



# *BNM Institute of Technology*

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## **IEEE Computer Society (SBC 14831D)**

### **List of Events Organized during 2023-24 & 2024-25**

<b>Sl. No</b>	<b>Event Title</b>	<b>Date</b>	<b>No. of Participants</b>
1	SAGACITY – IEEE Week 2025	10th October, 2025	74
2	IEEE Outreach Program – IEEE Week 2025	9th October, 2025	65
3	Machine Learning for Climate Science & Earth Observation	13th September, 2025	70
4	Technical Talk on “Machine Learning Operations”	22nd February, 2025	21
5	Codeathon	27th & 28th November, 2024	33
6	Bridge Course on “C Programming Language for Lateral Entry Students”	4th & 11th September, 2024	25
7	Hands on workshop on “Building Scalable Applications with Cassandra”	3rd July, 2024	207
8	Technical Symposium on “The evolving fields of Operations Research & Data Science”	16th February, 2024	80
9	Technical Talk on “Lagrange Points and Aditya L1”	11th December, 2023	140
10	Inauguration of IEEE BNMIT, Computer Society Student Branch Chapter	22nd November, 2023	114

**IEEE CS BNMIT Office Bearers**

<b>Sl. No</b>	<b>Name</b>	<b>Position Held</b>
1	Tanmay Anand	Chair
2	Thanmayee MK	Vice-Chair
3	Sindhura R	Secretary
4	Sakshi Maliye	Treasurer
5	Urvee S Bettadapur	Webmaster

**Faculty Advisor : Dr. Amith Shekar C**

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## Report of “SAGACITY”

### **Title of the Event:**

“SAGACITY – IEEE Week 2025”

**Date:** 10th October, 2025

**Time:** 1:30 PM to 3:30 PM

**Venue:** S Block, S-006, BNMIT

**Participants:** 74

### **Organized by:**

IEEE Computer Society – BNMIT Student Branch Chapter and

IEEE BNMIT Student Branch Chapter

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

### **Overview :**

Sagacity, a quiz competition, organized by the IEEE Computer Society Student Chapter, was an intellectually engaging event designed to test participants’ knowledge across a wide spectrum of topics, including technology, current affairs, general knowledge and logical reasoning. The event aimed to foster curiosity, quick thinking and teamwork among students while providing a platform for interactive learning beyond the classroom. The quiz attracted enthusiastic participation from students across various departments, with its multiple rounds and increasing order of difficulty and diversity to challenge participants’ awareness and problem-solving skills. The event successfully blended education with entertainment, encouraging students to think critically and respond swiftly.

### **Event Proceedings :**

1. The event commenced with an introduction to IEEE, its benefits and various societies involved, both globally and with respect to BNMIT. Students were introduced to the IEEE’s objectives and its commitment to fostering technical and analytical learning. This was followed by a brief overview of the rules, format and evaluation criteria by the quizmaster.
2. The competition commenced with Round 1, which was an online quiz hosted on the “Wayground” platform. This round consisted of 50 MCQ type questions, including science, technology, general knowledge and current affair questions, and students were given 20 minutes to answer all questions. 20 teams qualified in this round and made it to the second round.
3. The second round was a Visual Round, which was conducted on paper. Participants were shown a set of 20 visual based questions, including logos, brands, taglines, flags and famous personalities. Each team was given 30 seconds for each visual and points were awarded based on accuracy. This round saw intense competition and tested the teams’ observation, recall ability and awareness of technological and corporate icons. The session was highly engaging and the visual element added an interactive and exciting dimension to the quiz. 10 teams qualified for the third and last round.

- The final round comprised riddle-based questions, challenging the participants' spontaneity, logical reasoning and presence of mind. The quizmaster maintained a lively pace, giving students exactly 60 seconds to solve each riddle, keeping everyone thoroughly engaged.
- After an intense and competitive finale, the top 3 teams emerged as the winners of Sagacity, demonstrating exceptional teamwork and broad knowledge across multiple domains.
- The event concluded with the announcement of winners and a gratitude speech by members of the IEEE CS chapter, thanking all the participants and volunteers for their contribution.

