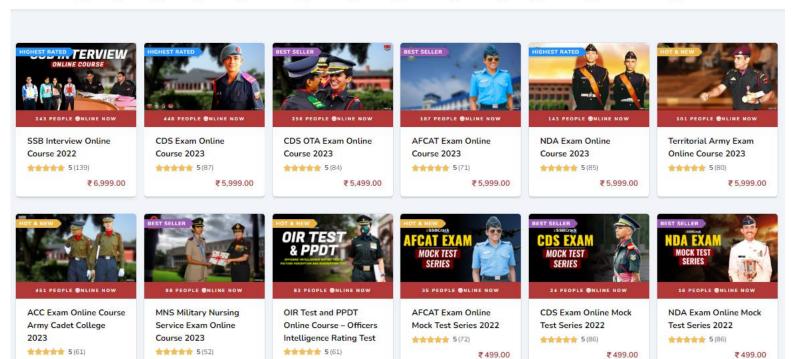


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ESA Space Telescope Euclid Is All Set For Launch To Observe 'Dark Side' Of Universe

Why In The News?

- The European Space Agency's Euclid Mission Has Reached A Significant Milestone As It Gets Fueled In Preparation For Its Upcoming Launch On A SpaceX Falcon 9 Rocket.
- The Spacecraft Is Planned To Launch On A SpaceX Falcon 9 Launch Vehicle From Cape Canaveral, Florida, USA, On 1st July 2023.



What Is ESA's Euclid Mission?

- ESA's Euclid Has Been Designed **To Explore The Composition And Evolution Of The Dark Universe,** Delving Into The Mysteries Of Dark Energy And Dark Matter.
- The Space Telescope Will Create The Most Comprehensive And Accurate 3D
 Map Of The Universe Ever Assembled, Spanning Vast Distances And Observing
 Billions Of Galaxies Up To 10 Billion Light-years Away, Covering Over One-third
 Of The Sky.

 By Studying The Expansion Of The Cosmos And The Distribution Of Large-scale Structures Across Space And Time, The Mission Will Provide Valuable Insights Into The Fundamental Nature Of Gravity, Dark Energy, And Dark Matter.



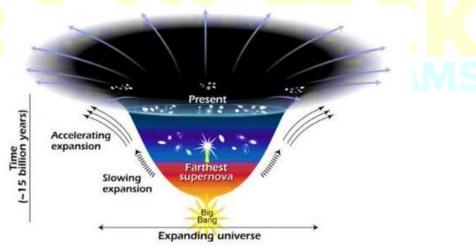


Aim Of ESA's Euclid Mission

The Main Goal Of The Euclid Mission Is To Study The Effects And Activities Of
 Dark Energy And Dark Matter - Both Of Which Are Considered Mysterious

 Forces In The Universe. This Is Because Neither Of These Two Materials Can Be
 Directly Seen Or Felt.



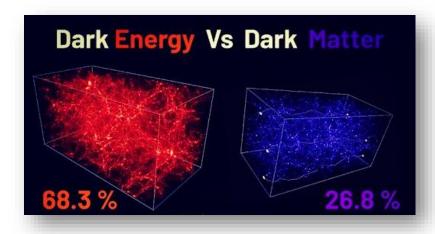


Why Is Study Of Dark Energy & Matter Important?

- **Dark Energy** Is An Unidentifiable Form Of Energy That Scientists Believe Is Responsible For Helping The Universe Expand. **Dark Matter** Is A Material That Also Affects The Expansion Of The Universe.
- Astronomers Have Theorized That Dark Matter Exists Because Of Gravity's
 Observed Effects On Galaxies And Groups Of Galaxies.
- Astronomers Believe Dark Energy Makes Up About 68 Percent Of The Universe,
 While Dark Matter Makes Up Around 27 Percent, The American Space Agency

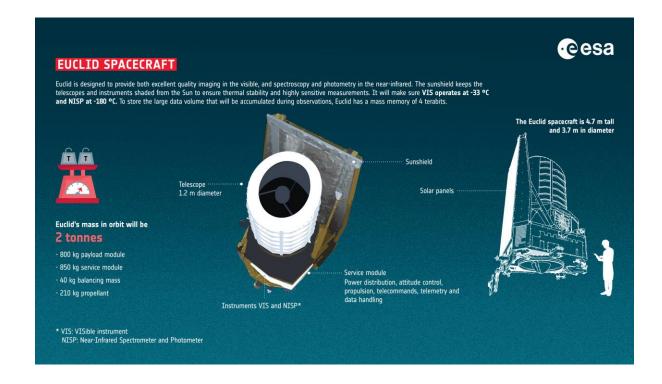
SSBCrack

NASA Reports. But Beyond That, Very Little Is Known About The Two "Dark" Elements.



About The Euclid Spacecraft

- The Euclid Spacecraft Is 4.7 Meters Tall And 3.7 Meters Around. It Contains Two
 Main Parts, Called Modules. One Module Is Made Up Of A Telescope And Two
 Scientific Instruments. The Other Contains Satellite Systems, Power Controllers,
 Data Processors And Other Equipment.
- Euclid Will Travel To An Orbiting Spot About 1.5 Million Kilometers From Earth.
 The Area Is Called The Second Lagrangian Point. This Is Where Nasa's James
 Webb Space Telescope And ESA's Orbiting Observatory Gaia Operates.



About The Launch

- Mission Leaders Say Euclid Will Capture Images In Optical And Near-infrared Light. The Images Will Cover About One-third Of The Universe Beyond Our Milky Way Galaxy.
- In Addition To Studying Dark Matter And Dark Energy, Euclid Will Use Its Infrared Instruments To Collect Data On Hundreds Of Millions Of Galaxies And Stars.
- Astronomers Say This Will Permit Them To Investigate The Chemical Makeup And Motion Behaviors Of Many Different Space Objects And Environments In Greater Detail.

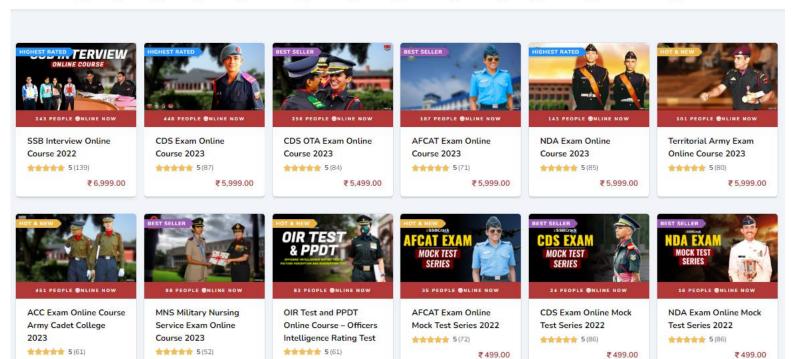






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