# PROGRAMME OUTPUT- UG

# BSc. FOOD SCIENCE AND QUALITY CONTROL

PROGRAMME OUT PUT - Train the students to be competent working professionals in the food industry, encourage students to become entrepreneurs and to create awareness about importance of safe and nutritious food and to provide diagnostic analysis of food products

PROGRAMME SPECIFIC OUTCOME - To train the students to be competent working professionals in the food industry, encourage students to become entrepreneurs and to create awareness about importance of safe and nutritious food and to provide diagnostic analysis of food products

### COURSE OUTCOMES-

COURSE	OUTCOME
FS1CRT01- Basic Nutrition	Understand the relationship between nutrition
	and human well being and to understand the
	functions and importance of all nutrients.
FS1CRT02- Basic Food Chemistry	Students acquire knowledge on the macro and
	micro constituents of the food and know the
	structure and chemical characteristics of
	constituents of food
FS1CRT03- Methodology in the Discipline of Food	Students get familiarise to different aspects of
Science	food science, emerging trends in the field and to
	understand research oriented techniques and data
	analysis
CH1CMT01- Basic Thoeretical and analytical	Students get a basic knowledge in atomic
chemistry	structure, fundamental concepts and analytical
	techniques
ZY1CMT01- Non Chordate Diversity	Leaners get familiarize with rich diversity of
	organisms and evolutionary significance in
	invertibrate fauna
MM1CMT01- Partial Differentiation, matrices,	Upon completion students can apply
trignometry and numerical methods	differentiation, trignometry, matrics and numerical
	methods in different fields of science
Semester II	
FS2CRT04- Food Commodities	Learners understand the basic commodities both
	raw and processed in food industries and various
	aspects of their quality, production and
	distribution
FS2CRT05-Food Preservation	Students acquire knowledge on different
	preservation techniques used to enhance the shelf
	span of food products
FS2CRT06- Food Microbiology, Sanitation and	Students get an elementary knowledge about
Hygiene	micro organisms and develop an understanding of
	industry and in maintenance of health

FS2OJP07-Industrial Training(one month)	Leaners acquire practical knowledge in food
	production and its analysis in application level
CH2CMT02- Basic Organic Chemistry	Students will get guided to the mechanism in
	organic chemistry
ZY2CMT02- Chordate Diversity	Students learn the physiological and anatomical
	peculiarities of vertibrate and their economic
	importance
MM2CMT02- Integral Calculus and Differential	Students understand the scope of differents
Equations	calculus and its application
CH2CMP01- Volumetric Analysis	Students get expertize in different volumetric
	analysis methods
ZY2CMP01-Non chordate diversity and chordate	Students acqire a practical skill and familiarise in
diversity(practicals)	dissection and identification of organisms
Semester III	
FS3CRT08-Processing Technology of Animal Foods	The course enable students to understand the
1.55 cm. 55 f focessing feelinology of Admind foods	importance and methods of post processing
	technology of animal foods
FS3CRT09-Sensory Evaluation	Understand different aspects of sensory science
13361103 361301 y Evaluation	and its application and its importance as an
	analytical tool
FS3CRT10-Food Packaging Materials and Testing	Students become familiar with different methods
133CK110-1 000 Fackaging Materials and Testing	and materials used for packaging, technology
	behind packaging and its interaction with food and
	shelf life testing
CH3CMTO4- Inorganic and organic chemistry	The understanding of facts and concepts in
criscivito4- inorganic and organic chemistry	inorganic and organic chemistry will be enhanced.
ZY3CMT03- Physiology and Immunology	Leaners could understand the organ systems and
213CIVITOS- PHYSIOlogy and Illillidiology	immunological activities in the body
MMA2CMT02 Vector calculus, analytical geometry	Students will be familiar with techniques in vector
MM3CMT03- Vector calculus, analytical geometry	·
and abstract algebra	calculus, geometry and algebra
Semester IV	
FS4CRT11-Processing Technology of Plant Foods	To enable students to understand the importance
	and to gain knowledge in the processing of plant
	foods
FS4CRT12-Analytical Instrumentation	Students gain knowledge about principles and
	application of different instruments used in food
	analysis.
FS4CRT13- Food Safety and Quality Assurance	To provide a basic understanding of quality
	concepts and practice in food companies, planning
	and organization of quality control system and
	provide basic aquaintance with standard and
	specifications
FS4OJP14- Industrial Training (One Month)	Acqire practical knowledge in food industry and
-	become able to compete in the field
CH4CMT06- Advanced Bio-organic chemistry	Students understand the basic bio organic
,	components, its structure and functions

