



BNM Institute of Technology

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IEEE Geoscience & Remote Sensing Society (SBC 14831F)

List of Events Organized during 2025-26

Sl. No	Event Title	Date	No. of Participants
1	5 th Semester Internship	13 th July to 31 st July 2026	67
2	Outreach Activity - 2	30 th July 2026	20
3	Outreach Activity - 1	25 th July 2026	100
4	Technical Talk on "AI for Earth Sciences: From Maps to Decisions"	24 th July 2026	60
5	GeoTech Codeathon 2026	2 nd April 2026	26 Teams
6	IEEE GRSS Student Congress - 2026	24 th March 2026	102
7	Unified Signal Processing: Innovations across Audio, Visual and Satellite Images (FDP)	8th - 12th December, 2025	47
8	Geospatial Industry Conclave - 2025	29th November, 2025	61
9	Menstrual Hygiene Talk	31st October, 2025	22
10	Breast Cancer Awareness Talk	30th October, 2025	30
11	MATLAB for Real-Time Application of AIML for Image & Signal Processing	15th & 16th October, 2025	68
12	IEEE GRSS Debate Competition	9th October, 2025	18
13	IEEE BNMIT GRSS Student Branch Meeting	4th October, 2025	5
14	IEEE GRSS Ultimate Environmental & Disaster Monitoring Quiz	29th September - 1st October, 2025	38
15	MATLAB Workshop on Intelligent Image Processing	17th September, 2025	47
16	Applications of Satellite Image Processing Workshop	16th September, 2025	97

17	IEEE GRSS Ultimate Space & Satellite Quiz	15th - 17th September, 2025	40
18	Machine Learning for Climate Science & Earth Observation	13th Sept, 2025	68
19	Satellite Image Processing Using Python	10th September, 2025	120
20	IEEE BNMIT GRSS Core Meeting	30th August, 2025	5
21	From Textbooks To Targets: RF Systems in Real-World Engineering	12th August, 2025	110
22	Seniors & Youth Networking Circle	27th July, 2025	22
23	Industrial Visit to DSEdify Pvt. Ltd	4th July, 2025	45

List of Events Organized during 2024-25

Sl. No	Event Title	Date	No. of Participants
1	Hackathon on Signal Processing Applications using MATLAB	23rd April, 2025	130
2	Google Earth Engine - Earth Engine Climate: A Hands On Introduction	29th March, 2025	26
3	vTools Reporting	28th March, 2025	65
4	Python for Remote Sensing Images	9th October, 2024	54
5	Gen AI Internship (By Pantech E-Learning)	26th August - 14th September, 2024	67
6	ABHIYANTH - Analog Circuit Design Using LTSpice & Simulink	29th July - 9th August, 2024	120
7	IEEE BNMIT GRSS Student Branch Inauguration	5th July, 2024	114

IEEE GRSS BNMIT Office Bearers

Sl. No	Name	Position Held
1	Manish L	Chair
2	Gaayana G R, Amogh M S	Vice-Chair
3	Pavana P	Secretary
4	Devasmita Pathak	Treasurer
5	Raksha G H, Sushma Vaddi	Web Master

Faculty Advisor : Dr. Keerti Kulkarni



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Report on : Internship for 5th Semester Students

Date: 13th July to 31st July 2026

Introduction

The Department of Electronics and Communication Engineering, B.N.M. Institute of Technology, in association with **Cranes Varsity Pvt. Ltd.**, successfully organized a **15-day internship on " Design verification using System Verilog"** from **13 July 2026 to 31 July 2026**. The internship was designed to bridge the gap between academic learning and semiconductor industry requirements by providing intensive training in RTL design, digital verification, and modern verification methodologies.

Objectives

- Understand the complete VLSI design flow.
- Learn RTL coding using Verilog HDL.
- Develop SystemVerilog-based verification environments.
- Gain practical exposure to AXI4 protocol fundamentals.
- Perform simulation, debugging, assertions, and functional coverage.
- Build industry-oriented projects.
- Improve teamwork and technical presentation skills.

Programme Highlights

- **Duration:** 15 Working Days
- **Participants:** 67 Students
- **Resource Person:** Ms. Kanchana H., Cranes Varsity Pvt. Ltd.
- **Software Used:** EDA Playground
- **Assessment:** Attendance, Assignments, Quiz, Project, Hackathon





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Report on event titled as: Outreach Program

Date: 25th July and 30th July 2026

Time: 12:00 PM to 2: 30 PM

**Venue: Capital Public School, 339, 5th Main Road,
Kothnur, Churchgatta, 7th Phase, J.P Nagar,
Bengaluru-560078**

Number of Students: 95

Faculty Advisor: Dr. Keerti Kulkarni

Introduction

The outreach program was designed to make science engaging and relatable through storytelling, real-life examples, interactive discussions, quizzes, and classroom activities. The objective was not only to teach scientific concepts but also to spark curiosity about medicine, healthcare, and biomedical engineering.





