



NEWSLETTER

Vol: 19

JULY 2023 – DECEMBER 2023

Issue: 2



EDITORIAL BOARD

Patron: Dr. D. Thirumalaivasan, Professor & Director, IRS

Advisor: Dr. R. Kanmani Shanmuga Priya, Assistant Professor, IRS

Team Lead: Dr. P. Shoba, Assistant Professor, IRS

Content: Rishi Ganesh L, Akshith S, Krithika V, Balasabarish SH, Kaviya, Kaviyaran



MITACS APPLICATION OPENS

MITACS is a prestigious and extremely competitive abroad research internship opportunity in interdisciplinary domains. Spanning 12 weeks (about 3 months), the fully funded internship takes place at various reputed universities and research organizations across Canada during the months of June to August. The registrations for the Summer 2024 have started and the deadline for registration is September 22, 2023 (1:30 AM IST). Interested applicants are encouraged to apply.

GROUND PENETRATION RADAR EXPLORATION AND ITS APPLICATIONS

1st August, 2023

A workshop titled “Ground Penetrating Radar (GPR) Exploration and Applications” was organized on 1st August 2024 in the Institute of Remote Sensing, at College of Engineering Guindy, Anna University. Instructed by Dr. Divya Priya B, Assistant Professor at IRS, and Mr. Mohapatra L.D, National Manager - Geophysical Division AIMIL Limited, New Delhi, the workshop delved into some of the theoretical aspects behind the working of the GPR Technology and attendees were exposed to practical applications of GPR Surveying with live demonstrations.



50 participants, including students, research scholars, academicians, and officials from IITs, NITs, Govt. and private organizations, and industries from various parts of the country participated enthusiastically.



GATE APPLICATION OPENS

Graduate Aptitude Test in Engineering (GATE) is a prestigious national-level exam that assesses candidates for a comprehensive understanding of various undergraduate-level subjects in Engineering, Technology, Science, Architecture, and Humanities. GATE 2024 is being organized by the Indian Institute of Science (IISc), Bengaluru. The registrations are open from August 30, 2023, and the closing date for regular online registration/applications is on September 29, 2023. The GATE score obtained by the candidates will remain valid for three years from the date of announcement of results. Interested applicants who want to pursue higher education are encouraged to apply before the deadline.

INAUGURATION OF SGE WITH SPACE WEEK CELEBRATIONS

10th October, 2023

The Institute of Remote Sensing (IRS) at the College of Engineering Guindy celebrated World Space Week on 10th October 2023 with a day full of inspiring talks and interactive activities under the organization of Dr. R. Kanmani Shanmuga Priya, President of the Society of Geoinformatics Engineers (SGE) and Dr. P. Shoba, Treasurer of SGE. K.P. Jaya, HOD of Civil Engineering, delivered a felicitation address reflecting on the society's growth. Dr. D. Thirumalaivasan, Director of IRS, spoke on the importance of interdisciplinary skills in today's world, while special guest Mrs. Archana Stalin, Founder of myHarvest Farms, encouraged students to follow their passions.



The event included two insightful talks: "Frontiers of Space Entrepreneurship" by Dr. Harini Sridharan, CTO of Sturfee Inc., and "Mapping for the Visually Impaired" by Dr. Hari Prasath Palani, Founder of UNAR Labs.



INDUSTRIAL VISIT TO GINGEE FORT

November 4th, 2023

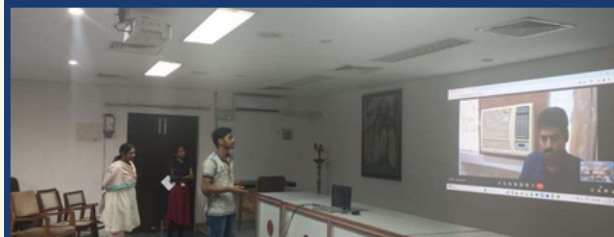
On November 4th, students of 3rd years visited the Gingee fort, located in Villupuram district to study the process of spheroidal weathering. Known for its historical significance, the forts and structures were also seen by the students. Spheroidal weathering is a process of cracking and splitting off of curved layers from a generally spherical boulder, but on a much smaller scale. It occurs when a rectangular block is weathered from three sides at the corners and from two sides along its edges. The fort, in modern times, is maintained and administered by the Archaeological Survey of India. The fort is one of the prominent tourist destinations in Villupuram district. The fortifications contain a sacred pond known as Aanaikulam. On the top of the hillock, there are minor fortifications. Accompanied by Dr. P. Shoba, Assistant Professor, Institute of Remote Sensing, the visit was very informative to the students.



GUEST LECTURE FROM PRL – PLANETARY REMOTE SENSING

November 30th, 2023

On November 30, 2023, from 10:00 AM to 12:00 PM, the Society of Geoinformatics Engineers at the Institute of Remote Sensing, College of Engineering, Anna University, Chennai, hosted a guest lecture on "Planetary Remote Sensing." The session, organized by Dr. Kanmani Shanmugapriya., was attended by 2nd and 3rd-year B.E. Geoinformatics students. Dr. Vijayan S, from ISRO's Physics Research Laboratory, delivered an engaging online presentation, discussing remote sensing techniques in planetary exploration. The lecture included interactive discussions, inspiring students to explore careers in space research.



SOCIETY MEMBERSHIPS

- Dr. P. Shoba, Assistant Professor, IRS renewed her ISRS Society membership.
- Dr. B. Divya Priyam Assistant Professor, IRS renewed her ISG Society's membership

PROJECTS COMPLETED

Establishment of GIS Cell for Decision Support System in Disaster Management and Populating NDEM with Disaster specific Database and Integration of Storm Surge Model for Early Warning



**2023 IEEE
India Geoscience and Remote Sensing Symposium**
Hosted at the
International Institute of Information Technology, Bangalore (IIIT-B)
Bengaluru, India
December 10-13, 2023



INGARSS CONFERENCE, IIT BENGALURU

December 10-13, 2023

The India Geoscience and Remote Sensing Symposium (InGARSS) is the flagship regional conference of the IEEE Geoscience and Remote Sensing Society (GRSS) organized in India. The InGARSS Conference 2023 was hosted at the Indian Institute of Information Technology, Bengaluru (IIITB) during December 10 – 13, 2023. The conference provided insights into the latest developments and advancements in geoscience and remote sensing technologies. Under the able leadership of Prof. Nair along with co-General Chairs, Profs. Avik Bhattacharya, IIT Bombay, and B. S. Daya Sagar, Head, ISI-Bengaluru, InGARSS 2023 organization included contributions from pan-India, and other countries, such as the USA, New Zealand, and others.

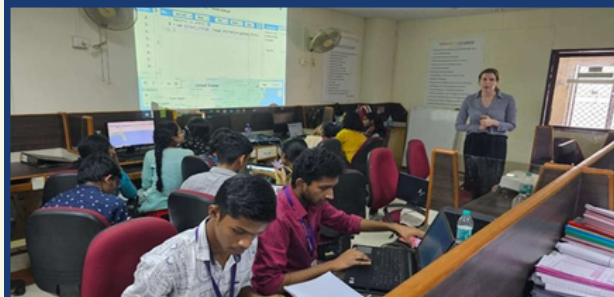
UPCOMING EVENTS

- CELESTIA 2024

WORKSHOP BY IIT TIRUPATI – GEOSPATIAL TECHNOLOGIES FOR ENVIRONMENTAL ANALYSIS

18th and 19th December, 2023

IRS students attended a workshop titled "Geospatial Technologies for Environmental Analysis," organized by IIT Tirupati Navavishkar I-Hub Foundation at Anna University, Chennai, on December 18th and 19th, 2023. The workshop provided valuable hands-on training in Google Earth Engine using JavaScript programming. Participants explored various practical applications, including night light exposure analysis, flood monitoring, NDVI computation, and forest change mapping using Landsat 5 and Landsat 8 imagery. This enriching experience aimed to enhance skills in environmental analysis through advanced geospatial technologies.



The workshop began with a clear and concise overview of the concepts and expected outcomes. The curriculum was well-structured, with the first day dedicated to familiarizing students with the Google Earth Engine environment, followed by more advanced topics on the second day. Interactive doubt-clearing sessions further enriched the experience, allowing students to deepen their understanding. Overall, the workshop provided a strong foundation in geospatial technologies, equipping participants with the tools needed for further exploration and learning.

