DMX4411 Signal processing

Level	4
Course Code	DMX4411
Course Title	Signal processing
Credit value	4
Core/Optional	Core
Course Aim/s	Aim of this course is to provide principles of signal processing
Course Learning Outcomes (CLO):	At the completion of this course student will be able to: CLO1: Describe the characteristics/properties of different types of signals and systems. CLO2: Describe the properties of Linear Time Invariant (LTI) systems. CLO3: Analyze discrete time LTI system and continuous signals using linear convolution. CLO4: Analyze of first and second-order linear systems with use of appropriate techniques. CLO5 Analyze signals and systems using time and frequency domain techniques. CLO6: Apply sampling theory in conversion of continuous time signal to the discrete time signal.
Content	**Outline Syllabus:** Unit 1: introduction to signal processing Unit 2 : Continuous time signals Unit 3 : Discrete-time signals