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Report on Technical Talk on “AI for Earth Sciences: From Maps to Decisions”

Event Title: Technical Talk on "AI for Earth Sciences: From Maps to Decisions"

Event Date and Time: 24th July 2026, 10:00 am

Venue: N401, BNM Institute of Technology

Resource Person: Mr. Aman Bagrecha

The IEEE BNMIT Student Branch, in collaboration with the IEEE Geoscience and Remote Sensing Society Student Branch Chapter (GRSS SBC) and IEEE Computer Society Student Branch Chapter (CS SBC), successfully organized a technical talk titled "AI for Earth Sciences: From Maps to Decisions" on 24th July 2026 at 10am at BNM Institute of Technology. The session was delivered by Mr. Aman Bagrecha, Geospatial Scientist and Co-founder of Let's Talk Spatial, who shared valuable insights into the transformative role of Artificial Intelligence in geospatial technologies and Earth observation.





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Report of “GeoTech Codeathon 2026”

Date: 2nd April, 2026 Time: 9:30 AM

Venue: M Block, M-104, BNMIT Participants: 26 teams

Organized by:

IEEE Computer Society (CS) – BNMIT Student Branch Chapter

IEEE Systems, Man, and Cybernetics Society (SMC) – BNMIT Student Branch Chapter IEEE Geoscience and Remote Sensing Society (GRSS) – BNMIT Student Branch Chapter

B.N.M. Institute of Technology (Autonomous), Bengaluru

Overview :

The GeoTech Codeathon 2026, organized collaboratively by the IEEE Computer Society (CS), Systems, Man and Cybernetics Society (SMC), and Geoscience and Remote Sensing Society (GRSS) at BNMIT, was a competitive and intellectually stimulating coding event aimed at enhancing problem-solving skills among students. The event brought together enthusiastic participants to engage in multiple rounds of technical challenges designed to test their coding proficiency, analytical thinking, and debugging abilities. Participants were given the opportunity to compete using programming languages such as C, C++, and Java in a dynamic and challenging environment.

Event Proceedings :

1. The event commenced with the registration of participants, followed by a brief introduction to the Codeathon, its objectives, and the rules governing each round. Participants were grouped into teams of two members each.
2. The first round consisted of a coding challenge where participants were required to solve a set of problems within a stipulated time. This round focused on assessing the participants' understanding of programming concepts and their ability to write efficient code.
3. The second round involved debugging tasks, where teams were presented with faulty code snippets. Participants were required to identify errors and correct them, testing their logical thinking and attention to detail.
4. The final round included analytical and problem-solving challenges designed to evaluate participants' ability to approach complex problems systematically and creatively.



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Event Type: IEEE-GRSS Student Congress-2026

Venue: N401, BNM Institute of Technology, Bangalore-70

Duration of the Event: 1 Day (10.00 AM to 4.00 PM)

Targeted Audience: IEEE-GRSS SBC Office bearers

Total Number of participants : (Students: 80, Faculty Advisors: 15, Guests and Others: 7)

Objectives:

1. Inter-Chapter Collaboration and Networking
2. Sharing of Best Practices
3. Joint Event Planning and Resource Optimization
4. Leadership and Administrative Development
5. Strengthening GRSS Visibility Across Campuses
6. Strategic Road mapping for the Academic Year
7. Collaborative Research and Technical Ecosystem Building

Description of the event:

The IEEE GRSS Student Congress 2026 brought together representatives from student chapters, faculty advisors, and distinguished guests to foster collaboration and knowledge exchange. Strengthening inter-chapter coordination, sharing best practices, and increasing the visibility of GRSS initiatives across institutions were the main goals of the first session. The development of a cooperative technical ecosystem, resource optimization, and cooperative event planning were among the main topics of discussion. With the aim to enable smooth operation of IEEE activities, the session also emphasized the development of administrative and leadership skills. In order to achieve significant results, it culminated in the release of a strategic roadmap for the academic year that called for strong involvement and coordinated efforts among chapters.





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Five-Day Faculty Development Program (FDP) – Unified Signal Processing"

Title of the Event: "Five-Day Faculty Development Program (FDP) – Unified Signal Processing"

Date: 8th–12th December 2025

Venue: BNM Institute of Technology, Bengaluru

Organized by: BNM Institute of Technology | Technical Association: IEEE GRSS Student Chapter

Resource Person / Speaker: Distinguished faculty and industry experts in DSP, AI/ML, and satellite imaging

Participants: Faculty members from engineering institutions

Overview :

BNM Institute of Technology organized a Five-Day Faculty Development Program (FDP) from 8th to 12th December 2025, with IEEE GRSS Student Chapter as the technical associate. Themed 'Unified Signal Processing: Innovations across Audio, Visual and Satellite Images', the FDP provided an academic and practical platform for faculty members to explore the convergence of classical Digital Signal Processing (DSP) with modern AI and Machine Learning. The program emphasized the 'unification' paradigm, covering real-world applications in satellite image analysis, audio processing, and visual intelligence.

