PROGRAMME OUTCOMES

NUTRITION AND DIETETICS:

- 1. Utilize knowledge from the physical and biological sciences as a basis for understanding the role of food and nutrients in health and disease processes.
- 2. Provide nutrition counseling and education to individuals, groups, and communities throughout the lifespan using a variety of communication strategies.
- 3. Evaluate nutrition information based on scientific reasoning for clinical, community, and food service application.
- 4. Apply technical skills, knowledge of health behavior, clinical judgment, and decision-making skills when assessing and evaluating the nutritional status of individuals and communities and their response to nutrition intervention.
- 5. Implement strategies for food access, procurement, preparation, and safety for individuals, families, and communities.
- 6. Perform food management functions in business, health-care, community, and institutional arenas.
- 7. Practice state-of-the-art nutrition care in collaboration with other health-care providers in interdisciplinary settings within the bounds of ethical, legal, and professional practice standards.
- 8. Provide culturally competent nutrition services for individuals and communities.
- 9. Accurately interpret data and research literature to solve complex problems.
- 10. Critically evaluate information on food science and nutrition issues appearing in the popular press.
- 11. Analyze the environmental dimensions of issues facing professionals.
- 12. Demonstrate creativity in the discipline in ways that have practical benefits
- 13. Competence in the skills of assessment, planning, management and evaluation of food service, nutrition and dietetic services in institutional food, community nutrition, and clinical dietetics settings.
- 14. Students will utilize advanced principles of health literacy, including critical thinking skills, literature searches, data collection and interpretation, necessary for the implementation of food and nutrition services in professional settings.

UG.PROGRAMME OUTCOMES B.Sc., NUTRITION AND DIETETICS

S.NO	COURSE CODE	COURSE TITLE	OUTCOMES
		SEMESTE	CR-I
1	17UND1C1	Core – I Food science	To enable students to 1.Understand the major chemical reactions that occur during food preparation and storage 2.Able to describe the techniques that can be used to monitor quality of raw ingredients and final products.
2	17UND1CP2	Core – II Food science practical	To enable students to 1.Occurring knowledge to identify the major chemical components of food 2.Able to conduct basic sensory analysis of food 3.Gain training to manufacture a range of simple food products
3	17UND1A1	Allied –I Principles of Nutrition	To enable students to 1. Educate others about holistic Nutrition, life style ,wellness and healthy living 2. Design and critique evidence- based nutrition intervention for prevention and control of chronic diseases
4	17UND1AP2	Allied –II Principles of Nutrition practical	To enable students to 1. Assess the structure and component of food system and analyze the relationships between nutritional health and food selection 2. Use appropriate laboratory techniques and chemicals to enumerate, and identify the nutrients and micro organism in food.
	SEMESTER-II		
5	17UND2C3 III	Core – III Nutrition Through Life Cycle	To enable students to 1.Familiarize nutritional assessment, RDA and Recommendations & Guidelines. 2.Gain knowledge on changes during various stages of growth and development throughout life cycle. 3.Thorough understanding of basis of

			human nutritional requirements and
			recommendations throughout human
			life cycle.
6	17UND2CP4	Core – IV Nutrition	To enable students to
		Through Life Cycle	1. Understanding the nutritional
		practical	requirements through the life cycle.
		F	2. Practically gain knowledge to plan
			diet for each stage of life according
			to the guidelines for dietary needs.
7	17UND2A3	Allied – III Human	To enables the students to
		physiology	1. Gain of knowledge on different
			parts of the body.
			2. Gain knowledge on parts of the
			body and its diseases and disorders.
			3. Plan diet towards the therapeutic
			approaches of the diseases.
8	17UND2AP4	Allied –IV Human	To enables the students to
		physiology practical	1. Gain knowledge on different
			tissues, muscles and organs of the
			body.
			2. Assess an individual through
			biochemical and biophysical method.
		SEMEST	ER-III
9	17UND3C5	Core- V Dietetics-I	To enable students to
,	TIONDICI	Core V Dieteties-1	1. understand the basic principles of
			diet and diet therapy.
			2. acquire the knowledge of
			modifications of normal diet for
			therapeutic purposes.
10	17UND3CP6	Core- VI Dietetics-I	To enable students to
	1,01,05010	practical	1. acquire the skills and techniques
		F	involved in the planning and
			preparation of therapeutic diets for
			various ailments.
			2. develop the capacity and attitude
			for taking dietetics as a profession.
11	17UND3A5	Allied– V Nutritional	To enable students to
		Biochemistry	1. Capable of describing biochemical
			pathways relavent in nutrient
			metabolism
			2. Capable of using selected
			biochemical techniques that are
			relavent for the investigation of the
			nutrient metabolism.
			2 Canable of vains aslested
			3. Capable of using selected
			biochemical techniques relavent in
			nutritional biochemical research.
			4. Provide nutritional advice based