### Objective :

- To encourage students to think critically and apply their knowledge across diverse domains.
- To promote awareness of science, technology and current affairs.
- To enhance analytical, logical reasoning and problem-solving skills.
- To foster teamwork, communication and a spirit of healthy competition.
- To strengthen student engagement with IEEE and its technical activities.

### Conclusion :

Sagacity proved to be an intellectually stimulating and successfully executed event. It achieved its goal of creating a problem where students could showcase their knowledge, agility and logical reasoning abilities in a competitive yet collaborative environment. Each round of the quiz brought out the participants' enthusiasm and passion for learning, while the visual and riddle-based segments added a creative edge to the competition. The event received positive feedback from both participants and faculty members, who appreciated the smooth coordination, innovative question formats, and active involvement of the organizing team.

Overall, Sagacity not only strengthened student engagement within the IEEE community but also reflected the chapter's commitment to promoting analytical thinking, teamwork, and continuous learning among future engineers.

### Event Images :





Bengaluru, Karnataka, India  
Whc9+p7m, Banashankari Stage II, Banashankari, Bengaluru, Karnataka  
560070, India  
Lat 12.92191° Long 77.568055°  
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Bengaluru, Karnataka, India  
8/a, 9th Main Rd, Yarab Nagar, Banashankari Stage II, Banashankari, Bengaluru, Karnataka 560070, India  
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Bengaluru, Karnataka, India  
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# *B N M Institute of Technology*

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## **Report of “IEEE Outreach Program”**

### **Title of the Event:**

**“IEEE Outreach Program – IEEE Week 2025”**

**Date:** 9th October, 2025

**Time:** 9:30 AM to 3:00 PM

**Venue:** M Block, M-201, BNMIT

**Participants:** 65

### **Organized by:**

IEEE BNMIT Student Branch Chapter and  
IEEE Computer Society – BNMIT Student Branch Chapter and  
B.N.M. Institute of Technology (Autonomous), Bengaluru

### **Overview :**

The IEEE Outreach Program for IEEE Week 2025, organized by IEEE BNMIT Student Branch Chapter and IEEE Computer Society, BNMIT was a one-day interactive learning initiative aimed at introducing Grade 8 students from BNM School (ICSE) to the fundamentals of technology, cybersecurity, programming and designing. The event provided young learners with an opportunity to explore the exciting world of STEM through engaging presentation, activities and hands-on sessions. Topics such as Internet basics, online safety, cybersecurity awareness among others were covered in a beginner-friendly and interactive manner.

### **Event Proceedings :**

1. The event began with welcoming the students from BNM School and escorting them to the venue. The session commenced with an introduction to IEEE, its global mission, and the role of student branches in fostering technical learning and innovation.
2. The first technical session covered an Introduction to the Internet, delivered through an engaging presentation that explained how the Internet works, its benefits, and the importance of responsible online behavior. To add a fun and interactive element, a game titled “Tower of Treasure” was conducted. This activity encouraged teamwork, quick thinking, and logical reasoning among the students.
3. Following this, a detailed session on Cybersecurity was presented, covering essential topics such as data privacy, safe browsing habits and protection against online threats. A quiz based on cybersecurity concepts was then conducted to test the students’ understanding of the topic. The quiz was lively, competitive and helped reinforce key takeaways from the previous session.
4. Following this, a session on Python Programming was conducted, where students were introduced to the basics of coding through a simple and beginner-friendly presentation. Examples and many visuals were used to explain core programming concepts. The students were very curious to learn more topics and actively engaged in discussions asking insightful questions.

5. After the morning session, students enjoyed a lunch break from 12:30 PM to 1:30 PM, providing an opportunity for informal interaction between IEEE volunteers and the visiting students.
6. Post lunch, another small quiz on all fundamental programming concepts was hosted to revise and reinforce ideas before the next session.
7. The day concluded with a hands-on Figma session, where students explored the fundamentals of UI/UX design and learned how to use Figma as a creative design tool. The session encouraged creativity, innovation and collaboration among the young bright minds.