ZY4CMT04- Applied Zoology	Students get exposed to various applied methods
NANACNATOA Farriar agrica Laulaga Turunafarra	in zoology like aquaculture, horticulture etc
MM4CMT04- Fourier series, Laplace Transform and complex analysis	Students get knowledge in relevant techniques in mathematics
CH4CMP03- Organic chemistry practicals	Students get familiarized with qualitative analysis
Chacitros- Organic chemistry practicals	of organic compounds
ZY4CMP02- Physiology and Immunology and	Students will be able to handle microscope and
Applied Zoology Practicals	various physiological tests and undestand the
	identification and economic importance of applied
	zoological techniques
FS1CRT01- Basic Nutrition	Understand the relationship between nutrition
	and human well being and to understand the
	functions and importance of all nutrients.
Semester V	
FS5CRT15-Food Analysis (Theory)	To understand different sampling techniques
	employed in chemical analysis of foods and various
	chemical methods of food analysis
FS5CRT16-FoodToxicology	To make students aware of the toxicity in foods
FCFCDT47 F. '	and assess the safety of food
FS5CRT17-Environmental Studies and Human	Acquaint the student with the significance of Environmental Science. Enable the students to
Rights	
	understand various kinds of pollution in the
	environment, their impacts on the ecosystem and their control measures Make the students aware
	about various environmental laws in India and the
	role of various movements in the protection of
	nature and natural resources.
FS5OPT19- Human Health and Nutrition	To make students aware of relationship eith
Tosor 125 Haman Health and Hathari	nutrion and health, nutritional programmes and
	nutritional deficiency diseases
FS5CRP21- Basic Microbiology Practicals	To study the different laboratory equipments in
	the lab, understand the preparation of media, - To
	get thorough with various staining techniques,
	isolation and enumeration of microbes
FS5CRP22- Food Aanlysis and Adulteration Testing	Familiarise different laboratory equipments and
Practicals-I	analysis methods of various foods
FS5CRP23- Food Chemistry Practicals	To understand different chemical analysis methods
	of food
Semester VI	
FS6CRT24-Entreprenuership Development &	Understand functions, roles and duties of manager
Management in Food Industry	and acquire basic understanding about
	entreprenuership
FS6CRT25-Food Adulteration & Testing	To enable students to familiarize about the testing methods for adulteration
FS6CBT27- Basic Food Engineering	To provide an understanding of basics in food
	engineering techniques
FS6CRP29-Advanced Food Microbiology Practicals	Study the standard plate count method, identify

	microorganisms based on their enzymatic activity, evaluate micro flora of various food samples,
	assess sanitary quality of water
FS6CRP30-Food Analysis and Adulteration Testing	Understand analysis methods of various food,
Practicals- II	adulteration tests and sensory evaluation of food
FS6CRP31-Advanced Food Chemistry Practicals	Students become able to perform various chemical
	analysis of food
FS6DSP32-Project/Dissertation	Promote the research aptitude of the students and
	will get an opportunity to get involved in research
	activities.

## **BVoc FOOD TECHNOLOGY AND ANALYSIS**

PROGRAMME OUTCOME- Train the students to be competent working professionals in the food industry, encourage students to become entrepreneurs and to create awareness about importance of safe and nutritious food and to provide diagnostic analysis of food products with improved technical skills

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## COURSE OUTCOME

COURSE	OUTCOME
SEMESTER I	
	Leaners will acquire the basic knowledge in
BOCG101- Listening and speaking skills in English	speaking and listening
BOCG102 : IT for Business	Acquire knowledge in using various softwares
BOVG101: Basic Theoretical and Analytical	Students become familiarize to fundamentals of
Chemistry	theoretical and analytical chemistry
	After completion Leaners get an idea about
BOVS101 : General Mathematics and Statistics	general calculus in mathematics
	Acquire knowledge on the macro and micro
	constituents of the food and know the structure
	and chemical characteristics of constituents of
BOVS102: Food Chemistry	food
	To understand different chemical analysis methods
BOVS103: Food Chemistry practical	of food
SEMESTER II	
BOCG201: Writing and Presentation Skills in	Students get familiarize to writing patterns and
English	Develop a presntation skill
	Students will get guided to the mechanism in
BOVG201: Basic organic chemistry	organic chemistry

