

## BRIEF REPORT OF WEBINAR

**Resource person:** Udaya Shankar

**Platform:** Google meet

**Date:** 25-11-2021

**Time:** 7pm

**Webinar topic:** Introduction to fuzzy logic used in modern controlled system

The poster is a green and yellow graphic with a dark green background. At the top left is the logo of Mar Baselios Christian College of Engineering & Technology. At the top right is the logo of the Department of Electrical and Electronics Engineering. The title 'INTRODUCTION TO FUZZY LOGIC USED IN MODERN CONTROLLED SYSTEMS' is written in large yellow letters. A central photo of Udaya Shankar is shown with the word 'SPEAKER' written vertically to his right. Below the photo, his name 'UDAYA SHANKAR' and title 'IT MANAGER, INFO PARK KOCHIN' are listed. A yellow button contains the text 'Meet Link idj-rtyx-rzs'. At the bottom, two phone numbers are provided: 7994883792 and 9497821051. The text 'AT 07:00 PM 25-11-2021' is on the left side.

**MAR. BASELIOS CHRISTIAN**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
KUTTIKANAM, PEERMADE

DEPARTMENT OF  
ELECTRICAL AND  
ELECTRONICS ENGINEERING

**INTRODUCTION TO FUZZY LOGIC USED IN  
MODERN CONTROLLED SYSTEMS**

AT 07:00 PM  
25-11-2021

**SPEAKER**

**UDAYA SHANKAR**  
IT MANAGER, INFO PARK KOCHIN

**Meet Link**  
**idj-rtyx-rzs**

7994883792

More information call

9497821051

He said, Fuzzy logic control (FLC) is the most active research area in the application of fuzzy set theory, fuzzy reasoning, and fuzzy logic. The application of FLC extends from industrial process control to biomedical instrumentation and securities. Compared to conventional control techniques, FLC has been best utilized in complex ill-defined problems, which can be controlled by an efficient human operator without knowledge of their underlying dynamics.

A control system is an arrangement of physical components designed to alter another physical system so that this system exhibits certain desired characteristics. There exist two types of control systems: open-loop and closed-loop control systems. In open-loop control systems, the input control action is independent of the physical system output. On the other hand, in a closed-loop control system, the input control action depends on the physical system output. Closed-loop control systems are also known as feedback control systems. The first step toward controlling any physical variable is to measure it.

### Why fuzzy logic is used

- It solves the problem of uncertainty in the engineering field.
- When accurate reasoning is not available, it provides an accurate level of reasoning.
- Fuzzy logic has a simple structure that is easy to understand.
- It is an effective way of controlling machines.
- It provides solutions to various industrial problems (especially decision making).
- It requires little data to be executed.

Program arranged and report

Approved by:

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29-11-2021

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