BNM Institute of Technology

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IEEE Engineering in Medicine & Biology Society (SBC14831E)

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

Sl. No	Event Title	Date	No. of Participants
1	The Lifeline Faceoff	16th October 2025	48
2	Poster Presentation on "MATLAB for Real time Application of AIML for Image and Signal Processing"	15th October 2025 -16th October 2025	72
3	BRAND CANVAS – A Logo Design Competition (online)	30th August 2025 - 3rd October 2025	54
4	Visit to Atal Incubation Centre	29th August 2025	55
5	EntreprenYOU: Crafting Your Startup Story in College	23rd July 2025	80
6	Student Executive Committee Meeting	17th July 2025	10
7	Hackathon on Signal Processing Applications using MATLAB	23rd April 2025	130
8	Ocular Surface Assessment	19th February 2025	41
9	Eye-Care in the Modern World: Innovative Solutions for Dry Eye Diagnosis and Prevention	18th February 2025	60
10	Scribble Sprint	15th October 2024	46
11	IEEE EMBS Inauguration	28th June 2024	43
12	Workshop on Medical Imaging at Global Academy of Technology	22nd June 2024	14

13	Digital Health Innovation Conclave – Innovate South Asia 2024	3rd February 2024	10

IEEE EMBS BNMIT Office Bearers

Sl. No	Name	Position Held
1	Varshini K	Chair
2	Hitha C Shekar	Vice-Chair
3	Shipra Prashanth	Secretary
4	Chirag M	Treasurer
5	B Sanjana Prasad	Webmaster

Faculty Advisor: Dr. Lakshmi Bhaskar

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Report of "The Lifeline Faceoff"

Title of the event: "The Lifeline Faceoff**"**

Date: 16th October 2025 Time: 11:00 AM to 1:30 PM

Venue: N-Block, N-401, BNMIT Participants: 48

Overview:

The IEEE EMBS Student Chapter at BNMIT organized "The Lifeline Faceoff" on 16th October 2025 at BNMIT, Bengaluru. Coordinated by Dr. Lakshmi Bhaskar, the event aimed to encourage students to explore biomedical problem-solving, innovation, and analytical thinking through an interactive competition. The event received enthusiastic participation with 16 teams (maximum three members per team), providing students from various engineering branches a platform to design and defend creative biomedical solutions.

Event Proceedings:

The event consisted of two rounds designed to evaluate both creativity and technical feasibility.

Round 1 – Biomedical Pictionary:
Participants illustrated biomedical terms while teammates attempted to guess them within a limited time. This round tested participants' biomedical knowledge, creativity, teamwork, and quick thinking, contributing 10% of the final score.

Round 2 – The Lifeline Faceoff:
In the main round, teams were given 3 minutes to present solutions to biomedical problem statements, followed by 2 minutes of questioning by the judge, audience, and fellow participants. This round evaluated innovation, feasibility, defense, and presentation skills, accounting for 90% of the final score.

The event was judged by Dr. Jyoti R. Munavalli, who provided constructive feedback on the originality and practicality of the proposed solutions. Based on the evaluation, the top teams were awarded prizes:

- 1st Place: ₹700
- 2nd Place: ₹500
- 3rd Place: ₹300

All participants also received certificates and goodies in recognition of their participation.

Objective:

The objective of The Lifeline Faceoff was to promote awareness of biomedical engineering and encourage innovative thinking in solving healthcare challenges. The event aimed to enhance students' problem-solving

abilities, teamwork, presentation skills, and critical thinking, while allowing them to apply theoretical knowledge to practical biomedical scenarios.

Conclusion:

The Lifeline Faceoff successfully combined learning, creativity, and competition, providing students with a valuable platform to explore biomedical innovations. The unique faceoff format encouraged participants to defend their ideas under questioning, simulating real-world engineering discussions. The event effectively strengthened team collaboration, communication skills, and design thinking, reflecting the interdisciplinary spirit of IEEE EMBS and inspiring students to pursue innovative solutions in healthcare technology.

