

## EEE3095S/EEE3096S Practical 4 Demonstrations 2022

Total Marks Available: 30

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	STUDENT 1	STUDENT 2	249 3
STUDENT SURNAME	ABRAHHM	KEGAKILWE	NJAMELA
STUDENT FIRST NAME	KARAN	OMOLEMO	BONGA
STUDENT NUMBER	ABR KAROOG	KGK OMO 001	MIMLUNO
STUDENT SIGNATURE			(Ufamler

TUTOR NAME + SIGNATURE	Daniel. Coert Com
DATE [YYYY-MM-DD]	18/10/2022

Action + Mark Allocation	
Introduce yourselves and briefly describe the purpose of the practical/demonstration. [3 marks]	
Verify that the LUTs correspond to the correct wave shapes. Wave should have a frequency of 1Hz and range from 0-1023. [3 Marks]	
Ensure that the correct value for TIM2CLK has been used. [1 Mark]	
Verify that TIM2_Ticks has been calculated correctly. [3 Marks]	
Test low pass filter using Oscilloscope and function generator. Ensure that filter attenuated signals above the cutoff frequency. Signals below 5kHz should not be attenuated. [5 Marks]	
The 3 waveforms (sine, triangle, sawtooth) can be generated with frequencies up to 5kHz. [9 Marks]	8
PB The pushbutton can be used to cycle through the waveforms. [3 Marks]	
Well-written, well commented code. Code uploaded to Git. Sensible variable names, functions in correct places etc. Overall preparedness for demo. [3 Marks]	3
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