



(An Autonomous Institution)
TVR NAGAR, ARUPPUKOTTAI ROAD, MADURAI – 625 022



ANNUAL QUALITY ASSURANCE REPORT

2020 - 21

Teaching Plan

B.Sc., Food Science and Processing Management

2020 - 21

COURSE PLAN ODD 2020-21

SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE DEPARTMENT OF FOOD SCIENCE AND PROCESSING MANAGEMENT ACADEMIC YEAR 2020-2021 (ODD) PREAMBLE

No.	Course Code	Course Name	Faculty In-Charge
1.	20UT 101	Tamil I	Ms.R.Sailakshmi
2.	20UH101	Hindi I	Mrs.S.Neela
3.	20UGE102	General English I	Mr.V.V.Sundaram
4.	20BF103	Fundamentals of Nutrition	Mrs.P.Deepalakshmi
5.	20BF104	Principles of Food Science	Mrs.P.Deepalakshmi
6.	20BF105	Allied : Food Chemistry	Mrs.M.Venkatasubbulakshmi
7.	20BF106	Basic Food Preparation Practical	Ms.A.Sona
8.	20BF107	Principles of Food Science Practical	Mrs.P.Deepalakshmi
9.	20VE109	Value Education	Ms.A.Sona
10.	1907301	Tamil III	Ms.R.Sailakshmi
11.	And a section was a first product of the second section of the se	Hindi III	Mrs.S.Neela
12.	19UGE302	General English III	Ms.T.Sridevi
13.	A STATE OF STREET STREET, STREET STREET, STREET STREET, STREET	Cereals, Pulses and Oilseeds Processing	Ms.A.Sona
14.		Fruits and Vegetables Processing	Mrs.P.Deepalakshmi
15	A STATE OF STREET AND ADDRESS OF THE PARTY O	Allied: Bakery and Confectionaries	Mr.K.Perumal Kannan
16		Cereals & Pulses Practical	Ms.A.Sona
17		Allied: Bakery and Confectionaries	Mr.K.Perumal Kannan
18	. 19BF304	Food Additives	Mrs.M.Venkatasubbulakshmi
15	And the second s	Food Safety and Hygiene	Mrs.M.Venkatasubbulakshmi
20		Non Major Elective: Meal Planning & Balanced diet	Mrs.P.Deepalakshmi
2	1. 1900307	Non Major Elective: Banking Practice	Mr.R.Dhamodharan
2	2. 18BP501	Food Design	Mrs.P.Deepalakshmi
2	3. 18BF502	Food Entrepreneurship	Mrs.M.Venkatasubbulakshm
2	24. 18BF503	Allied: Food Regulations and Plant Management	Ms.A.Sona
-	25. 1881/504	Food Design Practicals	Mrs.M.Venkatasubbulakshm
	26. 18CRT509	Campus Recruitment Training - III Practical	Mr.Sivakumar

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	SUBBAL	AKSHMI LAKSH	MIPATHY COLLEG	E OF SCIENCE			
	<u>(</u>	COURSE PLAN –	2020 – 21 (ODD SEMI	ESTER)			
Name of the P	Programme :	All First Year (I	Except F&IS)				
Title of the Co	ourse :	TAMIL		Course Code:	20UT10	1	
Year / Semest	er:	2020-2021/1	Section:	Total No. of St	udents:		
No.of Credits:		3 Total		Total no. of Co	ntact hou	rs:50	
S. No	Торіс	Reference / text Book Page No.	Teaching Aids	Mode of Deli	Cumulative Hours		
		T 12 / R 04		L	T	P	
	1	1	Unit I				
1	00000000 - 00000000 - 000000 00000.	R1-1,2/R2- 154/R3-74	ВВ	2	2		4
2		R1- 5,6/ R3-50 /R4- 68	BB	2	2		4
3	0000000.	R1-6/ R5 - 1	BB	1	1		1
	•	•	Unit II		•	•	•
4	0000 - 0000000 00000,	R1-7/R6 -13/48		1	1		2

5		R1-8/ R7-26	BB	1	1	2
		111 0/ 11/ 20	22	_		_
	;).					
	"					
6		R1-10/ R8- 99	BB	1	1	2
	00.0000-					
	(00000000000000000).					
7		R1-8/ R9-121	BB	1	1	2
'		K1-8/ K9-121	DD	1	1	<u> Z</u>
	00000000000 (000000					
	00000000000).					
	,					
8	00000 000000-	R1-20/ R10-38	BB	1	1	1
O	0000000000000	K1-20/ K10-30	DD	1	1	1
	00000 10 00000					
			Unit III			
9		R1-22/R11- 29	BB	1	1	2
	000000000000000000000000000000000000000					
10	0000000-	R1-41/R12-61	BB	1	1	2
10	00000000.	1X1-71/1X12-V1	עע	1	1 1	4
11		D1 22/D 12 47	n n	1	1	2
11		R1-22/ R 13-47	BB	1	1	2

12		R1-29/R12-92	BB	1	1	2
	000.000.0000000-					
	0000000000.					
13		R1-66/ R12 -60	BB / PPT	1	1	1
			Unit IV			
14	ആ ത് വാവാവാവവു ക്കും	R1-76/R14- 236	BB	2	2	4
	் 🗆 🗆 🗆 🗆 🔻 பார்க்கிற பார்கிற பா					
	00000000.;					
15		R1-79/ R14 -	BB	2	2	4
	- 0000000	264	DD	_	_	-
	000000,0000000	201				
	0000 000000.					
16	000000000000000000	R1-84/R14 -403	BB	1	1	1
			Unit -V			
17		R1-91/R15-258	BB	1	1	2
1/	0000000000000	1X1-71/1X13-230	υυ	1	1	<u> </u>

* L - Lecture 7	00000000000000000000000000000000000000	gilg;ghw;wy;	ВВ	3	3		5	
		gilg;ghw;wy;	BB	3	3		5	
		gilg;ghw;wy;	BB	3	3		5	
		gilg;ghw;wy;	BB	3	3		5	
* L - Lecture 7							5	
* L - Lecture 7								
* L - Lecture 7								
* L - Lecture 7								
	T - Tutorial (Problems / Example Pro	grams / Revision C	classes) P - Practical					
* LCD / PPT /	Black Board (BB) / Worksheet(WS)	/ Video (V) / Grou	n Discussion (GD) / Rlen	ded & Flinned (F	I 3F) / Onen	educationa	l resources	
	hat are freely accessible, Google tool							
	ools may also be included.		,, 000810 2 000 (02 0), 011		(32) 4114 11		(· · 2), · · · · · · · · · · · · · · · · · ·	
	eviation in the teaching aids column]							
COURSE PLAN FOR CONTENT BEYOND SYLLABUS								
SI.NO	Module	Lecture	Planned Topics	Date	Time	Total		
						No of		
						Hours		
						Allotte		
						d		
1	1	Lecture 1						
1	1	Lecturer						
		Lastura						
2		Lecture2						
		T						
3	2	Lecture1						
			†					
	Gaps in the Syllabus –T	o meet Industrial						
	eviation in the teaching aids column]		Planned Topics	Date	Time	Hours Allotte		

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) /						
				Hours beyond the Time Table (HB)						
1		Assignment		3						
2		Seminar	3							
3		Peer teaching	2							
Reference Bo	ooks									
R1										
R2	00000000.000000000				0. Print.					
R3	00000000000000000000000000000000000000									
R4	Print.		1000000.00000	: 00000000		□, 1995				
R5	00000 00000 00000000000000000000000000	00000.000	10000.00000:000			1995				
R6				199	7 Print.					
R7	0000.00000.000000000000000000000000000									
R8)2. Print.	1				
R9	00.000000.0000000+00									

R10									
	00000000.000000 L	+ 000000000000000000000000000000000000	<u> </u>			2007. Print.			
R11									
R12	000000000.000.00		300000 0000000000000000000000000000000						
R13									
R14 R15	□□.□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□								
R16	000000000.0000000000000000000000000000								
	00.0000000.000000000000000000000000000								
E – Books	 /Library INFLIBNET RESOUR	CES							
E1	N/A								
Topics bey	ond Syllabus N/A								
PORTION	FOR EXAMINATION								
Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage (to be decided by the Department)						
1.	SLIP / CLASS TEST	Unit/Portion to be decided by the Course	15%						
		Teacher and the HoD							

2.	I INTERNAL	UNIT - I, II, V	50%		
3.	II INTERNAL	UNIT - III, IV, V	50%		
4.	Summative Examination	ALL FIVE UNITS	100%		

Desi	gnation	Prepa	ared by		
		Name	Signature	Date	
Course Coordinato	r / In-charge	Mrs.H.Geetha			
Programme Coordinator		Mrs.N.Selvi			
		Approved by			
	Name	Signature			
HoD	Mrs.N.Selvi		Date		
Dean Academics	Dr.S.Priya				
Principal	Dr.R.Sujatha				

	SUBBALAKSHMI LAKSHMIPA						
Name of the Programm	<u>COURSE PLAN – 2020 –</u>	21 (ODD SEMESTE	<u>(K)</u>				
Title of the Course:	Hindi I		Course Cod	la: 2011H1	Λ1		
Year / Semester: I YE			Total No. of Students:13				
No. of Credits: 3	THE TOURS TEXT		10001110.01	Statents			
S. No	Торіс	Reference / Text Book Page No.	Mode of Delivery No. of Hours			Cumulative Hours	
			L	T	P		
	Unit	I					
1	□□□□□ – peshevar.	R 1-4 / T1-79&80	2	1			
2	□□□□□□□□□□□ - dakoo say mahatma	R 1-7 / T1 -87	2	1		9	
3	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	R 1-9 / T1-93	2	1			
	Unit	II	•	.		,	
1		R 1-11 / T2-104	2	1			
2	□□□□□□□□□□□ - sowdagar aur baloo.	R 1-12/ T2-105				9	
	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		2	1			
3	□□□□□□□□□ - Dharji aur haathi	R 1-13/ T2- 116&117	2	1			

1	pages 1 to 10	R 1-14 to 30 / T3- 5 to 32	2	1	9						
2		R1-31	2	1	9						
3		R1-32	2	1							
Unit IV											
1	- Doctor and a patient.	R 1-33 / T4-222	2	1							
2	buyer. Down and Auto man.	R 1-34 / T4-223	2	1							
3	- Customer or Fruit seller and vegetable seller.	R 1-35 / T4-224	2	1	9						
	Unit	<u> </u> √									
1	fruits and vegetables.	R 1-35&36	2	1							
2	□□□□ - Names of condiments.	R 1-37	2	1	9						
3	□□□□ - Numbers - 1 to 50.	R 1-37 & 38	2	1							
* L - Lecture T - Tutori	al (Problems / Example Programs / Revision Classes)	P - Practical									

COURSE PLAN FOR CONTENT BEYOND SYLLABUS								
SI.NO	Module	Lecture	Date	Time	Total No of Hours Allotted			
1	1	Lecture1						
2	2	Lecture2						
3	3	Lecture3						
4	4	Lecture 4						
	·							

	Gaps in the Syllabus –To meet In	dustrial Requirements				
SL. NO	Name of the Topic	PROPOSED ACTION	Hours with in the Time Table (HT) /			
			Hours beyond the Time Table (HB)			
1	Framing words and sentences	Assignment	3			
2		Seminar				
3		Peer teaching				
4	NA	Industrial Visit	NA			
	tle differs for each Programme, Kindly use the University Nominees and Experts last time]		A etc) applicable for your doma	in. This		
	Ref	erence Book				
R1	A Complied book, covering all the topics	s of the syllabus prepared by	y the Department of Hindi.			
		ext Books				
T1	00000000000000000000000000000000000000		- 518			
T2						
	2010: 0000000 0000000000000000					
Т3		•				

T4	T4						
Sl. No.	Proportion (Portion) in Percentage (to be decided by the Department)						
1	SLIP / CLASS TEST	UNIT - I	15%				
2	I INTERNAL	UNIT - I, II, V	50%				
3	II INTERNAL	UNIT - III, IV, V	50%				
4	Summative Examination	ALL 5 UNITS	100%				

Prepared by				
Designation		Signature	Date	
Course Coordinator / In-charges	C NIDIDI A			
Programme Coordinator	S.NEELA			

Approved by							
	Name	Signature	Date				
HoD	Mrs.S.Neela						
Dean Academics	Dr.S.Priya						
Principal	Dr.R.Sujatha						

COURSE PLAN - 2020 - 21 (ODD SEMESTER)

Name of the Programme: B.Sc. (MCHM, CS, NW, Viscom, Animation, Fire & Industrial Safety, Food Science & Processing Management)

	Title of the Course : General En	nglish- I		Course Code: 20UGE102
Year / Semester: I YEAR/ I SEMESTER		Section:	Total No. of Students:	
No. of Credits: 3			Total no. of Contact hours: 45	

Course Teacher (s) Name: Mrs.R.Suganthi Hepzibha, Dr.S.priya, Ms.T.S.Sridevi, Mr.C.Senthilkumar and Mr.V.V.Sundaram

S. No	Торіс	Reference / text Book Page No.		Teaching Aids	N		Delivery Hours	Cumulative Hours	
		T1/1	R 04		L	T	P		
	Unit I								
1	Kinds of Sentences	R1-1 / R 06, 03	BB	2		1			
2	Parts of Speech	R1-3 / R 06, 03	BB/PPT/	/V 2		1		9	
3	Tenses, Verbs and Modals	R1-6 / R 06, 03	BB	2		1			

				Unit II			
1	My Financial Career - Stephen Leacock	R1-12	BB/V	3			
2	Tattered Blanket - Kamala Das	R1-20	BB/V	3			9
3	The Antidote - R.K. Narayan	R1-25	BB/V	3			
				Unit III			
1	Etymology	R1-31	PPT	2	1		
2	Synonyms& Antonyms	R1-33	PPT	2	1		9
3	Homophones & Homonyms	R1-35	PPT	2	1		,
	•	Į.		Unit IV			
1	Sonnet 18	R1-38 / R 04	BB/PPT	3			
2	Sonnet 55	R1-42 / R 04	BB/PPT	3			9
3	Sonnet 116	R1-45 / R 04	BB/PPT	3			
				Unit V			
1	Letter Writing (Formal and Informal)	R1-47 / R 06, 05	BB/WS	2	1		
2	E-mail Writing (Formal and Informal)	R1-51 / R 06, 05	BB/WS	2	1		9
3	Reading Comprehension	R1-54 / R 06, 05	BB/WS	2	1		
• L - L	ecture T - Tutorial (Problems /	Example Pro	grams / Revisio	on Classes) P - Pr	l l ractical	
			T.	ext Books			
T1	Congred English I. A. Commilia	ad book acre				nuanarad by the D	apartment of English
11	General English-I, A Complied book, covering all the topics of the syllabus prepared by the Department of English.						

			Refe	rence Books			
R1	Dr.K.Alex. Soft Skills. Nev	v Delhi: S.Chan	d& Company	Ltd, 1997. Print.			
R2	Dr. Gupta C.B. Business Correspondence & Reporting -Business Law, Business Correspondence & Reporting (CA-						
	Foundation). New Delhi: T						
R3				Composition . Bangalore: Emerald Publish	er, 1998. Print.		
R4				an India Limited, 1994. Print.			
R5				k Brothers & Co. Ltd, 2004. Print.			
R6	Wren & Martin. High School	ol English Gran	nmar & Con	nposition. India: S.Chand & Company Ltd,	1995. Print.		
Web Re	esources						
W1	https://www.enotes.com/top	ics/my-financial	-career				
W2	http://tatteredblanket.blogsp						
W3				8-shall-i-compare-thee-to-a-summers-day			
W4				5-not-marble-nor-the-gilded-monuments			
W5	https://www.sparknotes.com	-	eare/sonnets/	sonnet_116/			
	oks /Library INFLIBNET R						
E1	https://nlist.inflibnet.ac.in/se						
E2	https://nlist.inflibnet.ac.in/se						
E3	https://nlist.inflibnet.ac.in/se	earch/Record/EB	<u>8C1864716</u>				
	the Syllabus						
SL. NO	Name of the Topic	PROPOSE D ACTION	No of Hours	Hours with in the Time Table (HT) /			
			Allotted	Hours beyond the Time Table (HB)			
1	Essay Writing on Subjective Topics	Assignment		3			
2	Extempore	Seminar	3				
3	On Any Modules	Peer teaching	2				
4	NA	Industrial Visit	NA	NA			
Propose	ed Actions can be Assignment	s, Seminars, Pe	eer Teaching,	Industrial Visit, Others (if any)			

COURSE PLAN FOR CONTENT BEYOND SYLLABUS						
SI.NO	Module	Lecture	Planned Topics	Date	Time	Total No of Hours Allotted
1	1	Lecture 1	Newspaper/Articl e reading			
2	2	Lecture 2	Collecting & Reporting News			
3	3	Lecture 3	Learning a New Word Everyday			
4	4	Lecture 4	Public Speaking			

	PORTION FOR EXAMINATION					
Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage (to be decided by the Department)			
1	SLIP / CLASS TEST	UNIT - I	15%			
2	I INTERNAL	UNIT - I, II, V	50%			
3	II INTERNAL	UNIT - III, IV, V	50%			
4	Summative Examination	ALL 5 UNITS	100%			

Prepared by						
Designation	Name	Signature	Date			
Course Coordinator / In-charges	Mr.C.Senthilkumar					
Course Coordinator / In-charges	Mr.V.V.Sundaram					
Module Coordinator	Mrs.R.Suganthi Hepzibha					

Approved by	Name	Signature	Date
HoD	Mrs.R.Suganthi Hepzibha		
Dean Academics	Dr.S.Priya		
Principal	Dr.R.Sujatha		

COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: Food Science and Processing Management Programme Code: FM1011

Title of the Course : Fundamentals of Nutrition Course Code : 20BF103

Year / Semester: I / I Total No. of Students: 13

No of Credits: 4

Total No. of Contact Hours: 60

Course Teacher Name: Mrs. P. Deepalakshmi Corresponding lab Paper: Yes

SI. No.	TOPIC		Reference / Text Book_Page No	thing Aids	D	Mode o Deliver of Ho	y	Cumulative Hours
			Refer Book	*Teaching	L	T	P	
UNIT – I								
1.	Basic terms used in study of Nutrition – Nutrients, Nutrition Science, Health	T 1		BB	2			12
2.	Malnutrition, Under& Over Nutrition, Functions of Food	T 2, R 2		BB	3			
3.	Relationship between Food, Nutrition and Health	R5		BB	2			
4.	Concept of balanced diet, RDA, Reference Man and Women	T 1	1, 17	BB	3			
5.	Revision / Test / Quiz			BB		2		
	UNIT – II	•						
6.	Energy - Definition, Unit of measurements			BB	1			12
7.	Determining energy value of food- Direct (Bomb calorimeter)	T 80-85		BB/V	2			
8.	Indirect (Benedict's oxy-calorimeter) calorimetry			BB/V	2			_
9.	Carbohydrates – Sources, RDA, Functions, Digestion and Absorption, Excess	T 2	21-37	BB/V	3			

	and Deficiency					
10.	Dietary fibre and its importance, Role of Water as a Nutrient	T 38, 347	BB	2		
11.	Revision / Test / Quiz				2	
	UNIT – III	l	<u> </u>	l .		
12.	Proteins - Sources, RDA, Functions and Digestion	T 130	BB	2		12
13.	Absorption, Excess and Deficiency of Proteins	T 133	BB	2		
14.	Lipids - Sources, RDA, Functions & Digestion	T 62	BB	2		
15.	Absorption, Excess and Deficiency of Lipids	T 63	BB	2		
16.	Fatty acids – Types	T 54	BB	2		
17.	Revision / Test / Quiz				2	
	UNIT – IV					
18.	Fat soluble vitamins - A, D, E and K its Functions, Dietary sources, Clinical manifestations	T 244	BB	2		11
19.	Deficiency and Excess of Fat-soluble vitamins - A, D, E and K	T 258	BB	1		
20.	Water soluble vitamins – Thiamine, Riboflavin, Niacin its Functions, Dietary sources, Clinical manifestations	T 294	BB	2		
21.	Vitamin B12 and Vitamin C, Folate_Functions, Dietary sources, Clinical manifestations	T 330	BB	2		
22.	Minerals – Calcium, Iron, Sodium, Iodine, Zinc, Phosphorous.	T165, T190, T 214, T 230 T 183		2		
23.	Revision / Test / Quiz				2	
	UNIT – V	•	•	•	•	
24.	Assessment of nutritional status – Anthropometry	T 381	BB	2		11
25.	Biochemical, Clinical	T 394	BB	2		
26.	Dietary methods	T 402	BB	2		

27.	Enhancing the nutritional quality of foods	R 377	BB	2				
28.	Home Scale & Industrial Methods	R 381	BB	1				
29.	Revision / Test / Quiz				1			
	TOTAL HOURS							

Text Book

T1	Srilakshmi B, Nutrition Science, New Age International Publishers (India), 2003.

Reference Books

R1	Srilakshmi, B. (2006), Food Science, New Age International (P) Ltd Publishers
R2	Srilakshmi B. (2008), Dietetics, New Age International (P) Ltd Publishers

Web Resources

W1	https://www.researchgate.net/publication/326414974_Fundamentals_of_Nutrition
W2	https://catalogimages.wiley.com/images/db/pdf/047159976X.excerpt.pdf
W3	
W4	

E – Books /Library INFLIBNET RESOURCES

E1	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=444
E2	
E3	
E4	

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Nutritional Status Survey - Questionnaire	Assignment	1	НВ
2.	Role of Nutrients in day – to – day life	Peer Teaching	2	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1		Lecture	PPT	Nutrition throughout life cycle	2
	I				
2	II	-	Audio Visual	Nutrient and Drug Interaction	2
3					
4					

PORTION FOR EXAMINATION

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – 1-5	20%
2.	I INTERNAL	Unit - I, II, III (upto Proteins)	50%
3.	II INTERNAL	Unit – III (from Lipids), IV, V	50%
4.	End Semester Examination	Unit I to V	100%

Designation		Prepared by	
Assistant Professor	Name	Signature	Date
Course Coordinator / In-charge	Mrs.P.Deepalakshmi		
Programme Coordinator	Mrs.P.Deepalakshmi		

	Approved by							
	Name	Signature	Date					
HoD	Ms.A.Sona							
Dean Academics	Dr.S. Priya							
Principal	Dr.R.Sujatha							

COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: Food Science and Processing Management Programme Code: FM1011

Title of the Course: Principles of Food Science

Course Code: 20BF104

Year / Semester: I / I Total No. of Students: 12

No of Credits: 4 Total No. of Contact Hours: 60

Course Teacher (s) Name: Mrs. P. Deepalakshmi Corresponding lab Paper: Yes

/ Mrs. M. Venkata Subbulakshmi

Sl. No.	TOPIC	Reference / Text Book_Page No	thing Aids	I	Mode (Deliver of Ho	y	Cumulative Hours
		Refer Book	*Teaching T T T T T T T T T T T T T				
	UNIT – I						
1.	Basic terms in Food Science – Food, Food Science, Fortification, Prebiotics, Probiotics	T 1	BB	2			12
2.	Nutraceuticals, Food additives, Phytochemicals, Functional Foods, Organic foods and Genetically modified foods	R 2	BB	2			
3.	Basic five food groups. Food pyramid. Principles of Meal Planning	T 3, T4, R5	BB	2			
4.	Preliminary preparations. Methods of cooking food – Dry heat	T6	BB/V	2			
5.	Moist heat methods, Frying and Microwave cooking.	T 22	BB	2			
6.	Revision / Test / Quiz				2		
	UNIT – II						
7.	Cereals its Composition and Nutritive value, Structure of wheat	T29	BB	2			12
8.	Millets – Ragi, Corn, Bajra, Jowar, Role of cereals in cookery	T47	BB	3			·
9.	Definitions of – Gluten, Gelatinization, Gelation, Retrogradation, Syneresis and Dextrinization	T 53	BB/V	3			

10.	Pulses and legumes - Composition, Nutritive value, Anti-nutritional factors	T 72, T 76	BB	1			
11.	Changes during cooking, Factors affecting quality of pulses, Changes during germination	T 82	ВВ	1			
12.	Revision / Test / Quiz				2		
	UNIT – III	<u> </u>			1		
13.	Composition and Nutritive value of Milk & Milk Products	T 105	BB/V	3			12
14.	Eggs- Structure, Composition, Role in Cookery, Nutritive value, Grading	T 131	BB	2			
15.	Fish – Nutritive value, Selection and Classification	T 169	ВВ	2			
16.	Meat- Structure, Nutritive value, Postmortem changes- Ageing, Tenderization	T 155	BB/V	3			
17.	Revision / Test / Quiz				2		
	UNIT – IV	1	I	l.	<u> </u>	I	
18.	Fruits - Classification, Nutritive value	T 209	BB/V	3			11
19.	Changes during ripening of Fruits	T 215	BB	1			
20.	Classification, Nutritive value of Vegetables	T 180	BB	3			
21.	Changes & nutrient loss during cooking	T 194	BB	2			
22.	Revision / Test / Quiz				2		
	UNIT – V						
23.	Nuts and Oil seeds- Nutritive value, Anti nutritional factors, Role in cookery	T 88	BB	2			11
24.	Sugar- Stages of sugar cookery, Sugar related products	Т 222	ВВ	2			
25.	Spices and Aromatics, Functions, Role in Cookery	T 259	BB	2			
26.	Beverages- Classification, Tea, Coffee and Fruit beverages	T 279	BB/V	3			
27.	Revision / Test / Quiz		BB		2		
	TOTAL HOURS	1	<u> </u>		•		58

Text Book

T1	Srilakshmi B, Food Science, New Age International Publishers (India), 2003.

