

# STEM HERO DELUXE

MICROSOFT MAKECODE EDITION

Robots Got Talents™  
Classroom Courses

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<https://www.robotsgottalents.com/>  
<https://www.facebook.com/RobotsGotTalents/>  
[https://www.instagram.com/robots\\_got\\_talents/](https://www.instagram.com/robots_got_talents/)

## THIS COURSE CONTAINS:

- Robots Got Talents Student Zone
- Robots Got Talents Teacher Zone
- Microsoft MakeCode Mini Book
- MINDSTORMS FOR BEGINNERS Book V3
- Advertising Material, Logos and Handouts
- Robots Got Talents Certificates Template
- STEM HERO Deluxe Lesson Plan

And much more



## COURSE INTRODUCTION

### STEM HERO DELUXE CLASSROOM COURSE

STEM HERO Deluxe with Virtual Robotics Toolkit is a Classroom Course by Robots Got Talents™ for Elementary and Middle school students. Throughout this course participants will learn about Robotics, Programming and Artificial Intelligence as They Design and Program their on-screen MINDSTORMS EV3 Robots using Virtual Robotics Toolkit, LEGO DIGITAL DESIGNER and MICROSOFT MAKECODE. This Course includes all needed material to produce the best course experience for Students and Teachers;

**Student Zone** containing Topic by Topic Presentations, Guides in addition to eight MINDSTORMS EV3 LEGO DIGITAL DESIGNER and Microsoft MakeCode Activities.

**Teacher Zone** including the Robots Got Talents MAKECODE MINI BOOK and MINDSTORMS FOR BEGINNERS BOOK, external quizzes, , Advertising Material, Course Lesson Plan and Teacher Guides.

STEM HERO DELUXE Classroom Course consists of seven lessons that cover all the topics and activities mentioned in the next page.

## LESSON ONE:

- Robotics Introduction
- Robots characteristics
- Robots Uses & Types
- LEGO MINDSTORMS Introduction

## LESSON TWO:

- Main MINDSTORMS EV3 Pieces
- MINDSTORMS EV3 Building Pieces
- VRT User Interface & Remote Control
- Exercise One
- Introduction to Algorithms and Coding

## LESSON THREE:

- Microsoft MakeCode Programming
- Microsoft MakeCode UI
- Motor Blocks
- Exercise Two
- Exercise Three

## LESSON FOUR:

- Brick Blocks
- LEGO DIGITAL DESIGNER Basics
- LDD Modes
- LDD Controls
- LDD Exercise One

## LESSON FIVE:

- Sensor Blocks
- Exercise Four
- Exercise Five
- VRT Attachment Manager

## LESSON SIX:

- Loop Blocks
- Exercise Six
- Port View in VRT

## LESSON SEVEN:

- LDD Exercise 2
- Importing Designs to VRT
- Course Quiz



**STEM HERO**  
MICROSOFT MAKECODE EDITION



Virtual  
Robotics  
Toolkit



## HOSTING THE COURSE

### STEM HERO DELUXE

#### Step One:

Any school or educational organization with +10 students could simply host any of Robots Got Talents Courses or Camps courses by filling the Signup form Available in the Website and within 48 hours you will receive the chosen course login password via mail.

#### Step Two:

After receiving your login password, Open the teacher zone and download the lesson Plan, books, presentations and premade advertisements. Robots Got Talents also offer a free PDF version of Robots Got Talents MakeCode Mini Book and MINDSTORMS FOR BEGINNERS Book V3 for all course participants (don't forget to print it).

#### Step Three:

The next step is opening the Students Zone, The Student zone is a lesson by lesson plane made by the course developers guide the participants throughout the course.

#### Tips for hosting your first Robots Got Talents Classroom Course:

<https://www.robotsgottalents.com/post/hostingclassroomcourses>

## What should you include in your Classroom

To produce the best Experience for the course participants you should have the following items:

- Computer/laptop for each Course participant that have access to Robots Got Talents Website
- Internet access
- Teacher PC that have access to the MakeCode Website and Robots Got Talents Platform
- LEGO® MINDSTORMS® For Beginners Book & MakeCode MiniBook (PRINTED)
- Printable Course Quiz (Optional)
- LDraw Software (free) , Lego Digital Designer (free) Software on all Computer Devices
- Virtual Robotics Toolkit (15 days free trail / Full Version)



## DISTANCE EDUCATION STEM HERO DELUXE COURSE

### Step One:

Choose one of Robots Got Talents classroom courses, and fill the course sign up form

### Step Two:

After receiving the login passcodes via mail, send the Student Zone Passcodes privately to your students.

