

# **CONGRATULATIONS**

## **“DJS ANTARIKSH”**

*(The official Rover Challenge Team of DJSCE)*

for securing

**3<sup>rd</sup> position World-Wide**

in the

**European Rover Challenge (ERC 2020)  
(Poland)**

### Other Achievements of DJS Antariksh in the competition:

- Won the Best Science Planning award among all teams in ERC 2020.
- First ever Asian and Indian team to have made it in the Top 3 teams in the history of European Rover Challenge (ERC 2020).

#### Web links of the results:

The link to the competition website is: <https://roverchallenge.eu/en/main-page/>

The link to the prize distribution ceremony livestream: <https://youtu.be/6r6QyhBr7Bk>

We congratulate the entire team of students, Head of the Department, Dr. Amit Deshmukh and Faculty co-ordinator - Prof. Venkataramanan V. for these spectacular achievements.

We wish all of them the very best in their future endeavours as well.

Dr. Hari Vasudevan  
(Principal)

## Competition Summary

European Rover Challenge (ERC) is one of the best and prestigious Robotics competitions worldwide. It is the annual international Martian Rover competition attended by teams from around the world. The competition has been organized since 2014 in Poland and is held in the 2<sup>nd</sup> week of September annually. ERC 2020 was conducted from 11<sup>th</sup> – 13<sup>th</sup> September 2020.

DJS Antariksh was founded in January 2020 and ERC 2020 is the first ever competition in which the team participated. ERC 2020 was made virtual due to the COVID-19 pandemic and the events were conducted remotely.

The events were as follows:

- 1. Science and Navigation task:** The rover in Kielce University, Poland had to be controlled remotely. The rover had to reach 5 waypoints in the MarsYard (simulated Mars environment) and collect evidence for the science mission in a time limit of 40 minutes.
- 2. Maintenance Task:** The team had to control a 6-axis robotic arm and actuate a switch panel.
- 3. Presentation Task:** The team had to present the overall management approach during the pandemic.



