STRUCTURE OF THE SYLLABUS FOR 4 YEAR UG PROGRAMME

ROYAL SCHOOL OF BIO SCIENCES

B.Sc. Food Technology(Honours/Honours with Research)

1 st SEMESTER				
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT	
Major (Core)	FTC152M101	Principles of Food Processing and Preservation	3	
	FTC152M101	Practical on Principles of Food	3	
		Processing and Preservation		
Minor	FTC152N101	Basic Food Science	3	
IKS	IKS 1	IKS I (Introduction to Indian Knowledge	3	
		System- I)		
Ability	AEC982A101	Communicative English	1	
Enhancement course (AEC)	BHS982A102	Behavioral Science –I	1	
Skill Enhancement Course (SEC)	FTC152S111	Fruits and Vegetables Processing	3	
Value Added	VAC 1	Basket Course	3	
Course (VAC)	VIIC 1	Busket Course	3	
*Swayam/MOOCs	Swayam/MOOCs 1	*Swayam/MOOCs course will be	3	
•		identified by the dept. from the list of		
		courses available on the MOOCs/Swayam		
		portal		
		TOTAL CREDIT FOR 1st SEMESTER	23	
		2 nd SEMESTER		
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT	
Major (Core)		Fruits and Vegetables Product	3	
	FTC152M201	Technology		
	FTC152M201		3	
	110132141211	Practical on Fruits and Vegetables		
		Product Technology		
Minor	FTC152N201	Food Microbiology	3	
IKS	IKS	IKS II (Introduction to Indian Knowledge	3	
		System- II)		
AEC	AEC982A201	Communicative English	1	
	BHS982A202	Behavioral Science –II	1	
SEC	FTC152S211	Waste and By-product Utilization	3	
VAC	VAC 2	Basket Course	3	
*Swayam/MOOCs	Swayam/MOOCs 1	*Swayam/MOOCs course will be	3	
		identified by the dept. from the list of		
		courses available on the MOOCs/Swayam		
		portal	22	
		TOTAL CREDIT FOR 2 nd SEMESTER	23	

COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	FTC152M301	Food Chemistry	4
	FTC152M311	Practical on Food Chemistry	4
Minor	FTC152N301	Food Ingredients and Additives	4
IDC	IDC 3	Basic Food Processing	3
AEC	AEC982A301	Communicative English	1
		Behavioral Science –III	1
	BHS982A302		
SEC	FTC152S311	Basic techniques in bakery	3
*Swayam/MOOCs	Swayam/MOOCs 1	*Swayam/MOOCs course will be	3
•		identified by the dept. from the list of	
		courses available on the MOOCs/Swayam	
		portal	
			23
		3 rd SEMESTER	
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	FTC152M401	Cereals, Pulses and Oilseeds Product	4
		Technology	
	FTC152M402	Traditional Knowledge of Indian Foods	4
	FTC152M411	Practical Cereals, Pulses and Oilseeds	4
		Product Technology and Traditional	
		Knowledge of Indian Foods	
Minor	FTC152N401	Food Product Development	3
Willion	FTC152N402	Sugar Confectionary and Chocolate	3
	11013211402	Processing	3
AEC	AEC982A401	Communicative English	1
	BHS982A402	Behavioral Science –IV	1
*Swayam/MOOCs	Swayam/MOOCs 1	*Swayam/MOOCs course will be	3
•		identified by the dept. from the list of	
		courses available on the MOOCs/Swayam	
		portal	
		TOTAL CREDIT FOR 4th SEMESTER	23
		5 th SEMESTER	
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	FTC152M501	Dairy Technology	4
	FTC152M501	Animal Product Technology	4
	FTC152M502	Practical on Dairy and Animal Product	4
	1 1 0132111311	Technology	
Minor	ETC150N501	Basic of Food Processing and	4
	FTC152N501	Preservation	
Internship	FTC152M521	Internship	4
*	1	TOTAL CREDIT FOR 5 th SEMESTER	20

COMPONENT	COURSE CODE	COURSE TITLE		CREDIT
Major (Core)	FTC152M601	Unit Operations in food processing		4
	FTC152M602	Food Packaging Technology		4 4
	FTC152M603	Food Safety and Quality Mana	Food Safety and Quality Management	
	FTC150M611	D (1 1 11)		
	FTC152M611	Practical on Unit operation, pa	~ ~	
		and quality managemen	l	
Minor	FTC152N601	Extrusion Technology		4
		TOTAL CREDIT FOR 6 th SEM	MESTER	20
7 th SEMESTER				
COMPONENT	COURSE CODE	COURSE TITLE		CREDIT
Major (Core)	FTC152M701	Food Plant Sanitation		4
	FTC152M702	Concepts of Food Engineer	ring	4
	FTC152M703	Fermentation Technolog	•	4
	FTC152M711	Practical on Food Plant Sanitar		4
		Fermentation Technolog	-	
Minor	FTC152N701	Food Business Management		4
		TOTAL CREDIT FOR 7 th SEM	MESTER	20
COMPONENT	COURSE CODE		LEVEL	CREDIT
Major (Core)	FTC152M801	Nutraceutical and Functional Foods		4
Minor	FTC152N801	Research Methodology		4
Project /	FTC152M821	Research Project		12
Dissertation		OR Food Quality and Sensory Evaluation Food Adulteration and Additives Technology of Spices, Condiments and Plantation Crops		
	FTC152M802			4
	FTC152M002			4
	FTC152M803			4
	FTC152M804			
	I.	TOTAL CREDIT FOR 8 th SEN	MESTER	20

