EE641  STATISTICAL SIGNAL PROCESSING

Acad Unit: 3  
Prerequisite: Nil  
Effective: Acad Year 2000-2001  
Last update: Aug 2001

OBJECTIVES
This course is served as an introduction to the field of statistical signal processing and aims at covering certain basic techniques of detection and estimation problems. These are the essential techniques that have been used in many application fields of digital signal processing.

DESIRED OUTCOME
The basic concepts and techniques to be taught at a sufficient depth to enable the students to have enough background for practical applications or for better understanding their application fields such as communications, seismic signal processing, pattern recognition, etc. The desired outcome would be that the student is fully equipped with the theoretical background to select suitable algorithms for their applications and to be well equipped to pursue R & D work.

BACKGROUND REQUIREMENTS
The background required for this course is mathematics at the university level and the knowledge on systems theory. Therefore, students who have a strong mathematical background will have advantage.

CONTENT

ASSESSMENT SCHEME
Continuous Assessment 20%  
Final Examination 80%

TEXTBOOK

REFERENCES