

Date: 4th September 2023,

DETAILS: IEEE-GRSS Student Chapter of Thakur College of Engineering and Technology organized a webinar on Introduction to Remote Sensing and Data Science on 1st of September, 2023. The main aim was to make students aware about the implementation and future scope of Remote Sensing and Data Science in Today's World

PARTICIPANTS: Second , Third and Final Year students of the college

OBJECTIVES:

- Learn about Remote Sensing and Data Science
- To make students understand its implementation and future scope

FACULTIES INVOLVED:

Dr. Sukruti Kaulgud - Chapter Advisor IEEE-GRSS, TCET.

EVENT DETAILS:

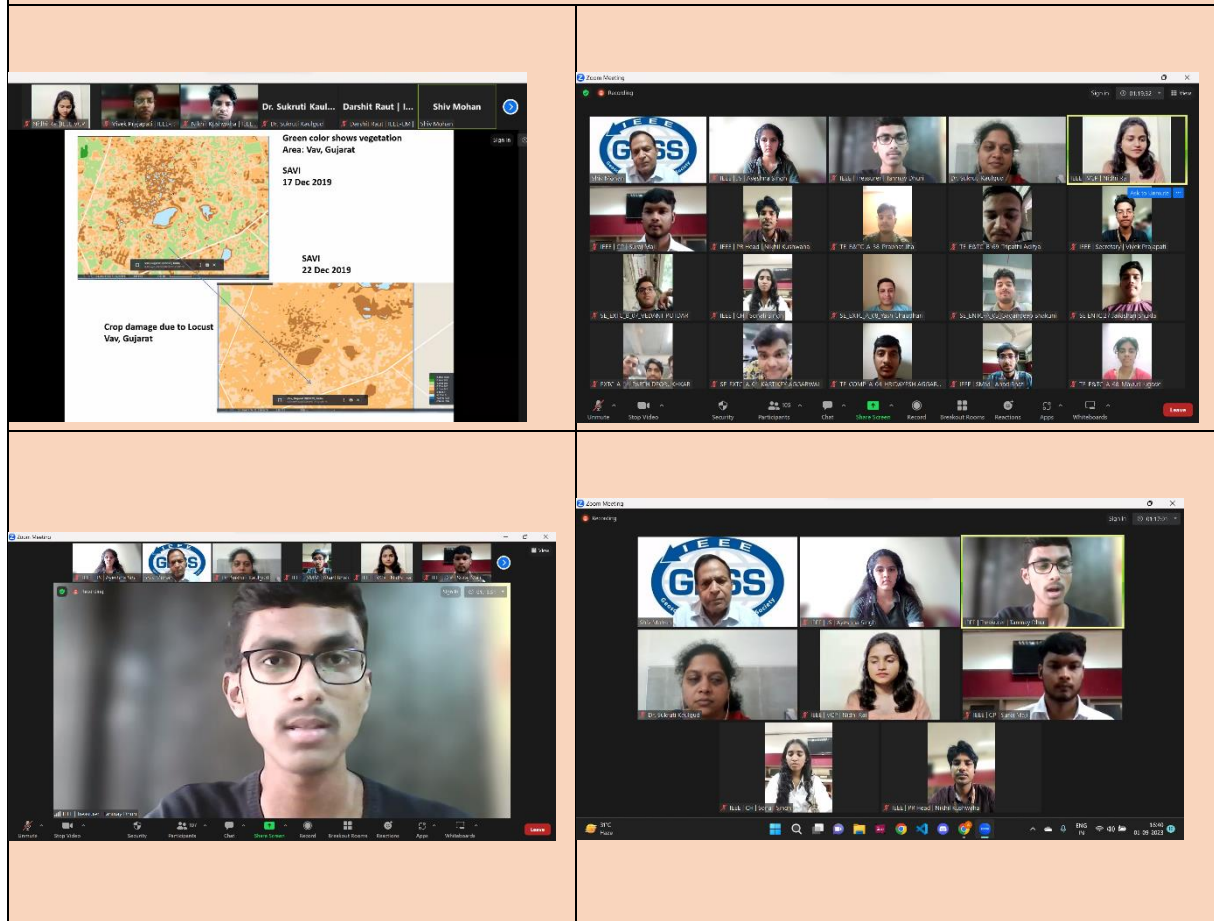
On September 1st, 2023, the IEEE Geoscience and Remote Sensing Society (GRSS) TCET Student Chapter organized an enlightening webinar titled "Introduction to Remote Sensing and Data Science." The event, held at 3:30 p.m., brought together a diverse group of students interested in the field of remote sensing and data science. The webinar commenced with Mr. Vivek Prajapati, Secretary of IEEE GRSS TCET, extending a warm welcome to all participants and introducing the esteemed guest speaker, Dr. Shiv Mohan, a renowned expert in Microwave Remote Sensing and He played pivotal roles in India's Chandrayaan 1 and Chandrayaan 2 missions, served in numerous ISRO technical committees, and received the Indian National Remote Sensing Award in 1995. Dr. Shiv Mohan commenced his presentation by providing an insightful overview of IEEE GRSS, emphasizing its role in understanding Earth's ecosystems, monitoring environments, oceans, ice caps, and assessing potential risks. He highlighted the presence of nine chapters across India and the chapter's support for students participating in IGARSS. Dr. Mohan discussed remote sensing's essence, applications in inaccessible terrains, and the electromagnetic spectrum. He explained data acquisition techniques, categorized remote sensing into types (e.g., black and white, color, multispectral, hyperspectral), and highlighted its diverse benefits, including vegetation analysis, drought detection, disaster management, and microwave remote sensing's significance in cloudy or rainy weather, for detecting moisture zones and monitoring irrigation. Dr. Mohan explained how constructive and destructive interference aids in obtaining digital elevation models (DEMs) of the Earth's surface. Dr. Mohan categorized remote sensing into thermal, optical, and microwave types, then highlighted GIS's role in managing data with temporal, spatial, and geospatial dimensions. He also drew parallels between data science and remote sensing, stressing the importance of digital image processing in data analysis. He cited historical examples and stressed the critical necessity of Geographic Information Systems (GIS) in the modern world. A lively question and answer session allowed participants to engage with Dr. Shiv Mohan, seeking clarifications and further insights into the topics discussed. The webinar concluded with closing remarks from Mr. Tanmay Dhuri, the Treasurer of IEEE TCET GRSS, who expressed gratitude to Dr. Shiv Mohan for sharing his expertise and knowledge. The event was an informative and enriching experience, enhancing attendees' understanding of remote sensing, data science, and their real-world applications.