Key Highlights :

- 5-day FDP on convergence of DSP with AI/ML for signal processing
- Theme: Innovations across Audio, Visual, and Satellite Images
- Supported by IEEE GRSS Student Chapter as technical associate
- Covered satellite image processing, audio, and visual AI applications

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Geospatial Industry Conclave – 2025"

Title of the Event: "Geospatial Industry Conclave – 2025"

Date: 29th November 2025, 9:00 AM – 4:00 PM

Venue: BNM Institute of Technology, Bengaluru

Organized by: Dept. of ECE, BNMIT | Faculty Coordinators: Dr. Yasha Jyothi M Shirur,
Dr. Keerti Kulkarni

Resource Person / Speaker: Industry experts from the Geospatial sector

Participants: 61 Students (2nd & 3rd Year)

Overview :

The Department of ECE at BNMIT organized the Geospatial Industry Conclave 2025 on 29th November 2025, running from 9 AM to 4 PM. The full-day event brought together 61 students from the 2nd and 3rd year with industry professionals from the geospatial sector under the coordination of Dr. Yasha Jyothi M Shirur. The conclave aimed to expose students to current trends, technologies, and career opportunities in the geospatial industry, strengthening the connection between academia and real-world applications of remote sensing and GIS.

Key Highlights :

- Full-day conclave connecting students with geospatial industry experts
- 61 students from 2nd and 3rd year participated
- Covered trends and career pathways in the geospatial industry
- Bridged academia and industry in the remote sensing domain

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Menstrual Hygiene Talk"

Title of the Event: *"Menstrual Hygiene Talk"*

Date: 31st October 2025

Venue: N401 Seminar Hall, BNM Institute of Technology

Organized by: IEEE GRSS & IEEE WIE, BNMIT SBC

Resource Person / Speaker: Mrs. Vedashree, NGO Worker, Health for Women, Bengaluru

Participants: 22 Attendees

Overview :

The IEEE GRSS and IEEE Women in Engineering (WIE) at BNMIT co-organized a Menstrual Hygiene Talk on 31st October 2025 at N401 Seminar Hall. The session was conducted by Mrs. Vedashree, an NGO worker associated with 'Health for Women', Bengaluru, who addressed 22 attendees on the importance of menstrual hygiene, health practices, and breaking the stigma surrounding menstruation. The talk encouraged open, informed conversations about women's health within the academic community.

Key Highlights :

- Talk on menstrual hygiene by a health and NGO professional
- Jointly organized by IEEE GRSS and IEEE WIE
- 22 attendees sensitized on menstrual health and hygiene practices
- Addressed stigma and promoted open conversations about women's health

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Breast Cancer Awareness Talk"

Title of the Event: "Breast Cancer Awareness Talk"

Date: 30th October 2025

Venue: N401 Seminar Hall, BNM Institute of Technology

Organized by: IEEE GRSS & IEEE WIE, BNMIT SBC

Resource Person / Speaker: Dr. (Mrs.) Pushpa Srinivas, Obstetrician & Gynaecologist, Consultant at Sagar and Agadi Hospital

Participants: 30 Attendees

Overview :

The IEEE Geoscience and Remote Sensing Society (GRSS) and IEEE Women in Engineering (WIE) at BNMIT jointly organized a Breast Cancer Awareness Talk on 30th October 2025 at N401 Seminar Hall. The session was addressed by Dr. (Mrs.) Pushpa Srinivas, a distinguished Obstetrician and Gynaecologist and Consultant at Sagar and Agadi Hospital. Attended by 30 participants, the talk focused on early detection, prevention strategies, and raising awareness about breast cancer among the student community, aligning with the global Breast Cancer Awareness Month initiative.

Key Highlights :

- Awareness talk by a senior gynaecologist and obstetrician
- Jointly organized by IEEE GRSS and IEEE Women in Engineering (WIE)
- 30 attendees educated on breast cancer detection and prevention
- Promoted women's health awareness within the student community

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Poster Presentation – MATLAB for Real-Time Applications of AIML in Image & Signal Processing"

Title of the Event: "Poster Presentation – MATLAB for Real-Time Applications of AIML in Image & Signal Processing"

Date: 15th–16th October 2025, 10:30 AM – 1:00 PM

Venue: N502, BNM Institute of Technology, Bengaluru

Organized by: IEEE GRSS BNMIT SBC | Faculty Advisor: Dr. Keerti Kulkarni | Judges: Dr. Ashwini Savant, Dr. Lakshmi Bhaskar

Resource Person / Speaker: Student presenters; Judges: Dr. Ashwini Savant, Dr. Lakshmi Bhaskar

Participants: 68 Students

Overview :

The IEEE GRSS BNMIT Student Branch Chapter organized a two-day Poster Presentation on 'MATLAB for Real-Time Applications of AIML in Image and Signal Processing' on 15th–16th October 2025 at N502. A total of 68 students presented their research work, evaluated by expert judges Dr. Ashwini Savant and Dr. Lakshmi Bhaskar, under the coordination of Faculty Advisor Dr. Keerti Kulkarni. The event provided a platform for students to showcase their practical understanding of AI/ML techniques applied to real-time image and signal processing challenges.

