Value Added Courses Details

S.No	Name of the VAC	Organized By	Contents
1	CISCO Certification	**KCG-CISCO Networking Academy**	• Concept of Network communication • Importance of Standards and protocols in Networks • How Communication occurs on Ethernet • Principles of IPV4 and IPV6 Address Management • How Clients access Internet Services • Function of Common Application Layer • Configure Network Security • Explain how to use Cisco IOS • Build a simple computer network using Cisco devices
2	IOT	**KCG-CISCO Networking Academy**	• How to connect devices (other than typical devices like computers and smart phones) to the internet. • Introduction to Packet Tracer • Skeleton Structure of CISCO Packet Tracer • Simulation of Home Automation system using IOT in Packet Tracer.
3	Arduino and its Applications	**EFY Team**	• Knowledge of utilizing various types of sensors • Ability in designing various application using the sensors • Capacity to use the Arduino platform for various applications • Extending the knowledge gained on Arduino for industrial applications • Gains knowledge of HW and SW for building up circuit blocks
4	Raspberry PI	**EFY Team**	• Learn the basics of Internet of Things and its applications • Build your computer using Raspberry Pi platform • Work with DHT sensors to detect humidity and temperature • Setup IoT connectivity using a remote desktop • Understand Raspbian OS, Python programming, SMTP and API • Develop and test an IoT weather monitoring station
5	PCB Design	**EFY Team**	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: Correlates to program outcome • Familiarization of PCB Circuit Terminology and able to design a circuit and create a schematic Capture • Become proficient with computer skills (eg.,Power logic and Power PCB) for drawing Schematic and PCB Layout • To Create PCB Art work • To Create New part and to Fabricate Prototype PCB