



## Arduino LAB

### Assignment 1

#### Morse Code:

A	.-	J	.-.-.-	S	...	1	.-.-.-.-
B	-...	K	-.-	T	-	2	..-.-
C	-...-	L	.-...-	U	..-	3	...--
D	-..	M	--	V	...-	4	....-
E	.	N	--.	W	.-.-	5	.....
F	....-	O	---	X	-.--	6	-....
G	--.	P	.-...-	Y	-.--	7	--...
H	....	Q	---.-	Z	---..	8	-----
I	..	R	.-.	0	-----	9	-----

International Morse code is composed of five elements:

- short mark, **dot** or "dit" (·) : "dot duration" is one time unit long
- longer mark, **dash** or "dah" (–) : three time units long
- **inter-element gap** between the dots and dashes within a character : one dot duration or one unit long
- **short gap** (between letters) : three time units long
- **medium gap** (between words) : seven time units long

SOS

... — — — ...

## **Delivery Policy**

- Groups of maximum 3 members.
- Represent “SOS” in Morse Code using the Arduino UNO.
- You must bring your Arduino kit working along with the Arduino code to the discussion during the lab time.
- Each group must send a short **video** showing the Arduino working correctly (LED operating correctly).
  - The video should be in a readable format (.mp4 .wmv , etc..)
  - Send the video to the instructor’s mail with the following **email subject title “lab1”**
  - Inside the post body include your **full names, IDs** as well as any note you’d like to mention.
  - If the video size exceeds mail limit, first try to compress the video or use lower resolution, then as last resort upload it to any website (youtube – mediafire – dropbox – drive etc..) and include the link in your post.
- **Due Date:** Sunday 31/10/2021 @ 13:59
- **Late delivery** = -25% for each day of delay.

**Good Luck**