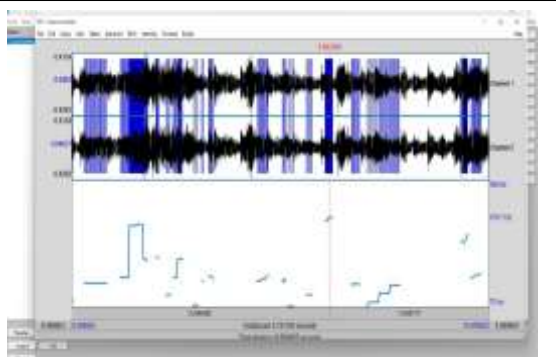

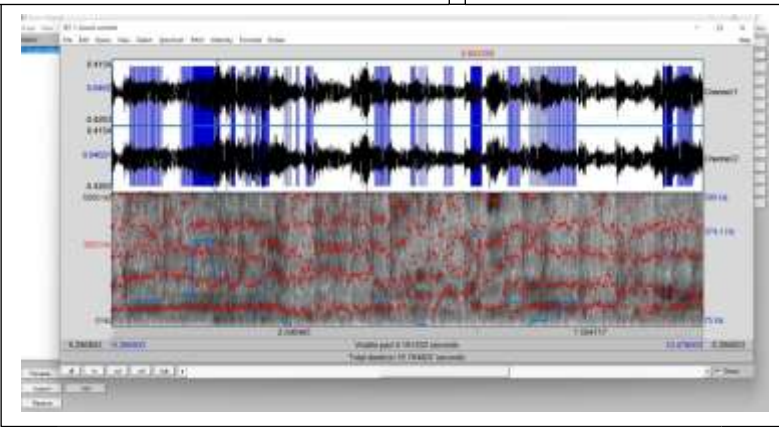




Department of Electronics and Telecommunication Engineering

Innovative Teaching Learning Report

Year	2021-22 SEMESTER II – SE [E&TC]
Name of Subject:	Signals and Systems [204191]
Course:	2019 pattern
Name of Innovative Teaching Method Adopted	Simulation
Description:	Problem statement: <ol style="list-style-type: none"> 1. Record your own voice in .wav file. (PRAAT software tool) 2. Plot spectrogram. 3. Plot pitch plot and write your own pitch frequency. 4. Plot formant graph.
Student's learning	<ol style="list-style-type: none"> 1. Installation of PRAAT software tool. 2. Analysis of speech signal while recording their own voice in .wav format. They understood other speech file formats also. 3. Studied different features of PRAAT software tool for speech recording, analysis, plotting spectrogram, pitch, formants, noise removal by applying filters, changing pitch frequency etc.
Program Outcome	PO 1,2,4,5,6,8,9,12
Evidences:	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Amplitude and Pitch plot</p> </div> <div style="text-align: center;">  <p>Spectrogram</p> </div> </div> <div style="text-align: center; margin-top: 20px;">  <p>Amplitude and formant plot</p> </div>

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