

FOUR YEAR UNDER GRADUATE PROGRAM (2024-28)
FACULTY OF Home Science
COURSE CURRICULUM

PART-A: Introduction	
Program: Bachelor in Home Science (Honors)	Semester-VIII
	Session: 2024-2025
1	Course Code HSSE-12T
2	Course Title CLINICAL & THERAPEUTIC NUTRITION
3	Course Type DSE (Discipline Specific Elective)
4	Pre-requisite (if, any) As per program
5	Course Learning Outcomes (CLO) <ul style="list-style-type: none"> Understand Basic Knowledge of Nutritional Assessment. Expalin Basic knowledge of therapeutic Diet. Evaluate Basic knowledge of various diseases. Judge Basic Knowledge of Diet & Drug interaction. Understand Basic Knowledge of Nutritional Status.
6	Credit Value 3 Credits <i>1 Credit=15 Hours-learning & Observation</i>
7	Total Marks Max. Marks: 100 Min Passing Marks: 40

PART-B: Content of the Course		
Total No. of Teaching-learning Periods (01 Hr. per period) – 45 Periods (45 Hours)		
Unit	Topics (Course contents)	No. of Period
I	Nutritional Screening and assessment of nutritional status of Hospitalized and outdoor Patient. Identification of high risk Patients Assessment of Patient needs based on interpretation of Patient data- clinical, biochemical, biophysical, Personal etc. Diet nutrient and drug interaction. Effect of drugs on ingestion, digestion absorption and Metabolism of nutrients. Effect of Food, nutrients and nutritional status on drug dosage and efficacy.	12
II	Etio-pathology- physiology, metabolic and clinical aberrations-complications, prevention and recent advances in the medical nutritional management of- [a] Cardio-vascular disorders- 1] Hyperlipidemiass-classification and nutritional care 2] Atherosclerosis- etiological factors, pathogenesis, dietetic management 3] Hypertension-classification, etiology, nutritional care 4] Rheumatic heart disease 5] Ischemic heart disease 6] Myocardial Infraction	11

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	<p>[b] Endocrine Disorders-</p> <ul style="list-style-type: none"> 1] Diabetic Mellitus- <ul style="list-style-type: none"> I] Symptoms, Types, Diagnosis II] Metabolism in Diabetes III] Dietary management and meal management IV] Insulin Types V] Complications 2] Addison's Disease 3] Hyperinsulinemias 4] Hyperthyroidism 	
III	<p>[c] Gastro- intestinal tract Disorders</p> <ul style="list-style-type: none"> i) Gastritis- Types and Dietary modifications ii) Peptic Ulcer-Etiology, Symptoms, Dietary Modifications, intervals of feeding, bland Diet iii) Sprue- Types and dietary considerations iv) Indigestion v) Diarrhea- classification and modification of diet vi) Constipation- classification and dietary considerations vii) Celiac diseases <p>[d] Liver and gall bladder, Pancreatic disorder</p> <ul style="list-style-type: none"> i) Jaundice- classification and dietary treatments ii) Hepatitis- Types and dietary management iii) Cirrhosis- Types and dietary management iv) Gallstones- -types and complications. 	11
IV	<p>[e] Renal Disorders- Basic renal functions, classification of renal diseases</p> <ul style="list-style-type: none"> i) Nephritis-symptoms and nutritional care ii) Nephrosis-types and dietary management iii) Kidney stones- types and dietary management iv) Renal Failure (Acute & chronic) <p>[f] Weight Imbalances- Regulation of Energy Metabolism</p> <ul style="list-style-type: none"> i) Obesity- <ul style="list-style-type: none"> (a) types, Etiology, treatment, diet and other measures (b) Complications of Obesity ii) Under Weightiness- Causes and Dietetic Management 	11
Keywords	Weight Imbalance, Renal Disorder, Gallstones.	

PART-C: Learning Resources**Text Books, Reference Books and Others**

1. Human Nutrition & Dietetics - Davidson & Passmore
2. Clinical Dietetics & Nutrition - F.P. Antis
3. Textbook of Normal & - Robinson
4. Nutrition in Health & Diseases - Babar C. Mitchell
5. Food Nutrition & Diet Therapy - Krause
6. Clinical Nutrition - Jellife.

OnlineResources-

- <https://youtu.be/Fm15SkyOvtE?feature=shared>
- <https://youtu.be/yCagyMfg3gE?feature=shared>
- <https://youtu.be/9cUC1PcokZg?feature=shared>
- <https://youtu.be/7NW9-mUQFHY?feature=shared>
- <https://youtu.be/pant5rXow1U?feature=shared>

PART-D: Assessment and Evaluation**Suggested Continuous Evaluation Methods:****Maximum Marks: 100Marks****Continuous Internal Assessment(CIA): 30Marks****End Semester Exam (ESE): 70Marks**

Continuous Internal Assessment (CIA):
(By Course Teacher)

Internal Test/Quiz-(2): **20 & 20**
Assignment/ Seminar - **10**
Total Marks - **30**

Better marks out of the two Test/ Quiz + obtained marks in Assignment shall be considered against **30Marks**

End Semester Exam (ESE):

Two section- A & B

Section A: Q1. Objective-10 x1=10 Mark; Q2. Short answer type-5x4 =20Marks
Section B: Descriptive answer type qts., 1 out of 2 from each unit-4x10=40Marks

Name and Signature of Convener & Members of CBoS:

A. Singhal
CDs. Amrita Singhal

Dr. Bharti Sethi

Mrs. Manika R Deo

Smt. M. Anand

Dr. S. S. Banerjee


Dr. S. S. Banerjee

M. S. Banerjee

FOUR YEAR UNDER GRADUATE PROGRAM (2024-28)
Faculty OF Home Science
COURSE CURRICULUM

