

# **LEGO EV3 Syllabus (Assembling & Programming)**

**[Duration: Total 12 sessions (2 hours each session)]**

**Fess Rupees: 6000/-]**

- Familiarization with LEGO EV3 software & Basic Programming
  - Finding Building Instructions
  - How to link Blocks
  - Mode Settings & Configuring Blocks
  - Run the program & Navigate the program on EV3
- Introduction to Moving straight Unit
  - Moving Straight: Steering Forward
  - Moving Straight: ARM Control
- Introduction to turning Unit
  - Movement: turning
- Introduction to touch sensor Unit & programming
- Introduction to Ultrasonic Sensor Unit & programming
- Introduction to Gyro Sensor Unit & Programming
- Introduction to color Sensor Unit & Programming
- Introduction to robot Decision: switches
- Introduction to Robot Decisions: Line follower
- Making of Color sorter & its Programming
- Making of Gyroboy & its Programming
- Making of Robot Arm & its programming.