INSTITUTE OF HUMAN RESOURCES DEVELOPMENT

(Established by Govt. of Kerala) Thiruvananthapuram, Kerala.

Short-term Course on

Printed Circuit Board Design & Fabrication

(Course code : 202315)

1. Aim: To provide awareness and give sufficient hands-on training in Printed Circuit Board Design & Fabrication technique.
2. Duration of the course :   30 hours
3. Eligibility for admission :   Diploma / ITI / BSc in Electronics, Electrical, Instrumentation
4. Intake   :   30 students.
5. Course Fee   :   2500 + GST Applicable
6. Eligibility for Certificate :
   i) Student shall have minimum 75% attendance during the course.
   ii) Student shall pass the evaluation test conducted by the training centre.

Sd/-

Thiruvananthapuram   DIRECTOR

[Course code : 202315]

INSTITUTE OF HUMAN RESOURCES DEVELOPMENT

Short-term Course on Printed Circuit Board Design & Fabrication

(Duration : 30 hrs.)

Module 1:
Introduction to electronics, Component introduction and their categories: Passive components, Active components, Component package types
5 Hrs

Module 2:
Introduction to PCB designing concepts -PCB and PWB, types, materials used, Familiarization of steps involved in PCB design.
6 Hrs

Module 3:
Introduction to Development Tools - KCAD, Proteus
5 Hrs

Module 4:
Practical session on Soldering and desoldering
4 Hrs

Module 5:
Practical session on PCB designing, Auto routing, Post Designing & PCB Fabrication Process
8 Hrs

Module 6:
PCB and Hardware Testing
2Hrs

* * * * * * *

Thiruvananthapuram

Sd/-
DIRECTOR

INSTITUTE OF HUMAN RESOURCES DEVELOPMENT
(Established by Govt. of Kerala) Thiruvananthapuram, Kerala.

Short-term Course on
LED Light Products Design,

Assembly and Repairing

(Course code : 202316)

1. Aim: To provide awareness and give sufficient hands-on

   training in LED light design, assembly and repair.

2. Duration of the course :   30 hours

3. Eligibility for admission :   Minimum 12th Std

4. Intake   :   30 students.

5. Course Fee   :   2500 + GST Applicable

6. Eligibility for Certificate :

   i) Student shall have minimum 75% attendance during
      the course.

   ii) Student shall pass the evaluation test conducted by
      the training centre.

Thiruvananthapuram

Sd/-
DIRECTOR

[Course code : 202316]

INSTITUTE OF HUMAN RESOURCES DEVELOPMENT

Short-term Course on LED Light Products Design, Assembly and Repairing

[Scheme] (Duration : 30 hrs.)

Module 1:
Introduction to electronics, Passive components, Active components, Structure and operation of LED   7Hrs

Module 2:
Familiarization of basic electronic instruments, tools and soldering   3Hrs

Module 3:
Practical session on LED Luminary Assembly   6Hrs

Module 4:
Practical session on LED Board Design   6Hrs

Module 5:
Identification of the LED luminaire failure and repair fault in an LED light both at the component level and the strip level   6Hrs

Module 6:
Safety Standards and Procedures   2Hrs

* * * * * *

Thiruvananthapuram

Sd/-
DIRECTOR