Reference Books

R1	Srilakshmi B, Nutrition Science, New Age International Publishers (India), 2003.
R2	Srilakshmi B, Dietetics, New Age International Publishers (India), 2003.

Web Resources

W1	http://lib.rudn.ru/file/Food_Science_Nutrition_Catalogue_ebook.pdf
W2	
W3	
W4	

$E-Books\,/Library\,\,INFLIBNET\,\,RESOURCES$

E1	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=444
E2	https://www.pdfdrive.com/food-science-books.html
E3	
E4	

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Translating name of the Food groups (English – Tamil)	Assignment	1	НВ
2.	Recent Food Processing Techniques	Peer Teaching	2	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	PPT	Spices as Taste Enhancers	1
2	II		Video	Cooking Techniques and Variations	1
3					
4					

PORTION FOR EXAMINATION

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – 1-5	20%
2.	I INTERNAL	Unit - I, II, III (upto Eggs)	50%
3.	II INTERNAL	Unit – III (from Fish), IV, V	50%
4.	End Semester Examination	Unit I to V	100%

Designation		Prepared by					
Assistant Professor	Name	Signature	Date				
Course Coordinator / In-charge	Mrs.P.Deepalakshmi						
Programme Coordinator	Mrs.P.Deepalakshmi						

	Approved by						
	Name	Signature	Date				
HoD	Ms.A.Sona						
Dean Academics	Dr.S. Priya						
Principal	Dr.R. Sujatha						

COURSE PLAN - 2020 - 21 (ODD SEMESTER)

Name of the Programme: Food Science and Processing Management Programme Code : FM1011

Title of the Course: Food Chemistry

Course Code: 20BF105

Year / Semester: I/I Total No. of Students 13

No of Credits: 5 Total No. of Contact Hours: 75

Course Teacher Name:Mrs. M.Venkata Subbulakshmi Corresponding lab Paper: No

	TOPIC	nce / Text Page No	ning Aids	Mode of Delivery No of Hours			Cumulative Hours
SI. No.	Reference / Book_Page	*Teaching	L	Т	P		
	UNIT – I	1	L		L	l	1
1.	Classification of carbohydrate	T1 (6-18)	ВВ	4			
2.	Molecular structure of monosaccharides ,disaccharides		BB	3	1		
3.	Amylase ,amylopectin		BB	2	1		
4.	Properties and fuctions of CHO		BB	3			
5.	Changes in Carbohydrates during food processing		BB	1			
6.	Revision/ Class test/Quiz		BB	1			15
							15

	UNIT – II	[
7.	Protein classification	T1(27-	BB/PP	3		
		34)	T			
8.	Structure and properties of protein		BB	2		
9.	Denaturation and its functional roles		BB	2	1	14
10.	Amino acids classification and structure of essential amino acids		BB	3		
11.	Properties of amino acids and definition of enzymes		BB	1		
12.	Roles of enzymes in food industry	E3(1-4)	BB	1		
13.	Revision/ Class test/Quiz		BB	1		
	UNIT – II	I				
14.	Fat Classification and structure	T1(18-	BB	3		
		26)				
15.	1		BB	3		13
16.	Modification of fats		BB	2		
17.	Deterioration of Fats and Oils		BB	3		
18.	Revision/ Class test/Quiz		BB	1		
					1	
		7				
40	UNIT – IV		D.D.	2		
19.	Classification of Vitamins and Minerals	T1 (230-	BB	3		
20		233)	22			
20.	Factors affecting stability of vitamins Minerals	W5 (1-8)	BB	2	1	15
21.	Factors affecting stability of Minerals		BB	3	1	15
22.	Vitamin and minerals Losses during Processing		BB	2		
23.	Classification of Minerals		BB	3		
24.	Revision/ Class test/Quiz		BB	1		
27,	UNIT – V	7	ББ	1		
25.	Introduction and functional properties of water and ice	W3 (1-7)	BB/V	2		
26.	Structure of Water and ice, moisture content, water activity		BB	4		
27.	Factors Influence on food quality and stability		BB	3	1	14
28.	Method of control of water activity		BB	3		
29.	Revision/ Class test/Quiz		BB	1		
4 /•	Tec.1010III Cition Con Quit	L	TOT			56

Text Book

T1	M. Swaminathan (Volume 1) Advanced text book on Food and nutrition, published by the Banglore press and publishing
	Co.Ltd.,

Reference Books

R1	De Man, J.M., "Principles of Food chemistry", USA: aspen Publishers Inc. (Maryland), 1999
R2	Nielsen, S.S, "Food Analysis" (4 th ed): Springer (New York),2010.
R3	Ranganna,S., "Handbook of Analysis and Quality Control fro Fruit and Vegetable Products (2 nd ed)" Tata – McGraw – Hill (India), 2001.

Web Resources

W1	http://www.fao.org/3/W8079E/w8079e0j.htm
W2	http://osp.mans.edu.eg/medbiochem_mi/cources/biochemistry/1st_year_dentistry/Basic_chemistry/carbohydrate_chemistry/files/Lecture_01.pdf
W3	https://www.britannica.com/science/water/Structures-of-ice
W4	https://www.courses.psu.edu/fd_sc/fd_sc400_jnc3/proteins/4-Proteins.pdf
W5	https://www.dsm.com/content/dam/dsm/nip/en_US/documents/stability.pdf

E – Books /Library INFLIBNET RESOURCES

E1	Kim A Sharp, E. R. Johnson Research Foundation, University of Pennsylvania, Philadelphia, Pennsylvania, USA
E2	Dandago, M.A. Changes In Nutrients During Storage And Processing Of Foods Techno Science Africana Journal, Volume 3 Number 1, June, 2009
E3	A Review Sorabh Chaudhary1*, Sushma Sagar1, Mukesh Kumar1, R.S. Sengar1 and Akash Tomar The Use of Enzymes in Food Processing:
E4	QIANG ZHUGE factors affecting storage stability of vitamin a, riboflavin and niacin in a broiler diet premix/

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Enzymes roles in food industries	Assignment	1	HT
2.	Properties of water	Assignment	1	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	PPT	Protein Classification	1
2	II		Audio- Visual	Vitamins Structure	1

PORTION FOR EXAMINATION

Sl. No.	Mode	de Proposed Portions to be Covered	
1.	SLIP / CLASS TEST	Unit 1	20 %
2.	I INTERNAL	UNIT - I, II,III	50%
3.	II INTERNAL	UNIT - III, IV, V	50%
4	Summative Examination	ALL FIVE UNITS	100%

Designation	Prepared by		
Assistant Professor	Name	Signature	Date
Course Coordinator / In-charge	Mrs. M. Venkata Subbulakshmi		
Programme Coordinator	Mrs. P.Deepalakshmi		

Approved by							
	Name	Signature	Date				
HoD	Ms.A.Sona						
Dean Academics	Dr.S. Priya						
Principal	Dr.R. Sujatha						

COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: Food science and Processing Management

Title of the Course : Basic Food Preparation Practicals : 20BF106

Year / Semester : I / I Total No. of Students 13

No of Credits : 2 Total No. of Contact Hours 60

Course Teacher (s) Name : Ms.A.Sona

Sl. No.	Name of the Experiment	Page No in the Lab Manual	Gap in the Syllabus if any	Content beyond Syllabus, if any	No. of Hours	Cumulative Hours
1	Standardization – weights, measures of commonly used foods	2			4	8
2	Standardization assessment of edible and non-edible portions – basic 5 food groups	3			4	
3	Cutting techniques and preliminary cooking methods – Steaming, blanching	5	Boiling		4	8
4	Preliminary cooking methods –marinating, breading, batters, dough, pureeing.	6			4	
5	Preparation, serving and sensory evaluation of stocks, sauces and soups.	7			4	4
6	Methods of cooking grains and legumes – Introduction	11			4	4
7	Methods of cooking grains – Preparation, serving and sensory evaluation of Indian and global grain	11			4	4

	based products.				
8	Methods of cooking legumes – Preparation, serving and sensory evaluation of Indian and global legume based products	14		4	4
9	Methods of cooking vegetables – Preparation, serving and sensory evaluation of Indian and global vegetable based products	16		4	4
10	Methods of cooking vegetables – Preparation, serving and sensory evaluation of Indian and global vegetable based products	16		4	4
11	Methods of cooking fruits – Preparation, serving and sensory evaluation of Indian and global fruit based products	18	Sensory evaluation of milk	4	4
12	Effect of pH on browning	21		4	8
13	Effect of pH on browning	21		4	
14	To perform the stages of sugar cookery.	23		4	8
15	To perform the stages of sugar cookery.	23		4	
				TD 4 1 N.T.	of House , 60

Total No of Hours: **60**

Designation		Prepared by					
Ass.Prof & Head incharge	Name	Signature	Date				
Course Coordinator / Incharge	Ms.A.Sona						
Programme Coordinator	Mrs. P. Deepalakshmi						

	Approved by						
	Name	Signature	Date				
НоД	Ms.A.Sona						
Dean Academics	Dr.S.Priya						
Principal	Dr.R.Sujatha						

COURSE PLAN - 2020 - 21 (ODD SEMESTER)

Name of the Programme: Food Science and processing Management

Course Code: 20BF107

Title of the Course : Principles of Food Science Practical

Year / Semester : I / I

No of Credits: 2

Total No. of Students: 13

Course Teacher Name: Mrs. P. Deepalakshmi

Total No. of Contact Hours: 60

Sl.	Week No.	Name of the Experiment	Page No in the Lab Manual	No. of Hours	Cumulative Hours
1	I	Determination of Moisture using hot air oven	03	4 + 2	6
2	II	Determination of acidity and pH	04-07	4 + 2	6
3	III	Determination of TSS	08	4 + 2	6
4	IV	Food energy estimation using Bomb Calorimeter	09-10	4 + 2	6
5	V	Qualitative tests for Carbohydrates	11-13	4 + 2	6
6	VI	Qualitative test for Protein (Lowry's Method)	14-15	4+2	6
7	VII	Demonstration of Kjeldhal analysis of Protein	16-19	4+2	6
8	VIII	Fat estimation	19-20	4+2	6
9	IX	Estimation of Ascorbic acid	21-22	4+2	6
10	1X	Ash content of Foods	23-24	4+2	6
	l .			TD . 13.1	C II (0

Total No. of. Hours: 60

Gap in the Syllabus

SL. NO	Name of the Topic	No of Hours Allotted
1.	General Points to be remembered in the laboratory	2

COURSE PLAN FOR CONTENT BEYOND SYLLABUS

SI.NO	Торіс	Total No of Hours Allotted
1	Estimation of crude fibre	2

Designation		Prepared by					
Assistant Professor	Name	Signature	Date				
Course Coordinator / Incharge	Mrs.P.Deepalakshmi						
Programme Coordinator	Mrs.P.Deepalakshmi						

	Approved by						
	Name	Signature	Date				
HoD	Ms.A.Sona						
Dean Academics	Dr.S.Priya						
Principal	Dr. R.Sujatha						

COURSE PLAN - 2020 - 21 (ODD SEMESTER)

Name of the Programme: B.Sc Food Science and Processing Management

Title of the Course : VALUE EDUCATION Course Code : 20VE109

Year / Semester : I / I Total No. of Students : 13

No of Credits : 2
Course Teacher (s) Name : Ms. A. Sona

Total No. of Contact Hours : 30
Corresponding lab Paper: No

	DIAOL Sook_Page No		ning Aids	Mode of Delivery No of Hours			Cumulative Hours
Sl. No.		Reference Book Page	*Teaching	L	Т	P	
	UNIT I: INTRODUCTION TO VALUE	EDUCATION					
1.	Objectives and components of value education	(C-02-07)	BB	1			1
2.	Need for value education	(C-07-08)	BB	1			2
3.	Significance and importance of value education	(C-08-11)	BB	1			3
4.	Human Values	(C-24-27)	BB	1			4
5.	Relation between moral values and religion	(C-27-28)	BB	1			5
	UNIT – II <u>VALUE EDUCATION FOR NA</u>	TION BUILDIN	<u>G</u>		•		
6.	National and constitutional values	(C-33-35)	BB	1			6
7.	Categorization of values	(C-34-39)	BB	1			7

8.	Environmental ethical values	(C-39-40)	BB	2		9
9.	National integration	(C-40-42)	BB	1		10
10.	Value seeds	(C-42-45)	ВВ	1		11
	UNIT III: HUMAN RIGHTS WITH INDIAN	 N CONSTITUTI	ON			
11.	The concept of human rights – Introduction	(C-63-67)	BB	1		12
12.	Universal declaration of human rights	(C-46-51)	BB	1		13
13.	Classification of human rights	(C-51-52)	BB	2		15
14.	Social practice	(C-53-55)	BB	1		16
15.	Growth of fundamental rights in India	(C-55-57)	BB	1		17
16.	Human rights of Women and children	(C-57-62)	BB	1		18
	UNIT IV: MORAL VALUES, ETHICS AND	GOOD MANNI	ERS		l l	<u>I</u>
17.	Moral values and Ethics – Introduction	(C-68-80)	BB	1		19
18.	Social values	(C-70-71)	BB	2		`21
19.	Spiritual values	(C-72-73)	BB	1		22
20.	Good manners	(C-78-80)	BB	1		23
21.	Character Building	(C-81-82)	ВВ	1		24
	UNIT – V <u>: EIGHT LIMBS OF</u>	YOGA				
22.	Yamas Niyama Āsana	W2	BB	1		25
23.	<u>Prānāyāma</u> <u>Pratyāhāra</u> <u>Dhāraṇā</u>	W2	BB	1		26
24.	Dhyāna Samādhi	W2	BB	1		27
	Total					27

Course material/Text book

C1	Value education- Theory course material

Reference Books

R1	Ramachandra Dr. K, et.al, "VALUE EDUCATION", Himalaya Publishing house,2017.

Web Resources

W1	https://www.researchgate.net/publication/331521926_Scientific_benefits_of_Yoga_A_Review
W2	https://www.theconnectedyogateacher.com/wp-content/uploads/2018/07/8-Limbs-of-Yoga-The-Connected-Yoga-Teacher-Podcast.pdf

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Human rights	Group discussion	1	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS

SI.NO	Module	Mode of delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	W1	Lecture	BB	Importance of 8 limbs of yoga	2

PORTION FOR EXAMINATION

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage (to be decided by the Department)
1	SLIP / CLASS TEST	ALL FIVE UNITS	25%
2	I INTERNAL	UNIT - I, II, III	50%
3	II INTERNAL	UNIT - III, IV, V	50%
4	End Semester Examination	Unit I to V	100%

Designation		Prepared by						
	Name	Signature	Date					
Course Coordinator / In-charge	Ms.A.Sona							
Programme Coordinator	Mrs. P. Deepa Lakshmi							

	Approved by								
	Name	Signature	Date						
HoD	Ms.A.Sona								
Dean Academics	Dr.S.Priya								
Principal	Dr.R.Sujatha								

	SUBBALAK	SHMI LAKSHN	MIPATHY COLI	LEGE OF SCIEN	NCE		
	<u>CO</u>	URSE PLAN – 2	020 – 21 (ODD S	EMESTER)			
Name of the Pr	ogramme :	All First Year (Except F&IS)				
Title of the Cou	irse :	TAMIL		Course Code:	19UT301		
Year / Semester: No.of Credits:		2020-2021/1II	III Section:	Total No. of Stu	Total No. of Students:		
		3		Total no. of Co	ntact hours:	45	
S. No	Topic	Reference / text Book Page No.	Teaching Aids	Mode of Deliv	very No. of H	Iours	Cumulative Hours
		T R12 / R 04		L	T	P	
			Unit I				
1	சிலM்Mதிகாைம்	R1-1/R1 - 335	BB	2	2		4
2	மணிலமகரல	R1-4 /R2-171	BB	2	2		4
3			BB	1	1		1
	சீவக சிந்தாமணி	R1-9 /R3 -70					
			Unit II				
4	கம்Mைாமாயணம்	R1-14/1/ R4- 654		1	1		3
5	இலயசு காவியம்	R1-35/ R5-59	BB	1	1		3
6	நாயகம் ஒரு காவியம்	R1-30/ R6-35	BB	1	1		3
			Unit III				
9	அைி ெ ந்திைா	R1-40/ R7-103	BB	1	1		9

			Unit IV			
13	Mாக்கள்	R1-81/R8- 60	BB			2
14	லவை்றுரமகள்	R1-82/ R8-92	BB	2	2	2
15	சதாரகவரககள்	R1-84/1R8- 104	BB	2	2	3
16	சமாழிசMய®M் ்பு – Mழசமாழிகள்	R1-86/ R8 - 450 8	BB	1	1	2
		1	Unit V	l		1
17	காM்பியததி ன் லதாை்ை மும் வளை சிய ு ம ்	R1-92/R9-109	BB	1	1	2
18	நாடகததின் லதாை்ை மும்வளை சி	R1-89/R 9-362	BB	1	1	2
19	நாடகM் Mயிை்சி	gilg;ghw;wy;	ВВ	3	3	5
		N FOR CONTENT	BEYOND SY	LLABUS		
	COCKSETEN		DETONDU	LLIDUS		

SI.NO	Module	Lecture	Planned Topics	Date	Time	Total No of Hours Allotted	
1	1	Lecture1	செய்தித்				

				<u> </u>	Г		<u> </u>
			தாள்கள்				
_		_	வாசித்தல்				
2		Lecture2	கடடுரை				
			எழ ு F த				
			െ ்				
3	2	Lecture1	புத்தகம்				
			வாசித்தல்;				
	Gaps in the Syllabus –To	meet Industrial	Requirements				
SL. NO	Name of the Topic	PROPOSED	No of Hours	Hours with in			
		ACTION	Allotted	the Time			
				Table (HT) /			
				Hours beyond			
				the Time			
				Table (HB)			
	கட்டுரை	Assignment		3			
1	எழ ு F தல						
	 ப ுத ்தகம ்	Seminar	3				
	வாச ித ் F	Semma					
2	விமை ை எம						
2							
	செய்தல்						
	F.F. (10.00 F	Peer teaching	2				
	நரடமுரை	1 cer waering	2				
2	நிகழ்வுகரள						
3	கலந்தாலலாசித்த						
	ல்						
Text Book							
T1	சMா F த ் தம ி ழ ் -	III – Mாட ந ்			ு உைிக	<u></u>	
			2	,	ے		
							l .

Reference B	ooks							
R1	சMா ட த ் தம ிழ ் - தமிழ ்த ் டிரை க	_	ூல் சதாகு	5M்பு – கல ் எ	∨ൗഌ∘ി	த்		
R2	ஞா.மாணிக்கவாெ Print.		திகாைம். செ	சன் ரன: உமா	м <u>Б</u> Мім	கம்.1995.		
R3								
	பு விய+ைக் ்லகச ிகன ். மண ிலமகரல. ச ென்ரன: Mாைி பு த்தக நிரலயம ் , மறுMதிM்பு 2007. Print.							
R4	Fரைைா ாை நிரலயம்் முதை்MதிM்பு 2001.	Fரைை ாைட் . சீவகசிந்தாமணி.; சனெ்ரன: முல்ரல நிரலயம்						
R5		கம் Mைாமாயணம் .சென் ரன: மFரை காமைாெ் MதிM்Mகம் ् 2003.PPrint.						
R6	கண் ணதாென் . காவிை சவளிய MதிM்Mகம் , 1982. Pri	<u> </u>	வியம். திர	ுெசெ ைா	'M ் Mണ ் எ	ாி : கரல		
R7	நாயகம் ஒரு காவிய		 ரை காமைாெ	 'െം M&MiN		B. P Print.		
R8	அிமளம்.சு.Mத்மந MதிM்Mகம்:2008Prin	тМன் ;. ചിെ		•		-		
R9		தம ிழ ் இலக	்கணம் -கும	ാതൽ M§M്N	/ிகம்் ம	் றும		
R10	முு.வறைதறை எல ாகித்திய அக			லாறு. ச ெ ன	் ரன :			
	Library INFLIBNET RESOUR	CES						
E1	N/A							
Topics bevo	nd Syllabus							

Module 1	N/A			
PORTION FOR E	EXAMINATION			

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage (to be decided by the Department)		
1.	SLIP / CLASS TEST	Unit/Portion to be decided by the Course Teacher and the HoD	15%		
2.	I INTERNAL	UNIT - I, II, V	50%		
3.	II INTERNAL	UNIT - III, IV, V	50%		
4.	Summative Examination	ALL FIVE UNITS	100%		

Designation		Prepa	ared by		
		Name	Signature	Date	
Course Coordinato	r / In-charge	Mrs.H.Geetha			
Programme Coordinator		Mrs.N.Selvi			
		Approved by			
	Name	Signature			
HoD	Mrs.N.Selvi		Date		
Dean Academics	Dr.S.Priya				
Principal	Dr.R.Sujatha				

COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: B.Sc (Animation, Viscom, CS, Networking, FIS, FS&PM)

Title of the Course : General English III			Course Code: 19UGE302		
Year / Semester: II YEAR / III SEMESTER	Section:	Total No. of Students: 14			
No.Of Credits: 3		Total no. of Contact hours: 45			

 $Course\ Teacher\ (s)\ Name: Mrs.R. Suganthi\ Hepzibha,\ Ms.T.S. Sridevi,\ Mr.C. Senthilkumar\ and\ Mr.V.V. Sundaram$

S. No	Торіс	Reference / text Book Page No.	Teaching Aids	Mode of Delivery No. of Hours		
		T 1 / R 04		L	T	P
	1	Ţ	Unit I			
1	SWOC - Introduction	R1-1 / R 06, 03	ВВ	3		
2	Strength, Weaknesses	R1-3 / R 06, 03	BB/PPT/V	3		
3	Opportunities, Threats	R1-6 / R 06, 03	BB	3		
		Ü	nit II			
1	Of Ambition	R1-12	BB/V	3		
2	Of Studies	R1-20	BB/V	3		
3	Of Truth	R1-25	BB/V	3		

		U	nit III			
1	Word Formation (Compound Words and Affixes)	R1-31	PPT	2	1	
2	Direct and Indirect Speech	R1-33	PPT	2	1	
3	Question Tags	R1-35	PPT	2	1	
		U	nit IV		•	
1	Synonyms and Antonyms (25 + 25)	R1-36 / R 04	BB	2	1	
2	Idioms and Phrases (50)	R1-42 / R 04	BB	2	1	
3	One Word Substitution (50)	R1-46 / R 04	BB	2	1	
		U	Init V	•		•
1	Correct usage of Nouns and Pronouns	R1	BB/PPT	2	1	
2	Correct usage of Adjectives	R1	BB/PPT	2	1	
3	Spotting the errors (Nouns, Pronouns and Adjectives)	R1	BB/PPT	2	1	
* L - Lecture	T - Tutorial (Problems / Example Program	ms / Revision Cl	lasses) P - Pra	actical		
resources (OE Whiteboards(/ Black Board (BB) / Worksheet(WS) / VER) media that are freely accessible, Goog WB), Wikipedia (W) any other tools may breviation in the teaching aids column]	gle tools like Dri also be included	ve (GRV), Go		11	· •
T1	General English-III, A Complied book,			yllabus prepared by t	the Depar	tment of English.
	,		ence Books			
R1	Bacon Francis. Complete Essays. Dover Publications: Dover Ed edition,					

	2008. Print.
R2	Srivasan Hema. Communication Skills. Bangalore: Frank Brothers & Co. Ltd, 2004. Print.
R3	Wren & Martin. High School English Grammar & Composition. India: S.Chand & Company Ltd, 1995. Print.
R4	G.Radhakrishna Pillai. Emerald English Grammar and Composition. Bangalore: Emerald Publisher, 1998. Print.
R5	Dr.K.Alex. Soft Skills. New Delhi: S.Chand& Company Ltd, 1997. Print.
R6	Dr. Gupta C.B. Business Correspondence & Reporting -Business Law, Business Correspondence & Reporting (CA-Foundation). New Delhi: Taxmann, 2018. Print.
R7	A.P.Bhardwaj. General English for Competitive Examinations. New Delhi: Dorling Kindersley (India) Pvt. Ltd, 2013. Print.
	E – Books /Library INFLIBNET RESOURCES
E1	https://nlist.inflibnet.ac.in/search/Record/EBC483375
E2	https://nlist.inflibnet.ac.in/search/Record/EBC481114
E3	https://nlist.inflibnet.ac.in/search/Record/EBC1864716

