

গবেষণার অগ্রাধিকারপ্রাপ্ত ক্ষেত্রসমূহের বিবরণ:

Space Science and Technology Development	Satellite Constellation, Small Satellite, Payload, Satellite Communication, Spacecraft Materials, Rocketry, Propulsion, Aerodynamics, Aerospace, Signal & Image Processing, Space Robotics, Space Mining, UAV, Rover, Big Data, ML, AI, GNSS, Renewable Energy, Space Weather & Orbital Parameters, Astronautics and Spaceflight, etc.
Astronomy and Astrophysics	Astronomy, Astrophysics, Theoretical Astrophysics, Solar Physics, Cosmology, Solar System, Planetary Sciences, Upper Atmosphere & Magnetosphere, Astrobiology, Radio Astronomy, Space Observation and Astrophotography, Exoplanet Research, High-Energy Astrophysics, Computational Astrophysics & Simulations.
Application of Space Science and Technology (Remote Sensing & GIS)	<ol style="list-style-type: none"> <li>1. <b>Food Security</b> (Development of Crop Calendar using Geospatial Data, Seasonal Crop Monitoring, Crop Information Science, etc.)</li> <li>2. <b>Water Resources</b> (River Monitoring, Surface Water Modelling, Inland Water Monitoring, Water Quality Assessment, etc.)</li> <li>3. <b>Fisheries</b> (Surface Water Dynamics/ Seasonality, Wetland (e.g. Haor, Beel, Lake) Ecosystems, Impact of Environmental Dynamics and Hydro-meteorological Disasters on Inland Fisheries Habitat and Agriculture, LiDAR data Application on Water and other Land Features, Inland Fisheries Area Detection, Fisheries Inventory, etc.) (proficiency in scientific programming for geospatial data analysis is preferable)</li> <li>4. <b>Blue Economy, Oceanography</b> (Coastal &amp; Marine Resources, Coastal Zone Dynamics, Potential Fishing Zone, etc.)</li> <li>5. <b>Forestry</b> (Urban Forest Mapping, Artificial Intelligence in Forest Monitoring, Forest Structure Mapping with LiDAR data, Change Analysis in the Sundarbans Mangrove, Estimation of Forest Variables using Geospatial Data, Automated Tidal Mudflat Mapping, Land Use and Land Cover Mapping Using Big Geospatial Data Analysis, Agroforestry.)</li> <li>6. <b>Geology and Earth Science</b> (Tectonic and Crustal Deformation Monitoring, Hydrogeology and Groundwater Assessment, Geohazard Monitoring, Geomorphology and Basin Analysis, Mineral and Hydrocarbon Exploration, Planetary Surface Mapping, Lithological and Structural Mapping.</li> <li>7. <b>Environmental Studies</b> (Geo-biodiversity Assessment, Vegetation Monitoring, Web GIS, Land Surface Temperature, Urban Heat Island, Climate Modelling, Numerical Weather Prediction System, Industrial Water Pollution, Aerosol and Air Quality, Atmosphere, Upper Atmosphere, etc.),</li> <li>8. <b>Disaster Science &amp; Management</b> (VR in Landslide, Vulnerability Model, Fluvial-geomorphology, Sediment Connectivity, Flood, Drought, Thunderstorm, Hydro-meteorological Disasters, Cyclone, etc.)</li> </ol>
Space Economy & Space Legislation	Space Economy, Policies, Treaties, Laws, Legislations.