

RoboSmart Labs

REDEFINING ROBOTICS EDUCATION

25 Hour Course - Option 4

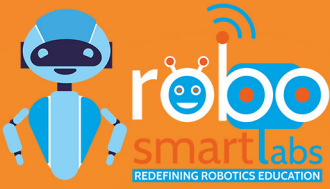
Course code: RSL0L25A02



**CODING (HTML-PYTHON-JAVA) /APP – WEB –
GAME DEVELOPMENT**
(ACHIEVER – GOOD FOR GRADE 6-9)



**INTERACTIVE LIVE
COURSE SERIES**



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ADVANCE APP DEVELOPMENT

Learning Outcome

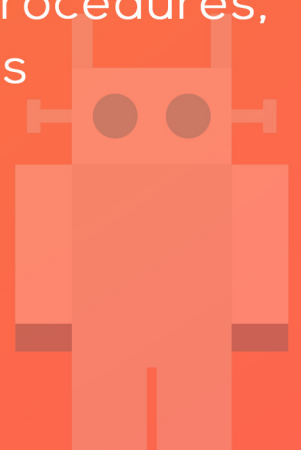
Mobile Android Application development – Java, Software Application, Mobile Application, SDLC, Layout, The App Inventor Environment 2, Designing the Components 3, Adding Behaviours to the Components 8, Packaging the App for Downloading 14, Sharing the App, Adding sound, Images, Videos, Web pages, Speech Recognition, Gps sensor, Camera, Accelerometer, Start / Stop timer movement, Movement with sensors, Multiple screens

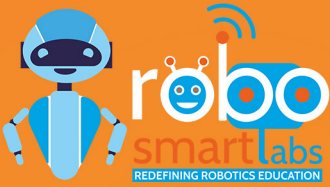
Projects

Building Apps with App Inventor, App Inventor and Event-Driven Programming, Fruit Loot: Creating a Simple Animated Game, Multiplication Station: Making Decisions with Code, Beat the Bus: Tracking Location with Maps and Sensors, Tic Tac Toe: Using Loops to Create a Game, Multiplication Station II: Reusing Code with Procedures, Virtual Shades: Drawing and Dragging Images

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WEB DEVELOPMENT BASIC HTML

Learning Outcome

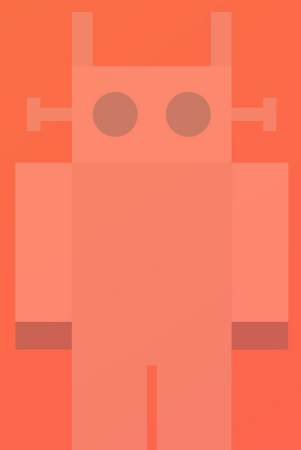
Basics of HTML, Doctype, Start and End Tags, Elements within the Head Element, Elements within the Body Element, Elements for Adding Content to the Page, Elements Used in Conjunction with CSS, Elements for Adding JavaScript Code to Website, Elements for Formatting Text, Elements for Defining Sections of a Webpage, Comments, Character Entities

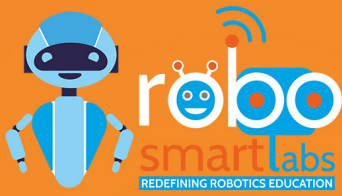
Projects

Creating HTML files, Opening a .HTML File, Designing a Basic web page, Underlining, Monospace, and Other Text Changes, Specifying Font Sizes, Colors, and Faces Applying Logical Styles, Designing a advance web page

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BASIC – PYTHON PROGRAMMING (GAME DEV)

Learning Outcome

What is coding?, Meet Python, Installing Python, Using IDLE, Your first program, Variables, Making decisions, Loopy loops, Animal Quiz, Functions, Fixing bugs Modules

Projects

Password Picker, Nine Lives, Turtle Graphics, Robot Builder, Kaleido-spiral, Starry Night, Mutant Rainbow, Playful Apps, Countdown Calendar, Ask the Expert, Secret Messages, Screen Pet, Games in Python, Caterpillar, Snap, Matchmaker, Egg Catcher

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