Experiment 1: Introduction and Acquaintance with Digital Storage Oscilloscope (DSO)

Aim: To learn about Digital Storage Oscilloscope (DSO) and its functionality in observing various Signal properties

Learning Activity: Carefully watch the video (provided by the Communications System Lab).

Acquaintance with Digital Storage Oscilloscope (DSO):

Based on the video you watched, answer the following questions in your report.

1. What is a Digital Storage Oscilloscope (DSO)? Read and learn about it on where / how can it be used? You may search web for this.
2. Note the model number and manufacturer name of the DSO in the video.
3. What are the functions of horizontal controls?
4. What are the functions of vertical controls?
5. What is the purpose of a trigger in a DSO?
6. What are the range of amplitudes and frequencies that the DSO can display?
7. What is the DC coupling & AC coupling functionalities?
8. In what way the cursors of DSO help in measurements?
9. What is the use of "AUTO SET" functionality of DSO?
10. Where do you think the probe attenuation helps?

*Mind Gym Exercise: WHY are the different features of the DSO needed in the context of communication systems? ***

** Optional