Altair Embed Faculty and Student Development Programme

Altair Embed in Academia

Academic Instruction at GRIET Hyderabad

GRIET student working with Embed/Embedded

Over 40 faculty and students from Gokaraju Rangaraju Institute of Engineering and Technology in Hyderabad attended a 2 day training course on Embed Model-Based Firmware Development. The target hardware provided for the course is the TI Launchpad kit, based on the F28027. It comes with pin outs for ADC, PWM GPIO, comparator input, serial, I2C and SPI. This allowed hands on training for everyone. Topics covered include:

- graphical task creation
- task pre-emption
- interrupt handlers
- LED blinking
- TI PWM configuration and usage
- ADC configuration, triggering and usage
- comparator setup and usage.

Used in introductory and advanced courses

Introductory courses use Embed for basic modelling and control, then go on to more complicated aspects such as cascade control and integral wind-up. In advanced courses the software helps students to understand and use aliasing, feedforward, MPC and IMC control.

Comments from Attendees

This workshop is really excellent! This is the first workshop where I found every one was enjoying working, not a single guy was found sitting idle; till the end! Looking forward to more in the future. - **Assoc. Prof and workshop coordinator M. Chakravarthy**

Really good presentation. Very useful. - **Dr. Sarma**

Good presentation. I was able to follow clearly. - **Asst. Prof. Swapna**

Very much useful for EEE and ECE students. Especially in motor control and digital power. - **Asst. Prof. Ramesh**

Workshop was very useful. - **Asst. Prof Satyavant**

The presentation was good and organized well. - **Asst. Prof. Hemantha**

Presentation was good and interactive. - **Asst. Prof. Lakshmi**

The way of presentation with examples and student practice is good. - **Asst. Prof. Swetha**

Good learning experience. - **student M Tech Power, K Swetha**

It was very useful. Unlike other software, Embed makes it easy to create and debug programs. It will be a big advantage for our student projects. - **student M Tech Power, G. Kumar**

Glad to know how to control dynamic devices with this software. Good explanation given by speaker. - **student, D. Kumar**

Thoroughly enjoyed this workshop. Looking forward to more sessions with you people. - **student, D. Rohan**

Excellent workshop by Mr. Satyabrata. I learned a lot during the 2 days. Embed is an excellent tool. - **student, K. Kumar**