Event Images:

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Report of "Poster Presentation on MATLAB for Real time Application of AIML for Image and Signal Processing"

Title of the event: "Poster Presentation on MATLAB for Real time Application of AIML for Image and Signal Processing"

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

Venue: N-Block, N-502, BNMIT Participants: 72

Overview:

The IEEE EMBS Student Branch Chapter (SBC) at B.N.M. Institute of Technology (BNMIT) organized a Poster Presentation on "MATLAB for Real Time Application of AI/ML for Image and Signal Processing" on 15th and 16th October 2025 at N502. The event was conducted in association with IEEE-CAS, IEEE-GRSS, and IEI, with the participation of 72 students. The activity aimed to provide a platform for students to showcase applications of AI/ML techniques using MATLAB in the fields of image and signal processing.

Event Proceedings:

1. The poster presentation was conducted over two days to accommodate all participants. Each team was given two minutes to present their work and explain their approach. Students demonstrated how MATLAB can be used for importing, visualizing, preprocessing, and analyzing real-world datasets and signals for practical applications.
2. The event was evaluated by Dr. Ashwini Savant and Dr. Keerti Kulkarni, who served as invited judges. The judging panel reviewed all poster presentations based on innovation, technical implementation, and clarity of presentation, and selected the top three teams for awards. The session also included the collection of student feedback, which reflected positive learning outcomes and engagement.

Objective:

The objective of the poster presentation was to highlight the practical implementation of AI/ML techniques in image and signal processing using MATLAB. The event aimed to encourage students to explore real-time applications, data analysis techniques, and innovative solutions in the domain of signal and image processing.

Conclusion:

The poster presentation successfully provided students with an opportunity to demonstrate their technical knowledge and research ideas in AI/ML applications using MATLAB. The event promoted analytical thinking, presentation skills, and interdisciplinary learning, while reinforcing the importance of applying theoretical concepts to real-world engineering challenges.

Event Images:

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Report of "BRAND CANVAS – A Logo Design Competition"

Title of the event: "BRAND CANVAS – A Logo Design Competition"

Date: 30th August 2025 – 3rd October 2025 Participants: 55

Venue: Online

Overview:

The IEEE EMBS Student Chapter at B.N.M. Institute of Technology (BNMIT) organized "Brand Canvas – A Logo Design Competition" from August 30, 2025 to October 3, 2025 in online mode. The event aimed to encourage students to combine creativity, technology, and visual storytelling by designing a logo representing the Centre of Excellence at BNMIT. Open to undergraduate students from various engineering branches, the competition provided a platform for participants to explore design thinking and visual communication while expressing technical ideas through creative artwork.

Event Proceedings:

1. The competition began with the announcement of the theme, rules, and submission guidelines on August 30, 2025**.** Participants were instructed to design original logos and submit them along with a brief concept note explaining the symbolism and design elements**.**
2. In Round 1 (September 13, 2025)**,** teams submitted their 2D logo designs through a shared Google Drive link. All valid participants **received** participation certificates on September 18, 2025 in recognition of their creative efforts.
3. For Round 2 (September 20, 2025), shortlisted teams refined their designs based on jury feedback and submitted their final entries. The results were announced on September 25, 2025**,** and the certificate and prize distribution took place on October 3, 2025**.**
4. The competition saw 27 registered teams with 54 participants and 91 submissions**,** evaluated by a panel of faculty members and experts from design and technical domains.

Winners:

- 1st Place: Glitch_mob – ₹1000 + Certificate
- 2nd Place: MediMinds – ₹500 + Certificate
- 3rd Place: Shinthan – Certificate of Achievement

Objective:

The primary objective of Brand Canvas was to encourage students to think creatively about visual design and branding while integrating art, science, and technology. The event also aimed to enhance students' understanding

of design thinking, symbolism, and visual communication, while creating a meaningful visual representation of BNMIT's values.

Conclusion:

The Brand Canvas competition successfully promoted creativity and interdisciplinary thinking among students. It demonstrated how engineering concepts and artistic expression can come together to communicate innovation and institutional identity. The event enhanced student engagement within the IEEE EMBS community and inspired future initiatives that combine technology, creativity, and design thinking, leaving a lasting impression on all participants.

Event Images:

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Report of "Visit to Atal Incubation Centre"

Title of the event: "Visit to Atal Incubation Centre"

Date: 29th August 2025 Time: 9:30 AM to 5:30 PM

Venue: Jyothi Institute of Technology, Bangalore Participants: 55

Overview:

As part of the IEEE EMBS activities, students visited the Atal Incubation Centre (AIC) at Jyothi Institute of Technology on 29th August 2025. The visit provided participants with valuable exposure to the startup ecosystem and incubation process, helping them understand how innovative ideas can be nurtured and transformed into successful entrepreneurial ventures.

