

POORNIMA INSTITUTE OF ENGINEERING AND TECHNOLOGY



Workshop Report (1 Hour) STD
Date- 20/12/18

WORKSHOP ON FUZZY LOGIC

About the participants

- Number of participants: 13
- Workshop Coordinator - Mr. Pulkit singh
- Student Coordinator - Ms. Heena Meena (3rd yr. EE Dept.)

Presentation on Fuzzy Logic:

Fuzzy logic is a form of many-valued logic in which the truth values of variables may be any real number between 0 and 1. It is employed to handle the concept of partial truth, where the truth value may range between completely true and completely false. By contrast, in Boolean logic, the truth values of variables may only be the integer values 0 or 1.

Classical logic only permits conclusions which are either true or false. However, there are also propositions with variable answers, such as one might find when asking a group of people to identify a color. In such instances, the truth appears as the result of reasoning from inexact or partial knowledge in which the sampled answers are mapped on a spectrum

Both degrees of truth and probabilities range between 0 and 1 and hence may seem similar at first, but fuzzy logic uses degrees of truth as a mathematical model of vagueness, while probability is a mathematical model of ignorance.