Key Highlights :

- Two-day poster presentation on AIML applications in image/signal processing
- 68 students presented research projects using MATLAB
- Evaluated by expert judges Dr. Ashwini Savant and Dr. Lakshmi Bhaskar
- Focused on real-time AI/ML applications in geoscience domains

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "IEEE GRSS Debate Competition"

Title of the Event: "IEEE GRSS Debate Competition"

Date: 9th October 2025

Venue: N401, BNMIT

Organized by: IEEE GRSS BNMIT SBC (ID: SBC14831F) | Faculty Advisor: Dr. Keerti Kulkarni

Resource Person / Speaker: Student debaters and faculty judges

Participants: 18 Students (Male: 9, Female: 9) | IEEE Members: 4, Non-IEEE: 14

Overview :

The IEEE GRSS BNMIT Student Branch Chapter organized a Debate Competition on 9th October 2025 at N401, BNMIT, running for 2 hours. The event saw participation from 18 students, evenly split with 9 male and 9 female participants, showcasing excellent gender inclusivity. Topics were centered around geoscience, remote sensing, and technology-related issues. The debate was organized under the guidance of Faculty Advisor Dr. Keerti Kulkarni, providing students with a platform to articulate technical ideas and hone their communication skills.

Key Highlights :

- 2-hour debate competition with equal gender participation
- 18 participants debating on geoscience and technology topics
- Held at N401 with 9 male and 9 female participants
- Open to all students regardless of IEEE membership

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Minutes of Meeting – Planning for IEEE GRSS Debate Competition"

Title of the Event: *"Minutes of Meeting – Planning for IEEE GRSS Debate Competition"*

Date: 4th October 2025 (9:30 PM – 10:30 PM)

Venue: Online Meeting

Organized by: IEEE GRSS BNMIT Student Branch Chapter

Participants: Sriraksha Srinivas, Shraddha Makam, Gaayana G R, Manish L, Pavana P

Overview :

The IEEE GRSS BNMIT Student Branch Chapter held an online planning meeting on 4th October 2025 from 9:30 PM to 10:30 PM. The session was attended by five core members including Sriraksha Srinivas, Shraddha Makam, and Gaayana G R, and focused on planning the upcoming IEEE GRSS Debate Competition scheduled for 9th October 2025. The team discussed the event structure — proposing 20-25 teams with 2 members each — along with the debate format, topic categories, and organizational responsibilities.

Key Highlights :

- Online planning meeting for the upcoming Debate Competition
- Proposed 20-25 teams of 2 members each for the debate
- Debate structure finalized with two major categories
- Event scheduled for 9th October 2025

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "IEEE GRSS Ultimate Environmental & Disaster Monitoring Quiz"

Title of the Event: *"IEEE GRSS Ultimate Environmental & Disaster Monitoring Quiz"*

Date: 30th September 2025

Venue: Online (Google Forms) – BNM Institute of Technology

Organized by: IEEE GRSS BNMIT SBC | Organized by: Gaayana G R, Shraddha Makam |
Faculty: Dr. Yasha Jyothi M Shirur, Dr. Keerthi Kulkarni

Participants: 38 Students

Overview :

The IEEE GRSS BNMIT Student Branch Chapter hosted the 'Ultimate Environmental & Disaster Monitoring Quiz' on 30th September 2025, conducted online via Google Forms. The quiz, organized by Gaayana G R and Shraddha Makam under the faculty guidance of Dr. Yasha Jyothi M Shirur and Dr. Keerthi Kulkarni, engaged 38 students in topics spanning environmental conservation, climate change, disaster prediction technologies, and applications of remote sensing and GIS in environmental monitoring. The event aimed to raise awareness about sustainability and the role of technology in environmental protection.

Key Highlights :

- Online quiz on environmental protection and disaster management
- 38 students participated via Google Forms
- Topics: climate change, remote sensing, GIS for disaster monitoring
- Raised awareness about global environmental monitoring technologies

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Applications of Satellite Image Processing"

Date: 18th September, 2025

Venue: Sri Sairam PU college, Anekal

Organized by: Dr. Keerti Kulkarni, Faculty Advisor, BNMIT

Participants: 97

Overview :

The Applications of Satellite Image Processing workshop was organized at Sri Sairam PU college, Anekal, with the goal of providing the younger generation with a brief taste of satellite imagery and its applications.

This workshop was done in the afternoon of 17th September 2025. The college occupies the same campus as the Engineering college and the logistics were arranged so that the morning session was conducted at the Engineering College and the post lunch session was conducted for the PU college.

Key Highlights :

- DEIAB activity report for PU-level outreach activities
- Part of IEEE GRSS Region 10 global activity documentation
- Reports chapter engagement with pre-university students
- Submitted as part of the Chapter's 2025 annual activity record

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "MATLAB Workshop on Intelligent Image Processing"

Title of the Event: "MATLAB Workshop on Intelligent Image Processing"

Date: 17th September 2025, 11 AM – 4 PM

Venue: BNM Institute of Technology, Bengaluru

Organized by: Dept. of ECE, BNMIT | **Faculty:** Dr. Yasha Jyothi M Shirur, Dr. Keerthi Kulkarni

Resource Person / Speaker: MATLAB expert resource persons

Participants: 47 Students (2nd & 3rd Year)

Overview :

The Department of ECE at BNMIT organized a MATLAB Workshop on Intelligent Image Processing on 17th September 2025, running from 11 AM to 4 PM. Attended by 47 students from the 2nd and 3rd year, the workshop provided comprehensive hands-on training in MATLAB for image processing applications. Coordinated by Dr. Yasha Jyothi M Shirur and Dr. Keerthi Kulkarni, the workshop covered intelligent algorithms for image analysis, helping students apply computational tools to real-world signal and image processing challenges.

