

Course Title	<b>Thesis</b>				
Course Code	MD625				
Course Type	Compulsory				
Level	1 <sup>st</sup> Cycle (MD)				
Year / Semester	6 <sup>th</sup> Year / 11 <sup>th</sup> – 12 <sup>th</sup> Semester				
Teacher's Name	TBA				
ECTS	12	Lectures / week	3 / 32 weeks	Laboratories / week	3 / 32 weeks
Course Purpose and Objectives	This course aims to familiarize students with all necessary actions in preparing, submitting and performing a research project. These steps include submitting a research proposal, preparing a research protocol, performing primary or secondary research, summarizing findings, reviewing the literature, developing and implementing authorship abilities and presenting research. This course will provide an opportunity for students to deepen their academic research capabilities in a specialized area in healthcare.				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> <li>• recognize and describe a specialized area in medical science</li> <li>• design an appropriate research protocol based on their primary endpoints and study objectives</li> <li>• produce original research work</li> <li>• perform literature review and criticize relevant literature</li> <li>• implement academic writing capacity</li> <li>• present their research in front of an audience</li> </ul>				
Prerequisites	None		Co-requisites	None	
Course Content	<p>Students will familiarize themselves with the following:</p> <ol style="list-style-type: none"> <li>1. Introduction to quantitative research</li> <li>2. Research question development</li> <li>3. Study design, sampling and confounding</li> <li>4. Types of data and displays of data and results</li> <li>5. Summarising numeric and categorical data</li> <li>6. Numeric and categorical differences between groups</li> <li>7. Hypothesis testing and confidence intervals and p-values</li> <li>8. Parametric statistical tests and Non-Parametric tests</li> <li>9. Reliability and validity of research data</li> <li>10. Clinical trials/protocols/guidelines</li> </ol>				
Teaching Methodology	Face-to-face				
Bibliography	Research Methods and Statistics: A Critical Thinking Approach by Sherri L. Jackson				

	Creswell, J.W. Research Design: Qualitative, Quantitative and Mixed Methods Approaches: 2018 ISBN:978-1
Assessment	Thesis defense & presentation (oral & written) 70% Thesis proposal 30%
Language	English