



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022(ODD)

REPORT – Bridge Course on Microprocessors & Microcontrollers

Department of Electrical & Electronics Engineering organized the bridge course on EE8551-Microprocessors & Microcontrollers for third year EEE students from 23.08.2021 to 25.08.2021. The main objective of this bridge course is to provide introduction about Microprocessors & Microcontrollers course.

PROGRAMME CONDUCTED PARTICULARS:

DATE	TIMING / DURATION	TOPIC	FACULTY HANDLED
23.08.2021	6.00 PM – 7.00 PM (1- HOUR)	Need & Purpose of Microprocessors & Microcontrollers.	Mr.S.R.Karthikeyan AP/EEE
24.08.2021	6.00 PM – 7.00 PM (1- HOUR)	Introduction to Microprocessors & Microcontrollers.	Dr.M.Meenalochani AP/EEE
25.08.2021	6.00 PM – 7.00 PM (1- HOUR)	Architectures of Microprocessors & Microcontrollers.	Mr.R.Sundaramoorthi AP/EEE

PROGRAMME CONTENT:

Need & Purpose of Microprocessors & Microcontrollers:

The following points were discussed during the session:

- Microcontrollers are optimized to perform a dedicated low-power application
- Ideal for embedded systems.
- Microprocessors are more useful for general computing applications that require more complex and versatile computing operations.
- Difference between microprocessors and microcontrollers.
- Microcontroller is a compressed microcomputer manufactured to control the functions of embedded systems in office machines, robots, home appliances, motor vehicles, and a number of other gadgets.

Introduction to Microprocessors & Microcontrollers:

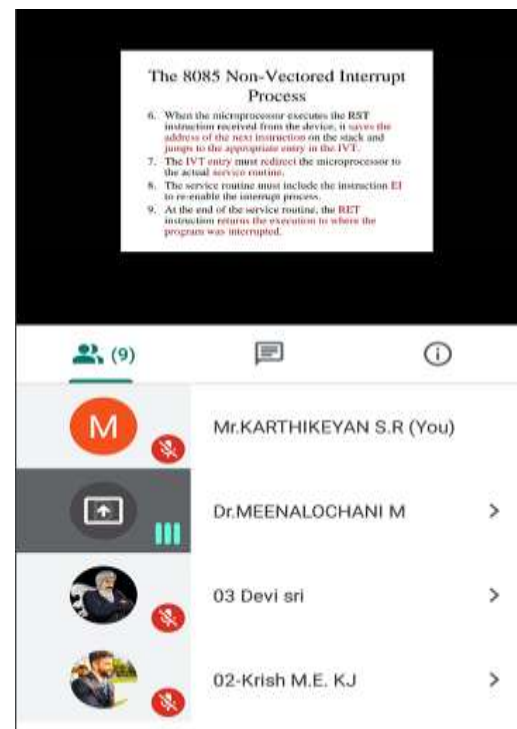
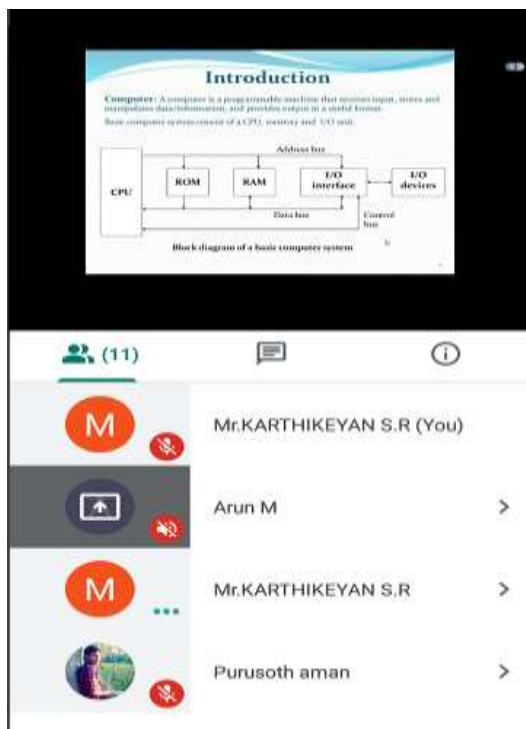
The following points were discussed during the session:

- Classification of microprocessors.
- Instruction set and execution.
- Instruction execution and timing diagram.
- Interrupts.
- Interfacing memory and I/O devices

Architectures of Microprocessors & Microcontrollers:

The following points were discussed during the session:

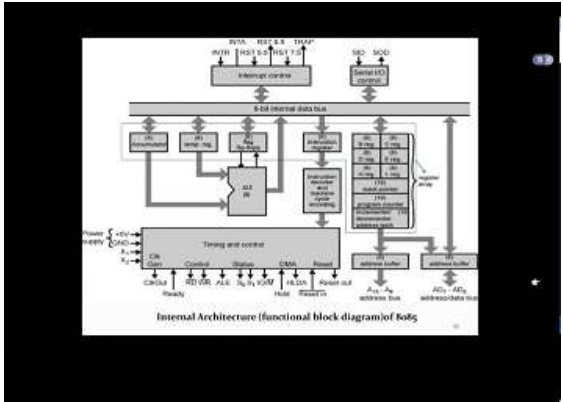
- The microprocessor is the CPU (Central Processing Unit) of a computer. It is the heart of the computer.
- Intel 8085 as it is one of the most popular 8-bit microprocessor.
- It has memory, and can be programmed to do calculations, receive input, and generate output.
- Unlike a PC, it incorporates memory, a CPU, peripherals and I/O interfaces into a single chip.



The 8085 Non-Vectored Interrupt Process

Restart Instruction	Equivalent to
RST0	CALL 0000H
RST1	CALL 0001H
RST2	CALL 0002H
RST3	CALL 0003H
RST4	CALL 0004H
RST5	CALL 0005H
RST6	CALL 0006H
RST7	CALL 0007H

- The 8085 recognizes 8 RESTART instructions: RST0 - RST7.
- each of these would send the execution to a predetermined hard-wired memory location.



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