			1
			on sound scientific findings.
			5. Critically evaluate and apply
			current scientific findings in
			Nutrition and Health
12	17UND3AP6	Allied–VI Nutritional	To enable students to
		Biochemistry practical	1. Acquire skills on preparation of
			solutions
			2. Colorimetric estimation of
			biochemical molecules
13	17UND3N1	Non Major Elective I Food	To enable non –major students to
		and Health	1.Explain nutrients in foods and the
			specific functions in maintaining
			health
			2.Identify what foods are good
			sources for what nutrients
			3. Apply knowledge of the role of
			nutrition and healthy eating for
			disease prevention and wellness
			disease prevention and weiliness
		SEMESTER	2-IV
14	17UND4C7	Core– VII Dietetics-II	To enable students to
			1. Apply the principles of diet for the
			management of metabolic diseases.
			2.Use the nutrition care process for
			special conditions like allergy and
			burns.
			3. Develop the dietary models for
			cancer and HIV.
15	17UND4CP8	Core - VIII Dietetics-II	To enable students to
		practical	1. Acquire skills to plan a diet for
		r	metabolic diseases based on the
			dietary modification
			2.Evaluate the related food source
			for the special conditions.
16	17UND4A7	Allied- VII Food	To enable students to
10	17 OND III	Microbiology	1. understand about morphological
		Wherebiology	characteristics of different micro-
			organism associated to food.
			2. know about the spoilage and
			factors affecting the growth of
			microorganisms in food.
			3. Impart the knowledge about the
			role of micro-organisms in
			fermentation of foods.
			4 aware about hygiene and
17	17LINID 4 A DO	Allied VIII Ear I	sanitation in food industry.
17	17UND4AP8	Allied-VIII Food	To enable students to
		Microbiology practical	1. understand the operational
			functions of microscope and
			sterilizing equipments .

18	17UND4N2 IV	Non Major Elective - II Nutrition For the Family	2. develope skills in performing various microbiological tests used in food industry. 3. update the knowledge in identifying the important microorganism present in food. To enable students to 1. Explain rationale for nutrient
			intake recommendations across the lifespan. 2.Describe a healthy diet and food choices, and explain why such choices will help prevent health problems
		SEMESTEI	
19	17UND5C9I	Core – IX Dietetics Internship	To enable students to 1. Evaluate the patient's medical records and interpret their medical history related to the conditions. 2. Analyse the food habits and bring about the dietary changes. 3. Gain experience to plan and calculate the modified diet 4. Acquire skill to supervise and handle the food preparation and service in the dietary department of the hospital.
20	17UND5C10	Core – X Food Service Management-I	To enable students to 1. This subject equips the students for skill development, academic, understanding entreneurship. 2. Employment in various field of food industry, health clinic, NGO's etc 3. Perform training and communication skills relevant to the restaurant, food industry etc
21	17UND5C11	Core – XI Food Preservation and Bakery	To enable students to 1.Students are able to understand the basic knowledge relating to food safety and principles of preservation. 2.Students will understand the concept of processing and preservation of fruits and vegetables. 3.Equip the students to gain basic knowledge relating to the principles of baking 4.Introduce them to the techniques of cake and pastry making

