

National Backward Krushi Vidyapeeth, Solapur

(PRIVATE UNIVERSITY)

Scheme and Syllabus for B.Sc. (Food Science Technology)

Programme Structure

(SEMESTER wise)

BACHELOR OF SCIENCE (Hons.) IN. FOOD SCIENCE TECHNOLOGY

Course Code: NBKVS0411

Dept. of Food Science and Tech.

National Backward Krushi Vidyapeeth, Solapur

(PRIVATE UNIVERSITY)

Scheme and Syllabus for B.Sc. (Food Science Technology)
CHOICE BASED CREDIT SYSTEM - 2024

Group	Course Code	Title of Courses	SEMESTER - I		Marks					Credits
			Instruction hrs/week	Duration of Exam (hrs)	IA	Exam	PA	Practical	Total	
Group I Core Courses	FST111	Food and Nutrition	2	4	20	80	10	40	150	2+1=3
	FST112	Principles of Food Science	2	4	20	80	10	40	150	2+1=3
	FST113	Food Microbiology	2	4	20	80	10	40	150	2+1=3
Out of 3 Courses ONE to be opted										
Group II Core Courses a) Supportive to the discipline of the study	FST114	Food Flavour	2	2	10	40			50	1+0=1
	FST115	Nutrition Through Life Cycle								
	FST116	Post-Harvest Management								
Group III Core Courses Foundation Courses	A. Compulsory Foundation	English	4	1	20	80			100	2+0=2
		Marathi/Hindi/Kannada	4	1	20	80			100	2+0=2
	B. Elective Foundation	i. Constitution of India	2	2	10	40			50	0+1=1
Group IV	EC & CC	N.S.S./N.C.C.	2	2	10	40			50	0+1=1
Total			35	2	50				50	0+1=1
									800	11+5=16

Group	Course Code	Title of Courses	SEMESTER - II		Marks					Credits
			Instruction hrs/week	Duration of Exam (hrs)	IA	Exam	PA	Practical	Total	
Group I Core Courses	FST121	Food Chemistry	2	4	20	80	10	40	150	2+1=3
	FST122	Food Preservation	2	4	20	80	10	40	150	2+1=3
	FST123	Fundamentals of Food Processing	2	4	20	80	10	40	150	2+1=3
Out of 3 Courses ONE to be opted										
Group II Core Courses b) Providing an expanded scope	FST124	Technology of Spices	2	2	10	40			50	1+0=1
	FST125	Research and Development of New Product								
	FST126	Total Quality Management								
Group III Core Courses Foundation Courses	A. Compulsory Foundation	English	4	1	20	80			100	2+0=2
		Marathi/Hindi/Kannada	4	1	20	80			100	2+0=2
	B. Elective Foundation	ii. Human Rights	2	2	10	40			50	0+1=1
Group IV	EC & CC	N.S.S./N.C.C.	2	2	10	40			50	0+1=1
Total			35	2	50				50	0+1=1
									800	11+5=16

National Backward Krushi Vidyapeeth, Solapur

(PRIVATE UNIVERSITY)

Scheme and Syllabus for B.Sc. (Food Science Technology)
CHOICE BASED CREDIT SYSTEM - 2024

Group	Course Code	Title of Courses	SEMESTER - I		Marks					Credits
			Instruction hrs/week	Duration of Exam (hrs)	IA	Exam	PA	Practical	Total	
Group I Core Courses	FST111	Food and Nutrition	2	4	20	80	10	40	150	2+0+2
	FST112	Principles of Food Science	2	4	20	80	10	40	150	2+0+2
	FST113	Food Microbiology	2	4	20	80	10	40	150	2+0+2
Out of 3 Courses ONE to be opted										
Group II Core Courses a) Supportive to the discipline of the study	FST114	Food Flavour	2	2	10	40			50	1+0+1
	FST115	Nutrition Through Life Cycle								
	FST116	Post-Harvest Management								
Group III Core Courses Foundation Courses	A. Compulsory Foundation	English	4	1	20	80			100	2+0+2
		Marathi/Hindi/Kannada	4	1	20	80			100	2+0+2
	B. Elective Foundation	i. Constitution of India	2	2	10	40			50	0+1+1
Group IV	EC & CC	N.S.S./N.C.C.	2	2	10	40			50	0+1+1
Total			35	2	50				50	0+1+1
									800	11+5+16

Group	Course Code	Title of Courses	SEMESTER - II		Marks					Credits
			Instruction hrs/week	Duration of Exam (hrs)	IA	Exam	PA	Practical	Total	
Group I Core Courses	FST121	Food Chemistry	2	4	20	80	10	40	150	2+1+2
	FST122	Food Preservation	2	4	20	80	10	40	150	2+1+2
	FST123	Fundamentals of Food Processing	2	4	20	80	10	40	150	2+1+2
Out of 3 Courses ONE to be opted										
Group II Core Courses b) Providing an expanded scope	FST124	Technology of Spices	2	2	10	40			50	1+0+1
	FST125	Research and Development of New Product								
	FST126	Total Quality Management								
Group III Core Courses Foundation Courses	A. Compulsory Foundation	English	4	1	20	80			100	2+0+2
		Marathi/Hindi/Kannada	4	1	20	80			100	2+0+2
	B. Elective Foundation	ii. Human Rights	2	2	10	40			50	0+1+1
Group IV	EC & CC	N.S.S./N.C.C.	2	2	10	40			50	0+1+1
Total			35	2	50				50	0+1+1
									800	11+5+16

