**WORKSHOP DETAILS**

**1.LaTeX**

**LaTeX** is a high-quality typesetting system which includes features designed for the production of technical and scientific documentation. LaTeX is the standard for the communication and publication of scientific documents. It also has a prominent role in the preparation and publication of books and articles that contain complex multilingual materials, such as [Sanskrit](https://en.wikipedia.org/wiki/Sanskrit) and [Arabic](https://en.wikipedia.org/wiki/Arabic).In this workshop, the participants will be given an idea on how to use the software. With this software , we have to concentrate only on the content and not on the format. The workshop on LaTeX will be useful for you especially in preparing reports and scientific papers.

**2. Fuzzy Logic**

**Fuzzy logic** is an approach to computing based on degrees of truth rather than the usual true or false (1 or 0) [Boolean](http://searchcio-midmarket.techtarget.com/definition/Boolean) logic on which the modern computer is based.  FL is a problem-solving control system methodology that can be implemented in systems ranging from embedded micro-controllers to large, networked, multi-channel PC and control systems. It can be implemented in hardware, software, or a combination of both. FL provides a simple way to arrive at a definite conclusion based upon vague, ambiguous, noisy, or missing input information. It seems closer to the way our brains work.

**3. LabVIEW**

**LabVIEW** (Laboratory Virtual Instrument Engineering Workbench) is a system-design platform and development environment for [visual programming language](https://en.wikipedia.org/wiki/Visual_programming_language) from [National Instruments](https://en.wikipedia.org/wiki/National_Instruments). LabVIEW is commonly used for [data acquisition](https://en.wikipedia.org/wiki/Data_acquisition), [instrument control](https://en.wikipedia.org/wiki/Instrument_control), and [industrial automation](https://en.wikipedia.org/wiki/Automation) on a variety of platforms including [Microsoft Windows](https://en.wikipedia.org/wiki/Microsoft_Windows), various versions of [UNIX](https://en.wikipedia.org/wiki/Unix), [Linux](https://en.wikipedia.org/wiki/Linux), and [Mac OS X](https://en.wikipedia.org/wiki/Mac_OS_X). With LabVIEW, you can write sophisticated programs and applications in a shorter amount of time without needing a computer science degree .