

Analog Peripheral

Introduction:

This laboratory will require you setting analog peripheral such as analog to digital converter and digital to analog converter. You are required to keep laboratory **logbook**. It is for keeping notes, results, analysis other work. This includes a laboratory **worksheet** that should be completed as a part of the logbook. You may also wish to include screen capture of programs and results to clarify your results. Work through the activities at your own pace, recording what you do in your logbook and referring to the worksheet, completing the tasks.

Aim:

Configuring the analog peripherals such as ADC and DAC along with DMA channel for a peripheral to memory transfer.

Equipment and sundries:

Hardware:

- 1- STM32L476VG-DISCO
- 2- Cable Type A to Mini Type B

Software:

- 1- STM32CubeIDE

Logbook Entries:

- 1- Briefly explain the resolution and sampling time of ADCs (max 200 words).
- 2- Briefly explain the sample and Hold time of DAC (max 200 words).
- 3- Document the to do tasks.
- 4- Summaries your work and reflect your learning.