National Backward Krushi Vidyapeeth, Solapur

(PRIVATE UNIVERSITY)

Scheme and Syllabus for B.Sc. (Food Science Technology)

CHOICE BASED CREDIT SYSTEM - 2024

SEMESTER - III										
Group	Course Code	Title of Courses	Instruction hrs/week	Duration of Exam (hrs)	Marks					Credits
Group I Core Courses	FST231	Technology of Plant Products	7	6	20	80	10	40	150	2+1=3
	FST232	Technology of Animal Products	7	6	20	80	10	40	150	2+1=3
	FST233	Brewing and Fermentation Technology	7	6	20	80	10	40	150	2+1=3
Out of 3 Courses ONE to be opted										
Group II Core Courses a) Supportive to the discipline of the study	FST234	Entrepreneurship Development	2	2	10	40	-	-	50	1+0=1
	FST235	Role of Sensory Panel Members in Food Industries								
	FST236	Pest Management of Stored Foods								
Group III Core Courses Foundation Courses	a. Compulsory Foundation	English	4	3	20	80	-	-	100	2+0=2
		Marathi/Hindi/Kannada	4	3	20	80	-	-	100	2+0=2
	b. Elective Foundation	iii. Gender & Equity	2	2	10	40	-	-	50	0+1=1
Group IV	EC & CC	N.S.S./N.C.C.	2	2	50	-	-	-	50	0+1=1
Total			35	2	50	-	-	-	800	11+5=16

Group	Course Code	Title of Courses	SEMESTER - IV		Marks					Credits
			Instruction hrs/week	Duration of Exam (hrs)	IA	Exam	PA	Practical	Total	
Group I Core Courses	FST241	Bakery, Confectionary and Extruded Foods	7	6	20	80	10	40	150	2+1=3
	FST242	Technology of Fat and Oil Products	7	6	20	80	10	40	150	2+1=3
	FST243	Food Biotechnology	7	6	20	80	10	40	150	2+1=3
Out of 3 Courses ONE to be opted										
Group II Core Courses b) Providing an expanded scope	FST244	Dairy Technology	2	2	10	40	-	-	50	1+0=1
	FST245	Technology of Fruits & Vegetables								
	FST246	Food Safety, Quality and Regulation								
Group III Core Courses Foundation Courses	a. Compulsory Foundation	English	4	3	20	80	-	-	100	2+0=2
		Marathi/Hindi/Kannada	4	3	20	80	-	-	100	2+0=2
	b. Elective Foundation	iv. Environmental Studies	2	2	10	40	-	-	50	0+1=1
Group IV	EC & CC	N.S.S./N.C.C.	2	2	50	-	-	-	50	0+1=1
Total			35						50	0+1=1
									800	11+5=16

National Backward Krushi Vidyapeeth, Solapur

(PRIVATE UNIVERSITY)

Scheme and Syllabus for B.Sc. (Food Science Technology) CHOICE BASED CREDIT SYSTEM - 2024

			SEMESTER - V		Marks				Credits	
Group	Course Code	Title of Courses	Instruction hrs/week	Duration of Exam (hrs)	IA	Exam	PA	Practical	Total	
Group I Core Courses	FST351	Application of Biomolecules	6	5	20	80	10	40	150	2+1=3
	FST352	Cereals and Legumes Technology	6	5	20	80	10	40	150	2+1=3
	FST353	Principles of Fruits and Vegetables processing	6	5	20	80	10	40	150	2+1=3
	FST354	Introduction to Renewable Energy and Management	6	5	20	80	10	40	150	2+1=3
	FST355	Biophysics	6	5	20	80	10	40	150	2+1=3
	FST356	Physical and Chemical aspects of Biological Sciences	6	5	20	80	10	40	150	2+1=3
Total			36						900	12+6=18

SEMESTER - VI										
Group	Course Code	Title of Courses	Instruction on hrs/week	Duration of Exam (hrs)	Marks					Credits
					IA	Exam	PA	Practical	Total	
Group I Core Courses		Meat, Poultry and Marine Food Processing	6	5	20	80	10	40	150	2+1=3
	FST361	Introduction to Human Physiology	6	5	20	80	-	-	100	2+0=2
	FST362	Food Additives	6	5	20	80	10	40	150	2+1=3
	FST363	Renewable Energy Resources	6	5	20	80	-	-	100	2+0=2
	FST364	Principles of Enzyme Technology	6	5	20	80	10	40	150	2+1=3
	FST365	Modern Industrial Microbiology	6	5	20	80	10	40	150	2+1=3
			38						900	12+4=16
Total										