Key Highlights :

- Full-day 5-hour MATLAB workshop on intelligent image processing
- 47 students from 2nd and 3rd year participated
- Covered MATLAB tools for image analysis and processing algorithms
- Organized under IEEE GRSS BNMIT Student Branch Chapter

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "IEEE GRSS Ultimate Space & Satellite Quiz"

Title of the Event: "IEEE GRSS Ultimate Space & Satellite Quiz"

Date: 16th September 2025

Venue: Online (Google Forms) – BNM Institute of Technology

Organized by: IEEE GRSS BNMIT SBC | Coordinators: Shraddha Makam, Gaayana G R |
Faculty: Dr. Yasha Jyothi M Shirur, Dr. Keerthi Kulkarni

Participants: 40 Students

Overview :

The IEEE GRSS BNMIT Student Branch Chapter organized the 'Ultimate Space & Satellite Quiz' on 16th September 2025, conducted online via Google Forms. The quiz engaged 40 students in a fun and competitive format, testing their knowledge in space technology, satellite systems, geoscience, and remote sensing. Organized by Shraddha Makam and Gaayana G R under the guidance of Dr. Yasha Jyothi M Shirur and Dr. Keerthi Kulkarni, the event served as an interactive learning platform for students passionate about space exploration.

Key Highlights :

- Online quiz testing knowledge of space technology and satellite systems
- 40 students participated via Google Forms platform
- Covered geoscience, remote sensing, and satellite innovations
- Part of IEEE GRSS initiative to promote scientific curiosity

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Invited Talk – Machine Learning for Climate Science & Earth Observation"

Title of the Event: *"Invited Talk – Machine Learning for Climate Science & Earth Observation"*

Date: 13th September 2025

Venue: BNM Institute of Technology, Bengaluru

Organized by: IEEE GRSS BNMIT SBC | Faculty Advisor: Dr. Keerti Kulkarni

Resource Person / Speaker: Mr. Aman Bagrecha, Geospatial Scientist, GalaxEye Space; Young Professional Chair, IEEE GRSS Bangalore Chapter

Participants: 68 Students (elective subject: ML for Earth Science)

Overview :

The IEEE-GRSS BNMIT Student Branch Chapter organized an Invited Talk by Mr. Aman Bagrecha, Geospatial Scientist at GalaxEye Space and Young Professional Chair of IEEE GRSS Bangalore, on 13th September 2025. Attended by 68 students enrolled in the Machine Learning for Earth Science elective, the talk covered ML algorithms for carbon footprint analysis, the role of remote sensing in climate and defence, and practical demonstrations of open-source tools and free geospatial datasets. The talk inspired students with real-world applications of their coursework.

Key Highlights :

- Expert talk on ML applications in climate science and Earth observation
- Demonstrated open-source tools and free geospatial datasets
- Focused on carbon footprint analysis using ML algorithms
- Highlighted role of remote sensing in defence operations

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "IEEE GRSS 2025 Chapter Activity Report – DEIAB Submission (Sairam, 16th Sept)"

Title of the Event: "IEEE GRSS 2025 Chapter Activity Report – DEIAB Submission (Sairam, 16th Sept)"

Date: 10th September, 2025

Venue: Sri Sairam Engineering College, Anekal

Organized by: Dr. Keerti Kulkarni, Faculty Advisor, BNMIT

Participants: 120

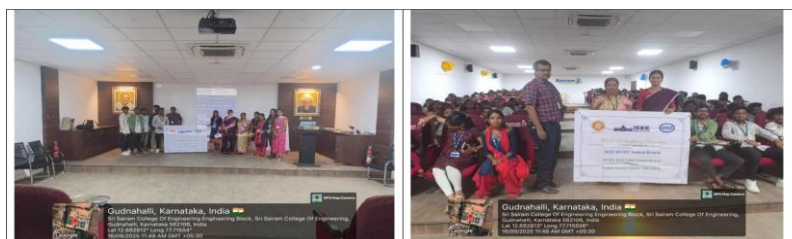
Overview :

The Satellite Image Processing using Python workshop was organized at Sri Sairam Engineering College, Anekal, with the goal of equipping students and faculty with skills in the contemporary field of satellite image analysis. The workshop, conducted in a region recognized for its rural and semi-urban characteristics, aimed to promote technology capacity building among participants from diverse backgrounds, directly supporting efforts in Diversity, Equity, Inclusion, Accessibility, and Belonging (DEIAB). The following report details the motivation, methodology, content highlights, and outcomes of the workshop, mapping its impact to each DEIAB pillar and providing recommendations for future initiatives in similar contexts.

