311 COMM

Community Medicine

Course Specifications

Course Title (Symbol and No.):	311 COMM Community Medicine	
Credit Hours:	4 (4 + 0)	
Contact Hours:	Theoretical:	54
	Clinical:	None
	Tutorials and Practicals:	12
Pre-requisite :	None	
Level :	3rd year	

Course Description

The course is mainly concerned with the principles and methods of epidemiology, demography, vital statistics, biostatistics, epidemiology of selected diseases, nutrition health education, mental health and occupational health.

Course Objectives

The course affords the theoretical bases that equip the students with the knowledge they can utilize for "community diagnosis", identification of health problems in the community, planning for their solutions, and practice of "population medicine" and health promotion. This course will help prepare students for the individual research project in clinical epidemiology.

Course Outline

The course will be conducted in the form of lectures and tutorials covering the following topics:

- Ecology and control of disease
    - Environment and health. Levels of prevention. Evaluation of control measures including cost-effectiveness and cost-benefit.

- Principles of demography
    - Natality rates - Fertility rates.

- Mortality rates
    - Crude death rate, infant mortality rate, neonatal mortality rate, perinatal mortality rate, maternal mortality rate, maternal mortality rate, cause-specific death rate, proportional mortality rates, stillbirth rate and ratio, case fatality rate.

- Morbidity rates
    - Incidence and prevalence.

- Population pyramid - Estimates of population - Rate of natural increase

- Demographic Transition.

- The International Statistical Classification of diseases, injuries and causes of death.

- Role of notification

- Medical statistics - levels of measurement

- Sampling and sample size, randomization

- Collation and tabulation

- Graphical presentation

- Epidemiology-definition, descriptive epidemiology.

- Causation association.

- Analytical epidemiology - Association and causation

- Observational studies:
    - Study design, advantages and disadvantages of each design, odds ratio, relative risk and attributable risk.

- Intervention studies:
    - Preventive and therapeutic trials, advantages and disadvantages of experimental versus observational approach, design and application of randomized controlled trials.

- Epidemiologic transition.

- Chronic disease epidemiology

- Investigation of an Epidemic

- Epidemiology and control of selected diseases of epidemiological importance.

- Evaluation of test results - principles of screening for disease, validity: sensitivity & specificity.
- International health
- Community health
- Environmental health
- Health education
- School health
- Occupational health
- Maternal and child health
- Health planning revaluation
- Health management and Administration
- Health surveillance and monitoring
- Emerging and re-emerging diseases.

Evaluation

1. **Continuous Assessment**
   - Homework exercise
   - Classroom quizzes
   - At least two written interim tests (First continuous Assessment test and Second continuous assessment test).
2. **Final Written Examination**

Recommended Textbook (Mausner and Bahn)