

Subject Description Form

Subject Code	FSN5034
Subject Title	Clinical Dietetics and Medicine
Credit Value	6
Level	5
Pre-requisite	FSN5022 Nutritional Assessment FSN5025 Nutrition Education and Counselling FSN5036 Dietetics in Practice FSN5030 Applied Nutrition
Objectives	These subjects provide training of nutrition and medical practices in a clinical setting. It will focus on the diagnosis, prevention and treatment of diseases. The causes, consequences and therapeutic measures regarding clinical malnutrition will also be covered, with application to hospital and community settings.
Intended Learning Outcomes	Upon completion of the subject, students will be able to: a) Understand the prevalence, aetiology, diagnosis, medical and dietary management of various diseases commonly seen in dietetic practice b) Integrate the anthropometric, biochemical, clinical and dietary data to assess the nutritional status of individuals with various diseases and develop individualised nutrition intervention accordingly
Subject Synopsis/Indicative Syllabus	<p><u>Basics in nutrition support</u> Malnutrition screening and assessment, water and electrolytes balance, Oral nutrition support; Enteral nutrition support; Parental nutrition Support, Complications in nutrition supports,</p> <p><u>Clinical dietetics and medicine in upper gastrointestinal tract disorders</u> Oral mucositis; Oral cancer; Gastroesophageal reflux and esophagitis; Dyspepsia; Gastritis; Gastric and duodenal ulcers; Gastroparesis; Stomach cancer</p> <p><u>Clinical dietetics and medicine in lower gastrointestinal tract disorders</u> Intestinal gas and flatulence; Constipation; Diarrhea; Gastrointestinal strictures and obstruction; Malabsorption; Celiac</p>

	<p>diseases; Inflammatory bowel diseases; irritable bowel syndrome; Diverticular disease; Intestinal failure and intestinal resection including short-bowel syndrome; Small intestine bacterial overgrowth</p> <p><u>Clinical dietetics and surgery</u></p> <p>Surgical alteration of the gastrointestinal tract; Fistulas; Ileostomy and colostomy; Wound healing; Enhanced recovery after surgery; Carbohydrate loading; Immuno-nutrition</p> <p><u>Clinical dietetics and medicine in hepatobiliary and pancreatic disorders</u></p> <p>Nutrition alteration of hepatic diseases; Hepatitis (acute, fulminant and chronic); Nonalcoholic fatty liver disease; Alcoholic liver disease; Cholestatic liver disease; Cirrhosis; Hepatic encephalopathy; Liver resection and transplant; Gallbladder diseases including cholestasis, cholelithiasis, cholecystitis, and cholangitis; Pancreatitis; Hepatobiliary cancer; Pancreatic cancer; Pancreatic Exocrine Insufficiency</p> <p><u>Clinical dietetics and medicine in pulmonary disease</u></p> <p>Assessment of respiratory function and support; Asthma; Chronic obstructive pulmonary disease; Pneumonia; Tuberculosis; Lung cancer; Respiratory failure; Cystic fibrosis</p> <p><u>Clinical dietetics and medicine in neurological disorders</u></p> <p>Dysphagia; Dementia; Multiple sclerosis; Myasthenia gravis; Motor neuron disease; Guillain-Barre syndrome; Parkinson's disease; Epilepsy; Traumatic brain injury; Spinal cord injury</p> <p><u>Clinical dietetics in critical care</u></p> <p>Alteration in critically ill patients (Ebb phase and flow phase); Vital sign monitoring; organ support in intensive care unit</p> <p><u>Clinical dietetics and medicine in renal and rheumatic diseases</u></p> <p>Classification and staging in kidney disease; Acute kidney injury; Chronic kidney disease; Nephritic syndrome; Nephrotic syndrome; End-stage renal failures requiring dialysis; Kidney stones; Gout;</p>
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	<p>Arthritis; Systemic lupus erythematosus</p> <p><u>Clinical dietetics and medicine in immunological and oncological diseases</u></p> <p>Food allergy and intolerance, HIVS and AIDS, Cancer overview including prevalence, classification, diagnosis and staging, and treatment</p> <p><u>Clinical dietetics for Orthopedic disease</u></p> <p>Pressure injury and wound healing nutrition, Osteoporosis and bone fracture, Gout, Osteoarthritis</p> <p><u>Clinical dietetics and medicine in pediatric disorders</u></p> <p>Faltering growth; Pre-term infant; Childhood obesity; Diabetes in children; Inborn-error metabolism; Epilepsy and ketogenic diet in children</p> <p><u>Clinical dietetics and medicine in psychiatric disorders</u></p> <p>Eating disorders; Substance abuse; Intellectual and developmental disabilities</p>				
Teaching/Learning Methodology	<p>Lectures and Tutorials: The fundamental knowledge of clinical and nutritional management of renal, rheumatic, immunological and oncological, psychiatric, upper and lower gastrointestinal tract, hepatobiliary and pancreatic, pulmonary, and neurological disorders will be discussed. For each topic, the local diet behavior problems of the disease and the local clinical guideline and protocol will be addressed. In tutorials, students will adopt the problem-based learning approach to explore relevant information from literature, and integrate information provided in case study for discussion.</p>				
Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)		
			a	b	c
	1. Test	30%	✓		✓
	2. Case Report	10%	✓	✓	✓
	3. Tutorial participation	10%	✓	✓	✓