	Gaps in th	ne Syllabus				
SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT)		
				Hours beyond the Time Table (HB)		
1	Self Introduction	Assignment		3		
2	Extempore	Seminar	3			
3	On Any Modules	Peer teaching	2			
4	NA	Industrial Visit	NA	NA		
Proposed Ac	ctions can be Assignments, Seminars, I	Peer Teaching, Indu	ıstrial Visit , C	Others (if any)		
	COURSE	E PLAN FOR CO	NTENT BEY	OND SYLLABUS		
SI.NO	Module	Lecture	Planned Topics	Date	Time	Total No of Hours Allotted
1	1	Lecture1	Lecture 1	Newspaper/Article reading		
2	2	Lecture2	Lecture 2	Collecting & Reporting News		
3	3	Lecture3	Lecture 3	Learning a New Word Everyday		
4	4	Lecture 4	Lecture 4	Public Speaking		

		PORTION FO	R EXAMINA	ΓΙΟΝ		
Sl. No.			rtions to be Proportion (Portion) in Percentage (to be deci-			
1	SLIP / CLASS TEST	UNIT - I		15%		
2	I INTERNAL	UNIT - I, II, V	I		50%	
3	II INTERNAL	UNIT - III, IV	, V		50%	
4	Summative Examination	ALL 5 UNITS			100%	
		Pre	pared by			
	Designation			Name	Sig	nature
Course Coord	dinator / In-charges		Mr.C.Senthil	kumar		
Module Coor	dinator		Mrs.R.Sugar	ıthi Hepzibha		
	Арр	proved by	•			
	Name	Signature	Date			
HoD	Mrs.R.Suganthi Hepzibha					
Dean Academics	Dr.S.Priya					
Principal	Dr.R.Sujatha					

COURSE PLAN - 2020 - 21 (ODD SEMESTER)

Name of the Programme: B.Sc Food Science and Processing Management Programme Code: FM1011

Title of the Course : Cereals, Pulses and Oilseeds Processing Course Code : 19BF301

Year / Semester : II/ III Total No. of Students 14

No of Credits : 4 Total No. of Contact Hours : 60 Course Teacher (s) Name : Ms.A.Sona Corresponding lab Paper : Yes

Reference / Text Book_Page No **Mode of Delivery** Aids No of Hours Cumulative **TOPIC** Hours *Teaching T P L UNIT – I Rice – Physicochemical properties R1 BB 1. 2. Rice – milling T1 BB2 3. Parboiling T1 BB Ageing of rice R1 BB 1 4. 11 Utilization of by products 5. **R**1 BB 6. Barley- Milling - pearl barley R1 BB1 7. Barley- Milling - barley flakes & flour R1 BB 1

8.	Beer preparation	R1	BB, V	2			
9.	Revision				1		
		UNIT – II		I			l
10.	Wheat – types	R1	BB	1			11
11.	Wheat – milling	T1	BB	2			
12.	Wheat – flour grade	R1	BB	1			
13.	Wheat – flour treatments – bleaching	R1	BB	1			
14.	Wheat – flour treatments – maturing	R1	BB	1			
15.	Wheat – flour for various purposes	R1	BB, PPT	2			
16.	Technology of dough development.	R1	BB	2			
17.	Revision				1		
		UNIT – III		•			
18.	Milling (wet and dry)	R1	BB	1			11
19.	Processing of Ragi	E2	BB	2			
20.	Processing of Bajra	R1	BB	2			
21.	Processing of Sorghum	R1	BB	2			
22.	Processing of Foxtail	E1	BB	1			
23.	Commercial milling methods	R1	BB	2			
24.	Revision				1		
		UNIT – IV			I	<u> </u>	ı

36. 37.	Fibre spinning Revision	W1	BB	2			
35.	Protein texturization	W1	BB	2			
34.	Properties and uses	W1	BB	2			
33.	Refining sources of protein	W1	BB	2			
32.	Extraction of oil	W1	BB	1			
31.	Processing of Oilseeds - Introduction	W1	BB	1			11
30.	Revision UNIT - V				1		
29.	Effect of processing on nutritional quality		BB	2			
28.	Improved milling methods	E3	BB, PPT	3			
27.	Toxicity of pulses	T1	BB	2			
26.	Milling of pulses – wet milling	W1	BB,V	2			
25.	Milling of pulses – Dry milling	W1	BB	1			11

COURSE PLAN FOR CONTENT BEYOND SYLLABUS

SI.NO	Module	Lecture	Planned Topics	Total No of Hours Allotted
1	1	Lecture1	Commercial milling of Pulses	1

Gaps in the Syllabus –To meet Industrial Requirements

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Beer Preparation	Seminar	2	HT
2.	Oil Refining	Assignment	2	HT

Resources

Text Books

T1	Kent, Technology of Cereal, 5 th Ed, Pergamon Press, 2003

Reference Books

R1	Shakuntala Manay N & Shadaksharaswamy M (2013) "Food Facts and Principles" New Age International (P) Ltd.,	
	Publishers	

Web Resources

V	V1	http://www.ignouhelp.in/ignou-mscdfsm-study-material/

E – Books /Library INFLIBNET RESOURCES

E1	Keshavan Niranjan & Nitya Sharma (2017) "Foxtail millet: Properties, processing, health benefits, and uses"
E2	Barjinder Pal Kaur, Rachna Sehrawat, Rakhi Singh & Savita Rani (2018) "Pearl millet processing: a review"
E3	Manikantan Ramarathinam & Rajesh Kumar Vishwakarma (2005) "Pulse Milling Technologies"

Topics beyond Syllabus

Module 1	http://www.ignouhelp.in/ignou-mscdfsm-study-material/

PORTION FOR EXAMINATION

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage (to be decided by the Department)
1	SLIP / CLASS TEST	ALL FIVE UNITS	20%
2	I INTERNAL	UNIT - I, II, III	50%
3	II INTERNAL	UNIT - III, IV, V	50%
4	End Semester Examination	Unit I to V	100%

Designation		Prepared by					
	Name	Signature	Date				
Course Coordinator / In-charge	Ms.A.Sona						
Programme Coordinator	Mrs. P. Deepalakshmi						

	Approved by						
	Name	Signature	Date				
HoD	Ms.A.Sona						
Dean Academics	Dr.S.Priya						
Principal	Dr.R.Sujatha						

COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: Food Science and Processing Management Programme Code : FM1011

Title of the Course: Fruit and Vegetable Processing

Course Code : 19BF302

Year / Semester: II/ III Total No. of Students: 14

No of Credits: 4 Total No. of Contact Hours: 60

Course Teacher Name: Mrs. P. Deepalakshmi Corresponding lab Paper: No

Sl. No.	TOPIC	Reference / Text Book_Page No	hing Aids		Aode o Delivery of Hou	y	Cumulative Hours
		Refer Book_	*Teaching	L	T	P	
	UNIT – I	'	·	.,		1	
1.	Harvesting method	T 150-219	BB	2			12
2.	Maturity indices for Fruits		BB	2			
3.	Maturity indices for Vegetables		BB	2			
4.	Methods of Measurement		BB	2			
5.	Grading		BB	1			
6.	Transportation		BB	1			
7.	Revision / Test / Quiz				2		
	UNIT – II						

8.	Post-harvest handling operations	R 2-13	BB	3			11
9.	Preprocessing operations – Precooling	R 18-31	BB	2			
10.	Curing, Waxing and Storage		BB	3			
11.	Ripening – Impact of gases		ВВ	1			
12.	Revision / Test / Quiz				2		
	UNIT – III						
13.	Classification of fruits and vegetables	R180-221	BB	2			11
14.	Quality attributes of fresh fruit and vegetables		BB	2			
15.	Contribution of constituents of fruits and vegetables to considerations		BB	2			
16.	Health Factors Influencing fruits and Vegetables		ВВ	2			
17.	Toxicants & Food Safety		ВВ	1			
18.	Revision / Test / Quiz				2		
	UNIT – IV				1	I	
19.	Preservation by reduction of water content – drying	R 360-399	BB	2			12
20.	Preservation of fruits and vegetables Jam, Jelly		BB	2			
21.	Pickles, Ketchup and Sauces.		BB	3			
22.	Chemical preservation - preservation of vegetables by acidification, preservation with sugar		BB/V	3			
23.	Revision / Test / Quiz				2		
	UNIT – V					•	
24.	Dehydrated product technology	T 421-445	BB	2			12
25.	Semi-processed fruit products technology		BB	2			
					•		

26.	Fruit sugar preserves technology		BB/V	2			
27.	Fruit beverage technology- fresh cut fruit and vegetable technology		BB	2			
28.	Sensory evaluation methods	R 315	BB	2			
29.	Revision / Test / Quiz				2		
	TOTAL HOURS						58

Text Book

T1	Shakuntala Manay, (2008), Food Facts and Principles, Third edition, New Age International Ltd Publishers	

Reference Books

R1	Srilakshmi, B. (2006), Food Science, New Age International (P) Ltd Publishers
R2	

Web Resources

W1	https://hasanuzzaman.weebly.com/uploads/9/3/4/0/934025/postharvest_technology.pdf
W2	www.slideshare.net>MairajKhan 10 Post harvest handling-Slide Share
W3	
W4	

E – Books /Library INFLIBNET RESOURCES

E1	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=15
E2	
E3	
E4	

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Recent techniques in Fruit & Vegetable Processing	Assignment	1	НВ
2.	Vegetable & Fruit Preservation methods	Peer Teaching	2	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	PPT	Spoilage of fruits and vegetables	1
2	II		Audio- Visual	Equipment used for processing	1
3					
4					

PORTION FOR EXAMINATION

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – 1- 5	20%
2.	I INTERNAL	Unit - I, II, III (upto Quality attributes of fruits and vegetables)	50%
3.	II INTERNAL	Unit – III (from Health Factors), IV, V	50%
4.	End Semester Examination	Unit I to V	100%

Designation	Prepared by	y	
Assistant Professor	Name	Signature	Date
Course Coordinator / In-charge	Mrs. P. Deepalakshmi		
Programme Coordinator	Mrs. P. Deepalakshmi		

	Approved by							
	Name	Signature	Date					
HoD	Ms.A.Sona							
Dean Academics	Dr.S. Priya							
Principal	Dr.R. Sujatha							

<u>SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE</u> COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: B.Sc -Food Science and Processing Management Programme Code : FM1011

Title of the Course : Bakery & Confectionery Theory Course Code : 19BF303

Year / Semester : II / III Total No. of Students : 14

No of Credits : 3 Total No. of Contact Hours : 60

Course Teacher (s) Name: Mr.K.Perumal Kannan Corresponding lab Paper : YES

	TOPIC	ence / Text Page No	*Teaching Aids	Mode of Delivery No of Hours		•	Cumulative Hours
Sl. No.		Reference/ Book_Page	*Tea	L	T	P	
		UNIT – I					
1.	Introduction to bakery	(T2-1-7)	ВВ	1	0	0	1
2.	Baking principles	(T2-205)	BB	1	0	0	1
3.	Role of wheat flour in bakery products	(T2-14-25)	BB	1	0	0	1
4.	Types of flour,	(T2-14-25	BB	1	0	0	1
5.	Composition of flour	(T2-14-25)	BB	1	0	0	1
6.	Characteristics of good quality flour	(T2-14-25)	BB	1	0	0	1

	UNIT – II						
1.	Raw ingredients of baking	(T2-26-30)	BB	1	0	0	1
2.	Functions in baking	(T2-26-30)	BB	1	0	0	1
3.	Sugar	(T2-26-30)	BB	1	1	0	2
4.	Eggs	(T2-34-36)	BB	1	1	0	2
5.	Fats	(T2-31-33)	BB	1	1	0	2
6.	Leavening agents	(T2-44-46)	BB	1	1	0	2
	UNIT – III						
1	Other ingredients of baking and their functions in baking	(T2-37-76)	BB	1	1	0	2
2	Yeast	(T2-37-41)	BB	1	1	0	2
3	Water	(T2-47-49)	BB	1	1	0	2
4	Salt	(T2-42-43)	BB	1	1	0	2
5	Moistening agents	(T2-47-49)	BB	1	1	0	2
6	Flavor & Colors	(T2-11-13)	BB	1	1	0	2
	UNIT – IV						
1	Preparation methods of cake	(T2-77-98)	BB	1	1	0	2
2	Preparation methods of Cookies	(T2-111-117)	BB	1	1	0	2

3	Preparation methods of Biscuits	(T2-111-117)	BB	1	1	0	2
4	Factors affecting the quality of these products.	(T2-111-117)	BB	1	1	0	2
	UNIT – V						
1	Identify different forms of coco and chocolate	(T2-8-10)	BB	1	1	0	2
2	Cooking techniques	(T2-8-10)	BB	1	1	0	2
3	Process of chocolate tempering	(T2-8-10)	BB	1	1	0	2
4	Storage of confectionery products	(T2-8-10)	BB	1	1	0	2
	TOTAL F	HRS					45

Text Books

T1	Srilakshmi,B.Food science, New Age International (P)
T2	Yogambal Sivalingam, Theory of Bakery & Confectionery Visaga Publication, 2005.

Reference Books

R1	Dubey S. Bakery, Wheat Associates of India, 1979.
R2	Malik ,R.K.and Dhingra,K.C. Technology of Bakery products, Modern Bakery
R3	Matz, S.A <i>Bakery Technology</i> , Packaging, Nutrition, Product Development and Quality Assurance, Elsevier, Science publisher Limited, New York, USA, 1989
R4	Thangam E. Philip <i>Modern Cookery</i> (Vols I and II), Orient Long Man, Mumbai, 1999.

R5 Wade, P. Biscuits, cookies and cracker, Vol. 1., Elsevier Applied science publishers Ltd., New York, USA, 1988.		publishers Ltd., New York, USA, 1988.	Wade, P. Biscuits, cookies and cracker, Vol. 1., Elsevier Applied science	
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Web Resources

W1	https://www.google.com/search?q=Wheat&rlz=1C1CHBD_enIN912IN912&oq=Wheat+&aqs=chrome69i57j0i67i457j0i67l6.11023j0j15&sourceid=chrome&ie=UTF-8
W2	https://www.google.com/search?q=Types+of+sugar&rlz=1C1CHBD_enIN912IN912&oq=Types+of+sugar&aqs=chrome69i57j0i457j0l6.163 55j0j15&sourceid=chrome&ie=UTF-8
W3	https://www.google.com/search?rlz=1C1CHBD_enIN912IN912&sxsrf=ALeKk00QQGp-QzB47AgBKxSNYAWENa3QCQ%3A1604912055145&ei=twOpX6q0CKCO4-EP3feBsAU&q=yeast
W4	NA

E – Books /Library INFLIBNET RESOURCES

E1	https://www.google.com/search?q=E-Book+2.+Role+of+wheat+flour+in+bakery+products&rlz=1C1CHBD_enIN912IN912&oq=E-Book+2.%09Role+of+wheat+flour+in+bakery+products&aqs=chrome69i57.15407j0j15&sourceid=chrome&ie=UTF-8
E2	https://www.google.com/search?q=leavening+agents+in+baking&rlz=1C1CHBD_enIN912IN912&oq=leavening+agents+in+&aqs=chrome.0.0i 457j0j69i57j0l5.20095j0j15&sourceid=chrome&ie=UTF-8
E3	https://www.google.com/search?q=flavor%26+color+uses+in+bakery&rlz=1C1CHBD_enIN912IN912&oq=flavor%26+color+uses+in+bakery&aqs=chrome69i57.22648j0j15&sourceid=chrome&ie=UTF-8
E4	https://www.google.com/search?rlz=1C1CHBD_enIN912IN912&ei=Qcy4X4mmLYPb9QP9j5iABA&q=cake+cookies+chocolate&oq=Cakes+

%26+Cookies%2C+Cho&gs&sclient=psy-ab

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Wheat milling Process	Assignments	2	НВ
2.	Sugar Technology	Assignments	2	НВ
3.	Types of Bread & Bread Rolls	Assignments	2	HB
4.	Bakery & Confectionery Training	Seminars	2	HT
5.	Cookies & Biscuits	Assignments	2	HB

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	-	Webinar	PPT	Food processing & Technology	3

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	I INTERNAL	I,II units,III (upto 3.3)	50%
2.	II INTERNAL	III(from 3.4) IV,V units .	50%
3.	End Semester Examination	All five units	100%

Designation	Prepared by				
	Name	Signature	Date		
Course Coordinator / In-charge	Mr.K.Perumal Kannan				
Programme Coordinator	Mrs.P.Deepalakshmi				

Approved by							
	Name	Signature	Date				
НоД	Ms.A.Sona						
Dean Academics	Dr.S.Priya						
Principal	Dr.R.Sujatha						

SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE

COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: Food Science and processing Management

Course Code: 19BF306

Title of the Course: Cereals and Pulses Practical

Year / Semester: II / III

No of Credits: 2 Credits

Total No. of Students: 14

Course Teacher Name: Mrs. M.Venkata Subbulakshmi

Total No. of Contact Hours: 60

Sl.	Week No.	Name of the Experiment	Page No in the Lab Manual	No. of Hours	Cumulative Hours
No.					
1	1	The anatomy and physical properties of the rice grain.	01	4 + 2	6
2	2 Physical characteristics of Paddy		11-17	4 + 2	6
3	3	Methods of separation.	19-25	4 + 2	6
4	4	Estimation of Volume expansion and solid loss of rice on cooking	27-37	4 + 2	6
5	5	Estimation of water holding capacity of flours.	39-49	4 + 2	6
6	Estimation of bulk density of millets.		51-57	4 + 2	6
7	7	Estimation of sphericity of millets.	59-61	4 + 2	6
8	8	. Foaming capacity and water uptake of composite flour	63-67	4 + 2	6

9	9	Estimation of gelatinization	69	-71	4 + 2	6
10	10	Study of dextrinization and sensory evaluation	73-	-75	4 + 2	6
				Total No.	of. Hours	60

Gap in the Syllabus

SL. NO	Name of the Topic	No of Hours Allotted
1.	General Points to be remembered in the laboratory	2

COURSE PLAN FOR CONTENT BEYOND SYLLABUS

SI.NO	Торіс	Total No of Hours Allotted
1	Nutrient Analysis	2

Designation		Prepared by	
Assistant Professor	Name	Signature	Date
Course Coordinator / Incharge	Mrs. M.Venkata Subbulakshmi		
Programme Coordinator	Mrs.P.Deepalakshmi		

Approved by					
	Name	Signature	Date		
HoD	Ms.A.Sona				
Dean Academics	Dr.S.Priya				
Principal	Dr. R.Sujatha				

<u>SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE</u> COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: B.Sc -Food Science and Processing Management Programme Code : FM1101

Title of the Course : Bakery & Confectionery Practical : 19BF307

Year / Semester : II / III Total No. of Students : 14

No of Credits : 3 Course Teacher Name: Mr.K.Perumal Kannan

	ТОРІС	Reference / Text Book_Page No	*Teaching Aids		of Deliv of Hour	•	Cumulative Hours
Sl. No.		Reference Book_Page	*Tea	L	T	P	
	UNIT – I			•			
7.	Introduction to ingredients / Equipment	(P 138-145)	V	1	0	0	1
8.	Identification and uses of equipment – large, small and utilities	(P 138-145)	V	1	0	0	1
9.	Ingredients – Types of flour	(P 14-49)	V	1	0	0	1
10.	Sugar	(P 14-49)	V	1	0	0	1
11.	Nuts and Dry fruits	(P 03-04)	V	1	0	0	1
12.	Shortenings	(P 14-49)	V	1	0	0	1
13.	Leavening agents	(P 14-49)	V	1	0	0	1

	UNIT – II			_			
1.	Mixing Methods	(P 77-98)	V	0	0	1	1
2.	Basic steps involved in mixing ingredients	(P 77-98)	V	0	0	1	1
3.	Kneading	(P 77-98)	V	0	0	1	1
4.	Stirring	(P 77-98)	V	0	0	1	1
5.	Whipping,	(P 77-98)	V	0	0	1	1
6.	Creaming.	(P 77-98	V	0	0	1	1
	UNIT – III	,			1	1	
1	Simple yeast fermented products	P (146-205)	V	0	0	1	1
2	Bread Sticks	P (146-205)	V	0	0	1	1
3	Bread Rolls	P (146-205)	V	0	0	1	1
4	Hand and Soft Rolls	P (146-205)	V	0	0	1	1
5	Sour dough	P (146-205)	V	0	0	1	1
	UNIT – IV			l			
	$I \cup N \cup I = I \vee$						

2	Basic Buns	P (146-205)	V	0	0	1	1
3	Fruit Buns	P (146-205)	V	0	0	1	1
4	Hot Cross Buns	P (146-205)	V	0	0	1	1
5	Tomato Rolls and Garlic Rolls	P (146-205)	V	0	0	1	1
	UNIT – V				1		
1	Bread Loafs - Milk Bread	P (146-205)	V	0	0	1	1
2	Bread Loaf, Current Loaf	P (146-205)	V	0	0	1	1
3	Whole Meal Bread	P (146-205)	V	0	0	1	1
4	Masala Bread & Raisin Bread	P (146-205)	V	0	0	1	1
	UNIT – VI						
1	Biscuits & Cookies - Plain biscuits	P (161-167)	V	0	0	1	1
2	Piping biscuits; cherry knobs	P (161-167)	V	0	0	1	1
3	langue –de – chats; (cats tongue) salted biscuits	P (161-167)	V	0	0	1	1
4	Nut biscuits	P (161-167)	V	0	0	1	1
5	Coconut biscuits	P (161-167)	V	0	0	1	1
6	Melting moment	P (161-167)	V	0	0	1	1
	UNIT – VII			1	<u>I</u>		

1	Prepare confectioners custard and Mousse	P (194-196)	V	0	1	1	2
TOTAL HRS						35	

Text Book

T1	Srilakshmi,B.Food science, New Age International (P)
T2	Yogambal Sivalingam, Theory of Bakery & Confectionery Visaga Publication, 2005.

Reference Books

R1	Dubey S. Bakery, Wheat Associates of India, 1979.
R2	Malik ,R.K.and Dhingra,K.C. Technology of Bakery products, Modern Bakery
R3	Matz, S.A <i>Bakery Technology</i> , Packaging, Nutrition, Product Development and Quality Assurance, Elsevier, Science publisher Limited, New York, USA, 1989
R4	Thangam E. Philip <i>Modern Cookery</i> (Vols I and II), Orient Long Man, Mumbai, 1999.
R5	Wade, P. Biscuits, cookies and cracker, Vol. 1., Elsevier Applied science publishers Ltd., New York, USA, 1988.

