**DAILY ASSESSMENT FORMAT**

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| **Date:** | **27 may 2020** | **Name:** | **Sanketh S acharya** |
| **Course:** | **Digital signal processing** | **USN:** | **4AL17EC084** |
| **Topic:** |  Fourier Transforms   FFT   FFT Fast Fourier Transform Matlab   FIR and IIR Filters   Study and analysis FIR and IIR using FDA tool in MatLab   Introduction to WT   CWT & DWT   Implementation of signal Filtering signal using WT in MatLAb   Short-time Fourier Transform and the Spectogram   Welch's method and windowing   ECG Signal Analysis Using MATLAB | **Semester & Section:** | **6TH SEM & ‘B’ SEC** |
| **Github Repository:** |  |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session**     |  | | --- | | **Report – Report can be typed or hand written for up to two pages.**  **Fourier Transforms:**   * **Digital Signal Processing/Discrete Fourier Transform. As the name implies, the Discrete Fourier Transform (DFT) is purely discrete: discrete-time data sets are converted into a discrete-frequency representation. This is in contrast to the DTFT that uses discrete time, but converts to continuous frequency.** |      * **The inverse Fourier transform is given as follows.**     **Fast Fourier Transform:**    **FFT Fast Fourier Transform Matlab :**  **Code:**    **Output:**     |  |  |  |  | | --- | --- | --- | --- | | **FIR and IIR Filters:**  **1. FIR Filter**   * Consider the function described by the transfer function.      * The corresponding difference equation.     **2. IIR Filter**   * Consider the function described by the transfer function.      * The corresponding difference equation.      |  |  |  | | --- | --- | --- | | **Introduction to WT:**   * **A wavelet transform (WT) is the decomposition of a signal into a set of basis functions consisting of contractions, expansions, and translations of a mother function ψ(t), called the wavelet (Daubechies, 1991).**      |  | | --- | | **Implementation of signal Filtering signal using WT in MatLAb:**  **Code:** |      |  | | --- | | **Short-time Fourier Transform and the Spectogram:**   * **The Short-time Fourier transform (STFT), is a Fourier-related transform used to determine the sinusoidal frequency and phase content of local sections of a signal as it changes over time.** * **In practice, the procedure for computing STFTs is to divide a longer time signal into shorter segments of equal length and then compute the Fourier transform separately on each shorter segment.** * **This reveals the Fourier spectrum on each shorter segment. One then usually plots the changing spectra as a function of time, known as a spectrogram or waterfall plot.**   **Welch's method and windowing :**   * **Welch's method [296] (also called the periodogram method) for estimating power spectra is carried out by dividing the time signal into successive blocks, forming the periodogram for each block, and averaging. is the rectangular window, the periodograms are formed from non-overlapping successive blocks of data.**   **ECG Signal Analysis Using MATLAB:** | | | |
| **Report –** |

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| **Date:27 may 2020** |  | **Name:Sanketh s acharya** |  |
| **Course:Introducton to Information security** |  | **USN:4AL17EC084** |  |
| **Topic: introduction** |  | **Semester & Section:6th sem& ‘B’sec** |  |
| **AFTERNOON SESSION DETAILS** | | | |
| **Image of session**  **­­­­­­­­­­­­C:\Users\User\Desktop\Downloads\Screenshot_20200527-174228.png** | | | |
| |  | | --- | | Report – Report can be typed or hand written for up to two pages. |  * Client state Manpulation * SQL injection * Password Security * Corss Domain Security n Web application * Cryptography concept * Case studies   **Client state Manpulation**   * What is Client State? * How can you alter the Client state? * S. How to stop the Client State Manipulation Attack? * Authoritative state on the server Session ids-Pros & Cons Signed State to Client-Pros & Cons * Data Leakage - Http "GET" and "POST" methods * Cookies and JavaScript   **Types of SQL Injection:**   * Tamatut you want to do To me what to wt to do   Protect   * SQL Injection * Bypass Authentication Injection   Union based injection als Advance SQL ERROR BASED SQL Injection   * Blind SQL Injection.   How to Prevent sQL Injection   * Blacklisting • White Listing • Prepared Statements Hardening DB and OS | | | |