



### Sample Brief Course Description

<b>Course title</b>	Biomedical Engineering Design
<b>Course code</b>	BME 411
<b>College</b>	Engineering
<b>Department / Program</b>	Biomedical Engineering
<b>Year/ Level</b>	5/13 <sup>th</sup>
<b>Course Type</b>	A. <input type="checkbox"/> University <input type="checkbox"/> College <input checked="" type="checkbox"/> Department <input type="checkbox"/> Others b. <input type="checkbox"/> Required <input checked="" type="checkbox"/> Elective
<b>Credited Hours</b>	6
<b>Contact Hours</b>	(LT:4, LB:4,TR:0)
<b>Pre-requisites (if any)</b>	---
<b>Co-requisites (if any)</b>	---
<b>Course description</b>	The course introduces the design concept dedicated to help people with disabilities. It covers assistive devices, orthopedics and Brain machine interface concepts.
<b>Course Main Objectives</b>	<ul style="list-style-type: none"><li>• Applying design concepts in developing practical biomedical systems</li><li>• Introducing students to technologies that assist people with different types of impairments</li></ul>



<b>Learning Outcomes</b>	<b>Knowledge and Understanding:</b> 1. Define concepts dedicated to help people with disabilities.
	<b>Skills:</b> 1. Solve engineering practical examples related to the biomedical engineering designs 2. Performing testing and validation of presented designs 3. Solve biomechanical static problems related to human joints. 4. Apply brain machine interface in presented designs
	<b>Values:</b> 1. Function effectively on a team to provide biomedical engineering design