

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

## Short Course on Applied Digital Signal Processing

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Date: 08/12/2015 to 12/12/2015 (5 days)

**Time:** 10:00 am reporting time on 08 December 2015

Venue: IIT Gandhinagar

**Target group:** Faculty members **Register At:** www.iitgn.ac.in/kn **Dead line:** 25<sup>th</sup> November, 2015

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The focus of this short course is on reinforcing the fundamentals of signal processing in the context of the new small World. In addition to offering advanced level topics in the areas of signal processing, the course is also designed to give equal emphasis on the basic fundamentals of the subject. The tentative topics that will be covered during the short course include:

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

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

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