### Step Three:

Choose a video conference software and allow screen sharing ( Top 3 Video Conferencing Software in 2020 according to [g2.com](https://g2.com) 1. Zoom 2. Cisco Webex Meetings 3. Skype. )

### Step Four

Open the Teacher Zone from the Robots Got Talents Website and ask the course participants to open the Student Zone Start the course with your students you can use the screen sharing feature if needed.

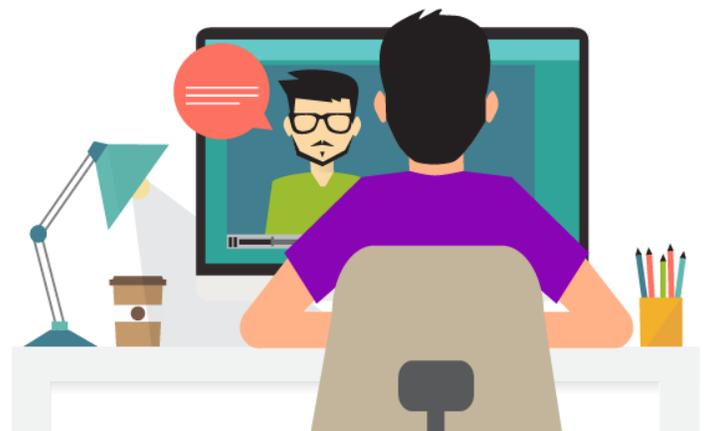
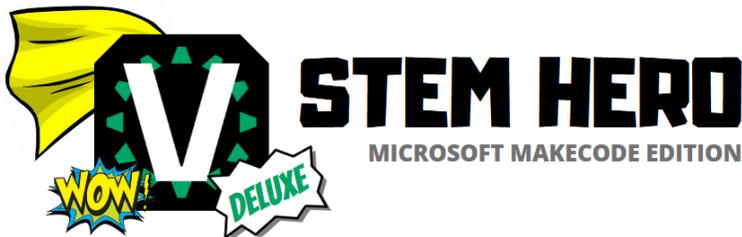
### Step Five

Send Additional Documents from the Teacher Zone to your Students, as books, course documents, lesson plan, and Student handouts, to help them throughout the course.

### Step Six

Follow the Lesson Plan and make sure to download all the software/s needed before starting the first session, and ask your Students to do so.

For any help please read: <https://www.robotsgottalents.com/post/robotsgottalents-distanceeducation> or contact [info@robotsgottalents.com](mailto:info@robotsgottalents.com) , [robotsgottalents@yahoo.com](mailto:robotsgottalents@yahoo.com)



### Important Notes:

Robots Got Talents want to ensure that everything in the course is working probably so each session the course directors are advised to send **minimum of 3 photos** that shows that everything working probably.

The person filling the form will be registered as a national course director; if the organization is willing to change the course director they must send a mail to [robotsgottalents@yahoo.com](mailto:robotsgottalents@yahoo.com) or [info@robotsgottalnets.com](mailto:info@robotsgottalnets.com)

## TERMS & CONDITIONS:

### Robots Got Talents 2020, 2021

- Organizations using the course are **not allowed** to use course guides, presentations or logos in any other course, camp or challenge
- Each time the organization wants to repeat the course they **must** refill the Course Registration form
- You are **not allowed** to share or give the course to any other organization without Robots Got Talents permission.
- You are **allowed** to use this course for commercial uses with including Robots Got Talents name.
- All students **must** be given Robots Got Talents course certificate
- National Course directors **must** send 3 photos each day in the course to show that everything is good.
- You are **not allowed** to edit course presentations or guides
- By starting the STEM HERO DELUXE Classroom Course you agree on all Robots Got Talents terms and conditions.
- For publishing any of the courses photos on social media you may tag Robots Got Talents or use the hashtags (#robotsgottalents & #Robots\_Got\_Talents)

All teachers using Course the form must use the Robots Got Talents Course Plane. Organizations are allowed to add extra lessons for graduations or course introduction.

Organizations are allowed to use this course for commercial uses **with** including Robots Got Talents name but they are not allowed to sell the course or the course resources. Read the Terms and Conditions for further information.



FEEL FREE TO CONTACT US ANY  
INQUIRES OR RECOMMENDATIONS