STRUCTURE OF THE SYLLABUS FOR 2 YEAR PG PROGRAMME

ROYAL SCHOOL OF BIO SCIENCES

M.Sc. Food Technology

	1 st SEMESTER	
COURSE CODE	COURSE TITLE	CREDIT
FTC154C101	Food Biochemistry and Nutrition	4
FTC154C102	Food Preservation and Processing	4
FTC154C103	Food Microbiology	4
FTC154C104	Cereals, Legumes and Oilseeds Processing Technology	4
FTC154C115	Practical on Biochemistry and Nutrition TOTAL CREDIT FOR 1st SEMESTER	4
	20	
	2 nd SEMESTER	
COURSE CODE	COURSE TITLE	CREDIT
FTC154C201	Spices and Plantation Crop Technology	4
FTC154C202	Instrumental Techniques in Food Analysis	4
FTC154C203	Food Safety, Quality Control, and Management Systems	4
FTC154C204	Meat, Poultry, Freshwater, and Marine Food	4
	Technology	
FTC154C215	Practical on Spices and Plantation Crop Technology	4
	TOTAL CREDIT FOR 2 nd SEMESTER	20
	TOTAL CREDIT FOR 1st YEAR = 40	
	3 rd SEMESTER	
COURSE CODE	COURSE TITLE	CREDIT
FTC154C301	Food Plant Design and Layout	4
		4
FTC154C302	Research Methodology and Statistics	4 4
FTC154C302 FTC154C303	Research Methodology and Statistics Nutraceuticals and Health Foods	
		4
FTC154C303	Nutraceuticals and Health Foods	4 4
FTC154C303 FTC154C314	Nutraceuticals and Health Foods Practical on Food Plant Design and Layout Practical on Research Methodology and Statistics	4 4 4
FTC154C303 FTC154C314	Nutraceuticals and Health Foods Practical on Food Plant Design and Layout	4 4 4 4
FTC154C303 FTC154C314	Nutraceuticals and Health Foods Practical on Food Plant Design and Layout Practical on Research Methodology and Statistics TOTAL CREDIT FOR 3 rd SEMESTER	4 4 4 4
FTC154C303 FTC154C314	Nutraceuticals and Health Foods Practical on Food Plant Design and Layout Practical on Research Methodology and Statistics TOTAL CREDIT FOR 3 rd SEMESTER OR 3 rd SEMESTER	4 4 4 4
FTC154C303 FTC154C314 FTC154C315	Nutraceuticals and Health Foods Practical on Food Plant Design and Layout Practical on Research Methodology and Statistics TOTAL CREDIT FOR 3 rd SEMESTER OR 3 rd SEMESTER (For students with 3 rd and 4 th Semester Research)	4 4 4 4 20
FTC154C303 FTC154C314 FTC154C315	Nutraceuticals and Health Foods Practical on Food Plant Design and Layout Practical on Research Methodology and Statistics TOTAL CREDIT FOR 3 rd SEMESTER OR 3 rd SEMESTER (For students with 3 rd and 4 th Semester Research) RESEARCH PROJECT – PHASE I 500	4 4 4 4 20
FTC154C303 FTC154C314 FTC154C315 FTC154C321	Nutraceuticals and Health Foods Practical on Food Plant Design and Layout Practical on Research Methodology and Statistics TOTAL CREDIT FOR 3 rd SEMESTER OR 3 rd SEMESTER (For students with 3 rd and 4 th Semester Research) RESEARCH PROJECT – PHASE I 500 4 th SEMESTER	4 4 4 4 20
FTC154C303 FTC154C314 FTC154C315 FTC154C321 COURSE CODE	Nutraceuticals and Health Foods Practical on Food Plant Design and Layout Practical on Research Methodology and Statistics TOTAL CREDIT FOR 3 rd SEMESTER OR 3 rd SEMESTER (For students with 3 rd and 4 th Semester Research) RESEARCH PROJECT – PHASE I 500 4 th SEMESTER COURSE TITLE	4 4 4 4 20 20 CREDIT

FTC154C402	Recent Trends in Food Product Development	4		
FTC154C421	Dissertation-2 [One year PG (coursework + research)]	12		
TOTAL CREDIT FOR 4 th SEMESTER = 20				
OR 4 th SEMESTER (For students with 3 rd and 4 th semester Research)				
FTC154C421	RESEARCH PROJECT -PHASE 2	20		
TOTAL CREDIT FOR 2 nd YEAR = 40				