

Course Title	Epidemiology II				
Course Code	MPH608				
Course Type	Compulsory				
Level	Masters (2 nd Cycle)				
Year / Semester	1 st year / 2 nd semester				
Teacher's Name	TBA				
ECTS	9	Lectures / week	N/A	Laboratories / week	None
Course Purpose and Objectives	<p>Epidemiology is the study of the frequency and distribution of diseases in the population and also of the factors that affect diseases. Main goal of <i>Epidemiology I</i> is to understand the basic concepts and methods of epidemiology. In <i>Epidemiology II</i> students are called to study in-depth more specific and complex subjects, such as infectious diseases and their peculiar characteristics, the continuously developing field of genetic epidemiology and the systematic compilation of epidemiologic information with statistical methods (meta-analysis). At the same time, students will improve their knowledge on special statistical techniques and the use of appropriate software, in order to be able to understand the complex research design in epidemiology on one hand, and to be able to analyse their own data, write summaries for scientific conferences, or full articles for printed and electronic journals on the other hand.</p>				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Explain and describe the epidemiology of infectious diseases • Explain and describe the outcomes of genetic epidemiological studies • Carry out systematic reviews/meta-analyses, understand and interpret outcomes • Apply multivariate analysis models on epidemiologic data • Use special statistic packages and understand the outcomes they produce • Explain and interpret complex designs in epidemiologic researches • Draft simple scientific articles (abstract for conferences/full articles for scientific journals) 				
Prerequisites	MPH601, MPH612	Required	None		

Course Content	<ul style="list-style-type: none"> • Epidemiology of infectious diseases • Genetic epidemiology • Systematic reviews / Meta-analysis • Multivariate analyses of epidemiologic data (linear regression, logistic regression, survival analysis and Poisson regression) • Use of statistical packages and understanding of the outcomes • Reading of scientific articles and understanding of complex research designs in epidemiology • Drafting scientific articles/summaries 				
Teaching Methodology	Distance Learning				
Bibliography	<p>Required reading:</p> <p>Friis, RH. & Sellers, TA. (2014). <i>Epidemiology for Public Health Practise</i>. Fifth edition.</p> <p>Recommended reading:</p> <ul style="list-style-type: none"> • Ann Aschengrau, George R. Seage (2014). <i>Essentials of Epidemiology in Public Health</i>. Third Edition • Rothman KJ, Greenland S, Lash TL (2008). <i>Modern Epidemiology</i>. Philadelphia: Lippincott Williams & Wilkins <p>RECOMMENDED SCIENTIFIC JOURNALS:</p> <ul style="list-style-type: none"> • Epidemiology • American Journal of Epidemiology • European Journal of Epidemiology • International Journal of Epidemiology • Annals of Epidemiology 				
Assessment	<table border="0"> <tr> <td>Examinations</td> <td>50%</td> </tr> <tr> <td>On-going evaluation</td> <td>50%</td> </tr> </table>	Examinations	50%	On-going evaluation	50%
Examinations	50%				
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Language	English				