

Course Title	Research Ethics and Scientific Writing				
Course Code	PMS720				
Course Type	Compulsory				
Level	Doctoral (3 <sup>rd</sup> cycle)				
Year / Semester	1 <sup>st</sup> year / 2 <sup>nd</sup> semester				
Teacher's Name	TBA				
ECTS	10	Lectures / week	3 hours/14 weeks	Laboratories / week	NA
Course Purpose and Objectives	<p>This course intends to facilitate the development of students' dissertation research ideas and to contribute to the student's professional development focusing on researching and academic writing skills necessary for completion of a PhD dissertation and submission of articles for publication. In this course, students will develop the skills and techniques underpinning exploration and analysis of scientific literature including scholarly writing skills, critical analysis skills, oral communication skills, bibliographic skills and ability to develop time-management skills. The course is designed to help doctoral students to practice these skills and to combine them in preparation of an extended, original research proposal.</p>				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> <li>• Demonstrate the ability to identify and discuss aspects of research ethics, clearly and expediently</li> <li>• Demonstrate the ability to identify and discuss aspects of research ethics in relation to his/her own research domain</li> <li>• Identify the concepts of scientific integrity</li> <li>• Recognize and describe the rules of ethics when conducting basic research and clinical research</li> <li>• Recognise and be aware of the ethics related to the use of animals for research</li> <li>• Identify the various means of disseminating research</li> <li>• Describe one's own research to both specialists in the field, and the general public</li> <li>• Demonstrate the ability to write a research manuscript and submit for publication</li> <li>• Demonstrate the ability to communicate research outcomes in scientific fora</li> <li>• Develop an understanding of a specific topic of their interest and analyze the related theoretical and research evidence</li> <li>• Develop a holistic understanding of selection and application of statistical and/or qualitative processes that are necessary for the completion of their research proposal</li> </ul>				

	<ul style="list-style-type: none"> <li>• Conduct comprehensive bibliographic searches on any given topic</li> <li>• Locate and access diverse bodies of data, assess their utility and analyse them critically</li> <li>• Compile a literature review binder with articles on a topic related to their dissertation interest</li> <li>• Write a literature review, demonstrating scholarly writing skills including acumen, clarity, and conciseness</li> <li>• Identify ethical considerations on the design and implementation of their research</li> <li>• Develop independence and originality regarding the creation and presentation of a plausible research proposal</li> <li>• Demonstrate well known skills in writing a report or paper along with gaining an understanding of writing for publication</li> <li>• Describe the procedures for submitting a research article to a peer reviewed journal</li> <li>• Give strong, effective oral presentations and offer reasoned critiques to academic presentations given by others</li> </ul>		
Prerequisites	None	Corequisites	None
Course Content	<p>Students will be introduced to and critically discuss the legal rules related to basic science and clinical research. The course will introduce the norms of research ethics both nationally, and internationally. The course will cover the legal requirements related to the protection of participants in research and the processing of personal data, the use of animals for basic science studies, as well as good scientific practice related to clinical studies. Students will also be introduced to the ethical considerations of scientific writing, including plagiarism, authorship, ghost writing, etc.</p> <p>A second concept covered in the course is related to the dissemination of research and its importance in medical academics. Students will be introduced to the various means that dissemination can take place, including writing, social media, lectures, blogs, etc. Students will develop academic writing skills and practice critical appraisal of published research studies. They will be guided through the basic methods and systems of publication in international journals related to their area of interest, aiming at an international recognition of their results.</p> <p>Finally, students will be introduced to the formal and practical aspects of writing their PhD dissertation, particularly how to present and justify the research question, selected. Through a combination of lectures, and workshops, this course guides students through the process of generating initial doctoral dissertation ideas, identifying which ideas appear most promising, refining a topic, developing an independent approach to their material, and defining a programme of research and writing. By the end of this course the PhD candidates will possess the knowledge regarding each and every step for the creation of a research proposal, writing and completion of the PhD dissertation. Students will</p>		

	<p>be able to perform comprehensive bibliographic searches and literature reviews and organize their knowledge regarding their topic, identify any potential gaps in the literature that they could cover with their own research project, define their aims and hypotheses and select the adequate quantitative and/or qualitative methods for their examination. The PhD candidates will develop a research plan outlining a quantitative or qualitative research study that they plan to use for their dissertation.</p> <p>Apart from the teaching hours in group, students will have regular meetings with their supervisor, so as to systematically progress in their specific topic and define the necessary steps towards the PhD dissertation completion.</p>										
Teaching Methodology	Face to face										
Bibliography	<p>Dunleavy, P. (2006). <i>Authoring a PhD: How to Plan, Draft, Write and Finish a Doctoral Thesis or Dissertation</i>. UK: Palgrave</p> <p>Belcher, W.L. (2009). <i>Writing your journal article in twelve weeks: A guide to academic publishing success</i>. Thousand Oaks, California: Sage Publications, Inc</p> <p>Davis, G. B. &amp; Parker, C. A. (1997). <i>Writing the doctoral dissertation: A systematic approach</i>. Hauppauge, NY: Barron's Educational Series. ISBN: 0-8120-9800-5</p> <p>Galvan, J. S. (2009). <i>Writing literature reviews: A guide for students of the social and behavioral sciences (4<sup>th</sup> ed.)</i>. Glendale, CA: Pycszak Publishing. ISBN: 1-884585-86-8</p>										
Assessment	<table border="1"> <tr> <td>Assignments 1</td> <td>30%</td> </tr> <tr> <td>Assignment 2</td> <td>30%</td> </tr> <tr> <td>Assignment 3</td> <td>30%</td> </tr> <tr> <td>Class Participation and attendance</td> <td>10%</td> </tr> <tr> <td><b>Total</b></td> <td><b>100%</b></td> </tr> </table>	Assignments 1	30%	Assignment 2	30%	Assignment 3	30%	Class Participation and attendance	10%	<b>Total</b>	<b>100%</b>
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Language	English										