Web Resources

W1	https://www.google.com/search?bih=613&biw=785&rlz=1C1CHBD_enIN912IN912&hl=en&tbm=vid&sxsrf=ALeKk03wisRysKh39DnpgTbj pPBGe8yobA%3A1604914081236&ei=
W2	NA
W3	https://www.google.com/search?q=cold+dessert+images&source=lmns&tbm=vid&bih=800&biw=1821&rlz=1C1CHBD_enIN912IN912&hl=e_n&sa=X&ved=2ahUKEwiriYrKkvXs
W4	https://www.google.com/search?rlz=1C1CHBD_enIN912IN912&sxsrf=ALeKk00f4-Jjdm8uQoMTbeRtgT8hThPs-

	w%3A1604913764144&ei=ZAqpX8ypCKqd4-EPrJeOeA&q=varietie
W5	https://www.google.com/search?q=types+of+bread&rlz=1C1CHBD_enIN912IN912&oq=Types+of+bread&aqs=chrome.0.0i433i457j0l7.1287_9j0j15&sourceid=chrome&ie=UTF-8
W6	https://www.google.com/search?q=varieties+Biscuits+%26+cookies&rlz=1C1CHBD_enIN912IN912&sxsrf=ALeKk01FXN1vOe4T9RIRhT7 XguLGLdD5OA:1604913934914&source=lnms
W7	https://www.google.com/search?q=cold+dessert+images&tbm=isch&ved=2ahUKEwjS0KKskvXsAhXN_TgGHZOTCqEQ2-cCegQIABAA&oq=Cold+dess&gs_lcp=CgNpbWcQARgCMgII

E – Books /Library INFLIBNET RESOURCES

Е	https://www.google.com/search?rlz=1C1CHBD_enIN912IN912&ei=Qcy4X4mmLYPb9QP9j5iABA&q=cake+cookies+chocolate&oq=Cakes+%
1	<u>&sclient=psy-ab</u>
E 2	https://www.google.com/search?rlz=1C1CHBD_enIN912IN912&ei=08y4X_W7K8H99QP
E 3	https://www.google.com/search?rlz=1C1CHBD_enIN912IN912&ei=btG4X_XMLs2AyAOT94egCg&q=Cookies+%26+biscuits&oq=Cookies+%26+biscuits&gs_
E 4	https://www.google.com/search?rlz=1C1CHBD_enIN912IN912&ei=wtG4X_7XDLvUrtoP- Iqi2AE&q=Custard+%26+Cold+deserts&oq=Custard+%26+Cold+deserts&gs_lcp

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
3.	Bakery Major & Small equipments	Assignments	2	НВ
4.	Types of Bread	Assignments	2	НВ
3.	Bread faults &Remedies	Assignments	2	НВ
4.	Essential ingredients	Seminars	2	HT
5.	Cakes & function of ingredients	Assignments	2	НВ

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	-	Seminars	Video	Cold desserts-Jelly, Mouse, Soufflé, Gateaux, Bread based desserts,	3

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	I INTERNAL	I,II III, IV units	60%
2.	II INTERNAL	V, VI, VII units.	40%
3.	End Semester Examination	All seven units	100%

Designation	Prepared by					
	Name	Signature	Date			
Course Coordinator / In-charge	Mr.K.Perumal Kannan					
Programme Coordinator	Mrs.P.Deepalakshmi					

	Appro	oved by	
	Name	Signature	Date
HoD	Ms.A.Sona		
Dean Academics	Dr.S.Priya		
Principal	Dr.R.Sujatha		

SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE

COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: Food Processing and Processing Management Programme Code: FM1011

Title of the Course: Food Additives Course Code : 19BF304

Year / Semester : II/III Total No. of Students: 14

No of Credits : 2 Total No. of Contact Hours: 30

Course Teacher Name: Mrs.M .Venkata Subbulakshmi Corresponding lab Paper : No

	TOPIC	Reference / Text Book_Page No		Mode of Delivery No of Hours			Cumulative Hours
SI. No.		Refere Book_I	*Teaching	L	T	P	
	UNIT – I		•	· ·	•	•	
1.	Food additives definition – Need for Food additives	R2(1-8)	ВВ	1			
2.	Classification		BB	2	1		
3.	Determination of the limit for addition and permissible limits		BB	1	- 1		
4.	Revision/ Class test/Quiz		BB	1			
							6

	UNIT – II					
5.	Types, chemical properties, levels of additions in individual products, toxicity data of Acidulants and Anti Oxidant	R2(9- 32)	BB	1		
6.	Types, chemical properties, levels of additions in individual products, toxicity data of Preservatives	·	BB	1	1	6
7.	Types, chemical properties, levels of additions in individual products, toxicity data of Gums and Emulsifier		BB	2		
8.	Revision/ Class test/Quiz		BB	1		
	UNIT – III					
9.	Types, chemical properties, levels of additions in individual products, toxicity data of Dough Conditioner and flour improvers	W1 (1-7)	BB	2		
10.	Types, chemical properties, levels of additions in individual products, toxicity data of Humectants		BB	1		5
11.	Types, chemical properties, levels of additions in individual products, toxicity data of Enzymes and Starches		BB	1		
12.	Revision/ Class test/Quiz		BB	1	1	
	UNIT – IV					
13.	Types, chemical properties, levels of additions in individual products, toxicity data of Colourants	R2(32- 33)	BB	1		
14.	Types, chemical properties, levels of additions in individual products, toxicity data of Natural and artificial Flavourants and flavor enhancers	R2(30- 32)	BB	2	1	6
15.	Types, chemical properties, levels of additions in individual products, toxicity data of Fat substitutes and Replacers.	W2(1-5)	BB	1		
16.	Revision/ Class test/Quiz		BB	1		
	UNIT – V	I	1	1	l	
17.	Types, chemical properties, levels of additions in individual products, toxicity data of Sweeteners -Natural and synthetic,	W4(1- 12)	BB	1		

18	Chelating agents, antibrowning agents, Nutritional Additives	BB	2	1		5
19	Revision/ Class test/Quiz	BB	1			
				TOT	AL	28

Text Book

T1	Food additives by Brannen A.L., Davidson P.M., Salminen S. and Thorngate J.H.Second Edition, Revised and Expanded.
	Marcel dekker Inc. USA, 2002.

Reference Books

R1	Handbook of Food additives by Thomas Furia
R2	Food Additive R. M. Pandey and S. K. Upadhyay Division of Genetics, Plant breeding & Agrotechnology, National
	Botanical Research Institute, Lucknow, India

Web Resources

W2	www.//http//.Dough Conditioner.pdf
W3	74033L66 FAT REPLACERS final.pdf
W4	Petra Koski Fat substitutes1.pdf
W5	<u>fat replacer.pdf</u>
W5	<u>sweetners.pdf</u>

E – Books /Library INFLIBNET RESOURCES

E1	https://agrimoon.com/wp-content/uploads/Food-Chemistry.pdf
E2	
E3	
E4	

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Permissible level of food additives in various food items	Assignment	2	НВ
2.	Toxicity Data of food Additives	Assignment	1	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	Video	Synthetic Sweeteners Manufacturing	1
2	2	Lecture	Video	Artificial Flavour Making in Industry	1
3					
4					

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit 1	20%
2.	I INTERNAL	UNIT - I, II, III	50%
3.	II INTERNAL	UNIT - III, IV, V	50%
4.	Summative Examination	ALL FIVE UNITS	100%

Designation	Prepared by				
Assistant Professor	Name	Signature	Date		
Course Coordinator / In-charge	Mrs.M. Venkata Subbulakshmi				
Programme Coordinator	Mrs.P.Deepalakshmi				

	Approved by						
	Name	Signature	Date				
HoD	Ms.A.Sona						
Dean Academics	Dr.S. Priya						
Principal	Dr.R. Sujatha						

<u>SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE</u> COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: Food Science and Processing Management Programme Code : FM1011

Title of the Course: Food Safety and Hygiene Course Code : 19BF305

Year / Semester: II/ III Total No. of Students : 14

No of Credits: 2 Total No. of Contact Hours: 30 hrs

Course Teacher Name: Mrs.M. Venkata Subbulakshmi & Ms.A. Sona Corresponding lab Paper: No

Sl. No.	TOPIC	Reference / Text Book_Page No	*Teaching Aids	Mode of Delivery No of Hours			Cumulative Hours
				L	Т	P	
	UNIT – I	-1		<u>'</u>			
1.	Introduction to Food Safety – Definition, Types Of Hazards	E2(3 1-9)	BB	2			6
2.	Physical, Chemical and Biological Hazards		BB	2			
3.	Factors Affecting Food Safety. Importance of Safe Food.		BB	2			
4.	Revision / Test / Quiz		BB	2			
	UNIT – II						
5.	Food Hazards of Physical ,Introduction, Physical Hazards with common example & Control Measure	E2(40-45)	ВВ	3			6
6.	Chemical Origin, Chemical Hazards (Naturally Occurring), & Control Measure		BB	2			
7.	Environmental and Intentionally Added Packaging Material as a		BB	3			

	Threat, Impact On Health						
8.	Revision / Test / Quiz		BB		2		
	UNIT – III	•	l l		1	<u> </u>	
9.	Food Hazards of Biological Origin - Introduction,	E1(180- 221)	BB	2			6
10.	Indicator Organisms, Food Borne Pathogens Bacteria, Virus And Eukaryotes,		ВВ	2			
11.	Seafood And Shell Fish Poisoning, Mycotoxins.		ВВ	2			
12.	Management of Hazard: Need , Control Parameters, Temperature Control, Food Storage		ВВ	2			
13.	Revision / Test / Quiz				2		
	UNIT – IV	- 1	<u>'</u>		1		
14.	Hygiene and Sanitation in Food Lab And Industries: Introduction	W	BB	2			6
15.	Source of Contamination	W	BB	2			
16.	Control Methods using Physical and Chemical Agent	W	BB	3			
17.	Waste Disposal, Personal Hygiene	W	BB/V	3			
18.	Pest and Rodent Control,	W			2		
19.	Revision / Test / Quiz	W					
	UNIT – V						
20.	Role of Quality Control. External Quality Control Activities	W	BB	2			6
21.	Inspection – Preshipment Inspection and Inspection at the Port of Destination	W	ВВ	2			
22.	Certification and Quality Marks	W	BB/V	2			
23.	Food Regulatory Agencies- List out the National & International Standard Bodies	W	ВВ	2			

24. Revision / Test / Quiz	W	2	
TOTAL HOURS			

Text Book

T1 Bhatia.Rand Ichhpujan ,R.L Quality Assurance in	Microbiology CBS publishers and Distributors ,New Delhi 2004.
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Reference Books

R1	Philip.A.C (2001). Reconceptualizing Quality. New Age international Pulishers, Banglore.
R2	Kher,c.p(2000) Quality Control for the foodIndustry.ITC Publishers, Geneva
R3	
R4	

Web Resources

W1	biological hazard ORIGIN food born illness.pdf
W2	contamination control method-and-Personal-Hygiene- Page No 42-47.pdf
W3	quality inspection and regulation.pdf
W4	<u>Unit-15 Nat and inter national.pdf</u>
W5	national and international standards.pdf

E – Books /Library INFLIBNET RESOURCES

E1	Gopakumar, K. 2002. Textbook on Fish Processing Technology, Indian Council of Agricultural Research (ICAR), New Delhi.
E2	Fo O D Safety An D Go O D H Ygien Ic Practices H An Dbo O K Fo R Gambian Yo Uth En Trepren Eurs
E3	
E4	

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Food safety and its concerned laws	Assignment	1	НВ
2.	Allergens	Peer Teaching	2	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	PPT	How to prevent food from contamination	1
2	II		Audio- Visual	How to deduct the Physical contamination	1
3					
4					

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – 1	20%
2.	I INTERNAL	Unit - I, II, III	50%
3.	II INTERNAL	Unit – III, IV, V	50%
4.	End Semester Examination	Unit I to V	100%

Designation	Prepared by		
Assistant Professor	Name	Signature	Date
Course Coordinator / In-charge	Mrs. P. Deepalakshmi		
Programme Coordinator	Mrs.M.Venkata Subbulakshmi		

	Approved by					
	Name	Signature	Date			
HoD	Ms.A.Sona					
Dean Academics	Dr.S. Priya					
Principal	Dr.R. Sujatha					

SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE

COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: Food Science and Processing Management Programme Code : FM1011

Title of the Course: Meal Planning and Balanced Diet Course Code : 19BF308

Year / Semester : I/I Total No. of Students 62

No of Credits : 2 Total No. of Contact Hours 30

Course Teacher Name: Mrs. P. Deepalakshmi Corresponding lab Paper: No

SI. No.	TOPIC	Reference / Text Book_Page No	*Teaching Aids	D	Aode of Ho	y	Cumulative Hours
	UNIT – I	l		1 1			
1.	Definition and Functions of Food	T 1- 26	BB	1			6
2.	BMI, Food guide pyramid		BB/V	1			
3.	Objectives of cooking, Methods of cooking – Dry heat		BB	2			
4.	Moist heat and Combination methods of cooking		BB/V	1			
5.	Revision / Test / Quiz				1		
	UNIT – II						
6.	Food groups - basic five	R 3	BB	1			6
7.	Composition for different food products - Cereals, Pulses	R 27, 71	BB	1			
8.	Nuts and oilseeds, Milk, Egg	R 88,105,131	BB	2	-		

9.	Meat Fish, Poultry, Vegetables and Fruits	R 155,180	BB	1		
10.	Revision / Test / Quiz				1	
	UNIT – III					
11.	Meal panning – Definition & Introduction	R1-23	ВВ	1		6
12.	Principles of meal planning		BB/V	1		
13.	Factors affecting meal planning		ВВ	1		
14.	Meal planning for individuals			2		
15.	Revision / Test / Quiz				1	
	UNIT – IV	<u> </u>			<u> </u>	
16.	Definition of Nutrition, Nutrients, Balanced diet	T 1-9	BB	1		6
17.	Health & Nutritional status		BB	2		
18.	Malnutrition and Undernutrition		BB	1		
19.	RDA – Reference Man and Women	T 17	BB	1		
20.	Revision / Test / Quiz				1	
	UNIT – V					
21.	Functions and sources of Carbohydrates, Protein and Fats	T 21-79	BB	1		6
22.	Vitamins - Classification – Water soluble (Thiamine, Riboflavin, B12)	T 294-316	BB	1		
23.	Fat soluble (A, D, E & K) - Sources, Functions	T 244-293	BB/	1		
24.	Minerals - Sources, Function of calcium	T 165	ВВ	1		
25.	Sources and Functions of Iron & Iodine	T 190	BB	1		
26.	Revision / Test / Quiz	T 214			1	
	TOTAL HOURS	·			•	30

Text Book

T1 S	Srilakshmi, B. Nutrition Science, New Age International (P) Ltd, Publishers, 2006.
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Reference Books

R1	Srilakshmi, B. Food Science, New Age International (P) Ltd, Publishers, 2006.
R2	Srilakshmi, B. Dietetics, New Age International (P) Ltd, Publishers, 2006.

Web Resources

W1	https://www.researchgate.net/publication/313265513 Meal planning is associated with food variety diet quality and body weight s tatus
W2	
W3	
W4	

E – Books /Library INFLIBNET RESOURCES

E1	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=444
E2	
E3	

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Sample - Menu Planning	Assignment	1	НВ

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	PPT	Therapeutic Diet	2

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – 1-5	20%
2.	I INTERNAL	Unit - I, II, III (upto Principles of Meal Planning)	50%
3.	II INTERNAL	Unit – III (from Factors affecting Meal Planning) , IV, V	50%
4.	End Semester Examination	Unit I to V	100%

Designation		Prepared by					
Assistant Professor	Name	Signature	Date				
Course Coordinator / In-charge	Mrs.P.Deepalakshmi						
Programme Coordinator	Mrs.P.Deepalakshmi						

	Approved by							
	Name	Signature	Date					
HoD	Ms.A.Sona							
Dean Academics	Dr.S. Priya							
Principal	Dr.R. Sujatha							

SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme: B.Com B&I Programme Code: CO1004

Title of the Course : NME -Banking Practice Course Code : 19CO307

Year / Semester : II

No of Credits : 2 Total No. of Contact Hours : 30

Course Teacher (s) Name: Mr. R. Dhamotharan Corresponding lab Paper: No

Sl. No.	TOPIC	Reference / Text Book_Page No	ing Aids	Mode of Delivery No of Hours			Cumulative Hours	
		Refere Book_]	*Teaching	L	Т	P		
	UNIT – I	1	4	- I				
1.	Introduction to Banking - Bank – Meaning and Definition	NA	PPT	1			1	
2.	Primary Functions - Secondary Functions,	NA	PPT	2			3	
3.	Exercise 1 - Filling a Loan Application Form (Deposit)	NA	PPT	1			4	
4.	Exercise 2 - Filling a Loan Application Form	NA	PPT	1			5	

	UNIT – II					
5.	Banking Products - Deposit Products - SB-CA- FD- RD	NA	GD	2		7
6.	Loan Products - HL-AL-EL-AJL	NA	PPT	2		9
7.	Exercise 3 - Help Desk	NA	PPT	1		10
8.	Exercise 4 - Single Window Operation	NA	PPT	1		11
	UNIT – III				l l	
9.	Vouchers - Meaning and Importance of Vouchers	NA	PPT	2		13
10.	Various Type of Vouchers	NA	V	2		15
11.	Exercise 5 Filling a Withdrawal Slip - Exercise 6 - Filling a Pay-in-slip	NA	PPT	1		16

12.	Exercise 7 -Drawing a Cheque	NA	WS	1	17
	U	NIT – IV			
13.	Credit Appraisal Techniques	NA	PPT	2	19
14.	Loan Appraisal - Debt Collection	NA	PPT	2	21
15.	Exercise 8 - Credit Appraisal Techniques	NA	V	1	22
16.	Exercise 9 - Recovery of loans	NA	WS	1	23
	U	UNIT – V			
17.	E- Banking services	NA	GD	2	25
18.	ATMs (Automated Teller Machines)	NA	PPT	1	26
19.	Smart Cards - EFT	NA	V	1	27

	TOTAL HOURS						30	
21.	How to operate E-banking services.	NA	V	2			30	
20.	Mobile Banking - Internet Banking	NA	PPT	1			28	

Text Book

T1 Study material provided by Course faculty	
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Reference Books

R1	E.Gordon and K.Natarajan, Banking Theory, Law & Practice, Himalaya Publishing House, Mumbai, 2014.
R2	Sundharam K.P.M and Varshney P.N., Banking Theory, Law & Practice, Sultan Chand and Sons, New Delhi, 2014.

Web Resources

W1	https://www.freebookcentre.net/Business/Banks-and-Banking-Books.html

E – Books /Library INFLIBNET RESOURCES

E1	https://www.freebookcentre.net/Business/Banks-and-Banking-Books.html

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Primary Functions - Secondary Functions	Assignment	1	НВ
2.	E- Banking services	Seminar	1	НВ
3.	Credit Appraisal Techniques	Peer teaching	1	НВ

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	PPT	Merchant Banking	1
2	II	Lecture	PPT	Role & Function of RBI	1
3	V	Lecture	Video	Financial Institutions and Services	1

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1	SLIP / CLASS TEST	Unit - 1	20%
2	I INTERNAL	Unit - I, II, III (upto Importance of Vouchers)	50%
3	II INTERNAL	Unit – III (from various types of Vouchers), IV, V	50%
4	End Semester Examination	Unit I to V	100%

Designation	Prepared by						
	Name	Signature	Date				
Course Coordinator / In-charge	Mr.R.Dhamotharan						
Programme Coordinator	Mrs.V.Padmavathy						

	Approved by								
	Name	Signature	Date						
HoD	Mrs.V.Padmavathy								
Dean Academics	Dr.S.Priya								
Principal	DR.R.Sujatha								

COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: Food Science and Processing Management Programme Code: FM1011

Title of the Course: Food Design

Course Code :18BF501

Year / Semester : III / V Total No. of Students : 12

No of Credits : 5 Total No. of Contact Hours : 75

Course Teacher Name: Mrs. P. Deepalakshmi

Corresponding lab Paper: Yes

Sl. No.			ence / Text Page No	hing Aids	I	Mode o Deliver; of Hou	y	Cumulative Hours
			Reference/ Book_Page	*Teaching	L	T	P	
	UNIT – I							
1.	Introduction, Objectives of product development	R1	-13	BB	3			15
2.	What is a new product, Reasons why products fail in the market?			BB/V	4			
3.	Stages of food product development –Idea generation, Screening and Evaluation			BB	3			
4.	Business analysis, Development, Market testing and Commercialisation			BB	3			
5.	Revision / Test / Quiz			BB		2		
	UNIT – II							

6.	Development of the food product	T 95-144	BB/V	3		15
7.	Assessment of food products		BB	3		
8.	Ingredient selection and formulation, Pilot production		BB	3		
9.	Packaging and nutritional labelling designs		BB/V	2		
10.	Product pricing, Pilot survey		BB	2		
11.	Revision / Test / Quiz				2	
	UNIT – III	·				
12.	Market testing and Commercialization	R 3-13	BB	2		15
13.	Introduction to Product management/ Product life cycle		BB	3		
14.	Growth, maturity and decline stages		BB/V	2		
15.	Classifying products: -Consumer goods-Convenience, Shopping, Speciality, Unsought goods	R 17-29	BB	3		
16.	Industrial goods-production, and support goods		BB/V	3		
17.	Revision / Test / Quiz				2	
	UNIT – IV		•	1		1
18.	Food product planning-Modifying the product	R 164- 195	BB	3		14
19.	Modifying the market, Repositioning the product		BB	3		
20.	Branding, Licensing and Acquisition,		BB	3		
21.	Franchising, Product Warranty		BB	3		
22.	Revision / Test / Quiz				2	
	UNIT – V	1	1		1	
23.	Feasibility study, Plant layout	R 3-55	BB/V	3		12
24.	Processing Equipment Selection		BB/V	3		
25.	Equipment Selection and Installation		BB/V	3		
26.	Optimization of Production operations		BB	3		
27.	Revision / Test / Quiz		BB		2	
	TOTAL HOURS				•	73

Text Book

T1	Earle, M., Earle, R., and Anderson, A. 2001. Food Product Development. CRC Press.

Reference Books

R1	Grap, E., Saguy, and Graf, E. 1991. Food Product Development: From Concept to the Marketplace. Kluwer Academic
	Publishers

Web Resources

W1	https://www.economicsdiscussion.net/marketing-2/classification-of-products/31799
W2	http://academic.brooklyn.cuny.edu/economic/friedman/mmproductpolicy.html
W3	https://www.wipo.int/export/sites/www/classifications/nice/en/pdf/8_list_class_order.pdf

E – Books /Library INFLIBNET RESOURCES

E1	http://www.scribd.com/doc/3763678/Product - planning
E2	https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=15
E3	https://onlinelibrary.wiley.com/doi/pdf/10.1002/9780470376898.fmatter

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Characteristics of Marketing Strategies	Assignment	1	НВ
2.	Food Product Development	Peer Teaching	2	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	Audio Visual	Labelling designs for food products	2

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – 1- 5	20%
2.	I INTERNAL	Unit - I, II, III (upto Decline stages)	50%
3.	II INTERNAL	Unit – III (from Classifying Products), IV, V	50%
4.	End Semester Examination	Unit I to V	100%

Designation		Prepared by	
Assistant Professor	Name	Signature	Date
Course Coordinator / In-charge	Mrs.P. Deepalakshmi		
Programme Coordinator	Mrs.P. Deepalakshmi		

	1	Approved by	
	Name	Signature	Date
HoD	Ms.A.Sona		
Dean Academics	Dr.S. Priya		
Principal	Dr.R. Sujatha		

COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: Food Science and Processing Management Programme Code : FM1011

Title of the Course: Food Entrepreneurship Course Code : 18BF502

Year / Semester : III/V Total No. of Students : 12

No of Credits : 5 Total No. of Contact Hours : 75

Course Teacher Name: Mrs. M. Venkata Subbulakshmi Corresponding lab Paper: No

Sl. No.	TOPIC		*Teaching Aids	D	Aode of Ho	y	Cumulative Hours
	UNIT – I	1	II.			1	
1.	Introducation and Who is an entrepreneur/Soft skill for entrepreneurs	W6	BB	3			15
2.	profile of the food processing sector in India	W6	BB/V	2			
3.	Planning a small scale Industry-whom to approach for what business opportunity identification	W6	BB	3			
4.	Agribusiness management challenge	W6	BB/V	2			
5.	Revision / Test / Quiz				2		
UNIT – II							
6.	The scope and size of the agri-food system; Changing perception of food; Evolution and future of the Agri-Food System	T1 (152-154)	BB	3			15
7.	The Future of the Agri-Food System: The Input Sector, Production Sector		BB	3			

8.	Shifting roles of exports and imports	W1	BB	3		
9.	Agriculture and the environment; Commodity processing and food manufacturing sector	W1	BB	4		
10.	Revision / Test / Quiz				2	
	UNIT – III	l	<u> </u>		11	
11.	Environmental analysis	W2	BB	4		15
12.	project selection & project appraisal	W2	BB/V	3		
13.	modification/ finalization of project & collaborations	W3	BB	3		
14.	preparations for launching & trial run and test marketing	W3		4		
15.	Revision / Test / Quiz	W3			1	
	UNIT – IV	1	•	1		1
16.	The Role of Marketing	T1 (168-184)	BB	3		12
17.	Marketing of Agricultural input and Marketing of Agricultural product.		BB	3		
18.	Market research for agribusiness		BB	2		
19.	Retail and supply chain management		BB	2		
20.	Revision / Test / Quiz				2	
	UNIT – V	1	1			1
21.	Commodity trading and forecasting for agribusiness	W4	BB	2		12
22.	Retail and supply chain management.	T1(172-174)	BB	2		
23.	Management of cooperation. Agribusiness projects and enterprise.	T1(203-238)	BB/ Bpt	2		
24.	Management of agribusiness trade in WTO environment.		BB	3		
25.	Agricultural and food policy. Rural environment and institution		BB	3		
26.	Revision / Test / Quiz				1	
	TOTAL HOURS					69

Text Book

T1	Principles of Agribusiness Management by James G.Beierlein, Kenneth C.Schneeberger and Donald D. Osburn.