Event Proceedings:

1. The programme began with a presentation by the AIC team, introducing the concept of startup incubation and entrepreneurial support systems. The team explained how the incubation centre assists startups by providing mentorship, infrastructure, prototype development facilities, and guidance for market readiness. They also discussed government schemes and funding opportunities available to support young innovators and entrepreneurs.
2. Following the presentation, participants were taken on a guided tour of the laboratories within the incubation centre. The labs were equipped with facilities for prototype testing and research, particularly in biotechnology and food technology. Students also observed sample products developed by incubated startups, which demonstrated how innovative ideas can evolve into practical and market-ready solutions.

Objective:

The objective of the visit was to expose students to the startup ecosystem and the role of incubation centres in supporting innovation and entrepreneurship. The visit aimed to inspire students to explore entrepreneurial opportunities and understand the process of transforming ideas into viable products or services.

Conclusion:

The visit to the Atal Incubation Centre at Jyothi Institute of Technology provided students with meaningful insights into the journey from innovation to entrepreneurship. By learning about incubation support, funding opportunities, and prototype development facilities, participants gained a deeper understanding of how startups are nurtured and developed. The experience motivated students to explore innovation-driven opportunities and consider entrepreneurship as a potential future pathway.

Event Images:

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Innovations and ED Cell - BNMIT

In Association with

Department of Electronics & Communication Engineering

CAS — IEEE Circuits and Systems Society

EMBS — IEEE Engineering in Medicine & Biology Society

Institution's Innovation Council

Organizes Field & Exposure visit to

Atal Incubation Centre

Jyothy Institute of Technology Foundation (AIC-JITF) Bangalore

Date: 29th August 2025
Time: 9.30am
Venue: Atal Incubation Center, Jyothy Institute of Technology, Bangalore
Participants: Students of 5th sem, ECE, BNMIT

Organizers

Dr. Yasha Jyothi M Shirur, Professor & HOD, Dept. of ECE, BNMIT
Dr. Jyoti R Munavalli, Professor & Head, ED Cell, BNMIT
Dr. Vrunda Kusanur, Associate Professor, Dept. of ECE, BNMIT
Dr. Sujaya B L, Associate Professor, Dept. of ECE, BNMIT
Prof. Kiran k N, Assistant Professor, Dept. of ECE, BNMIT

Sri. Narayan Rao R. Maanay, Chairman GB, BNMIT
Prof. T. J. Rama Murthy, Director, BNMIT
Dr. S. Y. Kulkarni, Additional Director & Principal, BNMIT
Prof. Eishwar N. Maanay, Dean, BNMIT
Dr. Krishnamurthy G. N., Deputy Director, BNMIT

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Report of "EntreprenYOU: Crafting Your Startup Story in College"

Title of the event: "EntreprenYOU: Crafting Your Startup Story in College"

Date: 23rd July 2025 Time: 12:00 PM to 1:30 PM

Venue: N block, N-401, BNMIT Participants: 80

Overview:

The event "EntreprenYOU" was organized at B.N.M. Institute of Technology (BNMIT) with the support of the Institution's Innovation Council (IIC), Entrepreneurship Development Cell – BNMIT, and IEEE BNMIT Student Branch. The session aimed to inspire students to explore entrepreneurship during their college years and encouraged them to transform ideas into meaningful actions. The event highlighted how students can leverage the opportunities and resources available in college to start innovative ventures.

Event Proceedings:

1. The session featured an inspiring talk by Mr. Rana Vivek Singh, Co-Founder and CEO of Magicroll.ai, who shared his journey of building AI-based products as a student. He spoke about how starting with small ideas and experimenting during college helped him scale his concept into a successful venture.
2. Mr. Singh emphasized that college is an ideal time to start a startup, as students have access to resources, collaboration with peers, and the freedom to experiment without major risks. His experiences motivated students to think creatively, take initiative, and explore entrepreneurship beyond academics.
3. The event also included an interactive Q&A session, where students asked questions about finding co-founders, validating startup ideas, managing time between academics and entrepreneurship, and approaching investors. Mr. Singh's practical insights and honest advice provided valuable guidance for aspiring student entrepreneurs.