22	17UND5CP12	Core - XII Food	To enable students to
<i>LL</i>	1/UNDSCF12	Preservation and Bakery	1. Student will enable to understand
		practical	different food preservation
		practical	-
			techniques, process. 2.Student will enable to extend shelf
			life of different food product by
			using the various methods of food
			preservation.
			3. Understand to describe properties
			and functions of the basic ingredients
			used in baked goods.
			4. Students will learn the Weigh and
			measure ingredients used in baking.
			5.Gain practical knowledge to
			prepare high ratio, chiffon cakes and
			genoise.
			washes, glazes, icings, frostings and
			fillings.
23	17UND5M1	Major Based Elective-I	Food Chemistry
		Food Chemistry/	To enable the students to
		Food Biotechnology	1. Develop the scientific attitude of
			the students towards the principle of
			food chemistry.
			2. Study the physico-chemical
			changes occurring in foods during
			cooking
			Food Biotechnology
			To enable the students to
			1. Understand the basic principles of
			biotechnology
			2. Apply the knowledge of
			biotechnology for the development
			of new food products
24	17UND5S2	Skill Based Elective II	Basics in Computer:
		Basics in Computer /	To enable the students to
		Nutrition for Physical	1. Gain knowledge on computer
		Fitness	operations and applications
			2. Facilitate students to design and
			use computer based projects and
			programs.
			3. Enable utilization of existing
			health and nutrition based software.
			Nutrition for Physical Fitness:
			To enable the students to
			1. Understand the components of
			health and fitness and the role of
			nutrition in these.
			2. Make nutritional, dietary and
			physical activity recommendations to
			achieve fitness and wellbeing.

			3. Develop ability to evaluate fitness
			and well-being.
25	17UND5S3 Skill	Skill Based Elective – III	Food and Nutrition
25		Food and Nutrition /	To enable students to
	Based Elective –		
	III	Basics in Nutrition	1. Understand the importance of food
			and meaning of nutrition
			2. Understand the role of nutrition in
			human life
			3. Increase the ability to overcome
			deficiency.
			Basics in Nutrition
			The enable the students to
			1. Gain knowledge about basics in
			nutrition.
			2. Acquire knowledge about their
			functions, RDA, food sources of
			nutrients
26	17UND5EC1	Extra Credit Course - I	To enable students to
		Food Packaging	1.Apply and examine the knowledge
			of properties for selection of
			packaging materials for foods food
			products
			2.Evaluate new and emerging
			technology and related underpinning
			science in food science in packaging
			3.Demonstrate advanced knowledge
			and skills in selecting packaging
			materials and technologies based on
			the characteristics of food product
			and characteristics of packaging
			materials and storage and
			distribution of requirements
		CEMECEE	1
		SEMESTER	(-VI
27	17UND6C13	Core - XIII Food Service	To enable students to
		Management	1. Assess leadership, supervisory and
			human relation skills within the
			restaurant and food service Industry
			2.Perform training and
			communication skills relevant to the
			restaurant, food industry etc
20	17ID ID (C) 4	C WIN C	
28	17UND6C14	Core - XIV Community	To enables the students to
		Nutrition	1. Assess the nutritional status of the
			community.
			2. Addressing the nutrition problems
			in the community through proper
			evaluation.
29	17UND6CP15	Core - XV Food Service	To enable students to
		Management Practical	1.Acquire skill to plan, compile and

			prepare meals based on the different region.
			2.Gain experience to standardize the
			recipes and to calculate the cost per
			yield.
30	17UND6C16	Core - XVI Food	To enable students to
	Tronbocio	Standards and Quality	1.Gains knowledge on the
		Control	importance of quality assurance in
			food industry.
			2. Thorough knowledge on various
			tests and quality assessment, using
			standards for quality assessment and
			food safety.
			3. Awareness on regulatory and
			statutory bodies in India and the
			world.
31	17UND6M2	Major Based Elective II	Human Development:
		Human Development/	To enable non-major students to
		Basics in Food Safety	1. Understand the importance of food
			and meaning of nutrition
			2. Understand the role of nutrition in
			human life
			3. Increase the ability to overcome
			deficiency
			Basics in Food Safety
			To enable the students to
			1. Understand the Food regulation Acts in India.
			2. Acquire skills in Food Sanitation
			and Safety.
32	17UND6M3	Major Based Elective III	Community Development
		Community Development/	To enable the students to
		Nutrition in Critical Care	1. Understand the Food regulation
			Acts in India.
			2. Acquire skills in Food Sanitation
			and Safety.
			Nutrition in Critical Care
			To enable the students to
			1. Gain knowledge in handling
			hospitalized patients
			2. Know the nutritional assessment
22	17LND(EC2		of ill patients
33	17UND6EC2	Extra Credit Course - II	To enables the students to
		Principles of Resource	1. Gain knowledge on the utility of
		Management and Interior Design	available resources and different designs.
		Design	2. Plan programmes ahead through
			work simplification techniques.
			3. Apply the knowledge of interior
			design in furnishing things.
	1	1	design in turnishing things.

PG.PROGRAMME M.Sc., NUTRITION AND DIETETICS

S.NO	COURSE CODE	COURSE TITLE	OUTCOMES
	SEMESTER-I		
1	17PND1C1	Core– I Advances in Food Science	To enable students to 1. understanding of novel and innovative food sciences and emerging technologies 2. Understanding and ability to apply these novel technologies and the underpinning science to preserve and control the nutritional, microbiological and functional properties of foods. 3. Ability to apply and adapt novel technologies to real-life innovative products and processes
2	17PND1C2	Core – II Human Nutrition	To enable students to 1.Better understanding on the physiological and metabolic functions of nutrients. 2.Gain in-depth knowledge of the physiological and metabolic role of macronutrients, fat soluble and water soluble vitamins, electrolytes and their importance in human nutrition.
3	17PND1C3	Core– III Diet Therapy-I	To enable the students to 1.Become a Registered dietitian 2.Individual counseling and defending a position on issues impacting the nutrition and dietetics profession 3.Recognize the disease and prevention of the disease.
4	17PND1CP4	Core– IV Food Analysis Practical	To enable the students to 1.To acquire knowledge in qualitative and quantitative estimation of the nutrients present in agricultural commodities 2.To independently set-up and execute standard laboratory methods and techniques for chemical analysis of agricultural raw materials

4	17DND1CE1	Elective– I	Applied Dhygielegy
4	17PND1CE1		Applied Physiology
		Applied Physiology/	To enable students to
		Nutritional Needs for Special	1.Explain the basic knowledge of
		Children	human anatomy and physiology
			2.Describe and explain the normal
			function of the cells, tissues, organs
			and organ systems of the human
			body.
			Nutritional Needs for Special
			Children To anable students to
			To enable students to
			1.Know the nutrient needs of
			special children and the
			importance of meeting them.
			2.Gain basic knowledge on
			importance of special nutritional
			needs.
			3.Understand the importance of
			meeting nutrient requirements for
			special children.
		SEMESTE	R-II
5	17PND2C5	Core– V Nutrition For	To enable students to
		Growth and Development	1.Gain better understanding on the
		-	physiological changes and nutrient
			demands during life cycle.
			2.Understand the nutritional
			requirements and adaptations by the
			human body through various stages
			of life cycle.
			3.Gain knowledge on the nutritional
			requirements and planning diets for
			vulnerable group and special group
			in the society
6	17PND2C6	Core– VI Nutritional	To enable students to
		Bio chemistry	1. Describe the major metabolic
			pathways involved in the
			metabolism of nutrients in the
			human body.
			2. Understand the principles of
			biochemical methods and be able to
			use them with appropriate
			instruction.
			3. Understand the basis of reactivity
			of biologically relevant molecules
			and their interactions.
			4. Analyse and evaluate
			experimental data.

7	ard
the life style related diseases. 2. Explain the risk factors for degenerative diseases and tow the management of the several disease conditions. 8 17PND2CP8 Core—VIII Diet Therapy Practical Practical To enable the students to 1. develop skills in planning, calculating, modifying the nutrequirements and in preparation of therapeutic diet 2. acquire skills in diet counse and feeding of patients. 9 17PND2CE2 Elective—II Functional Foods and Nutraceuticals: To enable the students to 1. To recognize the structure of	ard
2.Explain the risk factors for degenerative diseases and tow the management of the several disease conditions. 8 17PND2CP8	rient s
degenerative diseases and tow the management of the several disease conditions. 8 17PND2CP8 Core— VIII Diet Therapy Practical To enable the students to 1. develop skills in planning, calculating, modifying the nutrequirements and in preparation of therapeutic diet 2. acquire skills in diet counse and feeding of patients. 9 17PND2CE2 Elective— II Functional Foods and Nutraceuticals: To enable the students to Nutritional Management and 1. To recognize the structure of	rient s
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8 17PND2CP8 Core—VIII Diet Therapy Practical To enable the students to 1. develop skills in planning, calculating, modifying the nutrequirements and in preparation of therapeutic diet 2. acquire skills in diet counse and feeding of patients. 9 17PND2CE2 Elective—II Functional Foods and Nutraceuticals: Nutraceuticals/ Nutraceuticals/ To enable the students to 1.To recognize the structure of	S
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Safety for major bio-active food constitu	
Food Service that are being incorporated into	
functional foods	U
2.Physiological and functional	hagig
of various phytochemical	. Uasis
compounds of natural as well a	o c
	15
synthetic compounds 3.Students will learn and get	
awareness about latest research	h araa
on nutraceutical and functiona	
compounds.	1 100u
Nutritional Management and S	Safety
for Food Service:	aicty
To enable the students to	
1.Implement safety and sanitat	tion
measures within the restaurant	
food service industry.	ana
2. The graduates are highly reg	arded
by hospitals, food industries, f	
and pharmaceutical companies	
una pharmaceatear companies	
SEMESTER-III	
10 17PND3C9I Core– IX Diet Therapy To enable students to	
Internship 1.Evaluate the patient's medic	al
records and interpret their med	
history related to the condition	
2. Analyse the food habits and	
about the dietary changes.	Č
3.Gain experience to plan and	
calculate the modified diet	
4. Acquire skill to supervise an	

			1 11 41
			handle the food preparation and
			service in the dietary department of
4.4	15D ID 2 C1 0		the hospital.
11	17PND3C10	Core– X Food Microbiology	1.Understand the nature of micro
			organisms involved in food
			spoilage, food infections and
			intoxications.
			2.Comprehend various techniques
			used for isolation, purifications,
			identifications and controlling the
			growth of micro organisms.
			3. Assess the microbial safety of
			personal hygiene, water, milk and
			food products in various food
			operations.
12	17PND3C11	Core- XI Research	1. Demonstrate knowledge of the
		Methodology and Statistics	scientific methods, purpose and
			approaches to research.
			2. Compare and contrast
			quantitative and qualitative research.
			3.Explain research design and the
			research cycle
			4. Prepare a key elements of a
			research proposal.
13	17PND3CP1	Core– XII Nutritional	Nutritional Biochemistry
	2	Biochemistry and Food	1. Acquire skills on preparation of
		Microbiology	solutions
		Practical	2. Colorimetric estimation of
			biochemical molecules
			3. Acquire the skills on analysis of
			blood and urine samples
			Food Microbiology
			Practical
			1. Understand the morphology and
			structural features of micro
			organisms .
			2. Comprehend various principles of
			various preservation and control
			techniques.
			3.understand microbial safety in
			various food operations.
14	17PND3CE3	Elective– III Sports	Sports Nutrition
		Nutrition/	To enables the students to
		Nutritional Counselling and	1. Gain knowledge on nutrition for
		Education	sports.
			2. Plan nutritious formulas and diet
			for sports persons.
			3. Give guidance and counselling
			for sports persons to overcome their
			nutrition and other health problems.

			Nutritional Counselling and
			Education:
			To enables the students to
			1. Understand the principles and
			methods of counselling.
			2. Apply counselling methods to
			patients with different diseases
15	17PND3EC1	Extra Credit	To enable the students to
		Course - I	1. Thorough knowledge on the
		Paediatric and Geriatric	nutritional requirements at various
		Nutrition	stages of child growth and
			development.
			2. Effective understanding of diet
			planning principles and nutritional
			facts for balanced and healthy diet
			during pregnancy, infancy and
			childhood stage.
			3.Gain knowledge on the aspects of
			aging and the importance of the
			nutritional requirements and dietary modification during old age.
			modification during old age.
		SEMESTEI	R-IV
16	17PND4C13	Core– XIII Institutional Food	To enable the students to
		Management	1. understand the basic principles of
			management in food service units
			2. develop managerial skills in food
			service industries.
			3. update the skills and techniques
			in starting up a food service unit
			successfully.
			4. aware about of the renewable
			sources of energy in food service
17	17DND 4C14	C VIV.C :	industry.
17	17PND4C14	Core– XIV Community Nutrition and Public Health	To enables the students to
		Nutrition and Fublic Health	1. Gain knowledge on the current nutritional scenario.
			2. Implement policies towards
			nutrition security.
			3. Make improvements in
			developing the current public health
			programmes.
18	17PND4CP1	Core– XV Application of	To enables the students to
	5	Computer in Nutrition and	1. Apply to calculate the nutrient
		Dietetics Practical	content using software
			2.Evaluate and compute the raw
			data using statistical tool
			3.Develop skills to evaluate and use
			the dietary database
1			

4.Impart the susing visual a	nutrition education
19 17PND4EC2 17PND4EC2 Extra Credit Course - II Home Management In Gain in-dep management, family, effect and efficient of resources. 2. Gain know chemistry, ap	e students to oth knowledge of Home , system approach of tive use of resources methods of utilization ledge on textile oparel design, s, quality control and