

Speech Signal Processing

Assignment 5

Course Code **ECE448**

Max. points **20**

Note:

- Always cite your sources (be it images, papers or existing libraries). Follow proper citation guidelines
- Unless specifically permitted, collaborations are not allowed.
- Do not copy or plagiarise, if you're caught for plagiarism or copying, penalties are much higher (including an **F** grade in the course) than simply omitting that question.
- Need to mention clearly if any assumptions are being considered.
- No late submissions are accepted.

Syntax to be followed for submission

- A single zip folder has to be uploaded in the moodle, which should contain the snapshots of your Numericals as *ECE448_A5_ < RollNo. > .pdf* and computer based questions (code) should be placed in a folder and named it as *ECE448_A5_cbq*
 - For computer based questions you are expected to submit Codes (**Matlab**)
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1. Consider a vowel region in a speech waveform and extract the prosody features in a MATLAB. **Computer based Question [7.5 pts]**
 2. Implement the ZFF algorithm in MATLAB and plot the output for one voiced segment **Computer based Question [7.5 pts]**
 3. Consider a voiced segment and plot its GVV waveform in MATLAB. **Computer based Question [5 pts]**
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