CodaBot™

code the future today

CodaBot™ is a coding course series that offers a concrete foundation of logical and computational thinking to children of all ages – raising a generation of future thinkers.

3 education goals

1. knowledge
2. skills
3. confidence

4 learning outcomes

1. knowledge of coding language and IoT
2. problem solving
3. creativity
4. persistence

MIT APP INVENTOR · pluto blocks · SCRATCH · micro:bit · python · ARDUINO

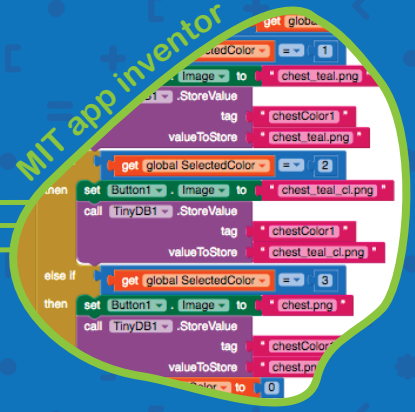
name

contact

CodaBot™ courses are
designed to educate and entertain.

Edu-tainment fit for all ages.

MIT app inventor



LEGO

Scratch programming

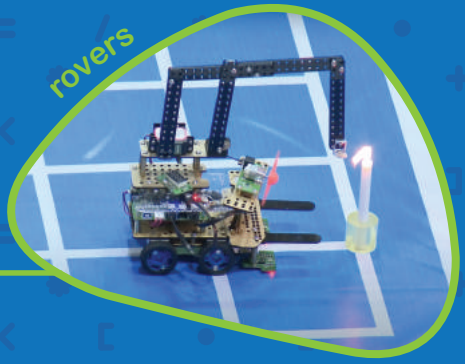
virtual and augmented Reality

smart home

robots

drones

rovers



minions

Courses for Kindergarten

Little learners discover the most basic building blocks for coding with CodaBot™ courses and familiar tools.

course	highlight
Desktop Wizard Coding 10 weeks	• logical thinking to control tailor-made robots • encourage thought to solve game-like missions and problems • does not require reading and writing
Electronic Block Coding 10 weeks	• turn programming languages into physical parts • build scenes and environments • connect key components and logic circuits to artificial intelligence

Courses for
Lower Primary

Start coding early with CodaBot™ courses designed at the intersection of fun and learning.

Introductory Courses

course	highlight
LEGO blocks + Intro to Scratcth 4 + 8 units	• fine motor skills and spacial awareness • creativity, experimentation and visual programming • collaboration and social skills • systematic reasoning
Basic and Intermediate Scratch 12 weeks	• computational fluency • subject-wide integration • building blocks for coding
Scratch + MIT App Inventor 2 12 weeks	• 6-week Scratch + 6-week MIT AI2 • collaboration and social skills • understanding visual programming on Scratch and App Inventor 2

Advanced Courses

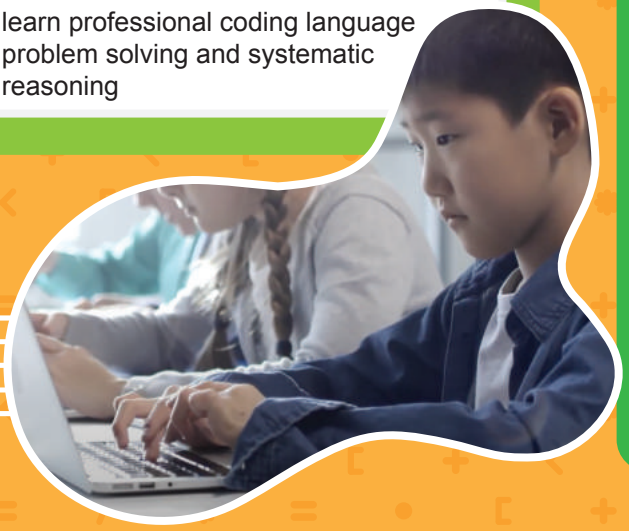
course	highlight
MIT App Inventor 2 + robot command 12 weeks	• mobile app creation • robotic coding to control • compete internationally from home
Scratch AIoT + Intro to Smart Home 12 weeks	• Scratch and sensor integration • model assembly • understand smart home automation
Coding to Control – Pluto 1.2 Drone 12 weeks	• aerospace science and engineering concepts • drone coding to control • model assembly

Courses for Upper Primary

Take coding to the next level for your children with practical application and hands-on projects.

