of flour	s, then composition and function
1 1	of various ingradiants used	l in bread making and effect
processing conditions		i in bread making and effect
1 0		ens, methods of bread making ar
characteristics of a go		ens, methods of bread making a
characteristics of a go	od bread.	
	UNIT-I (15 Hours)	
Introduction: Scope of Bakery & Cor		rganisation chart of Bakery. Whe
and Different types of flours availab		
power of flour, Gluten, diastatic capa		
I. unit; 171 QC /g / lb serving size		I BARA
	UNIT-II (15 Hours)	
Raw material required for bread mak	ing: Role of flour, water, and	d yeast, salt - Sugar, milk and fat
Yeast an elementary knowledge of B	aker's Yeast, the part it play	s in the fermentation of dough an
conditions influencing it's working.	Effect of over and under fe	rmentation and under proofing
dough and other fermented goods		
	UNIT-III (15 Hours)	
Oven & Baking: Knowledge and wo	rking of various types of ove	ens. Baking temperatures for brea
and confectionery goods. Methods o	f bread making: Straight do	ugh method. delayed salt metho
No time dough method. Sponge a	nd dough methods. Charac	teristics of good bread: Extern
characteristics; Volume, symmetry of		
and elasticity. Bread faults and their		-
Bakery layout: The required approva	UNIT-IV (15 Hours)	Government procedure and Py
laws. Selection of site, Selection of material of finished products.	equipment, Layout design, I	Electrony, Quanty control of ra
malerial of unisped products		

### **Recommended Text Books / Reference Books:**

- 1. Hui, Y. H., Corke, H., De Leyn, I., Nip, W. K., & Cross, N. A. (Eds.). (2008). Bakery products: science and technology. John Wiley & Sons
- 2. Khetarpaul, N. (2005). Bakery science and cereal technology. Daya Books.
- 3. Rosentrater, K. A., & Evers, A. D. (2017). Kent's technology of cereals: An introduction for students of food science and agriculture. Woodhead Publishing.
- 4. Kulp, K., & Lorenz, K. (Eds.). (2003). Handbook of dough fermentations (Vol. 127). Crc Press.

### CONFECTIONARY

LTPC

### Subject Code: CBCFS1-102

# 4 0 0 4

### Duration: 60 (Hrs.)

### **Course Objectives**

- 1. To impart knowledge about different types and ingredients required for cake making.
- 2. To create the awareness about various methods required for cake making.
- 3. To understand the different types of yeast used in cake making and their role.
- 4. To create the awareness about working of various types of baking oven.

### **Course Outcomes**

- 1. Imparting knowledge about different types and ingredients required for cake making.
- 2. Creating the awareness about various methods required for cake making.
- 3. Understanding the different types of yeast used in cake making and their role.
- 4. Creating the awareness about working of various types of baking oven.

# UNIT-I (15 Hours)

Ingredients used in cake making, types & varieties, flour, sugar, shortening-fats and oil, egg, moistening agent, leavening agents.

# **UNIT-II** (15 Hours)

Cake making methods sugar butter process, flour butter process, genoise method, blending and rubbing method, basic pastries pastry making, principles & derivatives.

# UNIT-III (15 Hours)

Characteristic of cakes, balancing cake formula, external characteristics internal characteristics, cake faults and remedies. chocolate identify different forms in which coco and chocolate are available. explain the process of chocolate tempering chocolate designs, garnishes and presentations.

# **UNIT-IV (15 Hours)**

Preparation of cookies and biscuits. factors affecting the quality of biscuits / cookies various types ice creams and bombs, storage of confectionery product.

### **Recommended Text Books / Reference Books:**

- 1. Junit, N. A., Nik Omar, N. N. A., Zakaria, M., & Mohamed, N. N. (2003). Suria Bakery & Confectionary.
- 2. Ashokkumar Y. (2019). Textbook of bakery and confectionary (Second Edition)
- 3. Hartel, R. W., Joachim, H., & Hofberger, R. (2018). Confectionery science and technology (Vol. 536). Berlin/Heidelberg, Germany: Springer.