Objective:

The objective of EntreprenYOU was to encourage students to explore entrepreneurship, innovation, and startup culture during their academic journey. The event aimed to motivate students to develop ideas, collaborate with peers, and take the first steps toward building impactful ventures.

Conclusion:

The EntreprenYOU session successfully inspired students to view college as an opportunity to experiment, innovate, and pursue entrepreneurial ambitions. Through the speaker's journey and the engaging discussion,

participants gained practical insights into building startups and overcoming challenges. The event concluded on a positive and motivating note, encouraging students to transform ideas into action and pursue innovation with confidence.

Event Images:

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Report of "Student Executive Committee Meeting"

Title of the event: "Student Executive Committee Meeting"

Date: 17th July 2025 Time: 11:00 AM to 4:00 PM

Venue: Online Participants: 41

Overview:

The IEEE EMBS Student Branch Chapter at B.N.M. Institute of Technology (BNMIT) conducted an Executive Committee (Execom) Meeting on 17th July 2025 in online mode. The meeting focused on reviewing previous activities and planning the calendar of events for the upcoming academic year, with discussions centered on organizing technical programs, professional development activities, and collaborative initiatives within the IEEE chapters.

Event Proceedings:

1. The meeting began with a review of past activities, followed by discussions on proposed events such as hands-on workshops, expert speaker sessions on biomedical imaging and AI in healthcare, and student project showcases. Responsibilities for organizing these events were assigned to Execom members based on their interests and strengths to ensure smooth execution.
2. A key part of the discussion focused on planning the upcoming Entrepreneurship Talk, which will feature an industry expert speaking on innovation in biomedical startups. The team also discussed the Alumni Interaction and Felicitation Event scheduled for 26th July, aimed at recognizing senior IEEE Student Branch members for their contributions and providing a platform for them to share their experiences and guidance with junior members.
3. Additionally, the team explored technical collaborations between the EMBS and SPS chapters for events on topics such as signal processing in healthcare, machine learning for disease detection, and neurotechnology. Tasks related to design, publicity, documentation, and vTools reporting were distributed among members with clear timelines.

Objective:

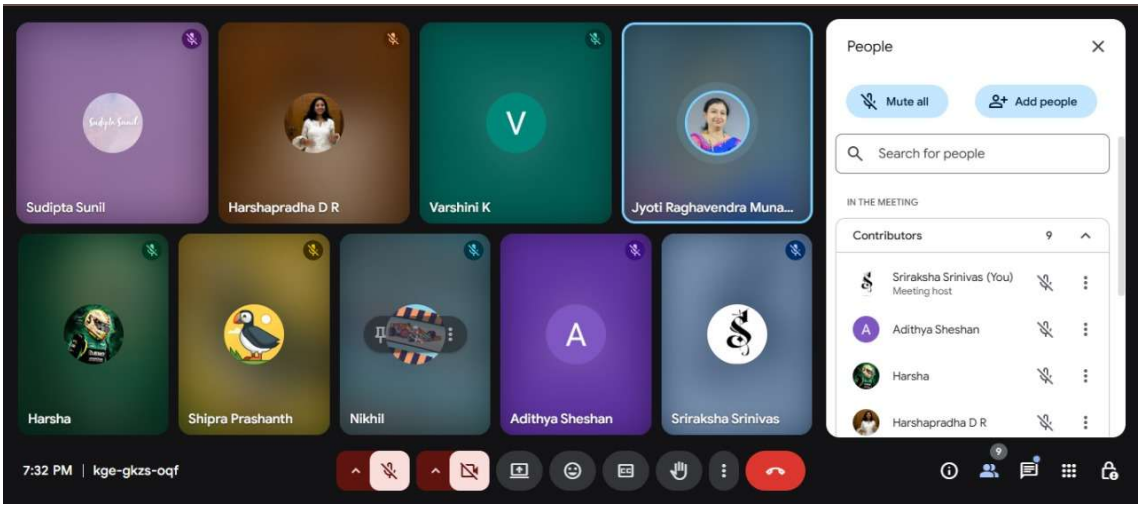
The objective of the meeting was to strategically plan technical, professional, and community-building activities for the IEEE EMBS BNMIT chapter, while ensuring effective coordination among team members and strengthening collaboration with other IEEE societies.

Conclusion:

The meeting concluded with enthusiasm and a collective commitment from the executive members to organize

technically enriching and engaging events throughout the academic year. With clear role distribution and active participation from the team, the IEEE EMBS BNMIT chapter aims to continue fostering innovation, collaboration, and professional growth among students.

