RoboSmart Labs
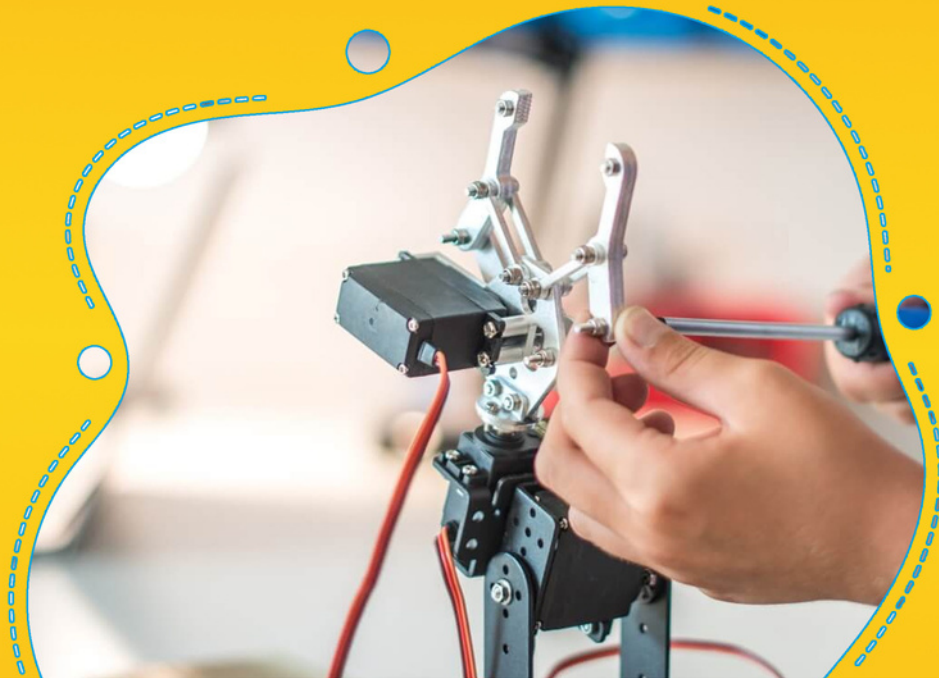## REDEFINING ROBOTICS EDUCATION

robo smartlabs
REDEFINING ROBOTICS EDUCATION

80 Hours Course - Beginner
(Standard 3 - 5)

Course code: RSLILANB11

HANDS-ON
IN - LAB
COURSE SERIES

INTRODUCTION TO ROBOTICS

Learning Outcome & Projects

About Robot Smart Labs, What is a Robot?, Robots in Movies?, Robots in Real Life?, Demonstration of all Robots in Lab, Parts of Robots, Mechanical parts working – observation – lab tour, Electronics parts working – observation – lab tour, Programming working – observation – lab tour
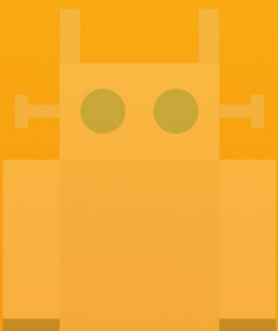
ROBOT- ELECTRONICS

Learning Outcome & Projects

Making your First Circuit, Battery / Power, Light, Buzzer, Dimmer, Switch, Push button, Motor, Copy, High Speed Motor, Wire, Connectivity, Limit switch

CLICK HERE FOR COURSE REGISTRATION

ROBOT - MECHANICS

Learning Outcome & Projects

Off-road 4 wheel car & Buggy race car, Armour vehicle, High speed Sport Car, Military Helicopter, Scissor lift vehicle, Tractor, Bat Man mobile Bike, Fighter jet, Giant wheel, Aerodynamic car, Dipper truck, Humanoid model, Truck model, Helicopter adv, Humanoid robot, Pet robot, Complex truck rotating, Car with steering wheel, Small JCB, Crane robot, Road roller robot, Towing truck robot
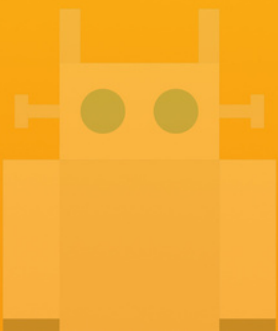
ROBOT - CODING

Learning Outcome & Projects

Say Hello To Robot, Lights Display Fun, Fun With Music, Play Time, Introduction To AI, Weather Monitoring System, Waste Management System, Road Safety, Home Automation System, Fun With Robotics, Line Following Robot, AI Delivery Bot, Robot Pet, Waste Collector Bot

CLICK HERE FOR COURSE REGISTRATION

DRONES

Learning Outcome & Projects

Begin With Paper Planes, Introduction To Drones, History Of Drones, Types Of Drones, Applications Of Drones, Future Applications Of Drones, Controls Of An Airplane, Controls Of A Drone, Drone Piloting Observation
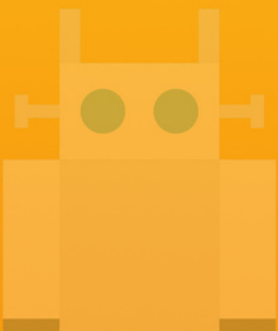
3D - PRINTING

Learning Outcome & Projects

What is 3D printing?, History of 3D printing, The use of 3D printing, 3D PRINTING TECHNOLOGIES, Getting a 3D model, Online libraries and 3D hubs, 3D modelling software, Modelling activities Using 3D pen

CLICK HERE FOR COURSE REGISTRATION

RoboSmart Labs
REDEFINING ROBOTICS EDUCATION

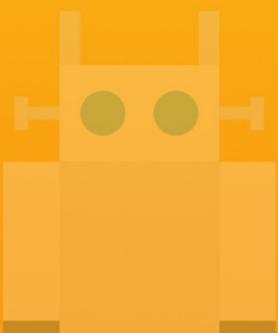## 3D - PRINTING

Learning Outcome & Projects

What is 3D printing?, History of 3D printing, The use of 3D printing, 3D PRINTING TECHNOLOGIES, Getting a 3D model, Online libraries and 3D hubs, 3D modelling software, Modelling activities Using 3D pen, Modelling in a 3D software, Safety of 3D printers, Handling a 3D printer, Setting up for printing, Emergency handling, Finishing process

HUMANOID

Learning Outcome & Projects

Introduction to Humanoid Robotics
Safety on Humanoid parts motors, battery care & Charging, Parts of Humanoid, Construction of Humanoid, Piloting of humanoid, Movements

CLICK HERE FOR COURSE REGISTRATION

RoboSmart Labs
REDEFINING ROBOTICS EDUCATION

VIRTUAL REALITY/ AR - EXPERIENCES

Learning Outcome & Projects

Getting familiar with VR and VR hardware, Safety Regulations, Develop 3D creation skills, Play mode, Gyro mode, VR (Virtual Reality) mode & AR (Augmented Reality) mode, 360˚ tours and Virtual exhibitions

CODING - COMPUTER SCIENCE / TECHNOLOGY

Learning Outcome & Projects

Creative computers – Introduction to Programming languages, How Coding in Scratch works, Getting Scratch with Coding – The Scratch interface, Character, Backdrop, Costume Creation, Art creation and Animation Creation, Playing Sounds and Displaying Chat!, Game development

CLICK HERE FOR COURSE REGISTRATION