SPARK
HANDS ON TRAINING ON ELECTRICAL, ELECTRONICS & ROBOTICS FOR SCHOOL STUDENTS

IN ASSOCIATION WITH EPR LABS

ELIGIBILITY: JUNIOR LEVEL: STUDENTS OF IX & X STANDARD
SENIOR LEVEL: STUDENTS OF XI & XII STANDARD

DATE: 21/10/2016 | LAST DATE FOR REGISTRATION: 18/10/2016

TRAINING TOPICS

ELECTRICAL
- Fluorescent lamp wiring
- Residential house wiring
- Stair case wiring
- Measurement of electrical quantities – voltage, current, power & power factor
- Measurement of energy using single phase energy meter

ELECTRONICS
- Measurement of AC signal parameter using CRO
- Resistor- colour coding
- Study of logic gates AND, OR, NOR and NOT
- Soldering practice – Using general purpose PCB
- Generation of Clock Signal

ROBOTICS
- Role of Mathematics and Science in Robotics
- Physical Design- Modeling
- Robots. Understanding basic Mechanics
- Logical Design – Use of flow charts, Binary Logics and C program
- Programming – C Programming basics & Electronics – LED
- Switches, Sensors and Motors
- Building a Line Follower Robot, Color Sensing Robot
- Obstacle Sensing and Avoidance Robot

RESOURCE PERSON DETAILS

For Electrical & Electronic Training: Internal Faculty / Dept. of EEE
For Robotics Training: Mr. Ganesan, EPR Labs
Organizing Secretary: Ms. G. Bhavani – AP-EEE, M: 9445944900
Email id: bhavani.joyal@gmail.com
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