Reference Books

R1	Marketing Management by Philip Kotler, Pearson Education Publishers.
R2	Marketing Management by Dr. P. K. Srivastava, Sterling Pub. Pvt. Ltd. 1991.
R3	Marketing Management by Dr. S. C. Jain, IBP(International Business Press)

Web Resources

W1	(PDF) Impact of agricultural practices on environment (researchgate.net)
W2	Project external environmental factors affecting project delivery systems selection Journal of Civil Engineering and Management (vgtu.lt)
W3	guide-to-rapid-market-appraisal-for-agricultural-products.pdf
W4	rural development.pdf
W5	Starbucks08JIBEDVol3No.3withKogetsidesH.pdf
W6	http://www.ddegjust.ac.in/studymaterial/mba/cp-401.pdf

E – Books /Library INFLIBNET RESOURCES

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Marketing Functionaries	Assignment	2	НВ
2	Marketing Survey	Seminar	2	НВ

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	PPT	Market Survey	2

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit 1	20%
2.	I INTERNAL	UNIT - I, II, III	50%
3.	II INTERNAL	UNIT - III, IV, V	50%
4.	Summative Examination	ALL FIVE UNITS	100%

Designation	Prepared by						
Assistant Professor	Name	Signature	Date				
Course Coordinator / In-charge	Mrs. M. Venkata Subbulakshmi						
Programme Coordinator	Mrs P.Deepalakshmi						

	Approved by								
	Name	Signature	Date						
HoD	Ms.A.Sona								
Dean Academics	Dr.S. Priya								
Principal	Dr.R. Sujatha								

COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: B.Sc Food Science and Processing Management Programme Code : FM1011

: Food Regulation and Plant Management **Course Code Title of the Course** : 18BF503

Year / Semester : III/V **Total No. of Students** 12

No of Credits **Total No. of Contact Hours** : 60

Course Teacher (s) Name : Ms.A.Sona Corresponding lab Paper : No							
	TOPIC		ing Aids	Mode of Delivery No of Hours			Cumulative Hours
SI. No.		Reference / Tex Book_Page No	*Teaching	L	T	P	
	UNIT – I	•	•	1	•	•	
1.	Quality Control – Introduction	T1 - 10	BB	1			10
2.	Production planning and Network analysis – Introduction	W4	BB	1			
3.	Evaluation of food quality	W3	BB	1			
4.	Concept of total quality control (TQM)	T1 - 19	BB	2			
5.	Objectives of production planning	W4	BB	1			
6.	Procedure of production control	W4	BB	1			
7.	Project planning network / PERT	W4	BB	1			

8.	CPM network	W4	BB	1		
9.	Revision				1	
	UNIT	– II	•	•		<u> </u>
10.	Requirement of good manufacturing process (GMP)	W1	BB	1		11
11.	Good hygienic process (GHP)	W1	BB	1		
12.	Codex alimentarius commission, AGMARK	W1	BB	1		
13.	FPO	W1	BB	1		
14.	PFA	W1	BB	1		
15.	BIS, consumer protection act	W1	BB	1		
16.	Vanaspati control order	W1	BB	1		
17.	MMPO	W1	BB	1		
18.	Export quality control and inspection act	W1	BB	1		
19.	Food safety and standards act of India,	W1	BB	1		
20.	Revision				1	
	UNIT					
21.	Use of hazard analysis critical control Point	W1	BB	1		10
22.	HACCP implication in food industries	W1	BB	1		
23.	ISO–9000 series	W1	BB	2		
24.	ISO 22000:2005 Series	W1	BB	2		
25.	ISO 19011	W1	BB	1		

26.	Bioterrorism and food safety	E1	BB	2			
27.	Revision				1		
	UNI	$\Gamma - IV$				<u> </u>	
28.	Types of organization structure	W2	BB	1			11
29.	Principles of development of organization structure	W2	BB	2			
30.	Forms of business organization	W2	BB	2			
31.	Division of industries	W2	BB	1			
32.	Industrial sectors (private and public)	W2	BB	2			
33.	Problems associated to public sector industries	E2	BB	1			
34.	Social obligations of industries towards society	W3	BB	1			
35.	Revision				1		
	UNI	T - V					
36.	Industrial disputes act –1947	W1	BB	2			12
37.	WTO	E3	BB	2			
38.	GATT	E3	BB	2			
39.	Patent Laws	W1	BB	2			
40.	IPR	W1	BB	3			
41.	Revision				1		
	Total Ho	urs					54
	ı						

COURSE PLAN FOR CONTENT BEYOND SYLLABUS

SI.NO	Module	Lecture	Planned Topics	Total No of Hours Allotted
1	1	Lecture1	Principles of HACCP	2

Gaps in the Syllabus –To meet Industrial Requirements

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	ISO 9000 series	Assignment	1	HT
2.	Unit – 2	Seminar	3	HT

Text Books

T1	J.Andres Vasconcellos (2005) "Quality Assurance for the Food Industry" CRC press, New York Washington, D.C.

Web Resources

W1	http://www.ignouhelp.in/ignou-mscdfsm-study-material/
W2	https://epgp.inflibnet.ac.in/

W3	http://cbseacademic.nic.in/web_material/Curriculum21/publication/srsec/UNIT7_BA_XII.pdf
W4	http://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000023MA/P001403/M016054/ET/1465205522Module-36Entre.pdf

E – Books /Library INFLIBNET RESOURCES

E1	Dina Solodoukhina (2011) "Food Safety and Bioterrorism from Public
	Health Perspective"
E2	Taranjeet Singh (2016) "Public Sector and its Problems in India"
E3	K.B Vedamurthy "Agribusiness Management and Trade" Agrimoon.com

Topics beyond Syllabus

Module 1	http://www.ignouhelp.in/ignou-mscdfsm-study-material/

Sl. No.	Mode	Proposed Portions to be	Proportion (Portion) in Percentage (to

		Covered	be decided by the Department)
1	SLIP / CLASS TEST	ALL FIVE UNITS	20%
2	I INTERNAL	UNIT - I, II, III	50%
3	II INTERNAL	UNIT - III, IV, V	50%
4	End Semester Examination	Unit I to V	100%

Designation	Prepared by		
	Name	Signature	Date
Course Coordinator / In-charge	Ms.A.Sona		
Programme Coordinator	Mrs. P. Deepa Lakshmi		

	Approved by				
	Name	Signature	Date		
HoD	Ms.A.Sona				
Dean Academics	Dr.S.Priya				
Principal	Dr.R.Sujatha				

COURSE PLAN – 2020 – 21 (ODD SEMESTER)

Name of the Programme: Food Science and processing Management

Course Code: 18BF504

Title of the Course: Food Design Practical Year / Semester : III / V

No of Credits: 2 Credits

Total No. of Students: 14

Course Teacher Name: Mrs.M. Venkata Subbulakshmi

Total No. of Contact Hours: 60

Sl. No.	Week No.	Name of the Experiment	Page No in the Lab Manual	No. of Hours	Cumulative Hours
1	1	Market and literature survey to identify the concepts of new products based on special dietary requirements, functionality, convenience and improvisation of existing traditional Indian foods.	1-9	6+4	10
2	2	Screening of product concept on the basis of techno-economic feasibility.	9-12	4+3	7
3	3	Development of prototype product and Standardization of formulation process.	12-16	4 + 4	8
4	4	Proximate Analysis of New Product	16-24	4 + 4	8
5	5	Packaging, labeling and shelf-life studies	24-29	6 + 2	8
6	6	Marketing of the developed product	30-37	6+2	8

7	7	Cost analysis and Final Project Report	37-40	6 + 2	8
			Total No. of. Hours		60

Gap in the Syllabus

SL. NO	Name of the Topic	No of Hours Allotted
1.	Nutrient Quantitative Analysis	2

COURSE PLAN FOR CONTENT BEYOND SYLLABUS

SI.NO	Торіс	Total No of Hours Allotted
1	New Products Idea Generation	1

Designation	Prepared by					
Assistant Professor	Name	Signature	Date			
Course Coordinator / Incharge	Mrs. M.Venkata Subbulakshmi					
Programme Coordinator	Mrs.P.Deepalakshmi					

	Approved by						
	Name	Signature	Date				
HoD	Ms.A.Sona						
Dean Academics	Dr.S.Priya						
Principal	Dr. R.Sujatha						

SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE **COURSE PLAN – 2020 – 21 (ODD SEMESTER)** Name of the Programme: B.Sc (Animation, Viscom, FIS, FS&PM, MCHM, CS, Networking), BBA, B.Com (B&I, Hons, ACCA) Course Code: 18CRT509 **Title of the Course** : CRT English III Practical Total No. of Year / Semester: III YEAR / V SEMESTER 12 **Section: Students:** Total no. of Contact No.Of Credits: 3 hours: 30 Course Teacher (s) Name: Mrs.R.Suganthi Hepzibha, Ms.T.S.Sridevi, Mr.C.Senthilkumar and Mr.V.V.Sundaram Reference / **Teaching** Mode of Delivery No. of S. No **Topic** text Book Aids Hours Page No. T 1 / R 04 L T P Unit I WL BB 1 Self Introduction 3 2 WL BB/PPT/V Acquiring Confidence in Speaking English 3 **Unit II** 1 R3-49 BBLife Skills – Leadership, Time Management, Team Building 3 and Social Skills

2	Resume Writing	R2-113	BB	3		
	Unit III				4	·I
1	Basics of Personal Interview	WL	BB	2	1	
2	Mock Interview	NA	BB	2	1	
	Unit IV				- I	<u> </u>
1	Basics of Group Discussion	WL	BB	2	1	
2	Mock Group Discussion	NA	BB	2	1	
	Unit V		l		<u> </u>	I
1	Placement Training – Vocabulary, Sentence Correction, Essay Writing	WL	ВВ	2	1	
2	Communication Practice for Placements	NA	BB	2	1	
Reference I	Books					
R1	Sanjay Kumar, Pushp Lata. Communication Skills. New Delhi: 0	Oxford Universi	ity Press, 1999	. Print.		
R2	Srivasan Hema. Communication Skills. Bangalore: Frank Broth	ers & Co. Ltd, 2	2004. Print.			
R3	Dr.P.Prasad. The Functional Aspects of Communication Skills . Bangalore: S.K.Kataria and Sons Ltd, 2005. Print.					
E – Books /	Library INFLIBNET RESOURCES			•	•	•
E1	https://nlist.inflibnet.ac.in/search/Record/EBC483375					
E2	https://nlist.inflibnet.ac.in/search/Record/EBC481114					
E3	https://nlist.inflibnet.ac.in/search/Record/EBC1864716					

	Gaps in the Sylla	abus		T		
SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)		
1	Extempore	Seminar	3	(ПВ)		
2	On Any Modules	Peer teaching				
3	NA	Industrial Visit	NA	NA		
	COURSE PLAN FOR CO	ONTENT BEYOND SYLI	LABUS	T T		
SI.NO	Module	Lecture	Planned Topics	Date	Time	Total No of Hours Allotted
1	1	Lecture1	Lecture 1	Newspape r/Article reading		
2	2	Lecture2	Lecture 2	Collecting & Reporting News		
3	3	Lecture3	Lecture 3	Learning a New Word Everyday		

	PORT	ION FOR EXAMINATION				
Sl. No.	Mode	_	Covered Percentag		n (Portion) in be decided by the artment)	
1	I INTERNAL	UNIT - I, II, V		50%		
2	II INTERNAL	UNIT - III, IV, V		50%		
3	Summative Examination	ALL 5 UNITS) 	1	100%	
Prepared by	<i>y</i>					
	Designation		N	ame	Signature	
Course Coor	dinator / In-charges		Mr.S.Sivakı	ımar		
Module Coo	rdinator		Mrs.R.Suganthi Hepzibha			
Approved b	y					
	Name	Signature	Date			
HoD	Mrs.R.Suganthi Hepzibha					
Dean Academics	Dr.S.Priya					
Principal	Dr.R.Sujatha					

SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE DEPARTMENT OF FOOD SCIENCE AND PROCESSING MANAGEMENT ACADEMIC YEAR 2020-2021 (Even)

PREAMBLE

S. No.	Cor	arse Code	Course Name	Faculty In-Charge
1.	201	JT201	Tamil 1	Ms.Sailakshmi
2,	201	ÚH101	Hindi T	Mrs.Neela
3.	20	UGE202	English T	Ms.T.Sridevi
4.	20	0BF203	Fundamentals of Food Processing and Preservation	Ms.Sona
5.	20	0BF206	Fundamentals of Food Processing and Preservation Practical	Mrs.Deepalakshmi
6.	2	0BF204	Food Microbiology	Mrs.Venkata Subbulakshm
7.	1 2	20BF207	Food Microbiology Practical	Mrs.Venkata Subbulakshm
8.	. 2	20BF205	Principles of Financial Operations	Mrs. Padmavathy
9	.	20BF208	Computer Applications Practical	Mr.Rajkumar
1	0.	20ES210 ,	Environmental Studies	Mrs.Venkata Subbulakshm
,	11.	19UT401	Tamil 12	Ms.Sailakshmi
	12.	19UGE402	English	Mr.Senthil Kumar / Ms . 7
	13.	19BF403	Dairy, Meat and Poultry Processing	Mrs.Deepalakshmi
	14.	19BF404	Fish and Seafood Processing	Mrs.Venkata Subbulakshm
	15.	19BF405	Basic and Therapeutic Nutrition	Ms.Sona
	16.	19BF407	Basic and Therapeutic Nutrition Practical	Mrs.Deepalakshmi
	17.	19BF406	Food Packaging	Mrs.Deepalakshmi
	18.	19BF410	Food Preservation	Mrs.Deepalakshmi

	19CO405	Consumer Affairs-NME	Mr.Kodiarasu
9.	1900403	Consumer rimano rima	Ms.Sona
20.	19BF408	Evaluation of Food Quality	Ms.Sona
			Mrs. Venkata Subbulakshmi
21.	19BF409	Food Ethics	IVIIs. Velikata 5 5 5

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PRINCIPAL

SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

1. Name of the Programme:	2. ANI/VIS/CS/Net/MCHM/FSI	NI/VIS/CS/Net/MCHM/FSPM/B.Com B&I/HONS&ACCA/BBA				
3. Course Name :	4. General Tamil II	5. Course Code :	6. 20UT201			
7. Year / Semester	8. I/II	9. Section	10.			
11. Total No. of Students	12. 51	13. No. of Credits	14. 3			
15. Corresponding lab Paper	16. Yes / No.	17. Total No. of Contact Hours	18. 3			
19. Course Teacher Name	20.	1				

Sl. No.	TOPIC	/ Text ing		*Teach ing No of Hours Aids			Cumulative Hours
				L	Т	P	
	UNIT – I	'					
1	திருஞானசம்பந்தர்- (திருஆலவாய்	СМ/2	BB	2			2
2	திருநாவுக்கரசர் - (நமச்சிவாய திருப்பதிகம்)	СМ/3	BB	2			2
3	சுந்தரர் – (திருப்பூவணம் திருத்தலம்)	См/4	BB	2			2
4	ஹெ.ஆ.கிருஷ்ணப்பிள்ளை(இரட்சணிய மனோகரம்)	CM/5	BB	3			3
	UNIT – II						
5	பொய்கையாழ்வார் - (முதல் திருவந்தாதி)	СМ/6	BB	2			2

Sl. No.	TOPIC	Reference / Text Book Page No	*Teach ing Aids	Mode of Delivery No of Hours		•	Cumulative Hours
6	நம்மாழ்வார்- (திருவாய்மொழியில்)	СМ/7	BB	2			2
7	ஆண்டாள் -(திருப்பாவை)	СМ/8	BB	2			2
8	குணங்குடி மஸ்தான் சாகிபு (பராபரக்கண்ணி)	СМ/9	BB	3			3
	UNIT	Γ – III					
9	பலவீனத்தை பந்தாடுவோம் - வெ.இறையன்பு	СМ/10	BB	2			2
10	தமிழ்நாட்டு காளை விளையாட்டும் மேல்நாட்டு காளைப்போரும்-முனைவர் ஆ.முத்தையா-	CM/15	BB	2			2
11	இன்றியமையா இதழியல் கலை - முனைவர்.மா.பா.குருசாமி	CM/24	BB	2			2
12	தமிழில் அறிவியல் -மணவை. முஸ்தபா -	СМ/28	BB	2			2
13	கறுப்பு- முனைவர் தொ. பரமசிவன்	см/34	BB	1			1
	UNIT	$\Gamma - IV$					
14	சொல்வகைகள்	см/39	BB	3			3
15	அணிஇலக்கணம்	СМ/42	BB	3			3
16	வினாவும் – விடையும்,	СМ/44	BB	3			3
	UNI	$\Gamma - \mathbf{V}$					
17	பக்தி இலக்கியத்தின் தோற்றமும் வளர்ச்சியும்	СМ/48	BB	3			3
18	உரைநடையின் தோற்றமும் வளர்ச்சியும்	CM/50	BB	3			3
19	கட்டுரைப்பயிற்சி.	-	BB	3			3
	TOTAL HOURS	8					45

L – Lecture T – Tutorial (Problems / Example Programs / Revision Classes) P – Practical

* LCD / PPT / Black Board (BB) / Worksheet(WS) / Video (V) / Group Discussion (GD) / Blended & Flipped (BF) / Open Educational Resources (OER) media that are freely accessible, Google tools like Drive (GRV), Google Docs (GDO), and Google Slides(GS), Google Forms (GOF) and Whiteboards(WB), Wikipedia (W) any other tools may also be included. [Mark the abbreviation in the teaching aids column]

Course Material

21. பொதுத்தமிழ்II – பாடநூல் தொகுப்பு கல்லூரித் -தமிழ்த்துறை வெளியீடு

Reference Books

- 1. தேவாரம்.சைவசித்தாந்த நூற்பதிப்புக்கழக வெளியீடு, கும்பகோணம்: 1990. Print.
- 2. நாலாயிரதிவ்வியப்பிரபந்தம்.சைவசித்தாந்த நூற்பதிப்புக்கழக வெளியீடு,1992 .Print.
- 3. சங்க இலக்கியமும் உரைநடையும்.மதுரை காமராசர் வெளியீடு, சென்னை: 1982. Print.
- 4. இதழியல்கலை.முனைவர்.மா.பா.குருசாமி.தமிழ்ப்புத்தக்காலயம், சென்னை: 1975. Print.
- 5. பயன்பாட்டுத்தமிழ் இலக்கணம்.மணிவாசகர் பதிப்பகம், மதுரை: 1995.Print.
- 6. தண்டியலங்காரம்.சைவ சித்தாந்த நூற் பதிப்புக் கழக வெளியீடு,சென்னை: 1976.Print.
- 7. தமிழ் இலக்கிய வரலாறு-1 .மது.ச.விமலானந்தம். முல்லை நிலையம், சென்னை: 1976.Print.

Gaps in the Syllabus

SL.	Name of the Topic	PROPOSED ACTION	No of Hours	Hours with in the Time Table (HT) /
NO			Allotted	Hours beyond the Time Table (HB)
1.	செய்தித்தாள்கள் வாசித்தல்		2	(HB)
2.	புத்தகம் வாசித்தல்		2	(HB)

^{*} Proposed Actions can be Assignments, Seminars, Peer Teaching, Industrial Visit, Others (if any) COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	1.1	Assignment	2	கட்டுரை எழுதுதல்	2
1	1.1.1	Seminar	2	புத்தகம் வாசித்து விமர்சனம் செய்தல்	2
2	2.1	Peer teaching	2	நடைமுறை நிகழ்வுகளை கலந்தாலோசித்தல்	2

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage					
1.	SLIP / CLASS TEST	Unit – I	20%					
2.	I INTERNAL	Unit – I, II, III (up to)	40%					
3.	II INTERNAL	Unit – III (from) , IV, V	40%					
4.	End Semester Examination	Unit I to V	100%					

Designation	Prepared by						
	Name Signature Date						
Course Coordinator / In-charge	Mrs.N.SELVI						

Approved by							
Name Signature Date							
HoD	Mrs.N.SELVI						
Dean Academics	Dr.S.PRIYA						
Principal	Dr.R.SUJATHA						

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

	23. B.Sc Animation, Viscom, CS, Networking, Food Science & Processing, Fire & Industrial Safety and Marine Catering Hotel Management, B.Com B&I, Honors and ACCA					
22. Name of the Programme :						
	24.					
25. Course Name :	26. Hindi II	27. Course Code :	28. 20UH201			
29. Year / Semester	30. I / II	31. Section	32.			
33. Total No. of Students	34. 1	35. No. of Credits	36. 3			
37. Corresponding lab Paper	38. No	39. Total No. of Contact Hours	40. 45			
41. Course Teacher Name	42. Mrs.S.Neela					

Sl. No.	ТОРІС	Course Material Page No	*Teach ing Aids	Mode of Delivery No of Hours		Cumulative Hours	
				L	Т	P	
	UNIT – I - गद्य(Prose)						
1	चालीस करोड़ कुरते कहाँ से	CM-02	BB / PPT	2	1		3
	Chaleeskaroodkurthea khan say						

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme :	B.Sc Animation, Viscom, CS, Networking, Food Science & Processing, Fire & Industrial Safety and Marine Catering Hotel Management, B.Com B&I, Honors and ACCA						
Course Name :	Hindi II Course Code: 20UH201						
Year / Semester	I/II	Section					
Total No. of Students		No. of Credits	3				
Corresponding lab Paper	No Total No. of Contact Hours 45						
Course Teacher Name	ne Mrs.S.Neela						

Sl. No.	TOPIC	Course Material Page No	*Teachi ng Aids	Mode of Delivery No of Hours			Cumulative
				L	Т	P	Hours
	UNIT – I - गग	ाग (Prose)					
1	गमममा गमममा गमममा ग गमा गाChaleeskaroodkurthea khan say	CM-02	BB / PPT	2	1		3
2	गममममा गममा गममममा गम गममा गममा – Dhakshin Bharath Hindi pracharsabha	CM-3	BB / PPT	2	1		3
3	गमममा गमममा — Hindi divas	CM-6	BB / PPT	2	1		3
4	трррррр трр трр трр — Olympic Meinbharatheeya mahilaon ney jande	CM-4	BB / PPT	2	1		3

Sl. No.	TOPIC	Course Material Page No	*Teachi ng Aids	Mode of Delivery No of Hours		y Cumulative Hours
	gadhdiyea					
	UNIT — II - गममममम	門 (Adho	onikkavitl	na)		,
5	गममा - Seeko	CM-7	BB / PPT	1	1	2
6	गममा गमा ?- badakounhai	CM-8 BB / PPT		1	1	2
7	трррр трт трррррр — pushpakeeabhilasha	CM-11	BB / PPT	1	1	2
8	ग्ग ग्ग्ग्ग - Eakhboondh	CM-9	BB / PPT	1	1	2
	UNIT – III - गमममममम	मिमा (Ap	plied gran	nmar)		
9	трурур трурур трурур I – Hindi prachaarvahinee (11 to 20)	CM-14 to 33	BB / PPT	2	1	3
10	трррр тррррр тррр 1 — Subodh Hindi rachna(5 to 11)	CM-34 to 54	BB / PPT	2	1	3
11	गम्ममा गम्ममा – opposites - Selected 25		BB / PPT	2	1	3
	ANIT – IA - Ahhhhhhhhl 1hh	ामा (Nati	onal know	(ledge)		
12	трррррррр _ трт_трт _ National Anthem-Jana-Gana-Mana	CM-56	BB / PPT	3	1	4
13	ТРРРРРРРРР — vandematharam	CM-57 to	BB/	2	1	3

Sl. No.	TOPIC	Course Material Page No	*Teachi ng Aids	Mode of Delivery No of Hours		Cumulative Hours					
	(First two paragraphs)	59	PPT								
	UNIT – V – गममा (Letter Writing)										
14	TRPPI TRPPI - Personal Letter (Asking permission to father for tour, Letter to friend to study Hindi)	CM-60	BB / PPT	2	1		3				
15	ТРРРРРР ТРРГ - Official Letter (Asking for loan, Opening a bank account)	CM-61	BB / PPT	2	1		3				
16	TREFFER TREFF - Commercial letter (Ordering books to the book company, Letter to the company regarding missing parcel)	CM-62 BB / 2 1 PPT			3						
TOTAL HOURS											

Course Material

8. Hindi II. A Complied book, covering all the topics of the syllabus prepared by the Department of Hindi.

Reference Books

- 1) тререрри тререр тр

33 to 51,129 to 150

3) Dr.K.M.Chandra Mohan. Hindi Vatayan. Viswavidhalaya Prakasan Chowk, Varanasi-221001:Print.

