



KAMARAJ IAS ACADEMY
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Two ISRO satellites dock successfully for the second time

Published On: 22-04-2025

Context

- The Indian Space Research Organisation (ISRO) has successfully executed the second docking of the two satellites — SDX01 (Chaser) and SDX02 (Target) — that are part of the **Space Docking Experiment (SpaDeX) mission**, Union Minister of State for Science and Technology Jitendra Singh said on Monday.
- Earlier this year, **India became the fourth country after the U.S., Russia, and China to conduct the docking experiment.**
- The **SpaDeX mission** is an important project by the ISRO.
- It is designed to develop and demonstrate the **technology needed for spacecraft docking, and undocking using two small satellites.**
- The demonstration of this technology is essential for future missions, such as **sending an Indian astronaut to the moon, returning samples from the moon, and the building and operation of an Indian space station.**
- The **other aims** of the mission include demonstration of the **transfer of electric power between the docked spacecraft**, which is essential for future applications, such as in-space robotics, composite spacecraft control, and payload operations after undocking