### Objective :

- To introduce school students to fundamental concepts in technology and programming.
- To create awareness about the Internet, cybersecurity and safe online practices.
- To encourage curiosity and interest in STEM through interactive activities and games.
- To provide hands-on exposure to creative tools like Figma and basic coding using Python.
- To strengthen the connection between IEEE student members and the local school community.

### Conclusion :

The IEEE Outreach Program for school students was a resounding success, effectively bridging the gap between school-level learning and real-world technology exposure. The event reflected IEEE's commitment to spreading technical awareness and nurturing young minds towards innovation and responsible digital citizenship. The program concluded on a positive note, with appreciation from both the students and faculty, setting a strong precedent for future outreach initiatives by the IEEE Computer Society Student Chapter.

### Event Images :





# *BNM Institute of Technology*

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## **Department of computer science and engineering in association with**

### **BNMIT IEEE Computer Society Student Chapter**

#### **Report on Technical Talk on "Machine Learning for Climate Science & Earth Observation"**

**Event Title:** Technical Talk on "Machine Learning for Climate Science & Earth Observation"

**Event Date and Time:** 13th Sept, 2025 ,10:00 am to 12:00 pm

**Venue:** Room M309, BNMIT Campus

**Participants:** 70 Participants

#### **Resource Person:**

**Mr. Aman Bagrecha**

Geospatial Scientist at GalaxEye Space

Young Professional Chair, IEEE GRSS Bangalore Chapter

The IEEE Geoscience and Remote Sensing Society (GRSS) in collaboration with the IEEE Computer Society Student branch chapter at B.N.M. Institute of Technology, organized a technical talk titled "Machine Learning for Climate Science and Earth Observation" on 13th September, 2025. Delivered by Mr. Aman Bagrecha, Senior Geospatial Scientist at GalaxEye, the session highlighted the transformative role of artificial intelligence in analyzing satellite imagery and geospatial data to address pressing global challenges.

#### **Objectives of Talk:**

1. To provide insights into the role of **Machine Learning and Artificial Intelligence** in advancing climate science and Earth observation through satellite data and geospatial analytics.

2. To encourage students and professionals to explore and contribute to the application of **AI-driven geospatial technologies** in addressing critical global challenges such as climate change, disaster management, and sustainable development.

### **Key Highlights & Topics Covered:**

1. **Transformative Applications:** The talk offered insights into applications such as deforestation analysis, fire count prediction, river monitoring, and flood mapping.
2. **Tools & Technologies:** Usage of tools like **QGIS, PyTorch, and Zarr** was supported by discussions on Sentinel satellite data and hyperspectral imagery.
3. **Real-world Case Studies:**
  - **Water Resources:** Monitoring of the Tungabhadra river served as an example of harnessing geospatial data for water resource challenges.
  - **Disaster Management:** The **2018 Kerala Floods** were analyzed through road network mapping to understand infrastructure disruption during disasters.
4. **Advanced Techniques:** Emerging techniques such as natural language geocoding, vision-language models, time series analysis, and Sentinel-1 SAR data (radar pulse emission) were discussed.

### **Conclusion:**

The session concluded by highlighting the enormous promise of AI-powered geospatial science for climate change, disaster management, and sustainability. It provided motivation to learn more about the profession of fusing theoretical ideas with real-world case studies. The session effectively realized how crucial it is to use cutting-edge technologies in order to create a future that is more sustainable.

# *B.N.M. Institute of Technology*

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**Department of Computer Science and Engineering**

In Association with

**BNMIT IEEE Computer Society Student Chapter**

**Event Title:** Alumni Series Talk on Machine Learning Operations (MLOps)

**Date & Time:** 22nd February 2025, 11:00 AM to 1:00 PM

**Venue:** M104, BNMIT **Participants:** M. Tech. CSE Students.

**Resource Person:** Priyanka V Galagali, Software Engineer AIMA, Dimaag-AI

The Department of Computer Science & Engineering at BNMIT, in collaboration with the IEEE Computer Society BNMIT - SB, hosted an Alumni Series Talk on **Machine Learning Operations (MLOps)**. The session aimed to provide M. Tech. CSE students with insights into MLOps, a critical area in deploying and managing machine learning models efficiently in production environments.



