**DAILY ASSESSMENT FORMAT**

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| **Date:** | **27 may 2020** | **Name:** | **Akshay** |
| **Course:** | **DSP** | **USN:** | **4AL17EC008** |
| **Topic:** | **FFT Using MATLAB, Study and Analysis of FIR and IIR, Filtering SignalECG Signal Analysis.** | **Semester & Section:** | **6th sem & A sec** |
| **Github Repository:** | **Akshay-Online-Course** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session**  page1image54880624  page1image54920624 |
| **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.**  **Fast Fourier Transform:**  page3image54666800  **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.** |

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| **Date:** | **27 May 2020** | **Name:** | **Akshay** | |
| **Course:** | **Python** | **USN:** | **4AL17EC008** | |
| **Topic:** | • **Graphical User Interfaces with Tkinter** • **Interacting with Databases** | **Semester & Section:** | **6th sem & A sec** | |
| **AFTERNOON SESSION DETAILS** | | | |
| **Image of session**  page6image54642304 | | | |
| **Report – Report can be typed or hand written for up to two pages.**  **GRAPHICAL USER INTERFACES WITH TKINTER:**   * •  **Python offers multiple options for developing GUI (Graphical User Interface).** * •  **Out of all the GUI methods, tkinter is the most commonly used method.** * •  **It is a standard Python interface to the Tk GUI toolkit shipped with Python. Python with**   **tkinter is the fastest and easiest way to create the GUI applications.**   * •  **Creating a GUI using tkinter is an easy task.**   **INTERACTING WITH DATABASES:**   * •  **Given the variety of techniques available to produce protein-protein interaction data and the large number of studies that are published every day, an enormous effort is required to store this information in a way that is both accessible and intelligible to the user.** * •  **Molecular interaction databases aim to fulfil this need by extracting information from scientific publications or, in some cases, by including protein-protein interaction predictions found using computational method. The storage of interactions in publicly available databases allows access to a large volume of interaction data and subsequent analysis of the interactome**   page7image38672400  • **The above image converts Kg into Grams, pounds and ounces respectively.**  page7image38671728  • **The above image converts Kilo meter into Miles.** | | | |