

<b>COURSE TITLE</b>	<b>TE142461: Industrial Electronic Systems</b> Credits: 2 ELECTIVE COURSE
<b>LEARNING OBJECTIVES</b>	Students are able to analyze and design the electronic system in the industrial fields.
<b>COMPETENCY</b>	Students are able to design and implement the electronic system in the industrial fields.
<b>SUBJECTS</b>	<ul style="list-style-type: none"> <li>• The use of sensors and actuators in the industry</li> <li>• Telemetry</li> <li>• Programmable logic controller</li> <li>• Power electronics</li> <li>• Control applications in industrial including conventional and intelligent controls, and industrial robots.</li> </ul>
<b>MAIN REFERENCES</b>	<ul style="list-style-type: none"> <li>• Timothy J Maloney, <u>Modern Industrial Electronics</u>, Prentice Hall, 2003</li> <li>• Robert H Bishop, <u>The Mechatronics Handbook</u>, CRC Press LLC, 2002</li> <li>• Jacob Fraden, <u>Handbook of Modern Sensors: Physics Designs and Applications</u>, Springer, 2004</li> </ul>
<b>OPTIONAL REFERENCES</b>	John Iovine, <u>Robot, Androids and Animatrons</u> , McGraw-Hill, 2002
<b>PREREQUISITE</b>	Electronic Circuit System