Webliography

4) https://en.wikipedia.org/wiki/Jana Gana Mana https://en.wikipedia.org/wiki/Vande_Mataram

Gaps in the Syllabus

SL. NO	Name of the Topic	Proposed Action	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Speaking Skill – Self Introduction		2	НТ
2.	Reading Skill – Reading Activity		2	НТ
3.	Speaking Skill – Assignment		1	НВ

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – IV	20%
2.	I INTERNAL	Unit – II, I(Chapter 1 & 2)	50%
3.	II INTERNAL	Unit – I (Chapter 3 & 4), III,V	50%
4.	End Semester Examination	Unit I to V	100%

Designation	Prepared by					
	Name	Signature	Date			
Course Coordinator / In-charge	S.Neela					

Approved by								
	Name	Signature	Date					
HoD	S.Neela							
Dean Academics	Dr.S.Priya							
Principal	Dr.R.Sujatha							

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme :		B.Sc Animation, Viscom, CS, Networking, Food Science & Processing, Fire & Industrial Safety and Marine Catering Hotel Management						
Course Name :	General English II	Course Code :	20UGE202					
Year / Semester	I/II	Section						
Total No. of Students		No. of Credits	3					
Corresponding lab Paper	No	Total No. of Contact Hours	45					
Course Teacher Name	Mrs.R.Suganthi Hepzibha	•	•					

Sl. No.	TOPIC	Course Material	*Teachi	Mode of Delivery No of Hours			Cumulative
	Page N		Aids	L	Т	P	Hours
	UNIT – I - GRA	AMMAR					
1	Sentence Pattern: Introduction- Types of Sentence Pattern - Subject - Verb - Object - Direct Object - Indirect Object - Complement - Adjunct	**					3
2	Direct-Indirect Speech: Introduction - Procedure for converting Direct speech into Indirect speech - Rules for converting Direct speech into Indirect speech - Change in pronouns - Change in tenses - Change in modals - Changes for Assertive Sentences - Changes for Imperative sentences - Changes for Exclamatory sentences - Changes for Interrogative sentences - Punctuation in Direct speech - Rules for converting Indirect speech into Direct speech.	CM-10 BB / 2 1 PPT		1		3	
3	Active Voice – Passive Voice: Introduction – Usage: Active Voice. Passive voice – Reasons for using Passive voice - Changing Active voice to Passive voice - Changing Passive voice to Active voice (Changes for nine tenses) -	CM-18	BB / PPT	2	1		3

Sl. No.	TOPIC	Course Material Page No	*Teachi ng Aids	Mode of Delivery No of Hours		Cumulative Hours	
	Suggestions for using Active and passive voice.						
	UNIT – II - I	PROSE					
4	The Necklace – Guy De Maupassant: Introduction – Theme – Summary – Critical Appreciation.	CM-22	VIDE O	3			3
5	Little Girls Wiser than Men – Leo Tolstoy: Introduction – Theme – Summary – Critical Appreciation.	CM-34	VIDE O	3			3
6	An Astrologer's Day – R.K.Narayan: Introduction – Theme – Summary – Critical Appreciation.	CM-37	VIDE O	3			3
	UNIT – III - VOC	CABULARY	1				
7	Idioms & Phrases: Importance (Selected 50)	CM-43	BB	2	1		3
8	Synonyms & Antonyms: Importance of learning words (Selected 50)	CM-52	BB	2	1		3
9	One Word Substitution: Importance – Usage in the Sentence (Selected 50)	CM-54	BB	2	1		3
	UNIT – IV -	POEM					
10	The Lotus - Toru Dutt: Introduction to Sonnet – Literary Devices – Summary.	CM-57	VIDE O	3			3
11	If – Rudyard Kipling: Introduction – Literary Devices – Summary.	CM-59	CM-59 VIDE O				3
12	The Road Not Taken – Robert Frost: Introduction – Literary Devices – Summary.	tion – CM-64 VIDE 3				3	
	UNIT – V – SENTENC	E CORRECT	TION				
13	Correct Usage: Nouns – Definition – Rules.	CM-67	BB/	2	1		3

Sl. No.	TOPIC	Course Material Page No	*Teachi ng Aids	Mode of Delivery No of Hours		Cumulative Hours		
			PPT					
14	Correct Usage: Pronoun – Definition – Rules. Correct Usage: Adjectives – Definition – Rules.	CM-69	BB / PPT	2	1		3	
15	Spotting Grammatical Error: Nouns – Pronouns – Adjectives – Exercises.	CM-71 BB / 2 1 PPT			3			
	TOTAL HOURS							

Course Material

1. General English II. A Complied book, covering all the topics of the syllabus prepared by the Department of English.

Reference Books

- 1. SrivasanHema. Communication Skills. Bangalore: Frank Brothers & Co. Ltd, 2004. Print.
- 2. Wren & Martin. High School English Grammar & Composition. India: S.Chand& Company Ltd, 1995. Print.
- 3. G.RadhakrishnaPillai. Emerald English Grammar and Composition. Bangalore: Emerald Publisher, 1998. Print.
- 4. Dr.K.Alex. Soft Skills. New Delhi: S.Chand& Company Ltd, 1997. Print.
- **5.** Dr. Gupta C.B. Business Correspondence & Reporting -Business Law, Business Correspondence & Reporting (CA-Foundation). New Delhi: Taxmann, 2018. Print.
- 6. A.P.Bhardwaj. General English for Competitive Examinations. New Delhi: Dorling Kindersley (India) Pvt. Ltd, 2013. Print.
- 7. Michael Swan. Practical English Usage. New Delhi: Oxford University Press,2008.Print
- **8.** Randolph Quirck, Sidney Greenbaum, Geoffrey Leech, Jan Svartvik. **A Comprehensive Grammar of the English Language**. New Delhi: Dorling Kindersley (India) Pvt. Ltd, 2010. Print.
- 9. John Adair. The Effective Communicator. Noida: Anubha Printers. 2005. Print.

E – Books /Library INFLIBNET RESOURCES

- 1. https://nlist.inflibnet.ac.in/search/Record/EBC483375
- 2. https://nlist.inflibnet.ac.in/search/Record/EBC481114
- 3. https://nlist.inflibnet.ac.in/search/Record/EBC1864716

Gaps in the Syllabus

SL. NO	Name of the Topic	Proposed Action	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Speaking Skill – Self Introduction		3	нт
2.	Reading Skill – Reading Activity		2	нт
3.	Speaking Skill – Assignment		1	НВ

^{*} Proposed Actions can be Assignments, Seminars, Peer Teaching, Industrial Visit, Others (if any)

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	1	Reading Skill	Newspaper	Newspaper Reading	1
2	2	Reading Skill	Magazine	Article / Magazine Reading	1
3	3	Speaking Skill	Oral	Debate / Group Discussion	1

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage	
1.	SLIP / CLASS TEST	Unit – I	20%	
2.	I INTERNAL	Unit – I, II, III (Chapter 1 & 2)	50%	
3.	II INTERNAL	Unit – III (Chapter 2 & 3), IV, V	50%	
4.	End Semester Examination	Unit I to V	100%	

Designation	Prepared by				
	Name	Signature	Date		
Course Coordinator / In-charge	R.Suganthi Hepzibha				

Approved by						
	Name	Signature	Date			
HoD	R.Suganthi Hepzibha					
Dean Academics	Dr.S.Priya					
Principal	Dr.R.Sujatha					

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme: B.Sc Food Science and Processing Management Prog

Course Name : Fundamentals of Food Processing and Preservation

Year / Semester : II / IV

No of Credits : 4

Course Teacher(s) Name: Ms. A.Sona

Programme Code: FM1011

Course Code: 20BF203
Total No. of Students: 14

Total No. of Contact Hours: 60 **Corresponding lab Paper**: Yes

Course	reaction (b) Frame. 1415. 71.50ha	Corresponding tab ruper . 103					
Sl. No.	TOPIC		hing Aids	Mode of Delivery No of Hours			Cumulative Hours
		Reference / Text Book_Page No	*Teaching	L	Т	P	
	UNIT – I	ſ	•		•		,
1.	Definition of food processing and food preservation	R2	BB	1			
2.	Aims of food processing		BB	1	-		
3.	. Historical developments and current developments		BB	2		-	12
4.	Principles of food processing and preservation	T1, 28	BB	3	1		
5.	Methods of food preservation	R2,363	BB	3	1		
	UNIT – I	I					
6.	Methods of drying – sun drying, mechanical drying	T2, 88	BB	2	1		
7.	7. Drying procedure		BB	2	1		
8.	8. Evaporation – General principles		BB	2			12
9.	Filtration – General principles	T2, 432	BB	2		-	12
10.	Centrifugation—General principles	T2, 444	BB	1			
11.	Distillation - General principles	T2, 462	BB	1	1		

	UNIT – III						
12.	Thermal processing – Blanching, Pasteurization	T2, 26, 48	BB	2			
13.	Thermal processing –Sterilization	T2, 53	BB	2			
14.	Thermal processing –Canning, Bottling	W2	BB	2	-		
15.	Extrusion	T2, 251	BB	1			
16.	Dielectric heating	W2	BB	1		-	12
17.	Non thermal processing – Ohmic heating	T1, 262	BB	1			
18.	Microwave heating	T1, 256	BB	1	1		
19.	Radio frequency. Infra red heating	W2	BB	1	1		
20.	Irradiation, Smoking	T3, 147	BB	1			
	UNIT – IV		1	<u> </u>	1		
21.	Refrigeration	T1, 128	BB	2			
22.	E		BB	2	1		
23.	Changes during freezing	T1, 174	BB	2	1	_	12
24.	Use and application of enzymes and microorganisms in processing and preservation of foods – food fermentations,		BB	2		_	12
25. Pickling		W2	BB	2			
	UNIT – V						
26.	Natural agents in food preservation and their advantages – salt, sugar.	W2	BB	2			
27.	Chemicals in food preservation – antimicrobial	W2	BB	2			
28.	Chemicals in food preservation – antioxidant.	W2	BB	2	1 _	_	12
29.	Pulsed electric field	W2	BB	1	1		_
30.	Modified atmosphere	W2	BB	1	1		
31.	High pressure preservation	W2	BB	1	1		

33. Hurdle technology R2,397 BB 2
33 Hurdle technology R2 397 RB 2

Text Book

T1	Potter NH, "Food Science", CBS Publication (New Delhi)	
T2	Brennan. (2009). "Food Processing Handbook", Weinheim: Wiley - VCH Verlag G & CO	

Reference Books

R1	Fellows P.J (2000). Food Processing Technology – Principles and practice, Florida, USA: CRC Press LLC.
R2	Srilakshmi, B. (2010). "Food Science", New Age International. (p) Ltd, Chennai.

Web Resources

W1	https://www.slideshare.net/pallvidhotra/hurdle-technology
W2	http://www.ignouhelp.in/ignou-mscdfsm-study-material/
W3	https://hmhub.me/objectives-food-processing/
W4	https://foodprocessinghistory.blogspot.com/2011/09/development-of-food-preservation.html

E – Books /Library INFLIBNET RESOURCES

E1	Anterpreet Kaur Arora et al, "Is chemical safety to food hazardous? – Dangers of food preservatives", J Indian Acad
	Forensic Med, 31(4) (2010)

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT)
				Hours beyond the Time Table (HB)
1.	Modern food processing techniques	Seminars	3	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

	SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted	
	1	W1	Lecture	PPT	Hurdle technology and its benefits	2	

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – I	20%
2.	I INTERNAL	Unit – I, II, III (up to Extrusion)	50%
3.	II INTERNAL	Unit – III (from Dielectric heating) , IV, V	50%
4.	End Semester Examination	Unit I to V	100%

Designation		Prepared by	
	Name	Signature	Date
Course Coordinator / In-charge	A.Sona		
Programme Coordinator	P.Deepalakshmi		

	Appro	ved by	
	Name	Signature	Date
HoD	A.Sona		
Dean Academics	Dr.S.Priya		
Principal	Dr.R.Sujatha		

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme: B.Sc., Food Science and processing Management Course Code: 20BF206

IINo of Credits: 2 Total No. of Students:

13

Course Teacher Name: Mrs. P. Deepalakshmi Total No. of Contact Hours: 60

Sl. No.	Week No.	Name of the Experiment	Page No in the Lab Manual	No. of Hours	Cumulative Hours
1	I	Preservation by drying		4	
		Preparation of Vadagam and Vathal			
2	II	Drying of green leafy vegetables		4	12
3	III	Effect of drying on food characteristics		4	

4	IV	Preservation using Salt and sugar	6	12
		Preservation using Salt – Pickles (Tomato, Mango, Amla)		
5	V	Preservation using Sugar – Jam, Jelly, Marmalade, Murabbas	6	
6	VI	Chemical preservation	6	12
		Preservation using chemicals – Squash, Ketchup		
7	VII	Osmotic dehydration of foods e.g. Candy	6	
8	VIII	Preparation and processing of fruits and vegetables Enzymatic and Non- Enzymatic browning	6	12
9	IX	Prevention of browning in fruits and vegetables	6	
10	X	Preparation of preserves & fermented foods	6	12
		Development of fruit & Vegetable preserve		
11	XI	Preservation of food by fermentation –Wine, Yoghurt, Idli	6	
1	1		TOTAL NO. (OF. HOURS: 60

Gap in the Syllabus

SL. NO	Name of the Topic	No of Hours Allotted
1.	General Points to be remembered in the laboratory	2

COURSE PLAN FOR CONTENT BEYOND SYLLABUS

SI.NO	Торіс	Total No of Hours Allotted
1	Estimation of crude fibre	2

Designation	Prepared by					
Assistant Professor	Name	Signature	Date			
Course Coordinator / Incharge	Mrs.P.Deepalakshmi					
Programme Coordinator	Mrs.P.Deepalakshmi					

	Approved b	y	
	Name	Signature	Date
HoD	Ms.A.Sona		
Dean Academics	Dr.S.Priya		
Principal	Dr. R.Sujatha		

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme: Food Science and Processing Management Programme Code : FM1101

Title of the Course: Food Microbiology Course Code : 20BF204

Year / Semester : I/II Total No. of Students: 13

No of Credits : 5 Total No. of Contact Hours : 60

Course Teacher Name: Mrs. M. Venkata Subbulakshmi Corresponding lab Paper : Yes

Sl. No.	TOPIC		*Teaching Aids	Mode of Delivery No of Hours		y 1rs	Cumulative Hours
		Reference / Text Book_Page No	*	L	T	P	
	UNIT – I						
1.	Introduction to Food Microbiology, Difference between Prokaryotes and eukaryotes,	T1, 1-59	BB	2			
2.	General characteristics of Bacteria Virus, Fungi and Molds - Morphological characteristics, important in food bacteriology-Industrial importance.		BB/V	3	2		12
3.	Influence of environmental factors on growth-PH	-	BB	2] _		12
4.	Water activity, O ₂ availability, Temperature, Pressure and Radiation		BB/V	3			
5.	Revision / Test / Quiz						
	UNIT – II						
6.	Primary source of micro organisms in food,		BB	3			
7.	Factors affecting growth and survival of microorganisms in food – intrinsic, extrinsic and implicit factors		ВВ	2			
8.	Chemical changes caused by micro organisms,	T1, 69-81	BB	2	2		12
9.	Control of microorganisms in food – sterilization and disinfection, removal of microbes- filtration sedimentation and chemical agents		ВВ	3			
10.	Revision / Test / Quiz						

	UNIT – III						
11.	Contamination and Spoilage of Different Foods Food Spoilage - Types, Contaminati	T1, 170- 310	BB	3			
12.	Spoilage of specific food groups - Cereals, Sugar, Vegetables and Fruits		BB/V	3			
13.	Milk, Canned foods sugar and Confectionaries		BB	2	2		12
14.	Animal products, Sea foods and Egg.			2			
15.	Revision / Test / Quiz						
	UNIT – IV	<u>L</u>	<u> </u>				<u> </u>
16.	Beneficial Uses of Microorganisms in the Food Industry Importance of microbes in foods		BB	2			
17.	Microbial and fermented foods -	m	BB	3			10
18.	Alcoholic drinks, Dairy products, Vinegar	T1, 319-382	BB	3	$\frac{1}{2}$		12
19.	Bread and malt beverages, wheat products		BB	2			
20.	Revision / Test / Quiz						
	UNIT – V			•		1.	
21.	Food Borne illness and Intoxication , Definition of food poisoning		BB	3			
22.	High risk foods, Food Infection and food Intoxications. Classification of Food-Borne Diseases	T1 200 440	BB	2			12
23.	Food Poisoning - Salmonellosis, Staphylococcal poisoning, Botulism, Shigellosis.	T1, 399-440	BB/	2			
24.	Food Borne Infection- Campylobacter species, Listeria species, E.coli. Aflatoxin		BB	3	2		
25.	Revision / Test / Quiz						
	TOTAL HOURS						60

Text Book

T1 . Frazier W., (1995)., "Food Microbiology", New Delhi, India: Tata McGraw Hill Publishing Company Ltd

Reference Books

R1	Fellows P.J (2000). Food Processing Technology – Principles and practice, Florida, USA: CRC Press LLC

Web Resources

W1	https://nptel.ac.in/content/storage2/courses/102103012/pdf/mod1.pdf
W2	https://www.researchgate.net/publication/324930927_Food_Poisoning_and_Intoxication_A_Global_Leading_Concern_for_Human_Health

E – Books /Library INFLIBNET RESOURCES

E1	https://dyahayusavitri.files.wordpress.com/2012/05/food-microbiology-3rd-ed.pdf

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Difference between Prokaryotes and eukaryotes	Assignment	2	НВ
2.	Food Borne illness	Assignment	2	НВ

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	PPT	Water Contamination and Testing Methods	2

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	UNIT – II	20%
2.	I INTERNAL	UNIT - I, II, III(Fruits)	50%
3.	II INTERNAL	UNIT – III(Milk), IV, V	50%
4.	Summative Examination	ALL FIVE UNITS	100%

Designation		Prepared by		
Assistant Professor	Name	Signature	Date	
Course Coordinator / In-charge	M. Venkata Subbulakshmi			
Programme Coordinator	P. Deepalakshmi			

Approved by			
	Name	Signature	Date
HoD	Ms.A.Sona		
Dean Academics	Dr.S. Priya		
Principal	Dr.R. Sujatha		

SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme: Food Science and processing Management Course Code: 20BF207

Title of the Course: Food microbiology Practical

IINo of Credits: 2

Year / Semester: I/

Total No. of Students:

14

Course Teacher Name: Mrs. M.Venkata Subbulakshmi

Total No. of Contact Hours: 60

Sl. No.	Unit	Week No.	Name of the Experiment	Page No in the Lab Manual	No. of Hours	Cumulative Hours
1	I	1	Introduction to laboratory practices –Personal protection in microbiology Lab		4 + 2	6
2	II	2	Sterilization techniques		4 + 2	6
3	III	3	Microscopy: principles, use, size and maintenance		4 + 2	6
4	IV	4	Preparation of medium (Agar slant, Agar Stab and Agar plate)		4 + 2	6
5	V	5	Plating methods (Spread or pour and Streak Plate methods)		4 + 2	6
5	VI	6	Serial dilution and sample inoculation		4 + 2	6
7	VII	7	Enumeration of microorganism from food sample		4 + 2	6
3	VIII	8	Demonstration of Microbes under Microscope (Fungi, Mold, Bactria)		4 + 2	6
9	IX	9	Staining Methods		4 + 2	6
10	X	10	Methylene blue reduction test for milk		4 + 2	6
				Total No. of. Hours	S	60

Gap in the Syllabus

SL. NO	Name of the Topic	No of Hours Allotted
1.	General Points to be remembered in the laboratory	2

COURSE PLAN FOR CONTENT BEYOND SYLLABUS

SI.NO	Торіс	Total No of Hours Allotted
1	Lacto Phenol Cotton BlueTest	2

	Approved by				
	Name	Signature	Date		
HoD	Ms.A.Sona				
Dean Academics	Dr.S.Priya				
Principal	Dr. R.Sujatha				

Designation		Prepared by			
Assistant Professor	Name	Signature	Date		
Course Coordinator / Incharge	Mrs. M.Venkata Subbulakshmi				
Programme Coordinator	Mrs.P.Deepalakshmi				

COURSE PLAN - 2020 - 21 (ODD SEMESTER)

Name of the Programme : BSc FSPM Programme Code : FM1011

Title of the Course : Principle of Financial Operations : 20BF208

Year / Semester : I/II Section: Total No. of Students: 13

No of Credits : 4 Total No. of Contact Hours : 45

Course Teacher (s) Name : Mrs.V.Padmavathy Corresponding lab Paper : No

Sl. No.	TOPIC	Reference / Text Book_Page No	*Teaching Aids	Ι	Mode Delive of Ho	ry	Cumulative Hours
		A A	*	L	T	P	
	UNIT - I						
1.	Meaning of Accounting	T1 - 1.1 - 1.17	PPT	1			1
2.	Accounting terms	T1 - 1.1 - 1.17	PPT	1			2
3.	Users of Accounting Information	T1 – 1.1 – 1.17	PPT	2			4
4.	Accounting concepts and Conventions	T1 – 2.1- 2.16	PPT	2			6
5.	Classification of Accounts	T1 – 2.1-2.16	PPT	2			8
6.	Golden rules of Accounting	T1 - 2.1 - 2.16	PPT	1			9
	UNIT – II						
7.	Meaning of Journal Entry	T1 2.17-2.116	PPT	1			10

8.	Describe the procedure for Journalizing	T1 2.17-2.116	PPT	1	11
9.	Meaning of Ledger	T1 2.17-2.116	PPT	2	14
10.	Procedure for posting of Journal entries into ledger accounts	T1 2.17-2.116	PPT	2	16
11.	Meaning of Trial balance	T1 3.1-3.25	PPT	2	18
12.	Method of preparing a Trial balance	T1 3.1-3.25	PPT	1	19
	UNI	Γ – III			
13.	Meaning of Final accounts	T1 5.1 – 5.83	PPT	1	20
14.	Trading account	T1 5.1 – 5.83	PPT	1	21
15.	Profit and loss account	T1 5.1 – 5.83	PPT	2	23
16.	Balance Sheet (with simple adjustments)	T1 5.1 – 5.83	PPT	2	25
17.	Preparation of Single Column Cash book	T1 2.17-2.116	PPT	2	27
	UNI	$\Gamma - IV$			
18.	Cost accounting Introduction	T2 1-66	PPT	1	28
19.	meaning of cost, costing and cost accounting	T2 1-66	PPT	2	30
20.	cost concepts	T2 1-66	PPT	1	31
21.	classification of costs	T2 1-66	PPT	2	33
22.	elements of cost	T2 1-66	PPT	1	34
23.	preparation of cost sheet	T2 1-66	PPT	3	37
24.	Preparation of Cash Budget	T2 665-698	PPT	2	39
	UNI	T - V			I
25.	Marginal costing Meaning Definition	T3 570-664	PPT	1	40

26.	Even Analysis (Chart, Assumptions, Angle of Incidence)	T3 570-664	PPT	2			42
27.	CVP analysis	T3 570-664	PPT	1			43
28.	PV ratio ,Contribution	T3 570-664	PPT	1			44
29.	Margin of Safety	T3 570-664	PPT	1			45
	TOTAL HOURS						

* L - Lecture T - Tutorial (Problems / Example Programs / Revision Classes) P - Practical

Text Book

T1	Financial Accounting – T.S.Reddy & A.Murthy
T2	Cost Accounting – R.S.N.Pillai & V.Bagavathi. S.Chand Publication

Reference Books

R1	Cost Accounting - S.P.Jain & Narang
R3	Financial Accounting – R.L.Gupta

Web Resources

^{*} LCD / PPT / Black Board (BB) / Worksheet(WS) / Video (V) / Group Discussion (GD) / Blended & Flipped (BF) / Open Educational Resources (OER) media that are freely accessible, Google tools like Drive (GRV), Google Docs (GDO), and Google Slides(GS), Google Forms (GOF) and Whiteboards(WB), Wikipedia (W) any other tools may also be included.

