

Course Title	Research Methods				
Course Code	MD345				
Course Type	Compulsory				
Level	1 st Cycle (MD)				
Year / Semester	3 rd Year/ 6 th Semester				
Teacher's Name	TBA				
ECTS	3	Lectures / week	3 hrs/ 14 weeks	Laboratories / week	1 hr / 14 weeks
Course Purpose and Objectives	<p>The purpose of this course is to provide an overview of research designs with an emphasis on observational studies and evidence synthesis methods. Further, to peer into statistics for execution and appraisal of clinical research, to present methodological tools and resources for performing observational studies and evidence synthesis, and to provide the opportunity for hands-on training with statistical and evidence appraisal platforms. Finally, to delineate principles of scientific writing and submission for publication in peer-reviewed journals, and to provide information on how to communicate scholarly work in scientific events and through the media</p>				
Learning Outcomes	<p>Upon successful completion of this course, students are expected to:</p> <ul style="list-style-type: none"> • Be familiar with the concepts of research ethics and scientific integrity • Be able to select the appropriate study design depending on the research question, resources and miscellaneous parameters • Be able to draft a study protocol • Be able to actively contribute to the research design • Be able to select the statistical approach and to execute basic statistical tests • Be able to interpret statistical results • Be able to assess the quality of research evidence • Be able to write a research manuscript and submit for publication • Be able to communicate research outcomes in scientific events and through the media 				
Prerequisites	None	Co-requisites	None		
Course Content	<p>In that regard, students will familiarize themselves with:</p> <ul style="list-style-type: none"> • Introduction to research methodology, ethics and integrity 				

	<ul style="list-style-type: none"> • Basic research • Observational studies • Clinical trials • Qualitative research • Biostatistics, univariate and multivariate analyses • Evidence synthesis • Assessment of the quality of evidence • Preparing the research protocol and the study report • Research dissemination <p>To this end the students need to be able to create a small research proposal with a limited review of the literature. This research proposal will be presented orally at the end of the semester</p>						
Teaching Methodology	Face to face with interactive small group tutorials in groups of 20						
Bibliography	<p>Laake P., Benestad H. and Olsen B. Research in Medical and Biological Sciences: From Planning and Preparation to Grant Application and Publication. Elsevier</p> <p>Supino, P.G., Borer, J.S. Principles of Research Methodology: A Guide for Clinical Investigators. Springer</p>						
Assessment	<table> <tr> <td>Examinations:</td> <td>60%</td> </tr> <tr> <td>Assignment/Lab</td> <td>30%</td> </tr> <tr> <td>Class Participation:</td> <td>10%</td> </tr> </table>	Examinations:	60%	Assignment/Lab	30%	Class Participation:	10%
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Language	English						