



## Value Added Courses Details

S.No	Name of the VAC	Organised By	Contents
1	Certificate Course on Robotics and Embedded Systems	<b>E-Yantra</b>	<ul style="list-style-type: none"> <li>• Work on Embedded C programming</li> <li>• Understand the working of Sensors and Actuators</li> <li>• Make a robot do several tasks such as Motion Control, LCD and buzzer interfacing, Analog sensor interfacing using ADC, etc.</li> <li>• Achieve practical implementation skills, problem solving skills and team work</li> </ul>
2	GSM and Broadband Communication	<b>NIELIT</b>	<ul style="list-style-type: none"> <li>• Global System for Mobile Communication</li> <li>• 3G and 4G Technologies</li> <li>• Wifi / Wimax</li> <li>• Overview of Broadband Communication</li> <li>• MODEM Configuration</li> <li>• Digital Subscriber Line Access Multiplexer Configuration</li> </ul>
3	Arduino and its Applications	<b>EFY Team</b>	<ul style="list-style-type: none"> <li>• Knowledge of utilizing various types of sensors</li> <li>• Ability in designing various applications using the sensors</li> <li>• Capacity to use the Arduino platform for various applications</li> <li>• Extending the knowledge gained on Arduino for industrial applications</li> <li>• Gains knowledge of HW and SW for building up circuit blocks</li> </ul>
4	Raspberry PI	<b>EFY Team</b>	<ul style="list-style-type: none"> <li>• Learn the basics of Internet of Things and its applications</li> <li>• Build your computer using Raspberry Pi platform</li> <li>• Work with DHT sensors to detect humidity and temperature</li> <li>• Setup IoT connectivity using a remote desktop</li> <li>• Understand Raspbian OS, Python programming, SMTP and API</li> <li>• Develop and test an IoT weather monitoring station</li> </ul>
5	PCB Design	<b>EFY Team</b>	<p>This course provides the foundation education in electronic circuit analysis and design. Through lecture, laboratory, and out-of-class assignments, students are provided learning experiences that enable them to:</p> <p>Correlates to program outcome</p> <ul style="list-style-type: none"> <li>• Familiarization of PCB Circuit Terminology</li> </ul>



# KCG

COLLEGE OF TECHNOLOGY

**Department of Electronics & Communication Engineering**



			<p>and able to design a circuit and create a schematic Capture</p> <ul style="list-style-type: none"><li>• Become proficient with computer skills (eg., Power logic and Power PCB) for drawing Schematic and PCB Layout</li><li>• To Create PCB Art work</li><li>• To Create New part and to Fabricate Prototype PCB</li></ul>
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