**MarsYard Competition Arena**

# ***ERC 2020***



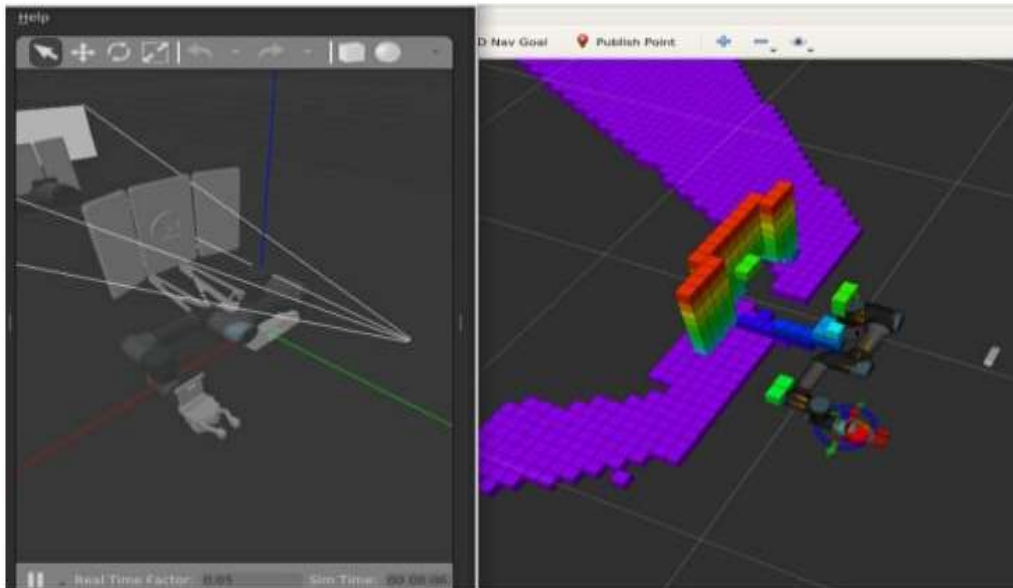
**DAY 1**

# ***ERC 2020***



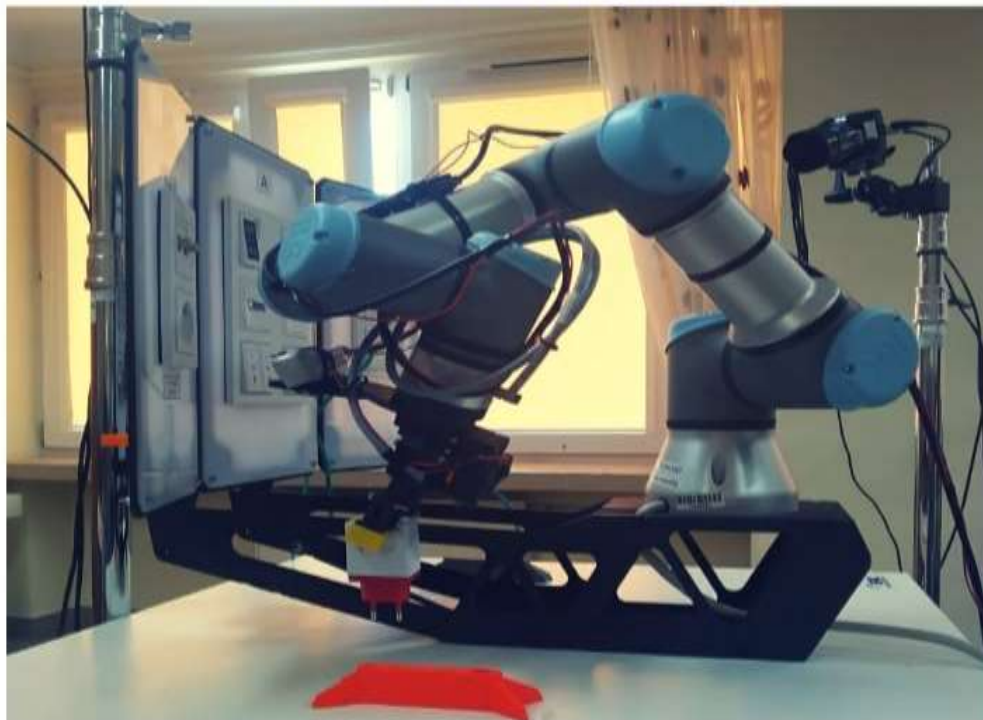
**SCIENCE & NAVIGATION TASK**

# ***ERC 2020***



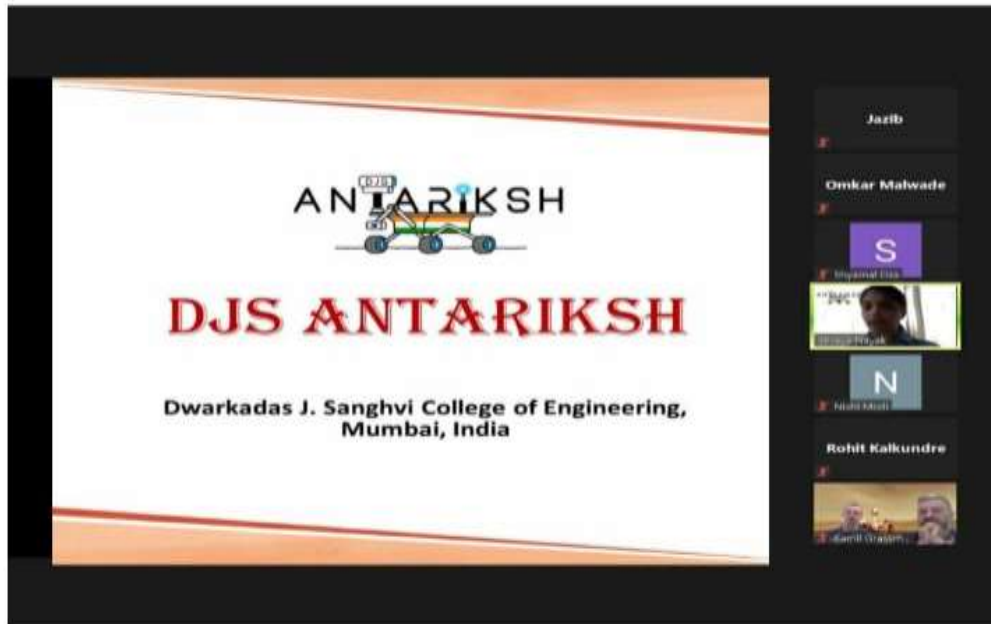
## **MAINTENANCE TASK**

# ***ERC 2020***



## **MAINTENANCE TASK**

# ERC 2020



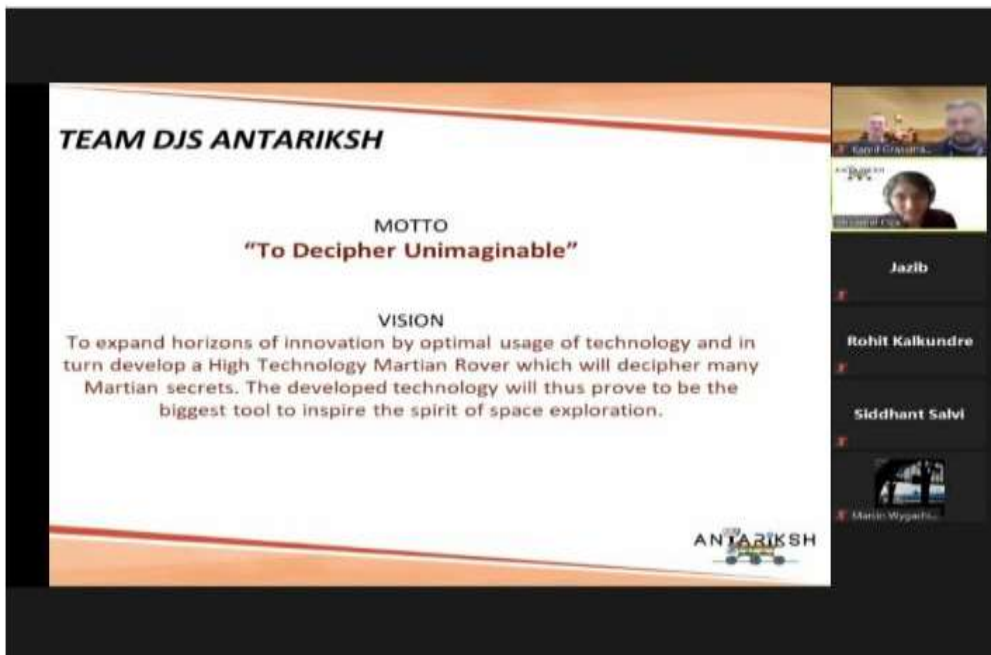
**ANTARIKSH**

**DJS ANTARIKSH**

Dwarkadas J. Sanghvi College of Engineering,  
Mumbai, India

Participants: Jazib, Omkar Malwade, S, N, Rohit Kalkundre, Kapil Gajjar, Siddhant Salvi, Manish Waghmare.

# DAY 2 ERC 2020



**TEAM DJS ANTARIKSH**

**MOTTO**  
"To Decipher Unimaginable"

**VISION**  
To expand horizons of innovation by optimal usage of technology and in turn develop a High Technology Martian Rover which will decipher many Martian secrets. The developed technology will thus prove to be the biggest tool to inspire the spirit of space exploration.

**ANTARIKSH**

Participants: Kapil Gajjar, Siddhant Salvi, Jazib, Rohit Kalkundre, Manish Waghmare.

# PRESENTATION TASK