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NAAC 'A' GRADE INSTITUTE

Activity: Innovative Teaching-Learning   February 8, 2020

Objective	To use online tool for Direct Digital Synthesis using AD983. (Course Elecrtonics Instrumentation SE Instrumentation and Control Engg.)
Outcome	Students understands and analyze how output frequency of Arbitrary waveform Generator is related with Master clock frequency , a constant, how to edit output frequency, the Frequency Tuning Word is a Hex number preferred. They also visualize the output waveform and harmonics as well on the screen.
Name of the Event And student present	Teaching-Learning by Demonstration in Class, Students present: 33 (SE Instrumentation & Control)
Date and Time of Event	February 22, 2020 Between 2pm to 3 pm
Event Description	Students learned use of online Tool for Direct digital synthesis, what different parameters are to be selected and how output from circuit /IC looks in class using internet and link https://tools.analog.com/en/simdds/?part=AD9833 .
Quality Photos	Figure 1: Half part of tool Figure 2 Output signal and harmonics
PO Explored	PO1(3), PO2 (2), PO4(2), PO5(3), PSO1(2).
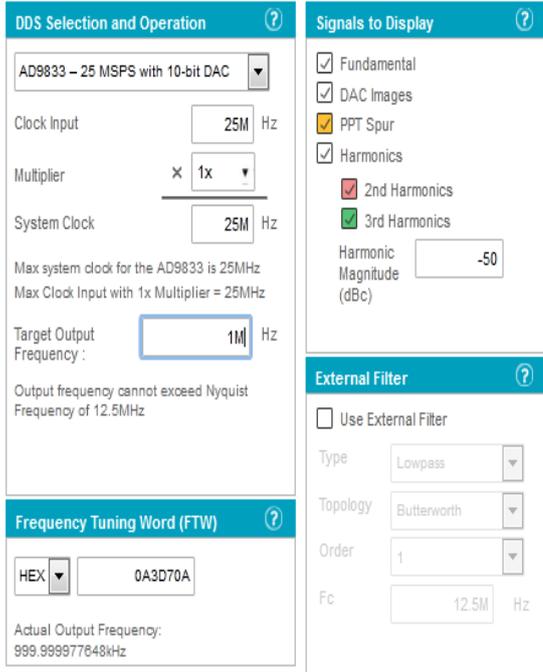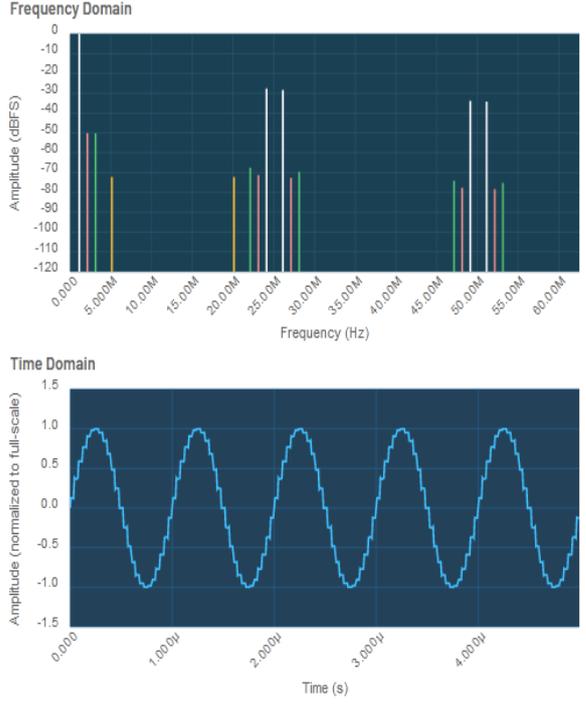
Figure 1: Half part of tool

Figure 2 Output signal and harmonics