SUMOBOT

VIRTUAL ROBOTICS TOOLKIT EDITION

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THIS COURSE CONTAINS:

- ❖ Robots Got Talents Student Zone
- ❖ Robots Got Talents Teacher Zone
- ❖ MINDSTORMS® For Beginners Book
- ❖ Advertising Material
- ❖ Virtual Robotics Toolkit & Lego Digital Designer Extra Sheets
- ❖ Certificates for all participants
- ❖ SumoBot Lesson Plan

And much more

Course Introduction
SUMOBOT CLASSROOM COURSE

SumoBot (Virtual Robotics Toolkit Edition) is an Elementary / Middle school classroom course by Robots Got Talents. Throughout the course participants will learn about robotics, mechanics and programming as They Design, Build and Program On-screen LEGO MINDSTORMS EV3 Robots using Lego Digital Designer and Virtual Robotics Toolkit to win real Robotics Sumo Matches. This Course contains all needed material to produce the best course experience for Students and Teachers, Student Zone containing Topic by Topic Presentations, Guides and LEGO® MINDSTORMS® Activities with video tutorials, Teacher Zone containing Course Book, presentations, quiz answers, Advertising Material, lesson plan and teacher guides.

SumoBot Classroom Course consists of 8 main lessons that cover all the topics and activities mentioned in the next page.

Good Luck Everyone,

Topics Covered:
カバーするトピック：

Lesson One:

- Robotics Introduction
- Robots characteristics
- Robots Uses & Types
- Lego Mindstorms Introduction (EV3 & NXT)
- Sumo Introduction/History

Lesson Two:

- Main Mindstorms Pieces (Main + Technic)
- Programming Robots & Blocks
- VRT User Interface & Remote Control
- Exercise One

Lesson Three:

- Action Blocks
- Exercise Two
- Lego Digital Designer Modes & Controls
- Importing LDD Models
- LDD Exercise One

Lesson Four:

- Exercise Three
- Flow Blocks
- Attachment Manager
- Exercise Four

Lesson Five:

- Exercise Five
- Port View
- Exercise Six
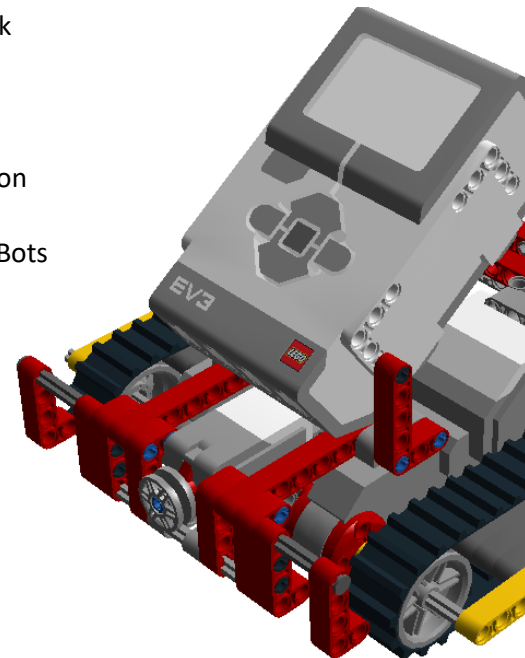- Sensor Blocks

Lesson Six:

- LDD Exercise Two
- Exercise Seven
- Speed and Torque
- LDD Exercise Three

Lesson Seven:

- Wheels and Bases
- Center of mass
- Sumo Matches Break
- Building SumoBots

Lesson Eight:

- Programming Revision
- Tournament Rules
- Programming SumoBots
- Final Matches

Hosting the course
相撲ロボットコース

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 form Available in the Website and within 2 days 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 the Lego Mindstorms for Beginners book and LDD & VRT extra sheets 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

What should you include in your Classroom

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

- Computer/laptop for each Course participant that have access to Robots Got Talents Website

- Internet access

- Teacher PC that have access to LEGO® MINDSTORMS® Ev3 Software and Robots Got Talents Website

- Additional Materials as Projector, Tablets

- LEGO® MINDSTORMS® For Beginners Book & Extra Sheets (PRINTED)

- Quiz Printed (Optional)

- LDraw Software (free) , Lego Digital Designer (free) Software on all Computer Devices

- Virtual Robotics Toolkit (15 days free trail / Full Version)

Online Teaching

相撲ロボットコース

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 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 softwares needed before starting the first session, and tell your Students to do so.

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

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.

Terms & Conditions:
Robots Got Talents 2020, 2021

- **Organizations using the course are <u>not allowed</u> to use course guides, presentations or logos in any other course, course or challenge**

- **Each time the organization wants to repeat the course they <u>must</u> refill the form**

- **You are <u>not allowed</u> to share or give the course to any other organization without Robots Got Talents permission.**

- **You are <u>allowed</u> to use this course for commercial uses with including Robots Got Talents name.**

- **All students <u>must</u> be given Robots Got Talents course certificate**

- **National Course directors <u>must </u>send 3 photos each day in the course to show that everything is good.**

- **You are <u>not allowed</u> to edit course presentations or guides**

- **By starting the SUMOBOT course you agree on all Robots Got Talents terms and conditions.**

- **For publishing any of the courses photos on social media you must tag Robots Got Talents or use the hash tag (#robotsgottalents)**

FEEL FREE TO CONTACT US FOR FURTHER QUESTIONS