Course Code			
Course Name	Introduction to Epidemiology		
Credits	I A		
Course Offered to	UG/PG		
	Investigations to monitor and thus improve the health of individuals are firmly based on a sound understanding of modern quantitative methods. This involves the ability to discover patterns and extract knowledge from health data on a sample of individuals and then to		
	infer, with measured uncertainty, the unobserved population characteristics. This course will address this need by covering the		
Course Description	principles of epidemiology used for public health and clinical research.		
		quisites	
Pre-requisite (Mandatory)	Pre-requisite (Desirable) Pre-requisite (other)		
Probablity and Statistics	Sound grasp of algebra Working knowledge of MS Excel		
Post Conditions			
CO1	CO2	ICO3	CO4
Demonstrate the epidemiological approach	1002	Describe and interpret data derived from	Find and appraise research evidence
in a public health context	Identify the main epidemiological studies	research or other analysis	efficiently.
'		ecture Plan	,
Week Number	Lecture Topic	COs Met	Assignment/Labs/Tutorial
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1	Epidemiology- Foundation of Public Health	CO1	Discussion
	Measuring Health and Disease + Measuring		
2	Effect	CO1	Practical Exercise
	Research question formulation and		
3	hypothesis testing	CO1, CO2, CO3	Practical Exercise
4	Ecological Studies	CO2, CO3	Review of a scientific article
5	Cross-Sectional Studies	CO2, CO3	Review of a scientific article
6	Identify cause of disease: Cohort Studies	CO2, CO3	Review of a scientific article
	Identify cause of disease: Case-Control		
7	Studies	CO2, CO3	Review of a scientific article
	Assessing the efficacy of preventive and		
	therapeutic measures: Intervention studies		
8	in individuals	CO2, CO3	Review of a scientific article
	Assessing the efficacy of preventive and		
	therapeutic measures: Intervention studies		
9	in communities	CO2, CO3	Review of a scientific article
10	Systematic Review and Meta-analysis	CO3, CO4	Review of a scientific article
11	Validity and bias	CO3	Practical Exercise
12	Causation and Causal Inference	CO3	Practical Exercise
13	Statistical methods	CO3	Practical Exercise
	Assessr	nent Plan	
Type of Evaluation	% Contribution in Grade		
Assignment	50		
Quiz	10		
Mid-sem	20		
End-sem	20		
	Resourc	e Material	
Туре	Title		
Textbook	Epidemiology, Leon Gordis, Fifth Edition		
Reference	Principles of Biostats, Marcello Pagano & Kimberlee Gauvreau		
Reference	Oxford Textbook of Global Public Health		