



**UNIVERSITI TEKNOLOGI MARA**

**HPY720: BIOSTATISTICS IN HEALTH SCIENCES**

<b>Course Name (English)</b>	BIOSTATISTICS IN HEALTH SCIENCES <b>APPROVED</b>	
<b>Course Code</b>	HPY720	
<b>MQF Credit</b>	3	
<b>Course Description</b>	<p>This course follows an intermediate course where complete explanations of all important concepts is given by minimising the amount of mathematical formulation. This course is designed so that every new concept is delivered through completely worked-out example from current medical research problem. In addition, some computational output where appropriate will be introduced to illustrate these concepts. As the increased usage of statistical software, more sophisticated data can be analysed than ever before. Therefore, a second goal of this course is to present new techniques at an introductory level so that the student can become familiar with them without having to wade through specialised statistical formula.</p>	
<b>Transferable Skills</b>	Critical thinking	
<b>Teaching Methodologies</b>	Lectures, Demonstrations, Practical Classes, Directed Self-learning	
<b>CLO</b>	<p>CLO1 Apply the concepts and theories of statistics commonly used in medical research.</p> <p>CLO2 Synthesis the statistical software output in order to analyses, interpret and making conclusion of medical research data.</p> <p>CLO3 Develop written report based on statistical analysis for both medical professional and educated lay audiences.</p>	
<b>Pre-Requisite Courses</b>	No course recommendations	
<b>Reading List</b>	<b>Recommended Text</b>	<ul style="list-style-type: none"> <li>• Bernard Rosner 2006, <i>Fundamentals of Biostatistics</i>, 6th edition Ed., Brooks/Cole [ISBN: 0495064416]</li> <li>• Wayne W. Daniel, <i>Biostatistics</i>, 9th edition Ed. [ISBN: 9780470413333]</li> <li>• Julie Pallant 2010, <i>Spss Survival Manual</i>, 4th edition Ed., McGraw-Hill International [ISBN: 0335242391]</li> </ul>
<b>Article/Paper List</b>	<b>Recommended Article/Paper Resources</b>	<ul style="list-style-type: none"> <li>• Chan YH 2003, Biostatistic 101: Data presentation, <i>Singapore Medical Journal</i>, vol. 44 (6), 280 <a href="http://nuhs.edu.sg/wbn/slot/u3344/biostat101_resources.pdf">http://nuhs.edu.sg/wbn/slot/u3344/biostat101_resources.pdf</a></li> <li>• Chan YH 2003, Biostatistics 102: Quantitative data: Non-parametric test, <i>Singapore Medical Journal</i>, vol. 44(8), 391 <a href="http://www.sma.org.sg/smj/4408/4408bs1.pdf">http://www.sma.org.sg/smj/4408/4408bs1.pdf</a></li> </ul>
<b>Other References</b>	This Course does not have any other resources	