



STEM HERO

WITH VIRTUAL ROBOTICS TOOLKIT

LESSON ONE

- Robotics introduction
- Types and uses of robots
- History of robotics
- MINDSTORMS robotics
- MINDSTORMS EV3 hardware

LESSON TWO

- Basics of VRT
- Virtual Robotics Toolkit UI
- Keyboard control in VRT
- Programming Exercise 1
- Algorithms and Programming

LESSON THREE

- Labview EV3-G software UI
- Basics of EV3-G programming
- Using EV3-G software with VRT
- EV3-G Action Blocks
- Programming Exercises 2&3

LESSON FOUR

- Programming Exercise 4
- Basics of LDD
- LDD Build mode UI & controls
- Building tools
- Importing LDD Models in VRT

LESSON FIVE

- EV3 Brick tools in VRT
- EV3-G Flow Blocks
- Programming Exercises 6,7,8
- Useful tools in VRT

LESSON SIX

- Programming Exercises 9,10
- Data Wires
- EV3-G External Sensor Blocks
- Programming Exercises 11,12

ADDITIONAL TOPICS:

- EV3 Sensors structure
- EV3-G Internal Sensors Blocks
- LDD Building Exercise

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