# *B.N.M. Institute of Technology*

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Department of Computer Science and Engineering

## “Code-A-Thon”

### Date and Time:

- **Round 1:** 27th November 2024, 1:30 PM – 5:30 PM
- **Round 2:** 28th November 2024, 2:00 PM – 5:00 PM

### Participants: 33

BNMIT IEEE Computer Society (CS) Student branch, organized a two-round Code-A-Thon in collaboration with CodeTantra. The event aims to promote a robust coding culture on campus, encourage problem-solving skills, and nurture creativity among students. The event was a success, promoting a strong coding culture and fostering problem-solving skills among our students.



### Winners:

1. Vinay S - 3<sup>rd</sup> Sem CSE
2. Pratheek P – 5<sup>th</sup> Sem CSE
3. Harsha Y – 1<sup>st</sup> Sem CSE

# *B.N.M. Institute of Technology*

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## Department of Computer Science and Engineering

### “Bridge Course on “C Programming Language for Lateral Entry Students”

**Date:** 4<sup>th</sup> and 11<sup>th</sup> September 2024

**Time:** 2 pm to 5pm

**Participants:** 25

Bridge Course on “C Programming Language” for Lateral Entry Students was organized by Department of Computer science & Engineering, BNMIT in association with IEEE Computer Society, BNMIT SB on 4<sup>th</sup> and 11<sup>th</sup> September 2024. The primary objective of the workshop was to familiarize students with problem solving skills and basics of C programming language.

Prof. Kalpa Rajashekar, Assistant Professor, Dept. Of CSE, BNMIT handled the sessions as the resource person.



# *B.N.M. Institute of Technology*

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Department of Computer Science and Engineering

## “Building Scalable Applications with Apache Cassandra”

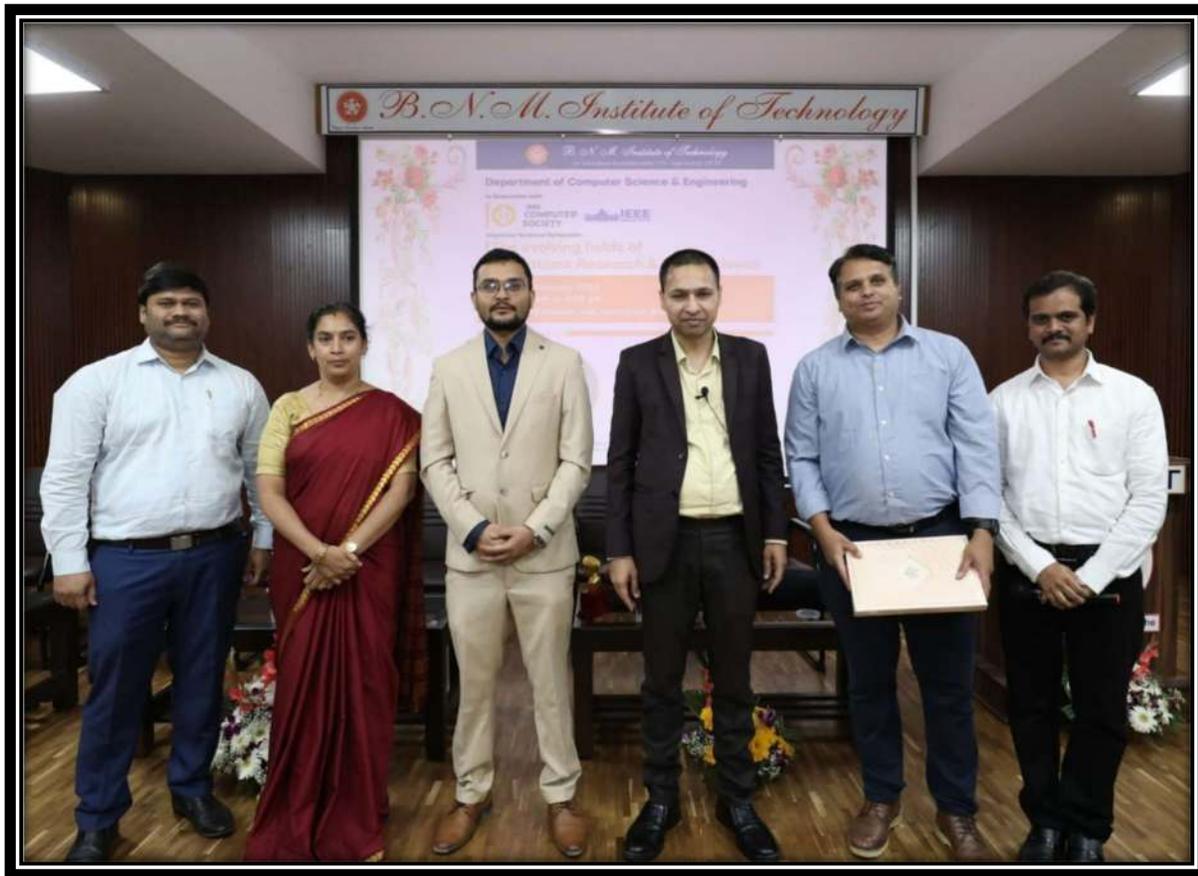
Date: 3<sup>rd</sup> July 2024.

