Knowledge Network of
Indian Institute of Technology, Gandhinagar
Under TEQIP-II Initiative

Short Course on
Digital Signal Processing

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Date: 06/12/2016 to 09/12/2016 (4-days)
Time: 10:00 am reporting time on 06 December 2016
Venue: IIT Gandhinagar
Target group: Faculty members, PG & Senior UG Students
Register At: www.iitgn.ac.in/kn
Dead line: 30th November, 2016

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The focus of this winter short course is on reinforcing the fundamentals of signalprocessing in the context of the new small World. In addition to offering advancedlevel topics in the areas of signal processing, the course is also designed to giveequal emphasis on the basic fundamentals of the subject. The tentative topics thatwill be covered during the winter school include:

Fundamentals of digital signal processing (DSP), digital filter design, adaptive signal processing, frequency and time-frequency analysis, VLSI signalprocessing, statistical signal processing, multirate signal processing, sparse signal processing, signalprocessing applications in other upcoming fields.

"…There will always be signals, they will always need to be processed, and there willalways be new technologies and algorithms for implementing the processing. Thatconviction has given me a feeling of job security ever since I first fell in love withsignal processing as an undergraduate student at MIT in the mid 1950s…"

- A. V. Oppenheim, Ford Professor of Engineering,
Massachusetts Institute of Technology (MIT)

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Course Coordinator - Prof. Nithin V.George (IIT Gandhinagar)
Prof. Shanmuganathan Raman (IIT Gandhinagar)