

Velammal College of Engineering and Technology, Madurai
(Autonomous)
Department of ECE
Innovative Teaching Methodology

Name of the course: Microprocessors and Microcontrollers

Topic: 8051 Instruction Set Assembly Language Programs for various Arithmetic and Logic operations

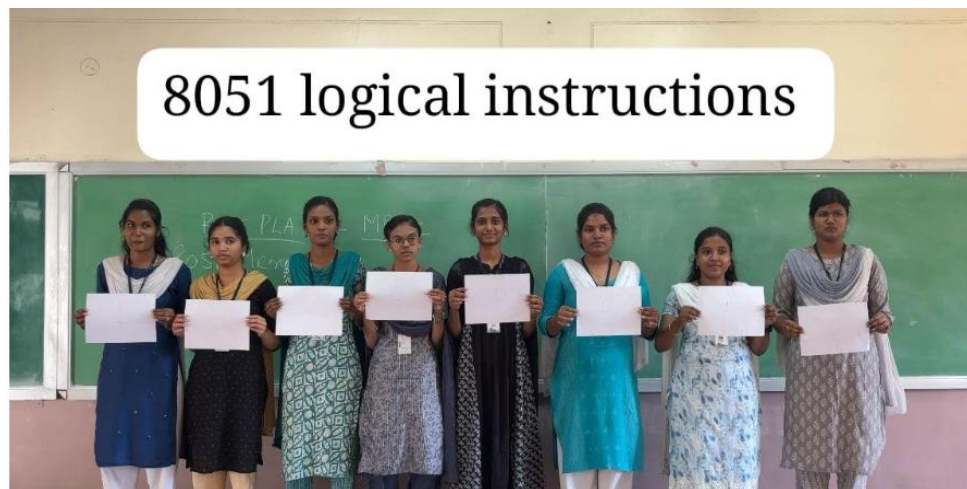
Course Incharge: Dr. S. Gandhimathi @ USha

Innovative Method: Role Play

The method of roleplay is used to demonstrate the execution of 8051 microcontroller instructions, focusing on arithmetic and logical operations.

As part of our microprocessor and microcontroller course, a team of students performed a role play to illustrate the execution of 8051 microcontroller instructions. Role-play showcase the instruction set and demonstrates how arithmetic and logical instructions are executed.

- A group of 8 students were holding papers with the content related to Rotate instructions of 8051 instruction set written on it.
- A narrator instructed the instructions that need to be executed.
- A group of 2 students acted for arithmetic instructions and executed it based on the commands.





Our role play successfully demonstrated the execution of 8051 microcontroller instructions, covering both arithmetic and logical instructions. Through this exercise, the students gained a deeper understanding of the instruction set and the execution process.

Velammal College of Engineering and Technology, Madurai - 625 009

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Innovative Teaching Methodology

Name of the course: Transmission lines and Waveguides

Topic: Single stub and Double stub Matching

Course Incharge: Dr. S. Murugan

Innovative Method: NPTEL Video

NPTEL Course: Transmission Lines and EM waves



Stub Matching is one of impedance matching technique to match the transmission line and load impedance. The NPTEL course on “Transmission Lines and EM waves” taken by Prof. Shevgonkar, IIT Bombay explains clearly the above topic with suitable example. Also, the analytical and smith chart methods are explained in this video. The video is much helpful to enhance the understanding of the student in the above topic.