

Course Title	Basic Epidemiology				
Course Code	BMS222				
Course Type	Compulsory				
Level	Bachelor (1st Cycle)				
Year / Semester	2 nd Year / 4 th Semester				
Teacher's Name	TBA				
ECTS	6	Lectures / week	3 Hours	Laboratories / week	None
Course Purpose and Objectives	This course provides an introduction to the skills needed by researchers and public health professionals to critically interpret the epidemiologic literature and be taught with an emphasis on causal inference in epidemiologic research.				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Demonstrate expertise regarding the principles and applications of epidemiology and research methodology. • Define the epidemiological study designs and the bias, the appropriate disease measures and measures of associations. • Describe criteria for characterizing the causality of associations. • Critically interpret the epidemiologic literature and understand the basic concepts of biostatistics in the interpretation of scientific results. • Describe and discuss the role and contribution of epidemiology to health. • Demonstrate expertise with regard to the principles of the scientific methods and their applications to the different models of scientific studies in biomedical research. 				
Prerequisites	None		Co-requisites	None	
Course Content	<ul style="list-style-type: none"> • Basic principles and methods of the design, conduct and interpretation of epidemiologic studies, including descriptive studies, observational analytic studies (case-control and cohort), and randomized clinical trials. • Address the calculation and interpretation of measures of disease frequency and association; the assessment of association versus causation in the interpretation of study results; and an introduction to issues related to the evaluation of chance, bias, confounding, and effect modification. 				

	<ul style="list-style-type: none"> • Different epidemiological areas will be discussed including clinical, environmental and genetic epidemiology. • Topics will mainly focus on chronic disease epidemiology, with a special emphasis on practical study design. Epidemiologic examples from major chronic diseases/conditions (e.g. allergies, heart disease and cancer) will be discussed. • Lectures will be augmented by workshops to illustrate practical examples in the epidemiologic literature. 										
Teaching Methodology	Face- to- face										
Bibliography	<p>Epidemiology: An Introduction; Kenneth J. Rothman; 978-0195135541; OUP USA; 2002</p> <p>ADDITIONAL RECOMMENDED TEXTBOOKS:</p> <p>Epidemiology for Public Health Practice; Friis, Robert H.; 4th; 978-0763751616; Jones and Bartlett Publishers; 2008</p>										
Assessment	<table border="1"> <tr> <td>Mid – Term Examination</td> <td>30%</td> </tr> <tr> <td>Final Examination</td> <td>40%</td> </tr> <tr> <td>Assignments</td> <td>20%</td> </tr> <tr> <td>Class Participation</td> <td>10%</td> </tr> <tr> <td></td> <td>100%</td> </tr> </table>	Mid – Term Examination	30%	Final Examination	40%	Assignments	20%	Class Participation	10%		100%
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Language	English										