



# American International University – Bangladesh

## Faculty of Engineering – Electrical & Electronics Engineering

<b>Course Name:</b>	Microprocessor and Embedded Systems	<b>Course Code:</b>	EEE 4103
<b>Semester:</b>	Summer 2021-2022	<b>Section:</b>	I
<b>Instructor Name:</b>	Nirjhor Rouf		

<b>Assignment No:</b>	1 (individual submission consisting of 10 marks )
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<b>Student Name:</b>	MD.Imran Hossain		
<b>Student ID:</b>	19-40097-1	<b>Program Name:</b>	BSc in CSE

<b>Submission Link (MS forms):</b> <a href="https://forms.office.com/r/F3du96VM">https://forms.office.com/r/F3du96VM</a>			
<b>Submission Date:</b>	04/06/2022	<b>Due Date:</b>	04/06/2022

**Question: Complete the following table after going through the datasheet of the following processors:**

	ATMega328P	STM32F401xE	PIC24FJ64GA004	PIC33FJ32GP302
<b>Architecture type</b>	Advanced RISC Architecture	Cortex - M4 32 - bit RISC	Modified Harvard Architecture	Modified Harvard Architecture
<b>Program flash memory (bytes)</b>	32000 bytes	512000 bytes	64000 bytes	32000 bytes
<b>Operating voltage range (V)</b>	1.8 - 5.5V	1.7 to 3.6 V	2.0V to 3.6V	3.0V to 3.6V
<b>No. of PWM channels</b>	6	Up to 15	5	4

<b>Communication Interfaces</b>	SPI, USART, 2-wire Serial Interface	SPI/ I2S, USART, SDIO, I 2C	UART, SPI, I2C™	PMP, UART, Two 4wire SPI, ECAN, I2C, DCI
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N.B. The deadline to submit the assignment is 04/06/2022.

NO LATE SUBMISSIONS WILL BE ACCEPTED.