## **CMPE-371: Digital Signal Processing**

Lecture Schedule		See Time Table	Course Type, Semester	Fundamental Engineering, 6th			
Credit Hours		Three	Pre-requisite/ Co-requisite	Signals and Systems, Linear Algebra			
Instructor(s)		Fareed Jafri	Contact	Please DM me on What's App			
Office		1 <sup>st</sup> Floor, CE Department	Office Hours	By appointment Please DM me on What's App			
Teaching Assistant		None	Laboratory Schedule	See time table			
Course Description		The objective of the course is to familiarize students with mathematical tools and techniques that can be used to enable computers digitally process signals.					
Measurable Learning Outcomes	CLOs		Description			PLOs	
	CLO1	Students will be able to identify the effects of sampling a signal in both the time domain and the frequency domain.			Level Cognitive, 4	PLO2	
	CLO2	Students will be able to investigate digital and discrete- time signals and systems using signal processing techniques in both the time domain and the frequency domain.			Cognitive,	PLO4	
Measur	CLO3	Students will be able to design digital and discrete-time systems or filters to perform specific signal processing tasks.			Cognitive, 5	PLO3	
Textbooks		RECOMMENDED:  1. Discrete Time Signal Processing, Alan V. Oppenheim and R. W. Schafer, Pearson, 2014  2. Signals and Systems, Alan. V. Oppenhiem and Alan. S. Willsky  OPTIONAL:  1. Digital Signal Processing Principals, Algorithms and Applications, John G. Proakis, Dimitris K. Manolakis					
Student Resources		https://drive.google.com/drive/folders/10E- lLahWzasaG6Men4ITA4VNvRfQqaWu?usp=sharing					
Grading Policy		Exams V	Veightage	ı	CLOs		
		Midterm Final Quiz1	Final 40% CLO1, CLO2, CLO3				
		Quiz2 CEP	10% 10%	CLO, C	CLO, CLO2, CLO3 CLO3		