Time: 8.30 am to 4.30 pm

Hands on workshop on “**Building Scalable Applications with Cassandra**” was organized by Department of Computer science & Engineering, BNMIT in association with IEEE Computer Society, BNMIT SB on 3<sup>rd</sup> July 2024. The primary objective of the workshop was to familiarize students with Apache Cassandra, and just brief introduction to NoSQL database. The event under the coordination of Dr. Raghavendra C K, Professor and IEEE faculty advisor, Dr. Amith Shekhar C, Associate professor, Prof. Geetha L S, Assistant Professor witnessed the active participation from 208 students from the fourth semester of the CSE department. Mr. Maheswaran Govindraju, a Senior Developer & Corporate Trainer from Mysuru Trainer and Developers, Mr. Nithin Neelakanta Rao, Senior Trainer & Business Head, along with their team of two members, was invited as the resource person for the workshop.



The event moderated by Dr. Chayadevi M L, Professor and Head of CSE, drew a diverse audience of researchers, practitioners, and students eager to explore the synergies and advancements shaping modern analytics. The keynote address highlighted the transformative impact of data-driven decision-making across industries, emphasizing the critical role of Operations Research (OR) methodologies in optimizing complex systems. Speakers elucidated how OR techniques, such as optimization models and simulation, are increasingly integrated with Data Science tools like machine learning and big data analytics to tackle real-world challenges.



# *B. N. M. Institute of Technology*

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## Department of Computer Science and Engineering

### The evolving fields of Operations Research & Data Science

**Date:** 16th February 2024

**Time:** 2:00 pm to 4:00 pm

**Venue:** A215 Seminar Hall, Auditorium Block

**Resource Person:**

**Dr. Amit Garg**

B.Tech& M.Tech (IIT-Delhi),

Double Ph.D (Case Western Reserve University)

Founder & CEO ORMAE

The symposium on "The Evolving Fields of Operations Research & Data Science" in association with IEEE CS Student Chapter provided a comprehensive overview of the intersection between these two dynamic disciplines. Held at A215 on 16<sup>th</sup> Feb 2024, with the esteemed Resource person **Dr. Amith Garg**, a *Guinness world Record Holder*, Founder and CEO of Operations Research & Machine Analytics Experts (ORMAE).



# *B.N.M. Institute of Technology*

An Autonomous Institution under VTU

**Department of Computer Science and Engineering**

In Association with

**BNMIT IEEE Computer Society Student Chapter**

**Technical talk on “Lagrange Points and Aditya L1”**

Event Date: 11/12/2023

Time: 11 am to 1.30 pm

Venue: A215 Seminar Hall, BNMIT.

