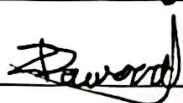



# EEE3095S/EEE3096S Practical 2 Demonstration Marksheet 2024

Total Marks Available: 15

Group No.		
	Stn 1	Stn2
Student no.	DWD2A1004	HWKLA001
Name	Zainodine Dawood	Lawrence Hawke
Signature		

**NB Please take a photo of this mark sheet and submit it with your report!**

Action + Mark Allocation	Mark
Pressing PA0 should change the output waveform in the cyclical pattern: Sine -> Sawtooth -> Triangle.	3 /3
Show that the LPF (on its own) works as expected using a signal generator and an oscilloscope. Bode plot of designed filter, Bode plot of measurements take from built filter.	3 /3
Connecting PB0 to the filter input should generate the expected waveform on the oscilloscope. All three waveforms should be shown using PA0 to switch between them.	3 /3
Check code: all three LUTs properly defined (128 values, minimum of 0 and maximum of 1023, single period of each waveform).	2 /2
Check code: appropriate values of NS, TIM2CLK, Fsignal and an appropriate formula for TIM2_Ticks (see Marking Notes).	2 /2
Check code: An EXTI interrupt is used, and the handler changes the waveform type.	1 /1
Check code: PA0 should have some form of debouncing enabled (see Marking Notes).	1 /1
<b>Total</b>	<b>15 /15</b>

Tutor Name:	TYRAN
Tutor Signature:	