## Speech Signal Processing (Monsoon 2022) Course calendar Faculty: Dr. Anil Kumar Vuppala

Lecture	Date	Торіс	Assignments	Instructor
1	30 July	Motivation: (Introduction and overview of speech signal processing course, Marks distribution and grading policy)		Dr. Anil
2	03 Aug	Tutorial		
3	06 Aug	Speech Production & Perception: Speech production chain; Articulatory Signatures: MOA, POA;	A - 1	Dr. Anil
4	10 Aug	Types of speech LTI Model of speech production		Dr. Anil
5	13 Aug	Types of Speech Analysis		Dr. Anil
6	17 Aug	Voiced and Unvoiced detection of speech	A - 2	Dr. Anil
7	20 Aug	Pitch, Formants, Pitch Detection		Dr. Anil
8	24 Aug	Short Time Fourier Transform analysis & Applications	Quiz - I	Dr. Anil
9	03 Sep			Dr. Anil
10	07 Sep	Cepstral Analysis, MFCC		Dr. Anil
11	10 Sep	Vowel Region detection & its applications (Speaking rate estimation)	A-3	Dr. Anil
12	14 Sep	Speaker Recognition (Overview)		Dr. Anil
13	17 Sep	Speaker recognition demo	MID	Dr. Anil

14	24 Sep	Epoch and excitation analysis	A-4	Dr. Anil
15	28 Sep	Prosody analysis		Dr. Anil
16	01 Oct	Speech enhancement		Dr. Anil
17	08 Oct	ML models for Speech		Dr. Anil
18	12 Oct	Projects discussion		
19	15 Oct	ASR -1		Dr. Anil
20	22 Oct	ASR-2		Ganesh
21	26 Oct	MID project evaluations (online)		Online
22	02 Nov	ASR using Kaldi		Dr. Anil and Ganesh
23	05 Nov	ASR latest trends		Ganesh
24	09 Nov	SSMT		Dr. Anil
25	12 Nov	Project presentations-1		Dr. Anil
26	16 Nov	Project presentations-2		Dr. Anil

## Grading:

Quiz I 10% Assignments 20% Mid 20%

Project 25% (10 for MID project and 15 for end project)

End Exam 25%