Attendees: 7<sup>th</sup> Semester Students

Total Attendees: 160 (140 students + 20 Faculty)

The IEEE Student Chapter at BNMIT, in collaboration with the Department of Computer Science and Engineering, hosted a landmark event on 11/12/2023, featuring a distinguished speaker, Dr R Ranganath, FIE Honorary Adjunct Professor, NIAS, IISc Campus, Bengaluru, Ex. Project Director, Space Docking Experiment Project (SPADEX), U R Rao Satellite Centre, ISRO, DOS. The session, titled "Lagrange Points and Aditya L1," explored the cosmic intricacies of gravitational equilibrium and the groundbreaking Aditya L1 solar mission.



# *B.N.M. Institute of Technology*

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**Department of Computer Science and Engineering**

## **Inauguration of IEEE BNMIT Computer Society Chapter**

Date: 22<sup>nd</sup> November 2023

Venue: A215 Seminar Hall, BNMIT.

Time: 9:00 am to 10: 30 am

No of participants: 114

The BNMIT IEEE Computer Society Chapter witnessed a significant milestone in its academic and professional journey with the inauguration ceremony presided over by esteemed guests and dignitaries. The Chief Guest, Dr. T Srinivas, Chair-Elect of the IEEE Bangalore Section, and Professor at the Indian Institute of Science, Bangalore, along with Guest of Honor Dr. Abhishek Appaji, Vice Chair of the IEEE Computer Society and R&D Head at BMSCE, played pivotal roles in the ceremony. The Inauguration ceremony began warmly welcoming the esteemed guests, faculty members, and students. Prof.Kiran K N, Dept. of ECE, BNMIT, delivered the opening address, expressing gratitude for the presence of the distinguished guests and highlighting the significance of the IEEE BNMIT Computer Student Branch Chapter.

The ceremonial lighting of the lamp marked the official inauguration of the IEEE BNMIT Computer Society Chapter. Dr. T Srinivas, Dr. Abhishek Appaji, and other dignitaries from the BNMIT management were invited to unveil the chapter, signifying the institution's commitment to excellence in the field of computer science and technology.



Dr. T Srinivas, Chair-Elect of the IEEE Bangalore Section and a renowned professor at the Indian Institute of Science delivered an insightful keynote address regarding the upcoming events and opportunities for the upcoming year and how all can be part of it. Dr. Srinivas

emphasized the importance of student involvement in professional societies like IEEE, fostering a spirit of innovation and collaboration.

During the inauguration ceremony, Dr. Abhishek Appaji, Vice Chair of the IEEE Computer Society, shared his valuable experiences and insights. Emphasizing the significance of the IEEE Computer Society, recognized as the largest chapter in Bangalore, Dr.Appaji highlighted its mission to create an environment of learning, collaboration, and innovation. In his address, he underscored the society's commitment to providing a platform for computing professionals to convene and share knowledge. Dr. Appaji offered an overview of the society's impactful work, outlining various benefits and initiatives.

Notably, he discussed the calendar of events, drawing attention to the upcoming flagship occasion, the IEEE Bangalore Computer Science Week 2023, scheduled from November 30 to December 3. In addition, Dr. Appaji enlightened the audience about the various awards and scholarships available for students, fostering a culture of recognition and support within the



IEEE Computer Society. This emphasis on recognition and educational support further highlighted the society's commitment to nurturing and empowering the next generation of computing professionals. Dr. Appaji also stressed the global connectivity facilitated by IEEE and encouraged students to actively participate in the diverse programs and initiatives of the IEEE Computer Student Branch Chapter.

The event concluded with a vote of thanks delivered by Dr S Y Kulkarni, Additional Director of BNMIT, expressing gratitude to the distinguished guests, faculty members, and students for their active participation. The IEEE BNMIT Computer Society Student Branch Chapter was officially launched with a vision to facilitate knowledge exchange, professional development, and collaboration among students and professionals in the Computer Science domain.