Event Images:



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Report of "Hackathon on Signal Processing Applications using MATLAB"

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

Date: 23rd April 2025 Time: 1:15 PM to 5:15 PM

Venue: N-502, N-504, N-505, N-605, BNMIT Participants: 130

Overview:

The Department of Electronics and Communication Engineering at BNM Institute of Technology (BNMIT), in association with IEEE Signal Processing Society (SPS), IEEE Engineering in Medicine and Biology Society (EMBS), and IEEE Geoscience and Remote Sensing Society (GRSS), organized a "Hackathon on Signal Processing Applications using MATLAB" on 23rd April 2025. The event aimed to provide students with an opportunity to apply theoretical knowledge of signal processing to real-world problems through hands-on challenges involving audio and image processing.

Event Proceedings:

1. The hackathon commenced at 1:15 PM, where participants selected one problem statement from a set provided earlier. The challenges focused on practical signal processing tasks such as audio signal cleaning, classification, image filtering, and recognition, all implemented using MATLAB and its specialized toolkits.
2. Students worked individually or in teams to design and implement their solutions. At 3:00 PM, the evaluation session began, where each team presented a brief PowerPoint explaining their chosen problem, methodology, code implementation, and results. This was followed by a live demonstration of the MATLAB solution before a panel of evaluators from the department, who assessed the projects based on innovation, technical accuracy, and effectiveness.

Objective:

The objective of the hackathon was to bridge the gap between theoretical learning and practical implementation by encouraging students to apply signal processing concepts to real-world applications. The event also aimed to enhance problem-solving skills, teamwork, and familiarity with MATLAB tools used in audio and image processing.

Conclusion:

The Hackathon on Signal Processing Applications using MATLAB provided a dynamic platform for students to apply their knowledge in a practical and competitive environment. The event encouraged creativity, collaboration,

and technical innovation while reinforcing BNMIT's focus on experiential and interdisciplinary learning. The department expressed gratitude to the convenors Dr. Lakshmi Bhaskar and Dr. Sujaya B L, and acknowledged the support and guidance of Dr. Yasha Jyothi M Shirur, Dr. Priya R. Sankpal, Dr. Jyoti R. Munavalli, and Dr. Keerthi Kulkarni in successfully organizing the event.

Event Images:

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Report of "Ocular Surface Assessment"

Title of the event: "Ocular Surface Assessment"

Date: 19th February 2025 Time: 10:30 AM to 5:30 PM

Venue: N block, N-401, BNMIT Participants: 41

Overview:

The Centre of Excellence – Healthcare and Smart Technologies and the Department of Electronics and Communication, BNM Institute of Technology (BNMIT) organized an "Ocular Surface Assessment" screening session on 19th February 2025 for 4th and 6th semester students (2023 and 2022 batches), with a total of 41 participants. The program was conducted in association with Autoyos Pvt. Ltd., IEEE-SPS, and IEEE-EMBS BNMIT Student Chapters, under the guidance of Dr. Jyoti R. Munavalli, Professor, Department of ECE, BNMIT.

Event Proceedings:

1. The session involved screening students for dry eye conditions using advanced diagnostic tools. The team from Autoyos Pvt. Ltd. demonstrated innovative technologies designed to detect and analyze ocular surface conditions. Participants underwent screening procedures that assessed tear quality and overall eye health, helping identify early signs of dry eye syndrome.
2. The session also included guidance on preventive eye care practices, emphasizing the importance of early detection to avoid long-term eye damage.

Objective:

The objective of the screening program was to identify early signs of dry eye syndrome among students and raise awareness about eye health. The event aimed to utilize advanced diagnostic technologies to promote early detection and encourage preventive care for maintaining healthy vision.

Conclusion:

The Ocular Surface Assessment screening session successfully provided students with valuable insights into their eye health and highlighted the importance of early diagnosis of dry eye conditions. The initiative demonstrated how innovative healthcare technologies can support preventive eye care. Special thanks were extended to Dr. Bharathkumar Hegde, PhD, Co-Founder and CEO of Autoyos Pvt. Ltd., and his team for their support and efforts in conducting the screening session.