Key Highlights :

- **Diversity & Equity:** Access to advanced technical topics for students from geographically & diverse backgrounds, bridging the urban-rural resource gap.
- **Inclusion:** Engages students from underrepresented communities, making STEM education more inclusive.
- **Accessibility:** Delivers high-value skills locally, removing barriers faced by students outside metropolitan centres.
- **Belonging:** Connects rural campus participants to the national and global scientific community through exposure to cutting-edge topics.

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Minutes of Meeting – Planning for 'Spy vs Sky' Event"

Title of the Event: *"Minutes of Meeting – Planning for 'Spy vs Sky' Event"*

Date: 30th August 2025 (2:30 PM – 3:00 PM)

Venue: Seminar Hall, BNMIT

Organized by: IEEE GRSS BNMIT Student Branch Chapter

Participants: Sriraksha Srinivas, Shraddha Makam, Gaayana G R, Manish L, Pavana P

Overview :

The IEEE GRSS BNMIT Student Branch Chapter held a planning meeting on 30th August 2025 in the Seminar Hall, attended by five core student members. The agenda centered on organizing the upcoming 'Spy vs Sky' event — a satellite image-based treasure hunt where teams use satellite imagery to solve clues and identify geographic landmarks. The team finalized the event for 12th September 2025 and worked out the event flow, task responsibilities, and initiation of participant registrations.

Key Highlights :

- Planning meeting for upcoming 'Spy vs Sky' satellite image event
- Event concept: satellite image-based treasure hunt for students
- Finalized event date: 12th September 2025
- Task breakdown and registration initiation discussed

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Invited Alumni Talk – From Textbooks to Targets: RF Systems in Real-World Engineering"

Title of the Event: *"Invited Alumni Talk – From Textbooks to Targets: RF Systems in Real-World Engineering"*

Date: 12th August 2025

Venue: BNM Institute of Technology, Bengaluru

Organized by: IEEE GRSS BNMIT SBC | Faculty Advisor: Dr. Keerti Kulkarni

Resource Person / Speaker: Varun R Chaturvedi, Radar Division, Bharat Electronics Ltd. (BEL), Bangalore (Alumni)

Participants: 110 Students

Overview :

The IEEE GRSS BNMIT Student Branch Chapter hosted an Invited Alumni Talk by Varun R Chaturvedi, an alumnus working in the Radar Division at Bharat Electronics Ltd. (BEL), Bangalore. The talk, attended by 110 students, focused on bridging theoretical RF concepts with their real-world applications in satellite and radar engineering. Topics included electromagnetic waves, RF circuits, satellite system costs, and career pathways in radar and satellite companies. The speaker was honoured with a thanksgiving letter and memento as appreciation for his contribution.

Key Highlights :

- Alumni talk by BEL radar engineer attended by 110 students
- Mapped RF theory to satellite and radar real-world applications
- Overview of BEL radar systems and satellite component industry
- Speaker honoured with a thanksgiving letter and memento

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Industrial Visit to DSEdify Pvt. Ltd., Bangalore"

Title of the Event: "Industrial Visit to DSEdify Pvt. Ltd., Bangalore"

Date: 4th July 2025

Venue: DSEdify Pvt. Ltd., Bangalore

Organized by: IEEE GRSS BNMIT SBC | Faculty Advisor: Dr. Keerti Kulkarni

Resource Person / Speaker: DSEdify industry professionals

Participants: 45 Students

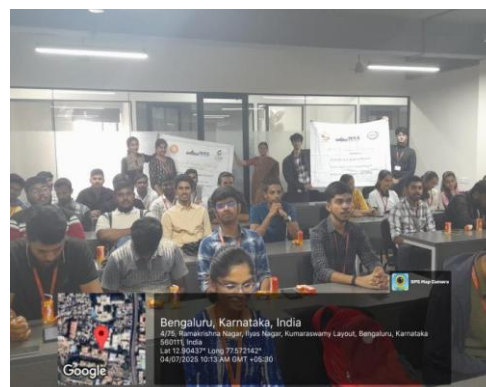
Overview :

The IEEE GRSS BNMIT Student Branch Chapter organized a one-day industrial visit to DSEdify Pvt. Ltd. on 4th July 2025, with 45 students under the guidance of Faculty Advisor Dr. Keerti Kulkarni. The visit provided students with valuable insights into the workings of a modern education technology company, exposing them to real-world industry operations. The experience aimed to bridge theoretical academic learning with practical understanding of how technology companies operate and innovate.

Key Highlights :

- One-day industrial visit to an EdTech company in Bangalore
- 45 students gained insights into education technology operations
- Organized to bridge academic knowledge with industry practices
- Faculty-guided visit under IEEE GRSS Student Branch Chapter

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Advanced Robotics Internship – Robomanthan"

Title of the Event: "Advanced Robotics Internship – Robomanthan"

Date: 2nd June – 21st June 2025

Venue: BNM Institute of Technology, Bengaluru

Organized by: IEEE-GRSS Student Branch Chapter, BNMIT

Resource Person / Speaker: Mr. Sauravkumar, Robomanthan Pvt. Ltd.