BAKERY LAB

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4. Khetarpaul, N. (2005). Bakery science and cereal technology. Daya Books

Subject Code: CBCFS1-103	

Duration: 60 (Hrs.)

### **Course Objectives**

1. To familiarize the students with different equipment used in bakery industry

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- 2. To aware the students with different categories of bakery products and their possible uses.
- 3. To aware students about functions of various ingredients used in bakery products
- 4. To Provide knowledge about the development of various bakery products

# **Course Outcomes**

- 1. Familiarizing the students with different equipment used in bakery
- 2. Aware the students with different categories of bakery products and their possible uses.
- 3. Students will understand about functions of various ingredients used in bakery products
- 4. Providing knowledge about the development of various bakery products

# PRACTICALS

- 1. Introduction to ingredients / equipment identification and uses of equipment —large, small and utilities.
- 2. Ingredients: Types of flour, sugar, nuts and dry fruits, shortenings, leavening etc,
- 3. Mixing methods: Basic steps involved in mixing ingredients, kneading, stirring, whipping, creaming etc.
- 4. Simple yeast fermented products: Bread Sticks, bread rolls, hand and soft rolls, sour dough etc
- 5. Flavoured breads: Basic buns, fruit buns, hot cross buns, rich yeast fermented breads brioche, Fermented doughnuts, baba au rhum, savarin
- 6. Bread loafs: Milk bread, bread loaf, currant oaf, whole meal bread, masala bread, raisin bread
- 7. Laminated yeast breads danish pastry croissants burger buns, pizza base.

_	t Code: CBCFS1-104 Objectives	L 0	Т	Р	С	Duration: 60 (Hrs.)
Course	Objectives	0			U	
Course	Objectives	0	0	4	2	
	1. To aware Students	about manufa	ictu	ring	g of c	confectionary products.
				-		onfectionary products.
	3. To understand the r	node of work	ing	in iı	ndus	strial setup as an individual and as a team
	4. To impart knowled	ge of various	typ	es o	of pa	ckaging materials used for confectionary
Course	Outcomes					
						ng of confectionary products.
		1 21				confectionary products.
	_		-			strial setup as an individual and as a team
	4. Understanding of v	arious types of	of p	ack	agin	ng materials used for confectionary.
		Pl	RAC	CTI	[CA]	LS
1.	Basic Cake Making: Plair	Sponge Ma	deir	a c	ake,	Rock cake, Fruit cake, Fatless sponge
	Swiss rolls, Genoise spong	e				
	-					iping biscuits, cherry knobs, langue chat
						melting moment, macaroons, tricolour
		biscuits, nan-	kha	itai,	sho	ort bread biscuits, Ginger biscuits, cheese
	biscuits, cream fingers.					
	-					ist pastry jam tart, Lemon curd tart Apple
	-	-	-			olate eclairs, Profit role Cream puff, Puf
						, chicken patties Mutton patties, Cheese
	-				lle l	Feuillet, Jalousie, Creams Horns Apple
	Strudel Filo or phyllo pasti					
					-	utter cream icing, royal icing, gum paste
	marzipan, marshmallow, le	-		-		
						Chocolate dippings, Cheese cake, Baba
		ntilly, merin	gue	s c	nant	tilly. Madeline cake Pineapple pastry
	chocolate pastry.				. <b>f</b> .	the set of the Development of th
						chocolate. Established industry standards
		-			-	fillings. show pieces, stencils, chocolate
		e			0	hand-dipped. candies, molded bonbons achine, Clean and store chocolate candy
	moulds and other, Equipme			-	-	-
						ugars at various stages of the cooking and
	•	-	-	-		, caramelized sugar, Casting of sugar
						yal icing Produce sugar confectioners.