PART- A: Introduction			
Program: Bachelor in Home Science (Honors)		Semester VIII	Session: 2024-2025
1	Course Code	HSSE -12P	
2	Course Title	Clinical & Therapeutic Nutrition (Practical)	
3	Course Type	DSE (Discipline Specific Elective)	
4	Pre-requisite (if, any)	As per program	
5	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be enable to:</p> <ul style="list-style-type: none"> • <i>Understand the method of meal planning</i> • <i>Familiarise with factors affecting meal planning</i> • <i>Plan diets for various diseases</i> • <i>Develop knowledge of various disease and related treatment</i> 	
6	Credit Value	1 Credits	Credit =30 Hours Laboratory or Field learning/Training
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20
PART -B: Content of the Course			
TotalNo.of learning-Training/performance Periods: 30 Periods (30 Hours)			
Module	Topics (Course contents)		No. of Period
Lab./Field Training/ Experiment Contents of Course	<p>[A] Planning & preparation of Diets for patients with common multiple disorders-</p> <p>[1] Weight Imbalances.-Over-weight. Obesity, Under-Weight</p> <p>[2] Cardio-Vascular Disorders-</p> <p>i) Arteriosclerosis</p> <p>ii) Hypertension</p> <p>[3] Endocrine Disorders- Diabetes Mellitus</p> <p>[4] Gastro-Intestinal Tract Disorders-</p> <p>i) Gastritis</p> <p>ii) Gastric and Duodenal Ulcer</p> <p>iii) Diarrhea</p> <p>iv) Constipation</p> <p>[5] Liver and Gall Bladder Disorders-</p> <p>i) Jaundice</p> <p>ii) Hepatitis</p> <p>iii) Cirrhosis</p> <p>[6] Renal Disorders-</p> <p>i) Nephritis</p> <p>ii) Nephrosis</p> <p>[7] Fevers & Infections-</p> <p>i) Typhoid</p> <p>ii) Tuberculosis</p> <p>[B] Visit to dietetic departments of hospital</p>		30

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	[C] Case Studies
Keywords	Meal Planning, Factors affecting, meal planning of various Diseases

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –


- Dietetics: B. Shrilaxmi ,8th edition, new age international publishers.
- Human Nutrition and Dietetics: Passmore,8th edition, Livingstone Publishers.
- Normal and Therapeutic Nutrition: Robinson,17th edition, MacMillan publishing Company,
- Food, Nutrition and Diet Therapy: Krause, 11th edition, Saunders Publishers.
- Nutrition and Diet Therapy: Su. R. Williams,4th edition, C.V.Mosby Co. Publishers.
- Modern Nutrition in Health and Disease: Shils, M.E. Olson,8th edition, Lea and Febigera Waverly Company Publishers.

E:learning Resources:

- Diet for Adult:
https://www.google.com/search?q=diet+for+adults&rlz=1C1JJTC_enIN950IN950&ooq=diet+for+adult&daqs=chrome.
- Diet for pregnancy:
https://www.google.com/search?q=diet+for+pregnant+women&rlz=1C1JJTC_enIN950IN950&andsxrf=ALiCzsbC
- Diet for Atherosclerosis:
https://www.google.com/search?q=diet+for+atherosclerosis&rlz=1C1JJTC_enIN950IN950&andsxrf=ALiCzsZ6XyYHi7Q:
- Diet for diabetes mellitus:
https://www.google.com/search?q=diet+for+diabetes+mellitus&rlz=1C1JJTC_enIN950IN950&andsxrf=ALiCzsZfJ52m3efDHrTUHum0TTnrm7Ctg
- - <https://www.egyankosh.ac.in/handle/123456789/32940>
 - <https://egyankosh.ac.in/handle/123456789/72500>
 - <https://pubmed.ncbi.nlm.nih.gov/30005900/>
 - [https://clinicalnutrition.espen.com/article/S1751-4991\(09\)00047-X/fulltext](https://clinicalnutrition.espen.com/article/S1751-4991(09)00047-X/fulltext)
 - https://www.researchgate.net/publication/311965840_Importance_of_Clinical_Nutrition_in_Therapy_to_Older_Adults
 - https://www.espen.org/files/ESPEN-Guidelines/ESPEN_practical_guideline_Clinical_nutrition_and_hydration_in_geriatrics.pdf
 - <https://www.slideshare.net/expert1995/therapeutic-parenteral-and-geriatric-nutrition-and-relevant>
 - https://link.springer.com/chapter/10.1007/978-3-030-63892-4_1

PART D :Assessment and Evaluation		
Suggested Continuous Evaluation Methods:		
Maximum Marks:		50 Marks
Continuous Comprehensive Evaluation (CCE):		15 Marks
End Semester Exam(ESE):		35 Marks
Internal Assessment: Continuous Internal Assessment (CIA) (By CourseTeacher)	Internal Test / Quiz (2) - 10 & 10 Assignment/Seminar+ Attendance - 05 Total Marks - 15	Better marks out of the two tests/ Quiz + Obtained marks in Assignment shall be considered against 15 Marks
End Semester Exam(ESE):	Laboratory / Field Skill Performance : on spot Assessment A. Performed the task based on Lab work - 20 marks B. Spotting based on tools & Technology (written) - 10 marks C.Viva –voce (based on principle/ Technology) - 05 Marks	Managed by Course teacher as per lab. status

Name and Signature of Convener & Members of CBoS:


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