

COURSE OVERVIEW



This 3-month course equips teachers and parents with the knowledge and skills to teach robotics to children using Scratch, Tinkercad, Arduino, and 3D modelling. The course is structured into three independent modules, ensuring accessibility regardless of prior experience. Each week consists of an online session, a practical project, and a short quiz to reinforce learning.

Objectives

- Introduce teachers/parents to robotics as a STEM teaching tool
- Understand the basics of block based programming
- Basics of electronics
- Using 3D modelling to design 3D printing model

Lesson Plan

- Month 1: Scratch Programming & Electricity Basics: Scratch Programming & Electricity Basics
- Month 2: Electronics & Arduino with Tinkercad
- Month 3: 3D modelling & 3D printing including project



Course Format

- Online learning platform
- Weekly live sessions
- In-person Workshops (optional, charged separately)



Software used

- Scratch
- TinkerCAD
- Arduino
- Creality Print



Requirements

- Laptop or computer
- Robotics kit (optional, charged separately)
- Internet connection

