TECHNOLOGY LEARNING CENTER
..Finishing School for Engineer's

Power systems, Power electronics & Drives
Based on
MATLAB &Simulation

This is two days workshop will motivate you and create Zeal to know more about Electrical tools, their construction, working and operation.

Here we are going to introduce a new software technology named MATLAB.
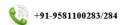
Importance of Workshop

- It covers essential aspects of MATLAB tool, which is introduced in educational institutions, DRDO and R&D's in India;

- It provides platform to bring experts from Industry and academic institutions

Covered topics:-

SECTION - I

- ➢ Introduction to Electrical softwares
- ➢ Basic difference between other softwares and MATLAB
- ➢ MATLAB history
- ➢ Introduction to MATLAB
- ➢ Tools introduction
- ➢ Simple programs and circuits design by using software
- ➢ Graphical observation of Voltages and current flow in circuits using Simulation Software

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SECTION – II

- Electrical and Electronics differentiation
- Power Generation methods
- Power Transmission, different types of faults & Remedies
- Distribution & Utilization of Power
- A simple Circuit design on power generation by using MATLAB

SECTION – III

- Classification of Machines
- Classification of Electrical Machines
- Explanation about Motor & Generators
- Speed control techniques

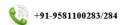## SECTION – IV

- Power electronic Devices and their working & Usage
- Different types of Power electronic converters & Applications.
- Advance control Techniques (Fuzzy, NNFL, etc…)

SECTION – V

- **Design of a simple circuit operation on Printed Circuit Board.**

info@tlcindia.org
+91-9581100283/284
www.tlcindia.org

Benefits of the participants

- **Certificate of Participation** to all Participants from Technology Learning Center
- **Free** Softcopy **of workshop content**
- Technology Learning Center summer Training Redemption Coupon

Our Requirement for the program:

- Minimum of 50 teams for conducting the workshop
- One Computer CD-ROM drive for each team or students are requested to get their laptop preferably with Windows OS.
- LCD projector and microphone PA system.
- Seminar hall or computer lab for conducting the workshop.

Workshop Duration:

- 2 Days [7 Hours/Day]