Course Title	Research Methodology in Health Sciences				
Course Code	RES303				
Course Type	Compulsory				
Level	Bachelor (1st Cycle)				
Year / Semester	3rd Year / 5th Semester				
Teacher's Name	TBA				
ECTS	5	Lectures / week	3 Hours	Laboratories / week	None
Course Purpose and Objectives	The course aims to: • qualify students in searching scientific information and acquiring knowledge on the basic principles of designing and conducting scientific research in the health sciences • help students develop skills related to the critical reading and evaluation of scientific articles in the field of health sciences • familiarize students with the significance of ethics in conducting research in health sciences • help the students understand the value of research methodology in applying evidence-based practice in the field of health sciences				
Learning Outcomes	Upon completion of the course, students will be able to: • identify and interpret the value of methodological research in applying evidence-based practice in the field of health sciences • set research questions, make hypotheses and design data acquisition • define and explain basic principles both in quantitative and qualitative studies • describe, distinguish and select, one by one, the steps of a research protocol and acquire data both in quantitative and qualitative type of study • demonstrate the ability of critical reading of scientific articles in the field of health sciences • explain the results of systematic reviews in the field of health sciences • utilize the SPSS program as an indispensable research tool in the health sciences				
Prerequisites	BMS215	Co-requisites	None		
Course Content	• description of the main concepts and types of scientific research, learning the value of ethics in research, as well as				

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<tr><td></td><td>defining the scientific approaches related to problem solving in the field of health sciences
• training in searching scientific information using advanced techniques and search strategies in a variety of databases
• clarification of the concept of research hypotheses formulation, research protocol design, and pilot studies conduction
• learning various sampling procedures as well as the concepts of reliability and validity in research
• analysis of problems related to the internal and external validity of an experiment, and provision of ways to address them
• means of data collection and management depending on certain variables and scales
• critically reading and evaluation of the quality published research work
• writing and presenting research results
• analysis of research data and presentation in the form of tables and charts using the SPSS statistical program
• identification of statistically significant differences</td></tr>
<tr><td>Teaching Methodology</td><td>Face- to- face</td></tr>
<tr><td>Bibliography</td><td>Huysamen G.K, Methodology for the Social and Behavioural Sciences, Midrand, Southern Book Publishers, 1994.

Kerlinger F.N, and Lee H.B.. Foundations of Behavioral Research, (4th Edition) Fort Worth, Texas, Harcourt College Publishers, 2000.

Cunningham CJL., Weathington BL, Pittenger DJ. Understanding and conducting Research in the Health Sciences, Wiley Publishers</td></tr>
<tr><td>Assessment</td><td><table><tr><td>Mid – Term Examination</td><td>20%</td></tr><tr><td>Final Examination</td><td>40%</td></tr><tr><td>Assignments</td><td>30%</td></tr><tr><td>Class Participation</td><td>10%</td></tr><tr><td></td><td>100%</td></tr></table></td></tr>
<tr><td>Language</td><td>English</td></tr>
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