

AGENCY

Phase D for Fly Your Satellite! third-cycle kicks off with online workshop

09/11/2021 841 VIEWS 13 LIKES

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In brief

Over 100 students from three teams of the third [Fly Your Satellite!](#) cycle – [AcubeSAT](#) (Aristotle University of Thessaloniki, Greece), [SOURCE](#) (University of Stuttgart, Germany), and [UCAnFly](#) (University of Cádiz, Spain) – have successfully completed their Phase D workshop. Held between 18 and 22 October 2021, the workshop was fully online due to the ongoing COVID-19 pandemic.

In-depth

Phase D is the verification and testing phase of [Fly Your Satellite!](#) It sees the participating university teams assemble, then integrate and verify the designs of their [CubeSats](#). The aim of this workshop was to prepare the teams for the upcoming Phase D milestones, encouraging best practices, and transferring know-how from the ESA experts to the students.

Given this workshop's online nature, the week began with a quiz to encourage students from different teams to mingle and interact, enhancing important social aspects. Then, it was over to a series of ESA experts to give lectures about Phase D. The topics covered were:

— Phase D workshop for the 3rd round of [Fly Your Satellite!](#)

- **Electromagnetic compatibility (EMC)**, which is the interaction between components and units in the electromagnetic spectrum. The teams will need to verify compatibility in order to minimise the risk of cross-talk or interference between components of their CubeSat.
- **Assembly, Integration and Functional Testing**, which gave the students a comprehensive overview of how to assemble their CubeSat, integrate all the components, and verify their functionality, in order to ensure that their resulting CubeSat will be fully functional.
- **Vibration testing**, which prepared the students for verification of the structural design of their CubeSat. Focus was given to the launch environment, which will put significant stress on the CubeSat as the launch vehicle accelerates it towards orbit.
- **Thermal testing**, which covered verification of the thermal design of the CubeSat and how to perform thermal testing.