

Workshop Proposal:

Embedded Systems Made Easy

KERNEL MASTERS designed Industrial Development board (**Raayan Micro**) will be sponsored to the college ECE department, along with libraries, code with future support for lab practice.

Workshop Purpose is to find answers to below questions:

- Embedded Systems sounds like a difficult subject to learn...is it really that hard?
- How would be the career of an Embedded Systems Engineer?
- What is Embedded Systems and what kind of opportunities are offered by the industry?
- What are real-world applications of Embedded Systems?
- What all it takes to build an Embedded Device? How and where to start?

Workshop Agenda:

9:30 am - 11:15 am	<ul style="list-style-type: none"> • Embedded Systems Basic Terminology • Current Trends in Embedded Systems • How to make a Successful career in Embedded Systems? • Application Programmer vs Embedded Programmer
11:30 am - 1:00 pm	<ul style="list-style-type: none"> • What kind of work an Embedded Systems Engineer does? • Internet of Things Architecture? • Embedded Hardware: <ul style="list-style-type: none"> • Classifications of Computer Architecture: • Embedded Software <ul style="list-style-type: none"> • General C vs Embedded C • Operating Systems • Real Time Operating Systems • ARM Cortex M4 Architecture • How to write an Embedded C Program <ul style="list-style-type: none"> • Hello World Embedded C program demonstration
1:00 pm - 2:00 pm	Lunch Break
2:00 pm - 3:30 pm	<ul style="list-style-type: none"> • Raayan Micro Board vs Arduino Board • IoT Project Demonstration <ul style="list-style-type: none"> • Smart Tracking System • Smart Attendance System • Smart Gateway • Smart Grid • About Kernel Masters • Feedback collection
3:30pm - 4:00pm	Handing over of Raayan Micro Board (Industrial Embedded Development Board) to the HOD of ECE Department.