

RoboSmart Labs

REDEFINING ROBOTICS EDUCATION

25 Hour Course - Option 2

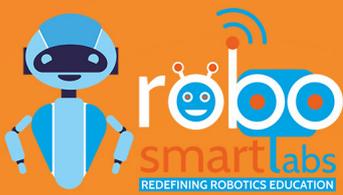
Course code: RSL0L25B02



ROBOTRONICS WITH TINKER CAD / SCRATCH CODING / ANIMATION – GAME DEVELOPMENT / AI / ML
(BEGINNER – GOOD FOR 3-5 GRADES)



INTERACTIVE LIVE COURSE SERIES



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ROBOTRONICS

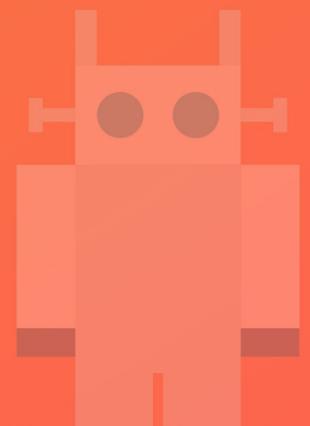
Learning Outcome

Introduction to Robotics, What is Robot ?, Classification of Robot, Robots in Real life, Basics of Electronics & Terminologies, Parts of Robots, What is power supply Voltage, Current, Resistance, What is a Circuit, Types of circuits, Types of power Supply and Batteries, AC and DC, Safety in Electronics, Basic Electronics Circuit, Led connection, Interfacing a switch, Controlling Brightness of an LED, Buzzer Connection

Projects

Normal Led connection, Series connection, Parallel Connection, Make or break a circuit, Push button switch, Momentary or reset switch, Potentiometer, Led Brightness Control, Normal Buzzer Connection, Interfacing buzzer with switch, DC MOTOR for FAN, Two wheeled Robot

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SCRATCH CODING

Learning Outcome

Creative computers - Introduction to Programming languages, How Coding in Scratch works, Getting Scratch with Coding - The Scratch interface, Character, Backdrop, Costume Creation, Art creation, Animation Creation, Playing Sounds, Displaying Chat!, Story telling Once Upon a Time How, Game development

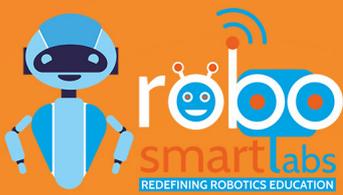
Projects

Cat Art, Dino Dance Party, Animal Race, Ask Gobo, Funny Faces art, Birthday Card, Spiralizer, Fantastic Flowers, Jumping game, Catching Game, Down the River, Monster Maze, Penguin Bobsled Cross, Color Bounce, Racetrack,

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AI AND ML BASIC

Learning Outcome

Introduction to AI and ML, Classification of AI, AI Examples in Real life, Software required, Interface of Software, Basic commands in AI & ML, Adding modules, Linking software with libraries, Text Learning, Sound Learning, Image Learning

Projects

Create your own face expression detection, Create your own ALEXA, Sorting the photos, Alien Bug Shooter GAME, Is the Glass half-EMPTY or half-FULL?, Automatic Image Sorter SYSTEM, Pac-Man GAME, Create CHATBOT, Sherlock Detection Investigation, School Journey with AI, Travel with Your own BOT, Postal Office image sorter System, Zombie Escape, Create your own spy, Control an Alien by your Secret message

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