#### Welcome to NB theme!

Rulebook

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Task 1

### CoppeliaSim Tutorials

1A - Explore OpenCV

1B - Detect and Encode Maze

1C - Design Ball Balance Platform

Task 2 )
Task 3 )

Task 4 )
Task 5 )

Practice Task

Instructions for Task 6

Task 6 Scene Details

**Coding Standard** 

Git and GitHub

Live Session 1 - 24th October 2020

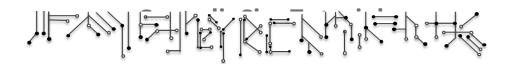
Live Session 2 - 21st November 2020

Live Session 3 - 12th December 2020

Live Session 4 - 10th January 2021

Changelog

# Task 1



eYRC 2020-21: Nirikshak Bot (NB)

### A. Getting started with CoppeliaSim - Part 1

- This video introduces the basics of CoppeliaSim software.
- Teams will learn about Features, User Interface, Pages, Views, Scenes, Camera Navigation, Position/Orientation Manipulation, Simulation Settings, Scripts, User Settings, Collections, Layers, Video Recorder, Scene Object Properties etc.

Getting started with CoppeliaSim: Part 1

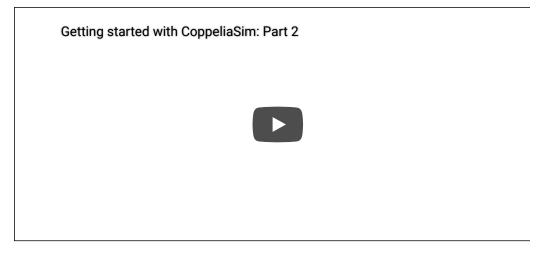
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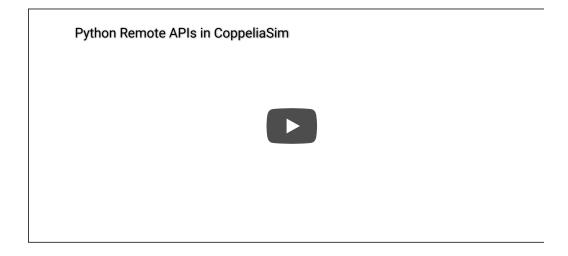
B. Getting started with CoppeliaSim - Part 2

- This video continues to teach about the basics of CoppeliaSim software.
- Teams will learn about Object Properties, Joints, Dynamic Properties, Force Sensors, Dummies Linked Dummies, Getting familiar with e-Yantra's Robotic Arm and much more.



# C. Python Remote APIs

• Teams will learn to control the e-Yantra's Robotic Arm in CoppeliaSim software using a basic Lua script and Legacy Python Remote API script.



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