Participants: 43 Students enrolled

Overview :

The IEEE-GRSS Student Branch Chapter at BNMIT organized an Advanced Robotics Internship in collaboration with Robomanthan Pvt. Ltd., running from 2nd to 21st June 2025. Mr. Sauravkumar from Robomanthan served as the resource person, guiding 43 enrolled students through comprehensive robotics concepts and hands-on project work. The internship was designed to provide students with industry-relevant skills in advanced robotics systems, bridging academic learning with practical engineering applications.

Key Highlights :

- Three-week hands-on internship on Advanced Robotics
- 43 students trained by industry expert from Robomanthan Pvt. Ltd.
- Covered fundamentals and advanced topics in robotics systems
- Practical, project-based learning format

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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Hackathon on Signal Processing Applications using MATLAB"

Title of the Event: *"Hackathon on Signal Processing Applications using MATLAB"*

Date: 23rd April 2025

Venue: N-502, N-504, N-505, N-605, BNMIT

Organized by: Dept. of ECE, BNMIT | IEEE Signal Processing Society & IEEE EMBS

Resource Person / Speaker: MATLAB experts and faculty judges

Participants: 130 Participants

Overview :

The Department of ECE at BNMIT organized a Hackathon on Signal Processing Applications using MATLAB on 23rd April 2025, in association with the IEEE Signal Processing Society and IEEE Engineering in Medicine and Biology Society. With 130 participants competing across multiple venues (N-502, N-504, N-505, N-605), the 4-hour event challenged students to solve real-world signal processing problems using MATLAB. The hackathon fostered creative problem-solving and teamwork in applied signal processing.

Key Highlights :

- Full-day hackathon from 1:15 PM to 5:15 PM
- 130 students participated across multiple lab venues
- Organized jointly with IEEE Signal Processing Society and EMBS
- Challenges based on real-world MATLAB signal processing applications

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Google Earth Engine: A Hands-On Introduction"

Title of the Event: "Google Earth Engine: A Hands-On Introduction"

Date: 29th March 2025

Venue: BNM Institute of Technology, Bengaluru

Organized by: IEEE GRSS BNMIT SBC (ID: SBC14831F) | Faculty Coordinator: Dr. Keerti Kulkarni

Resource Person / Speaker: IEEE GRSS resource persons on Google Earth Engine

Participants: 26 Students (Male: 3, Female: 23), all IEEE Members

Overview :

The IEEE GRSS BNMIT Student Branch Chapter organized a 2-hour hands-on workshop titled 'Google Earth Engine: A Hands-On Introduction' on 29th March 2025. All 26 participating students were IEEE members, and the workshop was coordinated by Dr. Keerti Kulkarni. The session provided students with a practical introduction to Google Earth Engine (GEE), a powerful cloud-based platform for satellite image processing and geospatial analysis, equipping them with skills in state-of-the-art remote sensing tools.

Key Highlights :

- Hands-on 2-hour workshop on Google Earth Engine platform
- 26 students participated, all active IEEE members
- Introduced satellite image analysis and cloud-based GIS tools
- Covered practical applications of remote sensing using GEE

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Vtools Reporting Workshop"

Title of the Event: "Vtools Reporting Workshop"

Date: 28th March 2025

Venue: N-401, New Building Seminar Hall, BNMIT

Organized by: IEEE BNMIT Student Branch, Dept. of ECE | Convenor: Dr. Jyoti R Munava

Resource Person / Speaker: IEEE Vtools reporting experts

Participants: IEEE Student Branch members

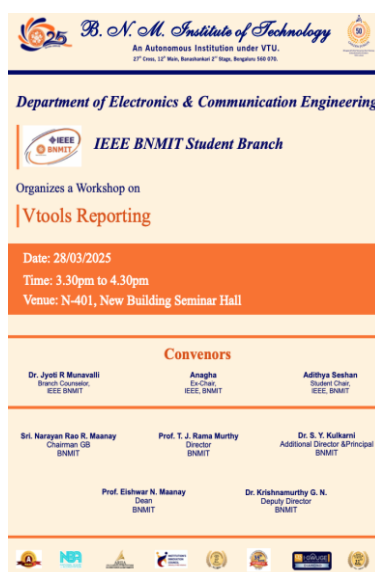
Overview :

The IEEE BNMIT Student Branch organized a Vtools Reporting Workshop on 28th March 2025, conducted from 3:30 PM to 4:30 PM at N-401 Seminar Hall. The session was convened by Dr. Jyoti R Munava and focused on training IEEE student members to accurately report events using the IEEE Vtools online platform. The workshop helped ensure proper documentation and compliance for all IEEE GRSS chapter activities and events.

Key Highlights :

- Workshop on IEEE Vtools online reporting system
- Held from 3:30 PM to 4:30 PM in N-401 Seminar Hall
- Guided members on submitting event reports via IEEE Vtools
- Aimed at improving compliance and documentation for IEEE activities

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Python for Remote Sensing Images – Workshop"

Title of the Event: "Python for Remote Sensing Images – Workshop"

Date: 9th October 2024

Venue: N504, BNM Institute of Technology, Bengaluru

Organized by: IEEE-GRSS Student Branch Chapter, BNMIT

Resource Person / Speaker: Dr. Keerti Kulkarni, Associate Professor, Dept. of ECE, BNMIT

Participants: 54 Students

Overview :

The IEEE-GRSS Student Branch Chapter at BNMIT organized a workshop on 'Python for Remote Sensing Images' on 9th October 2024, at N504. The session was conducted by Dr. Keerti Kulkarni, Associate Professor in ECE, who guided 54 students through the use of Python for remote sensing image processing. The workshop highlighted why Python is the preferred language in geospatial analysis, covering key libraries and hands-on exercises for processing satellite and aerial imagery.