Event Images:

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Report of "Eye-Care in the Modern World: Innovative Solutions for Dry Eye Diagnosis and Prevention"

Title of the event: "Eye-Care in the Modern World: Innovative Solutions for Dry Eye Diagnosis and Prevention"

Date: 18th February 2025 Time: 11:00 AM to 4:00 PM

Venue: N block, N-401, BNMIT Participants: 60

Overview:

The Centre of Excellence – Healthcare and Smart Technologies and the Department of Electronics and Communication, BNM Institute of Technology (BNMIT) organized a talk titled "Eye-Care in the Modern World: Innovative Solutions for Dry Eye Diagnosis and Prevention" on 18th February 2025. The event was conducted for 4th and 6th semester students (2023 and 2022 batches) with around 60 participants. The program was organized in association with Autoyos Pvt. Ltd., IEEE-SPS, and IEEE-EMBS BNMIT Student Chapters, under the guidance of Dr. Jyoti R. Munavalli, Professor, Department of ECE, BNMIT.

Event Proceedings:

1. The session focused on the growing issue of dry eye syndrome, a condition caused when the eyes do not produce enough tears or when tear quality is poor. The speaker explained the causes, symptoms, and diagnosis techniques related to dry eye conditions and emphasized how modern lifestyle habits—such as prolonged screen exposure, increased indoor activities, environmental factors, and aging—have contributed to the rise in cases.
2. Students were also introduced to innovative technological solutions for diagnosing and preventing dry eye syndrome. The talk highlighted the importance of proper eye care practices, early diagnosis, and awareness in managing this condition effectively.

Objective:

The objective of the program was to create awareness about dry eye syndrome and its increasing prevalence in the modern digital era, while educating students about diagnostic technologies, preventive measures, and the role of healthcare innovations in addressing eye health issues.

Conclusion:

The talk successfully increased awareness among students about the importance of eye health and preventive care in the modern world. By highlighting both medical insights and technological solutions for diagnosing and managing dry eye syndrome, the session encouraged students to understand the role of healthcare technologies in addressing emerging public health challenges.

Event Images:

B N M Institute of Technology

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Report of "Scribble Sprint"

Title of the event: "Scribble Sprint"

Date: 22nd June 2024 Time: 2:00 PM to 5:00 PM

Venue: A block, A-215, BNMIT Participants: 46

Overview:

The IEEE EMBS Student Chapter at BNM Institute of Technology (BNMIT) organized an interactive event titled "Scribble Sprint" on 15th October 2024 as part of IEEE Week celebrations. The event combined learning and entertainment, beginning with an inspiring talk by Mr. Anto Ramesh Delvi D, Chairman and Managing Director of RADBLOX Healthcare Services Pvt. Ltd. The session highlighted his journey in the field of radiology and healthcare technology, followed by a fun team-based competition that encouraged creativity, communication, and quick thinking among participants.

Event Proceedings:

1. The event started with a motivational talk by Mr. Anto Ramesh Delvi D, who shared insights from his three-decade-long career in radiology and teleradiology. He spoke about his journey from Ranipet, Tamil Nadu, to becoming a leader in healthcare services and emphasized the importance of innovation and skill development in imaging technologies.
2. Following the talk, the Scribble Sprint competition began at 3:30 PM and included three rounds: Pictionary, Taboo, and Rapid Fire. In the Pictionary round, teams guessed words based on drawings made by their teammates. The Taboo round challenged teams to describe words without using restricted terms, testing their creativity and communication skills. The final Rapid Fire round assessed teams' speed and accuracy through quick questions.
3. At the end of the competition, Team Perky PROcrastinators, led by Sampoornaa Kashyap, secured first place and won a cash prize of ₹1500, while Team Trispectove, led by Riya P Kotharkar, secured second place and won ₹1000. The event concluded with the distribution of goodies, snacks, and appreciation tokens, followed by a group photo.

