

<b>Module Title:</b>	<b>Robotics 2</b> (Computer Systems 2)
<b>Academic year:</b>	2009 – 2010
<b>Credit Value:</b>	4 –Mandatory
<b>Pre- requisites:</b>	None
<b>Assessment:</b>	100% Continuous Assessment (CA)
<b>Aims</b>	This aim of this subject is to get students to use IT tools like web editors, word processors, spreadsheets, multimedia tools and topical open source tools. Also to build team work skills by building and programming a robot and document the learning experience with IT tools.
<b>Module Content</b>	<ul style="list-style-type: none"> <li>• Word Processors and Text Editing Tools.</li> <li>• Spreadsheets.</li> <li>• Graph Plotting</li> <li>• Presentation Tools</li> <li>• Introduction to Robotics</li> <li>• Web Editing</li> <li>• Teamwork and Problem Solving</li> </ul>
<b>Intended Learning Outcomes:</b>	<p><b>On successful completion of the module the student will be expected to be able to:</b></p> <ol style="list-style-type: none"> <li>1. Use word processor and spreadsheets and other IT tools to document the experience of hand on robotics labs, using robots such as Lego Mindstorms NXT or equivalent.</li> <li>2. Document the operation of typical robotics sensors and actuators by writing short reports that use graphics, tables and other presentation techniques.</li> <li>3. Create a web site that documents the learning experience and the solution to a robotics problem.</li> <li>4. Team Work – work in teams</li> <li>5. Practice using search engines and open source tools to find, present and process information in text, video and other formats.</li> </ol>