

Hardware and software used in MCU1 course

Note: The links given in this document are NOT purchase links. They are given just as reference links to explore the components.

HARDWARE

No	Item	Nos	Note	Reference link
1	STM32F407 DISCOVERY board	1	This is the main development board for which drivers are developed.	check here
2	Arduino Uno	1	The arduino Uno board is used to test SPI, I2C, UART code examples. This board acts as a slave device and communicates With the main STM32 board. You can use low cost clone Arduino Uno board instead of using original ones.	check here
3	LEDs	1	5mm LED	check here
4	Push button	1	Mini Pushbutton	check here
5	Resistors	2	22K Ω , 4.7K Ω , 470 Ω ;	
6	USB logic analyzer	1	In this course saleae logic 8	check here

			device is used. Please check www.saleae.com for more information about the different products available from saleae	
7	jumper wires		M-M, M-F,F-F;	check here
8	breadboard	1	full or medium size	check here
9	Logic Level convertor	1	Bidirectional convertor which shifts 3.3 V to 5V and 5V to 3.3V	check here
10	DS1307 Tiny RTC module	1	For interfacing project	check here
11	16x2 Character LCD	1	For interfacing project	check here

SOFTWARE

No	Item	Nos	Note	Reference link
1	STM32CUBEIDE		Eclipse based IDE. Provided by ST. Multi OS support (windows/linux/mac)	FREE
2	saleae logic analyzer		This software used only if you have saleae logic analyzer hardware	FREE

	software		you can download this software from here https://www.saleae.com/downloads/ This software is used for protocol tracing and decoding	
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