

List of Thrust Areas

Note: These are indicative lists and are not limited to the items mentioned here.

1. Physical Sciences

- Advances in Quantum Mechanics and Space Sciences
- Renewable and Clean Energy Technologies
- High-Energy Physics and Particle Accelerators
- Photonics and Laser Applications
- Material and Nano Science

2. Chemical Sciences

- Green Chemistry and Sustainable Chemical Processes
- Advanced Materials: Polymers, Nanocomposites, and Catalysts
- Drug Design and Pharmaceutical Chemistry
- Electrochemistry and Energy Storage
- Analytical Techniques in Trace Element Detection

3. Mathematical and Data Sciences

- Mathematical Modeling of Natural and Engineered Systems
- Data-Driven Decision Making and Predictive Analytics
- Cryptography, Blockchain, and Secure Algorithms
- Mathematical Approaches to AI and Optimization
- Game theory

4. Biological Sciences

- Innovations in Molecular and Cellular Biology
- Advances in Biotechnology and Genetic Research
- Interdisciplinary Approaches in Life Sciences
- Emerging Trends in Microbiology and Immunology
- Translational Research in Biology for Health and Agriculture

5. Health Science

- Innovations in Public Health and Epidemiology
- Biomedical Devices and Wearable Health Tech
- Regenerative Medicine and Stem Cell Therapy
- Personalized Medicine and Pharmacogenomics
- AI and Big Data in Healthcare Diagnostics

6. Engineering and Technology

- Smart Manufacturing and Industry 4.0
- Renewable Energy Engineering and Grid Optimization
- Advanced Robotics and Mechatronics
- Additive Manufacturing and 3D Printing Applications

7. Forensic Sciences

- Advances in Forensic DNA Analysis
- Digital and Cyber Forensics in Crime Investigation
- Forensic Toxicology and Trace Evidence Techniques
- AI and Imaging Tools in Forensic Analysis
- Legal and Ethical Dimensions of Forensic Practice