[Mark the abbreviation in the teaching aids column]

W1	https://www.icaew.com/library/library-collection/ebooks/financial-management

E – Books /Library INFLIBNET RESOURCES

E1

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Final accounts	Seminar	2	HT
2.	Cost Volume profit ratio	Seminar	2	HT

^{*} Proposed Actions can be Assignments, Seminars, Peer Teaching, Industrial Visit, Others (if any)

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of		Planned Topics	Total No of
		Delivery	Teaching Aids		Hours Allotted
1		Lecture	PPT	Share certificates issued by companies	1
	1				
2	2	Lecture	Case study	Working capital management by manufacturing unit	2

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit - 1	20%
2.	I INTERNAL	Unit - I, II, III (upto Balance Sheet)	50%
3.	II INTERNAL	Unit – III (from Single Column Cash book) , IV, V	50%
4.	End Semester Examination	Unit I to V	100%

Designation		Prepared by				
	Name	Signature	Date			
Course Coordinator / In-charge	Mrs.V.Padmavathy					
Programme Coordinator	Mrs. Sona					

Approved by						
	Name	Signature	Date			
HoD	Mrs. Sona					
Dean Academics	Dr.S.Priya					
Principal	DR.R.Sujatha					

COURSE PLAN - 2020 - 2021 (EVEN SEMESTER)

Name of the Programme : B.Sc Food Science and Processing Management Programme Code: FM1011

Title of the Course : Computer Application Practical : 20BF208

Year / Semester : I / II Total No. of Students : 13

No of Credits : 2 Total No. of Contact Hours : 2

Course Teacher (s) Name : Mr. J. RAJKUMAR

Sl. No.	Reference / Text Book Page No *Teaching Aids		*Teaching Aids	Mode of Delivery No of Hours			Cumulative Hours
SI				L	T	P	
	UN	IT – I					
23.	To create an advertisement in MS Word	NA	PPT, T	0	0	2	2
24.	To create a table with student details & calculate total	NA	PPT, T	0	0	2	2
25.	Create a Calendar and format it	NA	PPT, T	0	0	2	2
26.	Prepare a Resume	NA	PPT, T	0	0	2	2
27.	Manipulation with Pictures	NA	PPT, T	0	0	2	2
28.	Prepare a Greeting Card	NA	PPT, T	0	0	2	2
29.	Usage of bullets & numbering, Borders & Shading, Drop Cap	NA	PPT, T	0	0	2	2
30.	Prepare newspaper column, footer and header	NA	PPT, T	0	0	2	2
31.	Usage of Spell checks, find and replace	NA	PPT, T	0	0	2	2
32.	To create a template	NA	PPT, T	0	0	2	2
33.	To illustrate the concept of mail merging in MS word	NA	PPT, T	0	0	2	2
34.	Usage of formula and built in functions	NA	PPT, T	0	0	2	2

35.	Data Sorting	NA	РРТ, Т	0	0	2	2
36.	Prepare a spread sheet for result analysis of students in various subjects	NA	PPT, T	0	0	2	2
37.	Pay Slip Preparation	NA	PPT, T	0	0	2	2
38.	Electric bill preparation	NA	PPT, T	0	0	2	2
39.	Drawing Graphs & Charts	NA	PPT, T	0	0	2	2
40.	Create a presentation with Animation	NA	PPT, T	0	0	2	2
41.	Create presentation with slide navigation	NA	PPT, T	0	0	2	2
42.	Create a presentation to include Custom Animation	NA	PPT, T	0	0	2	2
TOTAL							30

Web Resources

W1	https://www.w3schools.com	
W2	https://www.tutorialspoint.com	

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	I INTERNAL	1 - 10 Exercises	50%
2.	II INTERNAL	11 - 20 Exercises	50%
3.	End Semester Examination	20 Exercises	100%

Designation		Prepared by					
	Name	Signature	Date				
Course Coordinator / In-charge	Mr. J. Rajkumar						
Programme Coordinator	Mrs. P. Deepalakshmi						

	Approved by								
	Name	Signature	Date						
HoD	Ms. A. Sona								
Dean Academics	Dr. S. Priya								
Principal	Dr. R. Sujatha								

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme : Food Science and Processing Management P		Programme Code:	FM1011
Course Name :	EVS	Course Code :	20ES210
Year / Semester	I/II	Section	-
Total No. of Students	13	No. of Credits	2
Corresponding lab Paper	NO.	Total No. of Contact Hours	30
Course Teacher Name	M.Venkatasubbulakshmi	•	•

Sl. No.	TOPIC	Reference / Text Book	*Teachi	Mode of Delivery No of Hours			Cumulative
			Aids	L	Т	P	Hours
	UNIT -	- I					
1.	Introduction to environmental studies Multidisciplinary nature of environmental studies	T1-3	PPT	2			2
2.	Scope and importance; Concept of sustainability and sustainable development	T1-3-5	PPT	1			1
	UNIT –	II	'				
3.	Ecosystems –Self Study (Assessment in terms of Assignment only)-What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession	T1-54-56	V	1			1
4.	Case studies of the following ecosystems: a) Forest ecosystem b) Grassland ecosystem	T1-65-75	V	1			1
	c) Desert ecosystem d) Aquatic ecosystems (ponds/ streams/ lakes/ rivers/						

51. No.	TOPIC	Reference / Text Book Page No	*Teachi ng Aids	Mode of Delivery No of Hours		Cumulative Hours	
	oceans/estuaries)						
	UNIT –	III					
5.	Natural Resources: Renewable and Non-renewable Resources -Land resources and land use change; Land degradation, soil erosion and desertification	T1-20-22	PPT	2		2	
6.	Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations	T1-23	PPT	1		1	
7.	Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).	T1-26	PPT	1		1	
8.	Energy resources: Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs.	T1-35	PPT	1		1	
	UNIT –	IV					
9.	Biodiversity and Conservation Self Study (Assessment in terms of Assignment only)-Levels of biological diversity: genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots	T1-82-83	BB	1		1	
10.	India as a mega-biodiversity nation; Endangered and endemic species of India -Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity	T1-89	BB	1		1	
11.	Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.	T1-84-88	BB	1		1	
	UNIT –	V					

Sl. No.	TOPIC	Reference / Text Book Page No	*Teachi ng Aids		e of Delivery o of Hours	Cumulative Hours
12.	Environmental Pollution	T1-112	V	1		1
13.	Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution	T1-113- 140	V	2		2
14.	Nuclear hazards and human health risks	T1-143	V	1		1
15.	Solid waste management : Control measures of urban and industrial waste. • Pollution case studies.		V	1		1
	UNIT –	VI	1			
16.	Environmental Policies & Practices-Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture	T1-182- 186	BB	2		2
17.	Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).	T1-193- 199	BB	2		2
18.	Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.	T1-23	BB	2		2
	UNIT – V					
19.	Human Communities and the Environment • Human population growth: Impacts on environment, human health and welfare. • Resettlement and rehabilitation of project affected persons; case studies. • Disaster management: floods, earthquake, cyclones and landslides.	T1- 214,156,1 72	BB	2		2
20.	Environmental movements : Chipko, Silent valley, Bishnois of Rajasthan	W2	PPT	1		1
21.	Environmental ethics: Role of Indian and other religions	T1-237	BB	1		1

Sl. No.	TOPIC	Reference / Text Book Page No	*Teachi ng Aids		e of Del	<u> </u>	Cumulative Hours
	and cultures in environmental conservation.						
22.	22. Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).		BB	2			2
	TOTAL HOURS						

Text Book

1. Bharucha, E. (2004). *Environmental Studies For Undergraduate Courses of all Branches of Higher Education*. New Delhi: University Grants Commission.

Reference Books

2. Agarwal KC, 2001. Environmental Biology, Nidi Publishers Ltd. Bikaner.

Web Resources

- 1.https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf
- 2. https://www.clearias.com/environmental-movements-in-india/

E – Books /Library INFLIBNET RESOURCES

1.https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf

Gaps in the Syllabus

SL.	Name of the Topic	PROPOSED	No of Hours	Hours with in the Time Table (HT) /
NO		ACTION	Allotted	Hours beyond the Time Table (HB)
1.	Forest products	Assignment	2hrs	НВ

^{*} Proposed Actions can be Assignments, Seminars, Peer Teaching, Industrial Visit, Others (if any)

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	1	Lecture	PPT	Rainwater Harvesting	2

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit-1	20%
2.	I INTERNAL	Unit - I,II,III,IV(Topic 1-2)	50%
3.	II INTERNAL	Unit – IV(Topic3),V,VI,VII	50%
4.	End Semester Examination	All Seven Units	100%

Designation	Prepared by		
	Name	Signature	Date
Course Coordinator / In-charge			
Programme Coordinator			

Approved by						
	Name	Signature	Date			
HoD						
Dean Academics	Dr. S. Priya					
Principal	Dr. R. Sujatha					

COURSE PLAN – 2020 – 21 (ODD/EVEN SEMESTER)

Name of the Programme :	ANI/VIS/CS/NET/MCHM/FSPM				
Course Name :	General Tamil IV	Course Code :	19UT104		
Year / Semester	II / II	Section			
Total No. of Students		No. of Credits	3		
Corresponding lab Paper	Yes / No.	Total No. of Contact Hours	45		
Course Teacher Name					

Sl. No.	TOPIC	Reference / Text	/ Text	Text *Teachi	Mode of Delivery No of Hours			Cumulative	
		Book Page No	Aids	B 2 B 2			Hours		
	UNIT – I								
1	1 நைை றிளண-விளளயாடு ஆயனமாடு 2 குறுந்னதாளக- நிலததி Fம் னபரினத,அகவன் மகனள		BB	2			2		
2			ВВ	2			2		
3	புுை ந ாட்ப று - உண் டால் அம் ம, ை ்றுழி உதவியும்	4	ВВ	2			2		
	சிறுப ாண ாை ்றுப ்பளட -திைவ ாக ் கண் ண		BB	3			3		
	UNIT –	II							
	திருக்குைள் -அன் புளடளம (பத்F	CM/10	BB	2			3		

Sl. No.	TOPIC	TOPIC Reference / Text Book Page No Reference *Teachi ng No of Hour			mulative Hours	
	குைட்பாக்கள்)					
	நாலடிியார் -கல்வி – முுதல் ஐந ் ⊢ பாடல்கள்		ВВ	2		3
	மூ Fளர-முுதல் ஐந் F பாடல்கள் CM/ 15 BB 2 மட்டு		3			
	UNIT – I	III				
	புதின இலக்கியம் -சப்பரம்	CM/ 16	BB	2		9
	UNIT – I	V				
	வழூஉச் ஹசாை்களள நீ க்குதல்	CM/ 65	BB	3		3
	பிைஹமாழிச் ஹசாை்களள நீ க்குதல்	CM/ 67	BB	3		3
	ஹசாை்பிரிப்புப் பிளழகளள நீக்குதல்	CM/ 69	BB	3		3
	UNIT – '	V				
	சங்க இலக்கியம் ஓர் அறிமுகம்		BB	3		3
	பு தினங்களின் எதாை ை மும் வளரச் சியும்		BB	3		3
	கட ித வளககள ் எழ ு F தல	-	BB	3		3
	TOTAL HOURS					45

L – Lecture T – Tutorial (Problems / Example Programs / Revision Classes) P – Practical

Course Material

^{*} LCD / PPT / Black Board (BB) / Worksheet(WS) / Video (V) / Group Discussion (GD) / Blended & Flipped (BF) / Open Educational Resources (OER) media that are freely accessible, Google tools like Drive (GRV), Google Docs (GDO), and Google Slides(GS), Google Forms (GOF) and Whiteboards(WB), Wikipedia (W) any other tools may also be included. [Mark the abbreviation in the teaching aids column]

2. ஹ மா F த்தம ிழ் - IV — பாடந**ூல**் ஹதாகுப்புகல**் ஹா**ரித் - தமிழ் த**் F**ளை ஹவளியீடு

Reference Books

- 1. சங்க இலக்கியம் த்ஹதாளக,நியூஹசஞ்சுரி புக் ெவுஸ் ,ஹசன்ளன. டிசம்பர் 2010 ,எட்டு
- 2. பதிஹனண் கீழ்க்கணக்கு நுூல்கள்,சாரதா பதிப்பகம்,ஹகிளரா ஏஜன் சீஸ் ,ஹ குள்ளன. டிசம்பர் 2012
- 3. சப்பரம்,சுப்ரபாரதிமணியன், நியூ ஹசஞ்சுரி புக் வெஸ்,ஹசன்ளன. ஜூளல 2015
- 4. தம**ிழ**் நளடக**் ளக**ளயட*ு,*தமிழ**் ப**் பல் களலக**்கழகம**்,தஞ் சாவூர**் அளடய**ாளம் பதிப**்பகம**்,ப**ுத்த**ானத**்**தம**்** .டிசம் பர் 2015
- 5. தமிழ் இலக்கிய வரலாறு, மு.வரதராசன், சாகித்திய அகாஹதமி, ஹசன்ளன. டிசம்பர் 2015 தண் டியலங்காரம்.ளசவ சித்தாந்த நுலை் பதிப்புக் கழக ஹவளியீடு, ஹசன்ளன: 1976.Print.
- 6. தமிழ் இலக்கிய வரலாறு-1 .மF.ச.விமலானந்தம். முல்ளல நிளலயம், ஹசன்ளன: 1976.Print.

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	ஹசய் தித்தாள்கள் வாசித்தல்		2	(HB)
2.	புத்தகம் வாசித்தல்		2	(HB)

^{*} Proposed Actions can be Assignments, Seminars, Peer Teaching, Industrial Visit, Others (if any)

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	1	Assignment	2	கட்டுளர் எ டி Fதல்	2
2		Seminar	2	ப ுத ்தகம ் வ ாசித ் F விமரச் னம் ஹசய ் தல்	2
3	2	Peer teaching	2	நளடமுளை நிகழ்வுகளள கலந்தானலாசித்தல்	2

PORTION FOR EXAMINATION

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – I	20%
2.	I INTERNAL	Unit – I, II, III (up to)	40%
3.	II INTERNAL	Unit – III (from), IV, V	40%
4.	End Semester Examination	Unit I to V	100%

Designation	Prepared by		
	Name	Signature	Date
Course Coordinator / In-charge	N.SELVI		

Approved by						
	Name	Signature	Date			
HoD	Mrs.N.SELVI					
Dean Academics	Dr.S.PRIYA					
Principal	Dr.R.SUJATHA					

SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme:	B.Sc Animation, Viscom, CS, Networking, Food Science & Processing, and Fire & Industrial				
1 (will of viid 1 1 og 2 william)	Safety				
Course Name:	General English IV	Course Code:	19UGE402		

Year / Semester	IV	Section	
Total No. of Students		No. of Credits	3
Corresponding lab Paper	No	Total No. of Contact Hours	45
Course Teacher Name	Mr. C. Senthil Kumar		

Sl. No.	TOPIC	Course Material	*Teachi		e of Del o of Hou	Cumulative		
		Page No	Aids	L	T	P	Hours	
	UNIT – I–INTRODUCTION T	O COMMUI	NICATION					
1	Introduction	1 to 3	BB / PPT	1	1		2	
2	Barriers & Types	3 to 5	BB / PPT	2	1		3	
3	7C's of Communication 5 to 7 BB / PPT 2		2		4			
	UNIT – II - WRIT	ING						
4	Resume Etiquettes	8 to 9	BB	3			3	
5	Resume Writing	9 to 10	BB	3			3	
6	Report Writing	10 to 14	BB	3			3	
	UNIT – III - BODY	LANGUAGI	Ξ					
7	Introduction: Body Language	15 to 16	VIDEO	2	1		2	
8	Importance of Body Language in a Professional Atmosphere	16 to 18	VIDEO	2	1		3	
9	Do's & Don'ts: Body Language	19 to 40	VIDEO	2	2		4	
	UNIT – IV – PRESENTATION							

Sl. No.	TOPIC	Course Material Page No	*Teachi ng Aids	Mode of Delivery No of Hours		Cumulative Hours	
10	Presentation & Its Types	41 to 43	VIDEO	3			3
11	Do's & Don'ts: Presentation Skills	43 to 46	VIDEO	3			3
12	Exercises on Presentation 47 to 49 VIDEO 3					3	
	UNIT – V – SENTENC	E CORRECT	ION				
13	Correct Usage of Verbs & Adverbs – Definition – Rules.	50 to 52	BB / WS	2	1		3
14	Correct Usage of Preposition: Definition – Rules.	53 to 57	BB / WS	2	1		3
15	Correct Usage of Conjunction & Interjection: Definition – S7 to 61 BB / WS 1 WS		3				
TOTAL HOURS							45

Course Material

1. General English IV. A Complied book, covering all the topics of the syllabus prepared by the Department of English.

Reference Books

- 1. SrivasanHema. Communication Skills. Bangalore: Frank Brothers & Co. Ltd, 2004. Print.
- 2. Wren & Martin. High School English Grammar & Composition. India: S.Chand& Company Ltd, 1995. Print.
- 3. G.RadhakrishnaPillai. Emerald English Grammar and Composition. Bangalore: Emerald Publisher, 1998. Print.
- 4. Dr.K.Alex. Soft Skills. New Delhi: S.Chand& Company Ltd, 1997. Print.
- **5.** Dr. Gupta C.B. Business Correspondence & Reporting -Business Law, Business Correspondence & Reporting (CA-Foundation). New Delhi: Taxmann, 2018. Print.
- **6.** A.P.Bhardwaj. **General English for Competitive Examinations**. New Delhi: Dorling Kindersley (India) Pvt. Ltd, 2013. Print.
- 7. Michael Swan. Practical English Usage. New Delhi: Oxford University Press, 2008. Print

- **8.** Randolph Quirck, Sidney Greenbaum, Geoffrey Leech, Jan Svartvik. **A Comprehensive Grammar of the English Language**. New Delhi: Dorling Kindersley (India) Pvt. Ltd, 2010. Print.
- 9. John Adair. The Effective Communicator. Noida: Anubha Printers. 2005. Print.

E – Books /Library INFLIBNET RESOURCES

https://nlist.inflibnet.ac.in/search/Record/EBC483375

https://nlist.inflibnet.ac.in/search/Record/EBC481114

https://nlist.inflibnet.ac.in/search/Record/EBC1864716

Gaps in the Syllabus

SL.	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Speaking Skill – Self Introduction		3	нт
2.	Reading Skill – Reading Activity		2	нт
3.	Speaking Skill – Assignment		1	НВ

^{*} Proposed Actions can be Assignments, Seminars, Peer Teaching, Industrial Visit, Others (if any)

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	1		Newspaper	Report writing Skills – Newspaper	1
2	2		Video Presentation	Professional Skills – Body language	1
3	3		Video Presentation	Professional Presentation Skills	1

Sl. No	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	I INTERNAL	Unit – I, II	40%

2.	II INTERNAL	Unit – III, IV	40%
3.	SLIP / CLASS TEST	Unit – V	20%
4.	End Semester Examination	Unit I to V	100%

Designation	Prepared by						
	Name	Signature	Date				
Course Coordinator / In-charge	C. Senthil Kumar						

Approved by							
	Name	Signature	Date				
HoD	R.Suganthi Hepzibha						
Dean Academics	Dr.S.Priya						
Principal	Dr.R.Sujatha						

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme: B.Sc., Food Science and Processing Management

FM1011Title of the Course: Dairy, Meat and Poultry Processing

Year / Semester: II / IV

No of Credits: 4

Course Teacher Name: Mrs. P. Deepalakshmi

Programme Code:

Course Code: 19BF403

Total No. of Students: 14

Total No. of Contact Hours: 60 Corresponding lab Paper: No

Sl. No.	TOPIC		*Teaching Aids	Mode of Delivery No of Hours		f Hours Cumulat	
	UNIT – I	Reference / Text Book_Page No	*	L	T	P	
1.	Collection, Testing quality, Cooling, Storage and Transportation of liquid milk	T1, 105-130	BB	2			
2.	Types of milk - Whole, Standardized, Toned, Double-toned, Skim & Condensed milk		BB	2			
3.	Ice cream, Milk powder, Recombined, Reconstituted and Flavored milk		BB	2		-	12
4.	Detection of adulteration	W1	BB/V	3			
5.	Factors for FSSAI standard dairy laws		BB	2			
6.	Revision / Test / Quiz				1		
	UNIT – II						
7.	Standardization and/or Processing (Chilling, Pasteurization, and UHT processing)	W2	BB	3			
8.	Homogenization, Sterilization		BB	2			
9.	Storage, Packaging and Distribution of liquid milk		BB/V	2		_	12
10.	Fermented milk products-Cheese, Butter	T1,128	BB	2			
11.	Ghee, Paneer		BB	2			

12.	Revision / Test / Quiz				1			
	UNIT – III		I	I				
13.	Classification, Ante-mortem examination of meat animals	W3	BB	1				
14.	Scientific techniques of Slaughtering, Dressing, Deboning		BB/V	2				
15.	Post-mortem Inspection, Storage, Tenderization, Ageing, Grades and Cuts	T1, 155-160	BB	2				
16.	Packaging, Cured meat products, Sausages		BB/V	2		-	12	
17.	By-products, Frozen and canned meat products		BB	2				
18.	Meat plant hygiene- GMP and HACCP	W3	BB	2				
19.	Revision / Test / Quiz				1			
	UNIT – IV	1						
20.	Structure, Composition, Nutritive value and Functional characteristics of eggs	T2,131-142	BB/V	2				
21.	Evaluation of egg quality - Floating test, White index, Colour index, Yolk color fan, Haugh unit evaluation in egg		BB	3		-	12	
22.	Formation, Grading, Spoilage, Storage and Transportation of whole eggs		BB	2				
23.	Processing of eggs for liquid products (White, yolk and Whole egg)	T2, 143-152	BB/V	2				
24.	Solid products (Albumen, Whole egg powder) for preservation through Freezing & Drying	1	BB	2				
25.	Revision / Test / Quiz				1			
	UNIT – V							
26.			DD	2				
	Classification, Pre-slaughter care and consideration	_	BB	2				
27.	Operations in preparation of dressed poultry, Poultry cuts	W4	BB/V	2				
28.	Quality and safety considerations]	BB	2		-	12	
29.	Commercial value of poultry, Utilization of by-products		BB	3				
30.	Preservation of Poultry meat and Storage	T2,166-168	BB/V	2				
31.	Revision / Test / Quiz		BB		1		60	
TOTAL HOURS								

Text Book

T1	Goyal, A.A. (2005). "Processing technologies for Milk and Milk products", Apple Academic Press.
T2	Srilakshmi B, (2003). "Food Science", New Age International Publishers (India).

Reference Books

R1	Y.H. Hui. (2012). "Handbook of Meat and Meat Processing", CRC Press.
R2	

Web Resources

W1	http://egyankosh.ac.in/handle/123456789/650
W2	https://educationdunia.com/page/bpvi-013-milk-processing-and-packaging
W3	http://www.egyankosh.ac.in/handle/123456789/654
W4	http://www.egyankosh.ac.in/handle/123456789/10743

E – Books /Library INFLIBNET RESOURCES

E1	https://epgp.inflibnet.ac.in/Home/ViewSubject,catid=444
E2	https://www.pdfdrive.com/food-science-books.html

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Modern Processing operations for Flesh foods	Assignment	2	НВ
2.	Dairy, Meat and Poultry uses in Food Industry	Peer Teaching	2	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	PPT	Grading of Flesh Foods	2

2	II	Video	Processing Unit in Food Industries	2

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – 1-5	20%
2.	I INTERNAL	Unit - I, II, III (upto Cuts)	50%
3.	II INTERNAL	Unit – III (from Packaging) , IV, V	50%
4.	End Semester Examination	Unit I to V	100%

Designation		Prepared by							
Assistant Professor	Name	Signature	Date						
Course Coordinator / In-charge	Mrs.P.Deepalakshmi								
Programme Coordinator	Mrs.P.Deepalakshmi								

	Approved by							
	Name	Signature	Date					
HoD	Ms.A.Sona							
Dean Academics	Dr.S. Priya							
Principal	Dr.R. Sujatha							

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme: Food Science and Processing Management Programme Code: FM1011

Title of the Course : Fish and Seafood Processing Course Code :

19BF404Year / Semester : II/IV Total No. of Students

: 14

No of Credits: 4 Total No. of Contact Hours: 60 Course Teacher Name: M.Venkata Subbulakshmi Corresponding lab Paper: No

	TOPIC		ning Aids	Mode of Delivery No of Hours			Cumulative Hours
SI. No.			*Teaching	L	Т	P	
	UNIT – I	1	•				
1.	Classification of fish and sea foods, Basic physiology of fish, related to individual species	R2, 169-179	BB	2			
2.	Chemical composition and Nutritive value of sea foods with a focus on fatty acids		BB	2	2		
3.	Nutrition and commercial importance of sea foods	R4,27- 38	BB	2			
4.	Selection of fish		BB	2			
5.	Storage and preservation of fish.	R4, 33- 37	BB	2			12
6.	Revision / Test / Quiz					-	
	UNIT – II	•	•	•	•	•	

7.	Sea food Processing	W2		BB	3			
			_			_		
8.	Preliminary Processing of sea foods	R4 61-6	8	BB	3			
9.	Fish shelf life extension processing		2	BB	1	1		12
10.	Mechanical separation. Reconstituted meat production, Use of modified atmosphere (CO ₂ , N ₂ , O ₂).			BB	2			
11.	Spoilage and microbial contamination.	R4 32-3	3	BB	2			
12.	Revision / Test / Quiz						_	
	UNIT – III	1			- I		l	
13.	Introduction, Importance of Value added fish products	T1, 217-250	BB		2			
14.	Fish marinades, Fish cutlet, Fish wafers, Fish sausage, Fish ball, Fish finger, Fish momos		BB		2	2		12
15.	Fish Protein Concentrate, Fish soup powder, Dried prawn pulp, Masmin flakes, fish surimi, fish pickle		ВВ		2			
16.	Byproducts of fish - Chitin and chitosan, Shrimp extract,		BB	BB 2				
17.	Fish meal, Fish body oil, Pearl essence, Isinglass, Fish silage.		BB	BB 2				
18.	Revision / Test / Quiz						_	
	UNIT – IV		•	•			•	
19.	The occurrence of mercury, lead, cadmium and arsenic.	T1, 23-35	BB		2		-	
20.	PCBs, dioxins, PAHs, OCPs, nitroso compounds.		BB		2			
21.	Potential health hazards and risks related to sea foods.		BB		2	1		12
22.	Post mortem changes in fish and other sea foods.		BB		2			
23.	Cold Storage of sea foods.		BB		3			
24.	Revision / Test / Quiz							
	UNIT – V	•	ı			1	ı	

