Analog Devices IITM
DSP Learning Centre

PRE-REQUISITES FOR A COLLEGE TAKING QEEE DSP PROGRAM

- **Eligibility**: Basic knowledge of DSP, C/C++ and assembly language programming for the faculty and students
- **System Requirements**:
- ➢ **Operating System & Software-**

  - o Windows XP Professional SP3 (32-bit only) or any higher version of windows (including 64-bit)
  - o Google Chrome browser (default browser)
  - o Pdf reader
  - o Microsoft office

- ➢ **Hardware requirements-**

  - o Processor: Minimum of 3.3 GHz single core processor, 2 GHz dual core or higher is recommended.
  - o RAM: Minimum of 2 GB memory, 4 GB or higher is recommended.
  - o Hard Disk: Minimum of 320-500 GB hard disk with atleast 8Gb free space is required.
  - o Bandwidth: 2 Mb/s minimum, 4Mb/s or higher recommended uninterrupted
  - o Headphone with mic: Headphone should be present in each individual system for students to interact with the tutor through audio.

- Student count per batch per college is 30 (max)
- Minimum 2 hours per DSP Lab per week, preferably during the week days.

LAB PROCEDURE FOR COLLEGE

Pre Lab-

- Faculty duties-

  (Before the course starts – Should be done once)

  o The faculty must enroll the students according to the procedure given during the remote training
  o Login ID and password must be provided for all the enrolled students

  (Before every lab session)

  o Ensure that the students are prepared for each lab session

- Student Duties-

  o All the enrolled students must go through the materials (video lectures and notes/slides) and complete the quiz in the corresponding modules provided in the Coursepack prior to each lab session

During Lab-

- 2-3 hrs of lab session as previously scheduled.
- One student per system, worst case two.
- The faculty must take the attendance.
- Login to the QEEE website and use the chatbox or screenshare for any queries or problems during the programming session, to interact with the tutor

- The faculty must contact tutor to update the session status

Post Lab-

- The students must submit the assignments in the coursepack according to the given procedure
- The faculty must update the google form about the session stats, shared through mail

Prerequisites for Remote Training-Faculty:

- Installation of Software in all the systems in the lab
- Opening of the required ports
- Headphone with MIC (Microphone) for all systems

Remote Training session-Faculty:

- Mandatory testing of ports, software & audio in all the systems
- Checking connectivity from college to IITM DSP server
- Complete at least 2 experiments