IEEE-TCET Student Branch

IEEE TCET

Student Branch code : 41490581
www.ieee-tcet.net

Pictures of the Event



PARTICIPATION ANALYSIS:

Class	Number of Students
SE E&TC A	21
SE E&TC B	25
TE E&TC A	26
TE E&TC B	14
BE E&TC A	3
BE E&TC B	2
Others	13
Total	104

IEEE-TCET Student Branch

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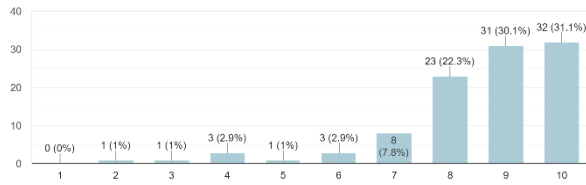
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STUDENT FEEDBACK :

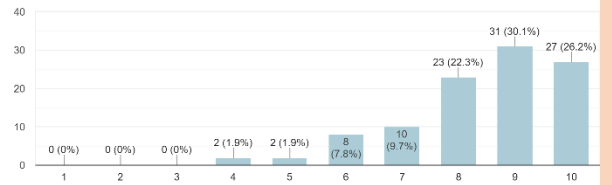
Relevance of the content delivered

103 responses



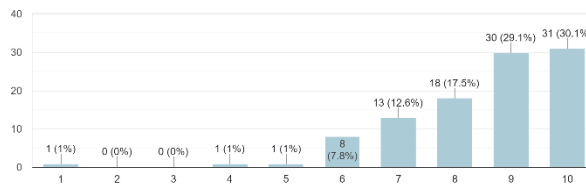
Knowledge gained

103 responses



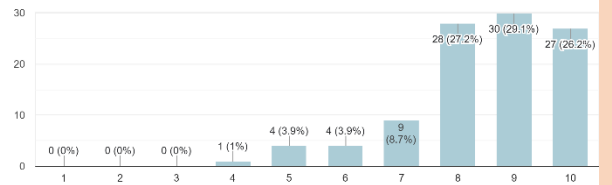
Uniqueness of the course

103 responses



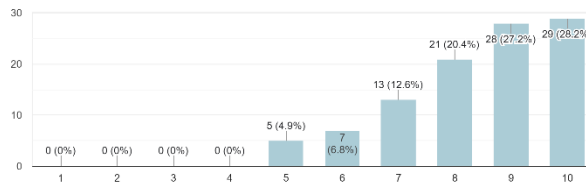
Ability of the speakers to explain

103 responses



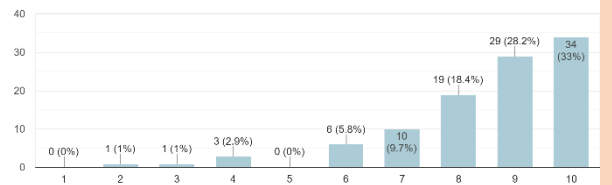
Expectations met

103 responses



Overall management

103 responses



SWOT ANALYSIS:

SR NO	STRENGTH	WEAKNESS	OPPORTUNITY	THREAT
1.	High amount of participation observed.	Technical issues may delay the flow of the event	Provided valuable knowledge and skills to participants interested in the intersection of remote sensing and environmental conservation	There is potential competition from other organizations and webinars offering similar content, which could draw away potential participants
2.	Students were delighted with the content and the resources provided by the speaker were extremely helpful.	The webinar was organized in short duration; hence the speaker got insufficient time to deliver the session.	Allows access to resources and information for potential career opportunities in the field	The short video could not be played due to technical issue

 Mr. Vivek Prajapati
 Secretary
 IEEE-GRSS, TCET 2023-24

 Mr. Suraj Maji
 Chairperson,
 IEEE-GRSS, TCET 2023-24

 Dr. Sukruti Kaulgud
 Chapter Advisor,
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 Dr. Lochan Jolly
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