Course Title: Digital Signal Processing

Course Outline:

- Introduction to DSP
- Discrete-Time Signals and Systems
- The z-Transform
- Sampling of Continuous-Time Signals
- Transform Analysis of Linear Time-Invariant Systems
- Structures for Discrete-Time Systems
- Filter Design Techniques
- The Discrete Fourier Transform
- Computation of the Discrete Fourier Transform
- Selected Topics on Signal Processing (Presented by students)