Key Highlights :

- Workshop on Python programming for remote sensing image processing
- 54 students participated from ECE department
- Led by Dr. Keerti Kulkarni, Faculty Advisor of IEEE GRSS BNMIT
- Covered practical Python libraries for geospatial data analysis

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Gen AI Internship Program"

Title of the Event: "Gen AI Internship Program"

Date: 26th August – 14th September 2024 (3 Weeks)

Venue: BNM Institute of Technology, Bengaluru

Organized by: IEEE-GRSS Student Branch Chapter, BNMIT

Resource Person / Speaker: Mr. Gowtham K (Senior Project Engineer), Mr. Jeswin A — Pantech E Learning

Participants: 67 Students enrolled

Overview :

The IEEE-GRSS Student Branch Chapter at BNMIT, in collaboration with Pantech E Learning, organized a three-week Generative AI Internship for 67 students from 26th August to 14th September 2024. The program was delivered by Mr. Gowtham K, Senior Project Engineer, and Mr. Jeswin A, covering the latest developments and practical applications of Generative AI. This skill development program (SDP) provided students with a strong foundation in Gen AI technologies and hands-on project experience.

Key Highlights :

- Three-week intensive internship on Generative AI technologies
- Conducted by Pantech E Learning in association with IEEE-GRSS BNMIT
- 67 students enrolled for the skill development program
- Covered practical Gen AI tools and real-world AI applications

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "ABHIYANTH – Analog Circuit Design Using LT-SPICE and SIMULINK"

Title of the Event: *"ABHIYANTH – Analog Circuit Design Using LT-SPICE and SIMULINK"*

Date: 29th July – 9th August 2024

Venue: BNM Institute of Technology, Bengaluru

Organized by: Dept. of ECE, BNMIT in association with IEEE-Bangalore

Resource Person / Speaker: Industry resource persons on LT-SPICE and SIMULINK

Participants: 2nd Year ECE Students (2023 Batch)

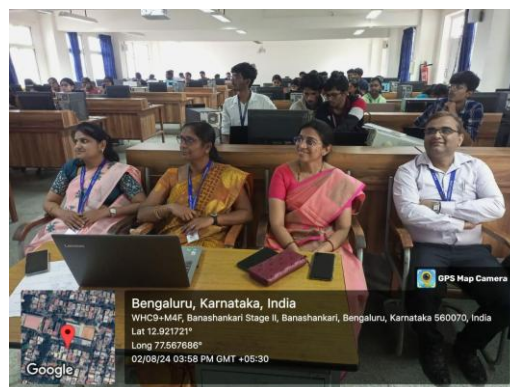
Overview :

The Department of Electronics and Communication at BNMIT organized 'ABHIYANTH', a two-week internship program on Analog Circuit Design using LT-SPICE and SIMULINK for second-year ECE students. Conducted from 29th July to 9th August 2024 in association with IEEE-Bangalore, the program provided students with practical, hands-on experience in designing and simulating analog circuits using professional tools. The internship aimed to bridge the gap between classroom theory and real-world circuit design applications.

Key Highlights :

- Hands-on internship in analog circuit design over two weeks
- Conducted using industry-standard tools: LT-SPICE and SIMULINK
- Organized under IEEE-Bangalore association
- Targeted 2nd year ECE students for early industry exposure

Event Images :





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IEEE GRSS BNMIT Student Branch Chapter (SBC14831F)

Report of "Inauguration of the IEEE GRSS BNMIT Chapter"

Title of the Event: "Inauguration of the IEEE GRSS BNMIT Chapter"

Date: 5th July, 2024

Venue: BNM Institute of Technology, Bengaluru

Organized by: IEEE GRSS BNMIT Student Branch Chapter

Resource Person / Speaker: Dr. Narayan Panigrahi, Dr. John Mathew, Dr. Shyam Lal, Dr. Saroj Kumar Meher

Participants: Faculty, Students and Volunteers

Overview :

The IEEE Geoscience and Remote Sensing Society (GRSS) Student Branch Chapter at BNM Institute of Technology was formally inaugurated with a traditional lamp-lighting ceremony. The event featured felicitation of distinguished professors and researchers — Dr. Narayan Panigrahi, Dr. John Mathew, Dr. Shyam Lal, and Dr. Saroj Kumar Meher — who each delivered insightful sessions on geoscience and remote sensing. The inauguration marked the beginning of a new platform for students to engage with cutting-edge research and IEEE activities at BNMIT.

Key Highlights :

- Ceremonial lighting of the lamp to mark the inaugural occasion
- Felicitation of distinguished guest speakers and professors
- Expert sessions by four eminent scientists and researchers
- Formal establishment of the IEEE GRSS BNMIT Student Branch Chapter

Event Images :