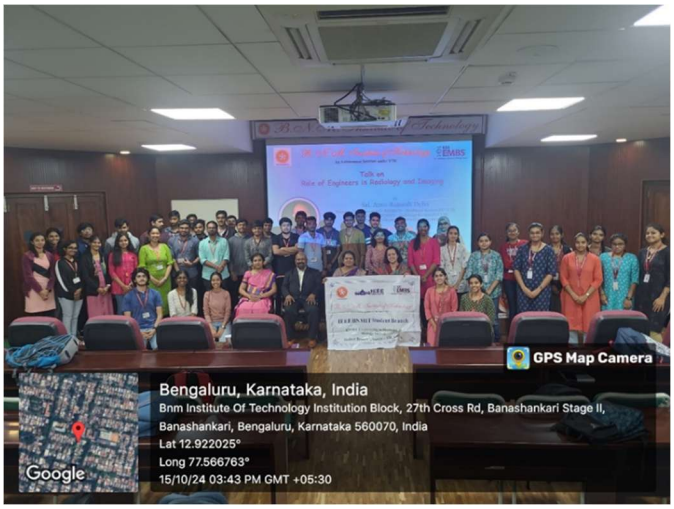
Objective:

The objective of Scribble Sprint was to promote teamwork, creativity, and communication skills among students while providing an engaging platform for interaction during IEEE Week. The event also aimed to inspire participants through the guest speaker's experiences in healthcare technology and encourage students to explore innovation in biomedical and engineering fields.

Conclusion:

The **Scribble Sprint** event was a successful and lively addition to the IEEE Week celebrations at BNMIT. It effectively combined inspiration, learning, and entertainment, allowing students to develop problem-solving and collaboration skills in a fun environment. The enthusiastic participation and engaging activities made the event memorable and reinforced the spirit of innovation and teamwork within the IEEE community at BNMIT.

Event Images:



B N M Institute of Technology

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Report of "IEEE EMBS Inauguration"

Title of the Event: "IEEE EMBS Inauguration"

Date: 28th June 2024 Time: 11:00 AM to 1:30 PM

Venue: A Block, A-215, BNMIT Participants: 43

Organized by:
IEEE Engineering in Medicine & Biology Society – BNMIT Student Branch Chapter and
IEEE BNMIT Student Branch Chapter
B.N.M. Institute of Technology (Autonomous), Bengaluru

Overview:

The IEEE Engineering in Medicine and Biology Society (EMBS) Student Chapter at BNMIT was inaugurated on June 28, 2024, marking an important step toward fostering innovation at the intersection of engineering and healthcare. The ceremony was graced by Sri Veerendra Shetty, Chair of IEEE EMBS and Director and Head of the Media and Medical R&D Group at Samsung Research Bangalore, who attended as the Chief Guest. The event was also attended by Dr. S. Y. Kulkarni, Additional Director and Principal of BNMIT, Prof. Eshwar N. Manaay, Dean of BNMIT, and Dr. KrishnaMurthy G. N, Deputy Director of BNMIT. The inauguration aimed to encourage students to explore advancements in biomedical engineering, healthcare technologies, and interdisciplinary research opportunities.

Event Proceedings:

1. The inauguration ceremony began with a formal welcome to the distinguished guests, faculty members, and students. The highlight of the event was the keynote address by Sri Veerendra Shetty, who spoke about the rapid advancements in medicine and healthcare driven by technological innovation.

2. During his address, he emphasized the role of emerging technologies such as medical devices, telemedicine, and health informatics in transforming healthcare delivery and improving patient outcomes. He also discussed how engineering innovations are streamlining medical processes and enabling more efficient healthcare systems.

3. Sri Shetty further provided valuable insights into career opportunities for engineers in the healthcare domain, highlighting roles such as biomedical engineers, clinical engineers, medical device designers, healthcare IT specialists, and research scientists. His talk inspired students to explore opportunities in the intersection of engineering and healthcare.

4. Following the keynote address, the student leadership team for the IEEE EMBS Student Chapter at BNMIT was officially announced:

- Chair: Misrah Naveed
- Vice Chair: Nidhi Girish

- Secretary: Bharath Y S
- Webmaster: Parinitha DK
- Treasurer: Sriraksha Srinivas

These appointments were made under the guidance of Dr. Priya Sankapal, Faculty Advisor of IEEE EMBS SB BNMIT.

Objective:

The primary objective of establishing the IEEE EMBS Student Chapter at BNMIT is to create a platform for students to engage in the interdisciplinary field of engineering, medicine, and biology. The chapter aims to:

- Promote awareness and knowledge of biomedical engineering and healthcare technologies.
- Encourage research, innovation, and collaboration among students and professionals in the medical technology domain.
- Provide opportunities for students to explore careers in biomedical and healthcare engineering.
- Organize workshops, seminars, and technical activities that bridge engineering solutions with healthcare challenges.

