



**Knowledge Network of
Indian Institute of Technology, Gandhinagar
Under TEQIP-II Initiative (MHRD, Govt. of Gujarat)**

Workshop on Microcontrollers and Embedded Systems

- Date:** 12-16 May 2014
Time: 9:30am to 6:00pm
Venue: IIT Gandhinagar
Shed-5
Target group: Faculty members and graduate students
Register At: www.iitgn.ac.in/kn
Deadline: 5 May 2014
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The course is concerned with technical and pedagogical aspects of teaching Microcontroller-based courses in rapidly changing technological environment. A decade ago, embedded systems were primarily based on 8-bit microcontrollers. However, nowadays embedded systems have become very complex. A tentative topical outline is as follows, but it is open to change based on the needs of the participants.

1. Overview of technological Changes and its impact on teaching on embedded systems.
2. Microcontrollers:
3. FPGA, Verilog, ANCI C and 8051 C
4. Serial Communication
5. Teaching microcontrollers to non-electrical majors using Arduino

Participants will have an opportunities to discuss various issues – technical as well as pedagogical. Most topics will include presentation, discussion, and hands-on experience.