25.	Quality Standards for Fish and Fishery Products	W1	BB	2			
26.	Determination of total quality indicators and quality characteristics.		BB	2	2		12
27.	Rating quality of the fish- legislative requirements.		BB	3			
28.	FSSAI Regulations	W3	BB	3			
29.	Revision / Test / Quiz					-	
30.	Total						60

Text Book

T1	Venugopal. V. (2006)."Sea food Processing", CRC Taylor and Francis Publishing.
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Reference Books

R1	Nancy George and Neha S. Charan, "Fish Processing", Harmonious Books Publishing Company.
R2	Srilakshmi, B. (2010). "Food Science", New Age International (p) Ltd, Chennai.
R3	Handbook of Fisheries and Aquaculture. IGNOU.
R4	Handbook of Packaging and Value Additon of Fishery Products ., IGNOU
R5	Frazier W., (1995)., "Food Microbiology", New Delhi, India: Tata McGraw Hill Publishing Company Ltd

Web Resources

W	https://www.notesonzoology.com/phylum-chordata/fishes/economic-importance-of-fish-vertebrates-chordata-zoology/8038
W2	file:///C:/Users/venim/Downloads/AREPORTONSHRIMPANDPRAWNFISHERIES.pdf
W3	National and international quality standards for fish and fishery products.pdf

E – Books /Library INFLIBNET RESOURCES

E1	https://www.researchgate.net/publication/307584195_A_REPORT_ON_SHRIMP_AND_PRAWN_FISHERIES/link/57cabf2208ae3ac722b1e77d/d
	<u>ownload</u>

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Different Types of Freezing Techniques	Assignment	1	НВ
2.	Value added Fish Products	Assignment	2	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	PPT	Different types of Freezing Methods	1
2	II		Audio- Visual	Various Packaging Methods for fish and Sea foods	1
3					
4					

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	UNIT 1	20%
2.	I INTERNAL	UNIT - I, II, III(Introduction, Importance of Value added fish products)	50%

3.	II INTERNAL	UNIT - III, IV, V(Value added Products)	50%
4.	Summative Examination	ALL FIVE UNITS	100%

Designation	Prepared by					
	Name	Signature	Date			
Course Coordinator / In-charge	A.Sona					
Programme Coordinator	P.Deepalakshmi					

	Approved by								
	Name	Signature	Date						
HoD	Ms.A.Sona								
Dean Academics	Dr.S.Priya								
Principal	Dr.R.Sujatha								

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme: B.Sc Food Science and Processing Management

: Basic and Therapeutic Nutrition

Year / Semester : II / IV No of Credits : 4

Course Name

Course Teacher Name : Ms. A.Sona

Programme Code : FM1011

Course Code : 19BF405

Total No. of Students 14
Total No. of Contact Hours 60
Corresponding lab Paper : Yes

Sl. No.	TOPIC		ning Aids	Mode of Delivery No of Hours			Cumulative Hours
		Reference / Text Book_Page No	*Teaching	L	Т	P	
	UNIT – I						
1.	Syllabus introduction		BB	1			
2.	Basic principles and factors influencing of meal planning	T1, 19	BB	1			
3.	Nutritional requirements during-pregnancy	T1,147	BB	2	- -	-	
4.	Nutritional requirements during- lactation	T1,171	BB	2			14
5.	Nutritional requirements during- infancy	T1,54	BB	2			
6.	Nutritional requirements during- preschool	T1,84	BB	1			
7.	Nutritional requirements during- school going	T1,117	BB	2			
8.	Nutritional requirements during- adolescent	T1,130	BB	2			
9.	Nutritional requirements during- adolescent old age.	T1, 186	BB	1			

	UNIT – II						
10.	Purpose and principles of therapeutic diets	T1,248	BB	1			
11.	Classification of therapeutic diets - Routine hospital diet,	T1,249	BB	1			
12.	Special feeding methods – enteral feeding	T1,251	BB	2			
13.	Tube feeding	T1,253	BB	2			
14.	Parental nutrition.	T1,255	BB	2	=		10
15.	Causes, symptoms and Nutritional management in typhoid	T1,279	BB	1	_	-	13
16.	Causes, symptoms and Nutritional management in influenza,	T1,280	BB	1	=		
17.	Causes, symptoms and Nutritional management in malaria.	T1,280	BB	1	1		
18.	Causes, symptoms and Nutritional management in tuberculosis.	T1,281	BB	2			
	UNIT – III				<u> </u>		<u> </u>
19.	Causes, symptoms and Nutritional management in obesity	T1,290	BB	5			10
20.	Causes, symptoms and Nutritional management in underweight.	T1,315	BB	5	_	-	10
	UNIT – IV					II.	L
21.	Causes, symptoms and Nutritional management of hypertension	T1,345	BB	5			
22.	Causes, symptoms and Nutritional management of Diabetes mellitus	T1,399	BB	6	-	-	11
UNIT – V							
23.	Causes, symptoms and Nutritional management in nephrosis	T1,442	BB	2			
24.	Causes, symptoms and Nutritional management in renal failure	T1,445	BB	2			12
25.	Causes, symptoms and Nutritional management in PEM,	T1,84	BB	2	_	-	12
26.	Causes, symptoms and Nutritional management in Anaemia,	T1,207	BB	2			

27.	Causes, symptoms and Nutritional management in IDD,	W2	BB	2			
28.	Causes, symptoms and Nutritional management in Vitamin A.	W2	BB	2			
	TOTAL HOURS						

Text Book

T1 B. Srilakshmi, "*Dietetics*", 8th edition(2019), New Age International Publishers

Reference Books

R1	Krause, MV and Mahan, LK (1986), "Food, Nutrition and Diet therapy", London: Alan R. Liss, Saunders Co.
R2	Swaminathan M (1985). "Essential of food and Nutrition", Vols. I & II. Madras: Ganesh & CO.

Web Resources

W1	https://www.medicalnewstoday.com/articles/5847
W2	http://www.ignouhelp.in/ignou-mscdfsm-study-material/

E – Books /Library INFLIBNET RESOURCES

1	E1	Marjorie R Freedman, Janet King, Eileen Kennedy "Popular Diets: A Scientific Review" OBESITY RESEARCH Vol. 9
		(2014)

Gaps in the Syllabus

SL.	Name of the Topic	PROPOSED	No of Hours	Hours with in the Time Table (HT)
NO		ACTION	Allotted	1
				Hours beyond the Time Table (HB)
1.	Classification of underweight and	Peer Teaching	1	HT
	obesity			

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	W1, E1	Lecture	PPT	An overview of Special Diets	2

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – I	20%
2.	I INTERNAL	Unit – I, II, III (up to obesity)	50%
3.	II INTERNAL	Unit – III (underweight), IV, V	50%
4.	End Semester Examination	Unit I to V	100%

Designation	Prepared by				
	Name	Signature	Date		
Course Coordinator / In-charge	A.Sona				
Programme Coordinator	P.Deepalakshmi				

	Approved by						
	Name Signature Date						
HoD	Ms.A.Sona						

Dean Academics	Dr.S.Priya	
Principal	Dr.R.Sujatha	

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme: B.Sc., Food Science and Processing Management Course Code: 19BF407

Title of the Course: Basic and Therapeutic Nutrition Practical
IVNo of Credits: 2
Year / Semester: II /
Total No. of Students: 14

Course Teacher Name: Mrs. P. Deepalakshmi

Total No. of Contact Hours: 60

Sl. No.	Week No.	Name of the Experiment	Page No in the Lab Manual	No. of Hours	Cumulative Hours
1	I	Planning and preparation of Therapeutic and Modified diets a. Soft diet b. Fluid diet c. Bland diet		6	
2	II	d. High protein diet e. High fibre diet f. Low fibre diet g. Calorie restricted diet		6	12
3	III	Planning and preparing a meal for a. Low income family		4	
4	IV	b. Middle income family		4	12

5	V	c. High income family	4	
6	VI	Normal diet-Plan a day's menu with Reference Man and Women	6	
7	VII	Pregnancy and Lactation (RDA)		12
			6	
8	VIII	Planning and preparation of therapeutic and modified diets.		
		a. Deficiency disorders		
		(i) PEM	6	
		(ii) Vitamin – A deficiency		
		(iii) Iron deficiency		10
9	IX	b.Febrile diseases Typhoid, Tuberculosis	2	12
		c.Obesity and Underweight	3	
10	X	d.Diabetes mellitus		
		e.Cardiac diseases- Hypertension	3	
		f.Renal disorders – Nephrosis, Renal failure		
			TOTAL NO OF	HOURS:60

Gap in the Syllabus

SL. NO	Name of the Topic	No of Hours Allotted
1.	Preparation of diet for Burns	2

COURSE PLAN FOR CONTENT BEYOND SYLLABUS

SI.NO	Торіс	Total No of Hours Allotted
1	Menu planning for Preshool, School going and Adolescent age groups.	4

Designation		Prepared by	
Assistant Professor	Name	Signature	Date
Course Coordinator / Incharge	Mrs.P.Deepalakshmi		
Programme Coordinator	Mrs.P.Deepalakshmi		

	Approved by					
	Name	Signature	Date			
HoD	Ms.A.Sona					
Dean Academics	Dr.S.Priya					
Principal	Dr. R.Sujatha					

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme: B.Sc., Food Science and Processing Management

Title of the Course : Food Preservation

No of Credits: 2

Course Teacher Name: Mrs. P. Deepalakshmi

Course Code: 19BF410

Course Coue (1) DI 110

Year / Semester: II / IV

Total No. of Students: 62

Total No. of Contact Hours: 30

Sl. No.	ТОРІС	Reference / Text Book_Page No	hing Aids		e of Del o of Hou		Cumulative Hours
		Refere Book_	*Teaching	L	Т	P	
	UNIT – I						
1.	Food preservation	R2, 121	ВВ	1			
2.	Food Processing	R2	ВВ	1			
3.	Aims of food preservation	W3	BB	1			0
4.	Historical developments	W4	BB	1		-	8
5.	Current developments	W4	BB	1			
6.	Principles of preservation	T1, 28	BB/V	1			
7.	Methods of food preservation	R2,363	BB/V	1			

8.	Revision/Test/Quiz				1		
	UNIT – II						1
9.	Methods of drying – Sun drying	T2, 88	BB/V	1			
10.	Mechanical drying	T2, 85	BB/V	1			4
11.	Dried Products	T2, 71	BB/V	1		-	4
12.	Revision/Test/Quiz	T2, 462	BB		1	-	
	UNIT – II	I			- I	1	1
13.	High Temperature – Blanching, Pasteurization	T2, 26,48	BB	1			
14.	Thermal processing –Sterilization	T2, 53	BB	1			
15.	Thermal processing –Canning, Bottling	W2	BB	1			
16.	Dielectric heating	W2	BB	1			8
17.	Low Temperature - Refrigeration	T1, 128	BB	1			
18.	Freezing – Methods of freezing	T2, 125	BB	1			
19.	Changes during freezing	T1, 174	BB	1			
20.	Revision/Test/Quiz				1		
	UNIT – IV	7	•		•		
					ı		T
21.	Natural agents in food preservation and their advantages	W2	BB	1			
22.	Salt and Sugar	W2	BB	1			
23.	Preparation of Jam, Jelly	W2	BB/V	1			6
24.	Pickle, Murabbas	W2	BB/V	1		_	O
25.	Honey amla	W2	BB/V	1			
26.	Revision/Test/Quiz				1		
	UNIT	$\Gamma - \mathbf{V}$			1	1	

27.	Class II preservatives	TI 362-	BB	1			
28.	Sodium benzoate, KMS		BB	1			
29.	Acetic acid, Citric acid		BB	1		-	4
30.	Additives Types and Uses		BB	1			
				Tota	al No.of	Hours	30

Text Book

T1	Potter NH, "Food Science", CBS Publication (New Delhi)
T2	Brennan. (2009). "Food Processing Handbook", Weinheim: Wiley - VCH Verlag G & CO

Reference Books

R1	Fellows P.J (2000). Food Processing Technology – Principles and practice, Florida, USA: CRC Press LLC.
R2	Srilakshmi, B. (2010). "Food Science", New Age International. (p) Ltd, Chennai.

Web Resources

W1	https://www.slideshare.net/pallvidhotra/hurdle-technology
W2	http://www.ignouhelp.in/ignou-mscdfsm-study-material/

E – Books /Library INFLIBNET RESOURCES

Е	E1	Anterpreet Kaur Arora et al, "Is chemical safety to food hazardous? – Dangers of food preservatives", J Indian Acad
		Forensic Med, 31(4) (2010)

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Modern food processing techniques	PPT	2	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	PPT	Preservation by modern methods	2

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – I	20%
2.	I INTERNAL	Unit – I, II, III (up to Dielectric heating)	50%
3.	II INTERNAL	Unit – III (Low Temperature) , IV, V	50%
4.	End Semester Examination	Unit I to V	100%

Designation		Prepared by			
Assistant Professor	Name	Signature	Date		
Course Coordinator / In-charge	Mrs.P.Deepalakshmi				
Programme Coordinator	Mrs.P.Deepalakshmi				

	Approved by						
	Name	Signature	Date				
HoD	Ms. A.Sona						
Dean Academics	Dr.S.Priya						
Principal	Dr.R.Sujatha						

SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE DEPARTMENT OF COMMERCE (B&I) COURSE BLAN FOR THE ACADEMIC VEAR 2020 2021

COURSE PLAN FOR THE ACADEMIC YEAR -2020-2021

Course Name: Consumer Affairs Faculty: Dr.A.KODIYARASU (1855)

Class : II B.Sc.,(FSPM))	Even Semest	ter
Course code	Unit	Chapter	Chapter Name	Hours
19CO405	I	1	Concept of Consumer	1
19CO405	I	2	Nature of markets: Concept of Price in Retail and Wholesale,	1
19CO405	I	3	Maximum Retail Price (MRP)	1
19CO405	I	4	Fair Price	
19CO405	I	5	GST	1
19CO405	I	6	labeling and packaging along with relevant laws	1
19CO405	I	7	Consumer buying process	1
19CO405	II	1	Consumer Rights and unfair trade practices	1
19CO405	II	2	Advisory Bodies: Consumer Protection Councils at the Central, State and District Levels	2
19CO405	II	3	Adjudicatory Bodies: District Forums	1
19CO405	II	4	State Commissions	1
19CO405	II	5	National Commission	1
19CO405	III	1	Who can file a complaint	1
19CO405	III	2	Grounds of filing a complaint;	1
19CO405	III	3	Limitation period	1
19CO405	III	4	Procedure for filing and hearing of a complaint;	

19CO405	III	5	Disposal of cases	1
19CO405	III	6	Relief/ Remedy available;	1
19CO405	III	7	Appeal, Offences and penalties	1
19CO405	IV	1	Evolution of Consumer Movement in India	1
19CO405	IV	2	Formation of consumer organizations	1
19CO405	IV	3	role in consumer protection	1
19CO405	IV	4	Misleading Advertisements	1
19CO405	IV	5	sustainable consumer National Consumer Helpline	1
19CO405	IV	6	- Comparative Product testing	1
19CO405	IV	7	Sustainable consumption and energy ratings	
19CO405	V	1	Voluntary and Mandatory standards	1
19CO405	V	2	Role of BIS	1
19CO405	V	3	Indian Standards Mark (ISI)	1
19CO405	V	4	Ag-mark, Hallmarking	1
19CO405	V	5	Licensing and Surveillance;	1
19CO405	V	6	Role of International Standards: ISO an Overview	1
			Total	30

Text book:

1. Khanna, Sri Ram, Savita Hanspal, Sheetal Kapoor, and H.K. Awasthi. (2007) Consumer Affairs, Universities Press.

Suggested Readings:

1. Choudhary, (2005). Consumer Protection Law Provisions and Procedure, Deep and Deep Publications Pvt. Ltd.

- 2. G.Ganesan and M.Sumathy. (2012). Globalization and Consumerism: Issues and Challenges, Regal Publications
- 3. Suresh Misra and Sapna Chadah (2012). Consumer Protection in India: Issues and Concerns, IIPA, New Delhi
- 4. Rajyalaxmi Rao (2012), Consumer is King, Universal Law Publishing Company
- 5. Girimaji, (2002). Consumer Right for Everyone Penguin Books.
- 6. E-books: www.consumereducation.in
- 7. Empowering Consumers e-book, www.consumeraffairs.nic.in
- 8. e-book, www.bis.org

The Consumer Protection Act, 1986 and its later versions

Gaps in the Syllabus

Sl. No.	Name of the Topic	Proposed Action	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.				
2.				

* Proposed Actions can be Assignments, Seminars, Peer Teaching, Industrial Visit, Others (if any)

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)- Nil

SI.No.	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No. of Hours Allotted
1					

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – I	20
2.	I INTERNAL	Unit – I, II, III	50
3.	II INTERNAL	Unit – III, IV, V	50
4.	End Semester Examination	Unit I to V	100
	Designation	Prepared by	
		Name Signa	ture Date

Course Coordinator / In-charge	Mr.Kodiarasu	
Programme Coordinator	Mrs.Padmavathy	

	Approved by					
	Name	Signature	Date			
HoD	Mrs.Padmavathy					
Dean Academics	Dr.S.Priya					
Principal	Dr.R.Sujatha					

COURSE PLAN – 2020 – 21 (/EVEN SEMESTER)

Name of the Programme: B.Sc Food Science and Processing Management

Course Name : Evaluation of Food Quality

Year / Semester : II / IV

No of Credits : 2

Course Teacher(s) Name : Ms. A.Sona

Programme Code: FM1011

Course Code: 19BF408

Total No. of Students 14

Total No. of Contact Hours

Corresponding lab Paper: No

30

Reference / Text Book_Page No **Mode of Delivery** *Teaching Aids No of Hours **Cumulative** Sl. **TOPIC** Hours No. L \mathbf{T} P UNIT – I BB1 1. Introduction Sensory characteristics of food - Appearance, Color, Flavor, 6 T1 309 2. BB 2 1 **Texture** T1 311 BB **3.** Psychological factors UNIT – II 4. BBReasons for testing food quality T1 311 1 5. BBTrained panel members T1 312 6 6. BB Testing laboratories T1 312 1 7. Preparation of samples BB T1 313

8.	Techniques of smelling and tasting, Testing time, Design of experiment	T1 313	BB	1				
9.	Evaluation card	T1 314	BB	1				
	UNIT – III		1		•			
10.	Difference test	T1 314	BB	1				
11.	Rating test	T1 317	BB	2	1			
12.	Sensitivity test	T1 323	BB	1		-	6	
13.	Descriptive test	T1 324	BB	1				
	UNIT – IV	•	1	•				
14.	Advantages and Disadvantages of objective evaluation	T1 326	BB	1				
15.	Tests used for objective evaluation – Chemical, Physicochemical	T1 327	BB	2	_	-	6	
16.	Microscopic and Physical	T1 329	BB	2				
17.	Basic guidelines	T1 327	BB	1				
	UNIT – V							
18.	Instruments used for liquids and semisolids	T1 332	BB	2				
19.	Instruments used for Solids	T1 334	BB	2	_	-	6	
20.	Importance of sensory evaluation in the food industry	W2	BB	2				
	TOTAL HOURS						30	

Text Book

T1 Srilakshmi, B. (2010). "Food Science", New Age International. (p) Ltd, Chennai.

Reference Books

R1	Norman N. Potter (2012) "Food Science", International Thomson Publishing, U.S

Web Resources

W1	https://www.slideshare.net/natrajdurgannavar/sensory-evaluation-of-food
W2	http://ecoursesonline.iasri.res.in/mod/page/view.php?id=6033

E – Books /Library INFLIBNET RESOURCES

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E1	https://epgp.inflibnet.ac.in/

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Importance of sensory evaluation in food industry	Peer teaching	2	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	W1, E1	Lecture	PPT	Score card preparation	2

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	Unit – I	20%
2.	I INTERNAL	Unit – I, II, III (up to Rating test)	50%
3.	II INTERNAL	Unit – III (from Sensitivity test),	50%

		IV,V	
4.	End Semester Examination	Unit I to V	100%

Designation	Prepared by					
	Name	Signature	Date			
Course Coordinator / In-charge	A.Sona					
Programme Coordinator	P.Deepalakshmi					

	Approved by								
	Name Signature								
HoD	A.Sona								
Dean Academics	Dr.S.Priya								
Principal	Dr.R.Sujatha								

COURSE PLAN – 2020 – 21 (EVEN SEMESTER)

Name of the Programme: Food Science and Processing Management Programme Code: FM1011

Title of the Course: Food Ethics

Course Code: 19BF409

Year / Semester : II/IV Total No. of Students : 14

No of Credits : 2 Total No. of Contact Hours : 30

Course Teacher Name: Mrs.M .Venkata Subbulakshmi Corresponding lab Paper : No

	TOPIC	Reference / Text Book_Page No	hing Aids	Mode of Delivery No of Hours			Cumulative Hours
SI. No.			*Teaching	L	Т	P	
	UNIT – I						
1.	Fundamentals and importance of ethics in Food science	T1, 1-18	BB	2	1		
2.	The virtue ethics model for the person		BB	1	1		
3.	The four classical virtues, Application of the virtues		BB	2			
4.	Revision / Test / Quiz						
						-	6
	UNIT – II						
5.	Ethical theories and Principles	R1, 39-	BB	2		-	
6.	Ethics and the food industry,	53	BB	1			

7.	The Ethical Matrix, The ethical matrix as an ethical map		BB	2	1		6
8.	Revision / Test / Quiz						
	UNIT – III			1		1	
9.	Eating in between life and death	R1 3- 21	BB	1			
10.	Social Meaning of the food, Food and ethics in history,		BB	2			6
11.	Global hunger – Evils and reasons.		BB	2			
12.	Revision / Test / Quiz			2			
						-	
	UNIT – IV						
13.	The History of Industrialization of Agriculture	R1, 61- 89	BB	2			
14.	Food ethics of the Consumers		BB	1			
15.	Animals as Food Producers - Five freedoms Sustainable food system		BB	2			6
16.	Revision / Test / Quiz			1		_	
	UNIT – V	'		1	.	<u> </u>	
17.	Food Safety - Issues in Food safety, Code of ethics in Inspection.	T2, 82-90	BB	2			
18.	Food Marketing and ethics - Applying ethics to food marketing.	T2 134- 151	BB	2	2		6
19.	Revision / Test / Quiz					_	
20.	Total						30

Text Book

T1	J.Peter C, C.R. J W& Sons. (2013). "Practical Ethics for Food Professionals", Ethics in Research Education and the Workplace.
T2	Ben mephan. (1996) "Food ethics", 1st edition, London.

Reference Books

R1 C	Christian Coff. (2006). "The Taste For Ethics", Demark.
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Web Resources

W1	https://www.foodethicscouncil.org/learn/food-ethics/what-is-food-ethics/
W2	https://www.researchgate.net/publication/40110417_Ethics_of_Food_Production_and_Consumption
W3	https://experiencelife.com/article/the-ethics-of-eating/
W4	https://drive.google.com/file/d/1emLPBQZR3GsbTYCCBj2ZMOBJdFxhr-Sl/view

E – Books /Library INFLIBNET RESOURCES

E1	https://ecochallenge.org/media/documents/Hungry_for_ChangeFirst_Session.pdf
:	https://ecocharicinge.org/media/documents/11dngly_for_change1 inst_bession

Gaps in the Syllabus

SL. NO	Name of the Topic	PROPOSED ACTION	No of Hours Allotted	Hours with in the Time Table (HT) / Hours beyond the Time Table (HB)
1.	Importance of food Ethics and Need of Food Ethics	Assignment	1	HT

COURSE PLAN FOR CONTENT BEYOND SYLLABUS (TO MEET THE INDUSTRIAL NEEDS)

SI.NO	Module	Mode of Delivery	Teaching Aids	Planned Topics	Total No of Hours Allotted
1	I	Lecture	Video	Introduction to food Ethics	2
2	2	Lecture	Pear teaching	Food Safety - Issues in Food safety, Code of ethics in Inspection.	2

Sl. No.	Mode	Proposed Portions to be Covered	Proportion (Portion) in Percentage
1.	SLIP / CLASS TEST	UNIT I	20%
2.	I INTERNAL	UNIT - I, II, III(Social Meaning of Food)	50%
3.	II INTERNAL	UNIT - III,(History of Food Ethics) IV, V	50%
4.	Summative Examination	ALL FIVE UNITS	100%

Designation	Prepared by		
Assistant Professor	Name	Signature	Date
Course Coordinator / In-charge	M. Venkata Subbulakshmi		
Programme Coordinator	P. Deepalakshmi		

Approved by				
	Name	Signature	Date	
HoD	Ms.A.Sona			
Dean Academics	Dr.S. Priya			
Principal	Dr.R. Sujatha			