

Department of Liberal Education Era University, Lucknow Course Outline

Effective From: 2023-24

Name of the	RA/RSc/LIRFR/	I FDUCA	TION)	Year/ Semester:	2r	d / 6 th	
Program	B.A. / B.Sc. (LIBERAL EDUCATION)			rear/ Semester.	3· · · / 0···		
Course	Food Product	Course	NH305	Type:	Т	heory	
Name	Development	Code:	111303	Type.	1	ncor y	
Credits)4		Total Sessions Hours:	45	Hours	
Evaluation	Internal	40 Marks		End Term Exam:	35 Marks		
Spread	Continuous	10 10	141143	Ena Term Exam.	55 Warks		
oprond 	Assessment:						
Type of		_		_			
Course	C Compulsory	Core		C Creative	C Life Skill		
Course	1. To provide	students v	vith a firm	understanding of Food I	Product D	Development,	
Objectives	Specifically	:					
				arize students with the pr			
				ent including preliminary			
	1 7 1	•	t, product	testing and the formal p	resentatio	on of a new	
	product dev				_		
				nce of teamwork, produc			
				ology, ingredient interaction	on and ho	w to conduct	
	and termina	te a project	in an order	ly manner.			
C	(CO)(CO)	1	.C. 1		:11 1 1 .		
attributes:	comes(CO): After to	ne success	ful course	completion, learners wi	iii aeveid	op following	
Course							
Outcome	Attributes						
(CO)	1 Kti ibutes						
CO1	Design a food product through the application of knowledge of food ingredients and						
	functional foods;						
CO2	As part of a team, create and evaluate a product using the development process;						
CO3	Design and apply packaging for food products;						
CO4	Evaluate product quality and sensory properties.						
Pedagogy	Interactive, discussion-bases, student-centered, presentation.						
Internal	Mid-term Examination: 20 Marks						
Evaluation	Class test: 05 Marks						
Mode	Online Test/Objective Test: 05 Marks						
	Assignments/Presentation: 05 Marks						
G .	Attendance: 05 Marks						
Session Details			Topic		Hours	Mapped	
Details Unit 1	Introduction to I	Tood Dung	duet Dave	lanmente New Dradust	15	CO 1	
Unit 1		ges in Pr	oduct Dev	lopment: New Product elopment, Methodology roduct Launch	15	CO1	
		-		Secondary Processing,			
	Tertiary Processing, Need for Food Processing, Emerging Trends & Constraints in Processing sector, Limiting Factors in processing						
	industry in India.						

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Unit 2		Food Additives & Preservatives: E number, Acidulents, Acidity 10 CO2, CO4 Regulators Anticaking Agents Antifoaming & Foaming Agents												
		Regulators, Anticaking Agents, Antifoaming &Foaming Agents, Antioxidants, Food Coloring, Artificial Coloring, Emulsifiers,												
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							enefits o				ipes,			
		Recip	e Writi	ng Styl	es, Pha	ses of R	Recipe S	tandar	dizatior	1.				
Unit 3				0	_		Labell	_			_	10	C	О3
				_		_	nteracti							
			_			~ ~	Materia							
							&Proc	essed	Foods,	, Packa	ging			
		_	nics, La	_			ts: Mod	as of T	Francisco	rt Vin	de of			
							rtation,							
		Safety	•	voiuno	/II OI .	ranspo	rtation,	1 000	Trans	portatio	11 &			
Unit 4				rice fo	r the	Produ	ct: Proc	luct C	ost, St	ep by	Step	10	С	O4
							a Produc		,	1 ,	1	10		
		Adve	rtising	&Ma	rketing	g: Bas	ic Tecl	nnique	s in A	Adverti	sing,			
				_			r Adver	_			_			
		_			ing, Su	ccess o	f Food	Market	ting, Co	onsider	ation			
			Marketi	_	17	D 1	· · ·	. Edd v	г	1 04 1	1			
				FSSA	, Key	Regula	tions of	F55A	1, F000	Stand	ards,			
		AGM	AKK											
CO DC) and E	SO M	annina											
CO-PC	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	101	102	100	101	100	100	3	100	3	1	1500	1501	1505	1500
CO2 CO3					2	2	2	2		1	2	3		2
CO4	1		2		2		2	1				2		2
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Sugges										-				
Text- F	Books			_			provide	-		-				
		1. Fuller, Gordon W. 2004. New Product Development- From Concept to Marketplace CRC Press.						tplace,						
2. Graf, E. and Saguy I.S. (1991). Food Product Development: From co							oncent	to the						
Market Place, New York: Van Nostrand Reinhold.						1 TOIII C	concept to the							
Refer	Reference 1. Anil Kumar, S., Poornima, S.C., Abraham, M.K.& Jayashree, K.200-							.2004.						
Books Entrepreneurship Development. New Age International Publishers.						, 11	,							
		2. Moskowitz, Howard and Saguy ,R. I. Sam 2009. An Integrated Approach to New												
Food Product, CRC Press. 3. Man, C.M. D. and James, A.A. (1994). Shelf life Evaluation of Foods. B														
							Blackie							
		Academic and Professional, London:							Б 1					
		4. Olickle, J. K. (1990). New Product Development and value added. Food Development Division, Canada: Agriculture.												
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		Unit 2:												
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		https://www.youtube.com/watch?v=H9FYKv01JVM												
		Unit 3:												
	https://www.youtube.com/watch?v=9oPg2g7TF1U https://www.youtube.com/watch?v=vCkZdWx79TE													
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Recapitulation & Examination Pattern						
Internal Continuous Assessment:						
Component	Marks	Pattern				
Mid Semester	20	Section A: Contains 10 MCQs/Fill in the blanks/One Word				
		Answer/ True-False type of questions. Each question carries 0.5				
		marks.				
		Section B: Contains 07 descriptive questions out of which 05				
		questions are to be attempted. Each question carries 03 marks .				
Class Test	05	Contains 05 descriptive questions. Each question carries 01				
		mark.				
Online Test/ Objective	05	Contains 10 multiple choice questions. Each question carries 0.5				
Test		marks.				
Assignment/ Presentation	05	Assignment to be made on topics and instruction given by subject				
		teacher.				
Attendance	05	As per policy.				
Total Marks	40					

Course created by:	Dr. Shazia Fatima
	Dr. Pooja Verma

Signature:

Approved by: Prof. Afrozul Haq

Signature: