

COURSE OUTCOMES

PROGRAMME	PROGRAMME SPECIALIZATION	COURSES	OUTCOME
M.SC	NUTRITION AND DIETETICS	HND1 C01 HUMAN PHYSIOLOGY	Understand structure, component and functions of all systems of the human body
			Explain how to cope with disorders and other environmental factors
			Elaborate on common tests used to analyze different disorders
			Outline the role of central nervous system in controlling voluntary and involuntary activities of the human body
			Illustrate the role of endocrine system in the regulation of body activities
			Identify the causes of Infertility and Methods of contraception
			Comprehend blood group system and common facts related to the same
			Apply resuscitation methods in emergency situations
			Illustrate the mechanism to maintain normal water, electrolyte and pH balance
			Understand the adaptation of the body to unfavourable condition, stresses, physical activity and diseases
		HND1 C02 NUTRITION THROUGH LIFE CYCLE	Understand the role of food in daily life.
			Compare the nutritional requirement in different age groups.
			Understand nutrition related problems in life cycle.
			Understand national and international health programmes to prevent malnutrition.
			Plan balanced diets for different age groups.
			Develop competency in planning

			diets to meet the nutritional requirements of different socio economic levels.
			Understand the need of nutrition in special events.
			Understand Growth monitoring and immunization schedule.
		HND1 C03 ADVANCED FOOD SCIENCE	Understand the structure and composition of different foods
			Assess the functional properties of food
			Compare the methods of cooking
			Analyse the reasons and prevention of browning in vegetables and fruits
			Develop different nutritious recipes with different foods
			Judge the organoleptic evaluation of foods
			Detect adulterants present in foods
			Discuss the emerging trends in food science
		HND1 C04 MACRO NUTRIENTS	Understand the concepts of Sports Nutrition
			Analyze nutrient requirement of an athlete
			Explain the importance of Nutrition among Sports Personnels
			Comprehend changes in food after consumption
			Determine nutritional status of individuals with varying activity levels
			Apply knowledge of metabolism and nu
			Understand the need and benefits of nutrients present in the food
			Apply the benefits of non nutritional components of food in different stages of life
			Analyze calorimetry, work capacity and its efficiency
			Explain control of food intake and metabolic consequences of starvation
		HND1 C05	Outline of research concepts

		RESEARCH METHODS AND STATISTICS	
			Compare different types of research methods
			Construct research design or proposal for future project works
			Examine various sampling techniques and measurement scales
			Develop report writing or presentation skills
			Choose right statistical techniques to be used with various research methods
			Interpret statistical literature, research articles, the claims made on the basis of statistics
		HND2 C07 FOOD SERVICE MANAGEMENT	Apply best practices and standards related to protocol and promotion in the food service industry
			Develop organization chart to change and enhance wellness in diverse individuals and groups
			Identify use and operation of major food service equipment and relationship for efficient product flow
			Apply the principles of human resource management to different situations in Hospitality Industry
			Construct management and business theories and principles for the development of programs or services.
			Evaluate budget, food cost control and interpret financial data
			Use effective and professional oral and written communication and documentation.
			Study hygiene and sanitation in the food service industry
			Build a kitchen layout using the available physical facilities
			Ensure the patients receive their best possible nutritional intake whilst in

			hospital
		HND2 C08 CLINICAL AND THERAPEUTIC NUTRITION	Discuss the nature and scope of Clinical and therapeutic nutrition and identify circumstances where diet may need modifications
			Take part in supervised practical activities like diet plan that addresses a select client's disease that incorporate the client's cultural preferences.
			Understand the physiology, metabolism and special requirements of critically ill patients.
			Explain different types of Food allergy and intolerance and provide information on diagnosis, clinical symptoms and appropriate dietary modifications
			Develop professional ethics of dietitian in different situations
			Demonstrate sufficient problem – solving skills to assess multifactorial aspects of nutritional care and organize and prioritize necessary tasks within time constraints
			Illustrate the effect of various metabolic disorders on nutritional status and its dietary adjustments.
		HND2 C09 NUTRITIONAL MANAGEMENT IN LIFE STYLE DISEASES	Understand the risk factors associated with life style diseases
			Understand the symptoms associated with life style diseases
			Explain the management of life style disorders
			Develop skills to plan appropriate diet for life style disorders

			Develop the capacity of health professionals in management of the life style diseases
			Understand the complications of life style diseases
			Understand the foods which helps to reduce degenerative diseases
			Discuss modification in life style with patients to reduce the complications in future
		HND3 C10 VITAMINS AND MINERALS	Understand the chemistry of minerals & vitamins
			Understand the food sources and factors affecting absorption of vitamins and minerals
			Understand the functions of vitamins and minerals
			Understand the metabolism of vitamins and minerals
			Understand the nutritional requirement of various vitamins & minerals
			Study the states of deficiency & toxicity of vitamins & minerals
			Understand the interrelationship between various micronutrients
			Estimate the levels of nutrients in various food sources
		HND3 C11 COMMUNITY NUTRITION	Identify nutrition assessment techniques
			Recall the nutrition status of the country
			Apply nutrition intervention programmes
			Construct tools for the conduct of nutrition education programmes
			Recall various food production methods
			Understand the role of various organizations in compacting malnutrition
		HND3 E01 PAEDIATRIC NUTRITION	Demonstrate a thorough knowledge of the theory of human nutrition and dietetics as it applies to paediatrics.

			Understanding the aetiology, pathophysiology and clinical features of paediatric diseases and conditions that require dietary modifications.
			Apply knowledge of food, health, nutrition and dietetics to the nutritional care of children.
			Identify resources for promoting good nutrition for children in the community.
			Identify newborns with abnormalities.
			Understand the need for immunization during various life stages.
		ELECTIVE COURSES HND3 E03 FUNCTIONAL FOODS AND NEUTRACEUTICALS	Understand the concept of nutraceuticals, probiotics and prebiotics
			Discover different foods which have nutraceutical properties
			Identify nutraceuticals that have effect on human health
			Discuss marketing and regulatory issues for Nutraceuticals
			Analyse the opportunity for functional food market growth
		ELECTIVE COURSES HND3 E06 NUTRITIONAL COUNSELLING AND EDUCATION	Define counseling and nutritional counselling
			Classify types of counselling
			Interpret different theories of counselling
			Identify the person who needs counselling
			Take part in nutrition education
			Interview persons who needs counselling

		HND4 L03 METABOLIC AND BIOCHEMICAL CHANGES IN CLINICAL DISEASES- PRACTICAL	Outline advanced integrated knowledge and understanding normal cell processes and physiologic effects adapting general principles.
			Explain the role of drug, food and nutrient interactions in human body.
			Utilize the underlying principles of inherited or other metabolic disorders with special references.
			Discuss the influence of dietary factors on the developments of diseases and methods of detection.
			Predict how metabolic changes in both physiological and pathological states may affect human nutritional requirements.
			Analyze informations from relevant scientific literature on the applications of biophysics relevant to nutrition.
			Estimate clinical diagnosis methods for endocrinological abnormalities by examining mode of action, enzymes and hormones.
		ELECTIVE COURSES VPND 4 E07 DIABETIC CARE AND MANAGEMENT	Understand the prevalence of Diabetes Mellitus
			Understand the anatomy and physiology of pancreas
			Understand the pathological changes in Diabetes Mellitus
			Understand the symptoms and diagnosis of Diabetes Mellitus
			Understand the micro and macro vascular complications of Diabetes Mellitus
			Understand the co –morbid conditions of Diabetes Mellitus
			Understand the management of Diabetes Mellitus
			Plan diets according to the insulin requirement