Conclusion:

The inauguration of the IEEE EMBS Student Chapter at BNMIT marked a significant step toward promoting innovation at the intersection of engineering and healthcare. The insightful address by Sri Veerendra Shetty inspired students to explore opportunities in biomedical engineering and medical technology. The event was successfully organized with the efforts of Dr. Priya Sankapal, Dr. Jyothi R. Munavalli, Mrs. Sumanthi A, and the dedicated student organizers. With strong faculty guidance and an enthusiastic student leadership team, the IEEE EMBS Student Chapter at BNMIT is expected to encourage research, collaboration, and meaningful contributions to the field of healthcare technology.

Event Images:

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Report of "Workshop on Medical Imaging at Global Academy of Technology"

Title of the event: "Workshop on Medical Imaging at Global Academy of Technology"

Date: 15th October 2024 Time: 10:30 AM to 5:30 PM

Venue: Global Academy of Technology, Bangalore Participants: 14

Overview:

Members of the IEEE Student Branch (SB) and the Engineering in Medicine and Biology Society (EMBS) from BNM Institute of Technology (BNMIT) attended a Medical Imaging Workshop hosted by Global Academy of Technology. The workshop aimed to provide participants with a comprehensive understanding of modern medical imaging technologies and their role in healthcare diagnostics and research.

Event Proceedings:

1. The workshop began with an introductory session on medical imaging modalities, including X-ray, CT, MRI, and ultrasound, highlighting their importance in diagnosis and treatment planning. Experts then discussed advanced imaging techniques such as functional MRI (fMRI), 3D imaging, and AI-driven image processing.
2. Participants also took part in a hands-on session, where they used imaging tools and software to process and analyze medical images using real-world datasets. The event concluded with discussions on applications and future trends, including the use of imaging in oncology, cardiology, and neurology, as well as emerging technologies like augmented reality for surgical planning and AI-based automated diagnostics.

Objective:

The objective of attending the workshop was to enhance students' knowledge of medical imaging technologies, expose them to practical tools used in image analysis, and provide insights into the integration of AI and machine learning in healthcare diagnostics.

Conclusion:

The participation of IEEE SB and EMBS BNMIT members in the Digital Health Innovation Conclave – Innovate South Asia 2024 provided valuable learning and networking opportunities. The recognition of BNMIT students with the Student Innovation Award highlighted the institute's commitment to innovation in healthcare technology and motivated students to continue contributing to advancements in digital health.

Event Images:

B N M Institute of Technology

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Report of "Digital Health Innovation Conclave – Innovate South Asia 2024"

Title of the event: "Digital Health Innovation Conclave– Innovate South Asia 2024"

Date: 3rd February 2024 Time: 10:30 AM to 5:00 PM

Venue: IIHMR, Bangalore- 560105 Participants: 10

Overview:

The Digital Health Innovation Conclave – Innovate South Asia 2024 was an engaging event that brought together experts, innovators, and students to discuss emerging advancements in digital health technologies. Members from the IEEE Student Branch (SB) and Engineering in Medicine and Biology Society (EMBS) at BNM Institute of Technology (BNMIT) participated in the conclave, contributing to discussions and learning opportunities focused on technology-driven healthcare solutions.

Event Proceedings:

1. A delegation of 8 students and 2 faculty members from IEEE SB and EMBS BNMIT attended the conclave. The event featured keynote speeches, panel discussions, workshops, and innovation showcases centered on digital health. Participants explored topics such as IoT in healthcare, AI-driven health applications, and personalized medicine. BNMIT members actively engaged in these sessions, gaining valuable knowledge and exposure to the latest developments in healthcare technology.
2. A significant highlight of the event was the recognition of a BNMIT student team, which received the Student Innovation Award for their project in digital health. The project demonstrated creativity and strong potential for improving healthcare delivery through technological innovation.

Objective:

The primary objective of participating in the Digital Health Innovation Conclave was to provide students and faculty with exposure to emerging digital health technologies and innovations. The event aimed to encourage collaboration, knowledge sharing, and inspiration for developing technology-based solutions to address modern healthcare challenges.

Conclusion:

The participation of IEEE SB and EMBS BNMIT members in the Digital Health Innovation Conclave – Innovate South Asia 2024 provided valuable learning and networking opportunities. The recognition of BNMIT students with the Student Innovation Award highlighted the institute's commitment to innovation in healthcare technology and motivated students to continue contributing to advancements in digital health.

Event Images: