**DAILY ASSESSMENT FORMAT**

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| **Date:** | **25 MAY 2020** | **Name:** | **K Gaurav shet** |
| **Course:** | **Signals and system** | **USN:** | **4AL18EC023** |
| **Topic:** | **1.Fourier transform.**  **2.Z transform.** | **Semester & Section:** | **4th sem & A section** |
| **Github Repository:** | **Gaurav-shet** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session**    **REPORT**   * **Introduction to Fourier Series & Fourier Transform** * **Fourier**[**series**](https://en.wikipedia.org/wiki/Series_(mathematics)) **is a**[**periodic function**](https://en.wikipedia.org/wiki/Periodic_function)**composed of harmonically related**[**sinusoids**](https://en.wikipedia.org/wiki/Sine_wave)**, combined by a weighted summation. With appropriate weights, one cycle (or *period*) of the summation can be made to approximate an arbitrary function in that interval (or the entire function if it too is periodic).** * **The Fourier Transform is a mathematical technique that transforms a function of time, x(t), to a function of frequency, X(ω).** * **Inner Product in Hilbert Transform** * **The Hilbert transform is a specific**[**linear operator**](https://en.wikipedia.org/wiki/Linear_operator)**that takes a function, *u*(*t*) of a real variable and produces another function of a real variable *H*(*u*)(*t*).** * **Complex Fourier Series** * **Fourier series using Matlab** * **Domain** * **Function** * **Compute Fourier series** * **Fourier series using Gibbs phenomena using python** |