Introductory Courses

course	highlight
MIT App Inventor 2 + robot command 12 weeks	• mobile app creation • robotic coding to control • compete internationally from home
MIT App Inventor 2 + Python Turtle 12 weeks	• mobile app creation • learn professional coding language • Python concepts and turtle commands
Scratch + Python Turtle 12 weeks	• 6-week Scratch + 6-week MIT AI2 • learn professional coding language • problem solving and systematic reasoning



Advanced Courses

course	highlight
MIT App Inventor 2 Advanced 10 weeks	• mobile app with AI features • intergrate AI + IoT and elctronic platforms like Arduino and mirco:bit • intergrate app with TinyDB (local) or Cloud Storage
Coding to Control – Rover Robotic Car 10 weeks	• coding and engineering • hands-on and project-based learning • smartcar principles
3D Design 12 weeks	• understand 3D printing technology • basic concept like 3D drawing, remixing and 3D scanning • VR and AR development
Basic and Intermediate Smart Home 12 weeks	• coding, electronic and IoT integration • assembly and experience “Smart Home” • connect to Arduino with Google assistant and Alexa
Ai Literacy 10 weeks	• machine learning • voice recognition • facial recognition • culminating project with application of principles
Coding to Control – Pluto X Drone 12 weeks	• aerospace science and engineering concepts • drone coding to control • model assembly integrated with sensor modules • learn Cygnus language
Virtual and Augmented Reality 12 weeks	• VR and AR development • design, test and implement VR • build virtual reality worlds

Courses for Secondary

Apply core concepts and skills to practical application and scenarios with CodaBot™ courses that prepare coders for the real world.

Introductory Courses

course	highlight
MIT App Innovator 2 Advanced 10 weeks	• intergrate AI + IoT and electronic platforms like • Arduino and mirco:bit with mobile app • intergrate apps with TinyDB (local) or Cloud Storage
Coding to Control – Rover Robotic Car 10 weeks	• coding and engineering • hands-on and project-based learning • smartcar principles
3D Design 12 weeks	• understand 3D printing technology • concepts like 3D drawing, remixing and 3D scanning • VR and AR development
Intermediate Smart Home 12 weeks	• coding, electronic and IoT integration • assembly and experience “Smart Home” • connect to Arduino with Google assistant and Alexa
Ai Literacy 10 weeks	• machine learning • voice recognition and facial recognition • culminating project with application of principles
Coding to Control – Pluto X Drone 12 weeks	• aerospace science and engineering concepts • drone coding to control and learn Cygnus language • model assembly integrated with sensor modules
Virtual and Augmented Reality 12 weeks	• VR and AR development • design, test and implement VR • build virtual reality worlds

Advanced Courses

course	highlight
Intermediate AI 12 weeks	• machine learning • voice recognition and facial recognition • culminating principle application project
Smart Home – Pet and Aquarium 12 weeks	• coding, electronic and IoT integration • assembly and experience "Smart Home" • control animal living environments
Hydroponics 12 weeks	• monitor seed to plant conditions • optimize conditions and nutrients • test and evaluate split test results
CIE Course 12 weeks	• knowledge for CIE exam level 1-3 • mock exam for CIE level 1-3
Microsoft Certificates 12 weeks	• knowledge for Microsoft certification • mock exam for Microsoft certification
MIT AI2 Level 1 Certificates 12 weeks	• knowledge for level 1 certificate • mock exam for level 1 certificate

We suggest taking at least one Introductory Course before taking Advanced Courses.