# SPACE TECHNOLOGY

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### IMPORTANT SPACE MISSIONS OF INDIA

- ARYABHATTA 1975
- APPLE
- ROHINI SERIES
- MICROSAT-R DRDO 2019 PSLV IMAGING SATELLITE-MILITARY PURPOSES
- KALAMSAT -STUDENT SATELLITE- LIGHTEST ONE MADE BY CHENNAI BASED SCHOOL GROUP
- GSAT 31 ARIANA 2019
- TELECOMMUNICATIONS FOR AUDIO, VIDEO, BETA BROADCASTING, VSAT NETWORK 15 YEARS LAND AND OCEAN COVERAGE
- GSAT 30 SIMILAR TO ABOVE

# SPACE MISSIONS OF INDIA

- EMISAT-DRDO AND ISRO
- RISAT 2 PSLV RADAR IMAGING, WEATHER SURVEILLANCE
- RISAT 2B WEATHER SURVEILLANCE DURING DAY AND NIGHT
- IRNSS NAVIC/GPS INDIA -7 SATELLITES
- RISAT 2BRI-PSLV-AGRICULTURE AND DISASTER MANAGEMENT
- CARTSAT -3- SERIES OF SATELLITES
- REMOTE SENSING / EARTH OBSERVATION/ MARINE
- CHANDRAYAAN 1 -2008 PSLV-ORBITOR MISSION(100 KM AROUND THE MOON)
- OBSERVATION OF MOON TOPOGRAPHY

#### SPACE MISSIONS TO MOON

CHANDRAYAAN-2 2019-GSLV III, ORBITER, LANDER, ROVER

SOUTH POLE OF THE MOON, SUPPOSED TO HAVE SOFT LANDING

CONTACT LOST AT 2 KMS FROM MOON-LANDER CRASHED

- USA, USSR, CHINA -SOFT LANDING
- 2024 JAVA
- TOPOGRAPHY, SEISMOLOGY, MINERAL IDENTIFICATION, SURFACE COMPOSITION, ATMOSPHERE ON MOON
- SCIENTIFIC EQUIPMENT ON ORBITER AND ROVER

# MARS ORBITER MISSION(MOM)

- MANGALYAN PSLV
- FIRST INTERLPLANETORY MISSION OF INDIA
- TO KNOW LIFE ON MARS, PHYSICAL FEATURES AND ATMOSPHERE
- FUTURE MISSIONS- ADITYA L1 MISSION 2020-ON LANGRAGIAN
- STUDY OF SUN'S OUTERMOST LAYERS
- WEATHER PREDICTION ON SUN

# GAGANYAN 2022

- MANNED SPACE MISSION OF INDIA
- GSLV III
- VYOMAMITRA-ROBO FEMALE AND 3 MALE ASTRONAUTS
- SHUKRAYAAN-TO KNOW ORIGIN AND SURFACE OF VENUS
- NASA- MAGNETOSPERIC MULTISCALE MISSION
- INTERPLANETORY TO KNOW ABOUT EARTH COLLISIONS
- TESS-TRANSITING EXOPLANET SURVEY SATELLITE
- TO FIND SUPER EARTH PLANETS 31 LIGHT YEARS AWAY
- HEBITABLE ZONE OR SOLDILOCKS ZONE

### NASA

- NASA- MAGNETOSPERIC MULTISCALE MISSION
- INTERPLANETORY TO KNOW ABOUT EARTH COLLISIONS
- TESS-TRANSITING EXOPLANET SURVEY SATELLITE
- NASA HAS DISCOVERED ITS FIRST EARTH SIZE PLANET IN ITS STAR'S HABITABLE ZONE
- TO FIND SUPER EARTH PLANETS 31 LIGHT YEARS AWAY
- HABITABLE ZONE OR GOLDILOCKS ZONE

- APOLLO 11 -ASTRONAUTS FIRST STEP ON MOON
- HUBBLE'S TELESCOPE-THE ASTRONOMICAL OBSERVATOR 350 KM AT 17000KM/HR
- VOYAGERS-SOLAR SYSTEM
- SPACE STATION- 400 KM-EQUAL TO FOOTBALL GROUND AS ON EARTH

# APPLICATIONS OF SPACE TECHNOLOGY

- AGRICULTURE- CROP ESTIMATION, CROP FORECAST, WATER LAND RESOURCES, PEST IMPACT, SOIL MAPPING, DROUGHT PREDICTIONS
- RENEWABLE ENERGY-POTENTIAL AREAS FOR ENERGY INSTALLATIONS
- FOREST/ENVIRONMENT-WETLANDS, SNOW GLACIERS, HYDROLOGY, BIODIVERSITY, FIRE
- GEOLOGY/GEOMORPHOLOGY-MINERAL EXPLORATION
- GOVERNANCE-HOUSING, WATERSHED, HERITAGE SITES

# APPLICATIONS OF SPACE TECHNOLOGY

- LAND RESOURCE MANAGEMENT-MAPPING
- OCEAN SCIENCES, RURAL DEVELOPMENT,
- URBAN DEVELOPMENT- CARTOSAT-2
- WEATHER OBSERVATION-
- AIR TRAFFIC, DEFENCE NEEDS