BOVG202: Nutritional Biochemistry  Acquire knowledge on different preservation techniques used to enhance the shelf span of food products  Understand the composition, nutritive value and uses of dairy and broaden and deepen the coverage of production, processing and utilization milk and milk products  BOVS202: Dairy Technology  BOVS203: Internship I- Dairy industry  SEMESTER III  Understand the processing and analysis of milk and milk products  Undestand the processing and analysis of milk and milk products in practical scenario  SEMESTER III  Understand functions, roles and duties of manager and management in industry  Students understand the basic bio organic components, its structure and functions  To be familiar with different methods and materials used for packaging, technology behind packaging and its interaction with food and shelf life testing  BOVG302: Food Packaging Technology I samilar with manufacturing and processing of various foods  BOVS301: Post Harvest Technology I Understand the structure and chemical characteristics of chemicals added to food  Students able to perform analysis of food additives by different methods  SEMESTER IV  Understand and social values of students and improve their personality.  BOVG401: Softskills and Personality Development  Improve ethical and social values of students and improve their personality.  Understand manufacturing, processing and quality factors of various foods  Acquire an elementary knowledge about physiology of microorganisms, their control and their role in food borne illnesses and food spoilage  To study the different laboratory equipments in the lab, understand the preparation of media, - To		Frankla students to understand the bis shoulded
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BOVG401: Advanced Physical Chemistry  Understand manufacturing, processing and quality factors of various foods  Acquire an elementary knowledge about physiology of microorganisms, their control and their role in food borne illnesses and food spoilage  To study the different laboratory equipments in the lab, understand the preparation of media, - To	BOCG401: Softskills and Personality Development	
BOVG402: Post Harvest Technology II  Acquire an elementary knowledge about physiology of microorganisms, their control and their role in food borne illnesses and food spoilage  To study the different laboratory equipments in the lab, understand the preparation of media, - To		
BOVG402: Post Harvest Technology II factors of various foods  Acquire an elementary knowledge about physiology of microorganisms, their control and their role in food borne illnesses and food spoilage  To study the different laboratory equipments in the lab, understand the preparation of media, - To	BOVG401: Advanced Physical Chemistry	,
Acquire an elementary knowledge about physiology of microorganisms, their control and their role in food borne illnesses and food spoilage  To study the different laboratory equipments in the lab, understand the preparation of media, - To		_ , , , , ,
physiology of microorganisms, their control and their role in food borne illnesses and food spoilage  To study the different laboratory equipments in the lab, understand the preparation of media, - To	BOVG402: Post Harvest Technology II	
BOVS401: Food Microbiology(T) their role in food borne illnesses and food spoilage  To study the different laboratory equipments in the lab, understand the preparation of media, - To		, ,
To study the different laboratory equipments in the lab, understand the preparation of media, - To		1
the lab, understand the preparation of media, - To	BOVS401: Food Microbiology(T)	
		1 ' ' ' '
got thorough with various staining techniques		
		get thorough with various staining techniques,
BOVS402: Food Microbiology Practical isolation and enumeration of microbes	BOVS402: Food Microbiology Practical	
BOVS403: Internship II Gain practical knowledge in food industry	BOVS403: Internship II	Gain practical knowledge in food industry
SEMESTER V	SEMESTER V	
Acquaint proper awareness among the students		Acquaint proper awareness among the students
BOCG501: Environmental Studies on environment	BOCG501: Environmental Studies	on environment
Students gain knowledge about principles and		Students gain knowledge about principles and
application of different instruments used in food		
BOVG501: Analytical Instrumentation analysis.	BOVG501: Analytical Instrumentation	analysis.

	Understand different aspects of sensory science
	and its application and its importance as an
BOVG502: Sensory Evaluation	analytical tool
·	To make students aware of the toxicity in foods
BOVS501: Food Toxicology	and assess the safety of food
	To understand different sampling techniques
	employed in chemical analysis of foods and various
BOVS502: Food Analysis-I	chemical methods of food analysis
	Familiarise different laboratory equipments and
BOVS503: Food Analysis-I Practical	analysis methods of various foods
SEMESTER VI	
	Understand functions, roles and acquire basic
BOCG601: Entreprenuership Development	understanding about entreprenuership
	Understand the operations of food industries as a
BOVG601: Food Engineering	major functional area.
	Contribute a deep insight to the principles of food
	quality systems and management of food safety
	and quality assurance, render a basic knowledge
	in assessment of food quality, hazards impending
	the food safety and regulation implemented to
BOVG602: Food Safety Management Systems	assure food quality
	To understand different sampling techniques
	employed in chemical analysis of foods and various
BOVS601: Food Analysis II	chemical methods of food analysis