	4. Final exam	50%	✓	✓	✓
	Total	100%			
	Test:				
	It is used to assess the students’ understanding and the application of knowledge on nutritional consideration of renal, rheumatic, immunological and oncological, and psychiatric disorders in adults and common paediatric disorders in infant and children in the population.				
	Case report:				
	A series of case studies will be used to test the students’ ability in integrating the relevant information from clinical records to draft their plans of nutrition care to individuals.				
	Tutorial participation:				
	Students will be required to search for relevant information for the assigned cases before the tutorials. In the tutorials, they will be expected to integrate the information of the cases for nutrition assessment and develop intervention plans for them.				
	Final exam:				
	It is used to assess the students’ understanding and the application of knowledge on all topics covered in this subject.				
Student Study Effort Expected	Class contact				
	• Lecture		60 hours		
	• Tutorial		18 hours		
	Other student study effort:				
	• Case report		60 hours		
	• Self-study		100 hours		
	Total student study effort		238 hours		
Reading List and References	Gandy J. Manual of dietetic practice, 6 th edition, Wiley-Blackwell, 2019.				
	Ralston SH, Penman ID, Strachan MWJ, Hobson R. Davidson’s principles and practice of medicine, 24 th edition, Elsevier, 2022.				
	Raymond J, Morrow K. Krause and Mahan’s food and the nutrition care process, 16 th edition, Elsevier, 2022.				
	Shaw V. Clinical paediatric dietetics, 5 th edition, Wiley-Blackwell, 2020.				

	<p>Brunicaardi FC, Andersen DK, Billiar TR, Dunn DL, Kao LS, Hunter JG, Matthews JB, Pollock RE. Schwartz's principles of surgery, 11th edition, McGraw-Hill, 2019.</p> <p>Hickson M, Smith S, Whelan K. Advance nutrition and dietetics in nutrition support, Wiley-Blackwell, 2018.</p> <p>Lomer M, Whelan K. Advanced nutrition and dietetics in gastroenterology, Wiley-Blackwell, 2014.</p> <p>Lord LM, Marian M, McClave SA, Miller SJ, Mueller CMM. The ASPEN adult nutrition support core curriculum, 3rd edition, ASPEN, 2018.</p> <p>Marino. Marino's the ICU book, 4th edition, Lippincott Williams & Wilkins, 2013.</p> <p>Raymond J, Morrow K. Krause and Mahan's food and the nutrition care process, 16th edition, Elsevier, 2022.</p> <p>Other journals, reviews and guidelines assigned by the instructor</p>
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