



Guest Lecture

On

Interfacing and Programming Concepts of 8051

Expert speaker

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Mode :Online

Date:08/11/2024

Time:7 to 8pm

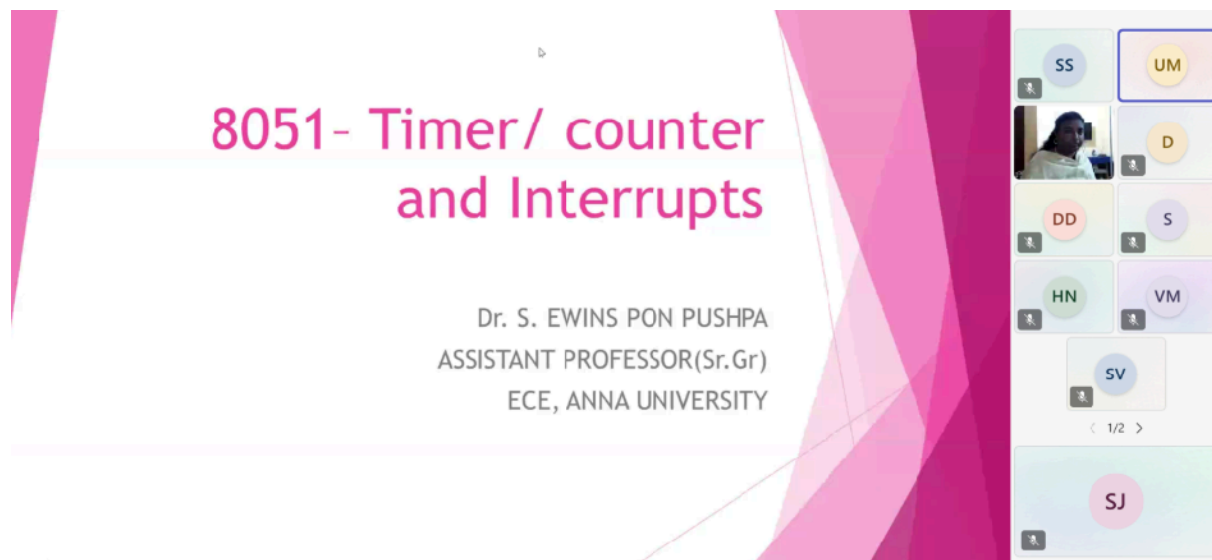
Event ID: SEC202411IEEEECAS006

Objective of the Event :

The aim of the Guest Lecture is to provide some knowledge on Interfacing Concepts of 8051 Microcontroller .The Programming Concepts will enable the students to carry out some application of interfacing 8051 to the outside world which will be useful for the society

About the event :

The event started with some basics of 8051 .Then the lecture went through some interfacing concepts of 8051 such as detailing on the Serial Port Programming , Interrupt Programming and Stepper Motor .The resource person detailed on the types of interrupt ,Special Function Registers, List of timers,8051 Timers in ALP, Interfacing Stepper Motor with 8051 with its Clockwise and Anticlockwise Rotation mechanism .The Participants were Third year CSE and IT Students .The Session was Conducted in Online mode .The students Gained Knowledge on Interfacing Concepts of 8051 Microcontroller .The students also interacted with the resource person and clarified many doubts as possible .



8051- Timer/ counter and Interrupts

Dr. S. EWINS PON PUSHPA
ASSISTANT PROFESSOR(Sr.Gr)
ECE, ANNA UNIVERSITY

The screenshot shows a presentation slide with a pink and white geometric design. The title '8051- Timer/ counter and Interrupts' is in large pink font. Below it, the speaker's name and title are listed. To the right of the slide is a video conference interface showing a grid of participants' avatars and names: SS, UM, D, S, DD, HN, VM, SV, and SJ. A small video feed of the speaker is visible in the top left of the participant grid. A navigation bar at the bottom of the grid shows '< 1/2 >'.

Microsoft Teams meeting

30:13

Take control Pop out Chat People Raise React View More Camera Mic Share Leave

Recording and transcription
For now, meeting transcripts are only available to select Teams users. [Privacy policy](#)

Interrupts

Types		Interrupt	Vector Address
Internal	TF0	Timer flag 0 interrupt	000B _H
	TF1	Timer flag 1 interrupt	001B _H
	RI/TI	Serial port interrupt	0023 _H
External	INT0	External interrupt 0	0003 _H
	INT1	External interrupt 1	0013 _H

Priority of the interrupts

1. IE0 (INT0')
2. TF0
3. IE1 (INT1')
4. TF1
5. RI/TI

08/11/2024

Dr. S. Ewins Pon pushpa

UM DP D DD HN VM SV AV SJ

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OBJECTIVES

- ▶ 8051 - interrupts
- ▶ Special function registers -- interrupts
- ▶ List the timers of the 8051 and their associated registers
- ▶ Describe -- various modes of 8051 timers
- ▶ Program- 8051 timers in Assembly language to generate square wave.
- ▶ Interfacing stepper motor with 8051

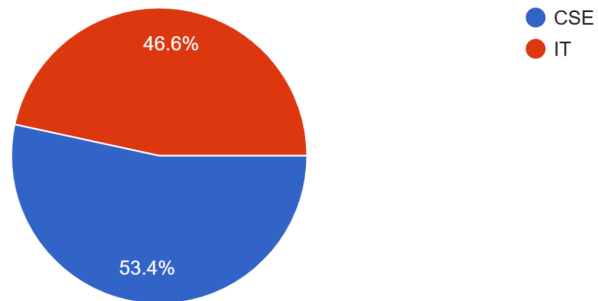
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Department

103 responses



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