Course Descriptor
Nutritional epidemiology AHND 452

ACADEMIC YEAR	2020-21	SEMESTER	Fall
Course Code & Title	**AHNP 452 Nutritional Epidemiology**		
Credit hours	3 (3+0)	Level of study	Undergraduate
College / Centre	CAHS/FSHNN		
Co-requisites		Pre-requisites	AHND 101,STAT201

1. COURSE OUTLINE

The course introduces concepts in the area of Nutrition Epidemiology, as well as vital statics use in this field to monitor community health status .Students will gain knowledge about incidence and prevalence rate of diseases as well as different methods of epidemiological studies and their application

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2. AIMS

On successful completion of the course, the students will be able to understand better the following topics:
1. Describe concepts of epidemiology
2. Identify incidence and prevalence rate of diseases in the community
3. Understand determinanants of chronic diseases.
4. Describe strengths and weakness of different methods of epidemiology

3. LEARNING OUTCOMES, TEACHING, LEARNING and ASSESSMENT METHODS (Indicative)

Learning Outcomes (Definitive)	Teaching and Learning methods (Indicative)	Assessment (Indicative)
1. Understanding the basic study designs, and to prepare students with limited exposure to epidemiology methods and concept.	Lectures and presentations	in-class tests, quizzes
2. To understand the challenges met in nutritional epidemiology and research, mainly in the field of nutrition, diet and physical activity.	Lectures and	Quiz and written examination
3. To demonstrate the impact of intake variables, ranges of intake or exposure, and data analysis approaches on individual study results, and their implications.	Lectures and presentations	in-class tests, quizzes
4. Identify sources of error and bias in anthropometric measurement and understand the strengths along with limitations of various measures.	Lectures and presentations	in-class tests, quizzes
5. Review of major methods	Lectures and presentations	Quiz and written

used in self-report studies (recalls, records and other questionnaires), as well as objective measures activity (doubly-labeled water). Critical assessment of the strengths and limitations of alternative approaches.		examination
6. To develop quantitative skills required for the evaluation of diet and disease relationships in epidemiologic studies.	Lectures and presentations	Quiz

4. ASSESSMENT WEIGHTING

Assessment	Percentage of final mark (%)
Quizzes	10%
Presentation	10%
Mid-Term Exam 1	20%
Mid-Term Exam 2	20%
Final Exam	40%
TOTAL	**100%**

5. ACHIEVING A PASS

Students will achieve **03** credit hours for this course by passing **ALL** of the course assessments and achieving a **minimum overall score of 50 %**

6. COURSE CONTENT (Indicative)

LECTURE TOPIC	TIME (HOURS)
Outline: Introduction to Epidemiology	3
Basic epidemiology concepts /hypothesis testing /methods /Research observation	3
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Epidemiology and community Nutritionist	3
Types of Epidemiologic Studies	3
Ecological/correlation studies	3
Cohort Studies	3
Cross Sectional Studies	3
Error and Bias	3
Clinical Trials	3
Validity and reliability	3
Epidemiology of obesity	3
Dietary Analysis of population	3
Nutrition monitoring and Surveillance	3
Implication of total energy intake in epidemiological analysis	3
Revision	

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TOTAL HOURS	**45+16**
Plus **RECOMMENDED INDEPENDENT STUDY HOURS**	
TOTAL COURSE HOURS	**60**

7.   RECOMMENDED READING

   1   Essentials of Epidemiology in Public Health 4th Edition by Ann Aschengrau (Author), George R. Seage .