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.	Lifecycle of Medicine - outreach program in schools	30th July 2026	95
2.	Webinar: 3D Bioprinting	16th July 2026	12
3.	Webinar: Healing the Future with Digital Twins	18th June 2026	29
4.	Her Rhythm – A Conversation on Cycle & Hormonal Health	26th May 2026	84
5.	NadiCare – A HealthTech Hackathon	14th March 2026	153
6.	Annual General Body Meeting (AGM) 2026	14th Feb 2026	90
7.	Life Line: Alerts That Can't Wait	10th February 2026	20
8.	The Evolving Healthcare Landscape: Navigating Change and Driving Progress	10th January 2026	25
9.	Diagnose the Lie – EMBS Quiz	5th January 2026	30
10	The Lifeline Faceoff	16th October 2025	48
11	Poster Presentation on "MATLAB for Real time Application of AIML for Image and Signal Processing"	15th October 2025 -16th October 2025	72
12	BRAND CANVAS – A Logo Design Competition (online)	30th August 2025 - 3rd October 2025	54

13	Visit to Atal Incubation Centre	29th August 2025	55
14	EntreprenYOU: Crafting Your Startup Story in College	23rd July 2025	80
15	Student Executive Committee Meeting	17th July 2025	10
16	Hackathon on Signal Processing Applications using MATLAB	23rd April 2025	130
17	Ocular Surface Assessment	19th February 2025	41
18	Eye-Care in the Modern World: Innovative Solutions for Dry Eye Diagnosis and Prevention	18th February 2025	60
19	Scribble Sprint	15th October 2024	46
20	IEEE EMBS Inauguration	28th June 2024	43
21	Workshop on Medical Imaging at Global Academy of Technology	22nd June 2024	14
22	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 "Lifecycle of Medicine – Outreach Program in Schools"

Title of the Event: "Lifecycle of Medicine – Outreach Program in Schools"

Date: 30th July 2026 Time: 12:00 PM to 2:30 PM

Venue: Capital Public School, 339, 5th Main Road, Kothnur, Chunchgatta, 7th Phase, J.P. Nagar, Bengaluru – 560078 Participants: 95 Students

Organized by:

Department of Electronics and Communication Engineering, B.N.M. Institute of Technology (Autonomous), Bengaluru, in association with IEEE Engineering in Medicine and Biology Society (EMBS) BNMIT Student Branch Chapter, IEEE Geoscience and Remote Sensing Society (GRSS) BNMIT Student Branch Chapter, and IEEE Women in Engineering (WIE) BNMIT Affinity Group.

Overview:

As part of the IEEE Engineering in Medicine and Biology Society (EMBS) BNMIT Student Branch Chapter's commitment to community engagement and STEM education, an outreach program titled **"Lifecycle of Medicine"** was conducted for the Grade 8 students of Capital Public School, J.P. Nagar. The program aimed to introduce students to the journey of medicines and vaccines, from their discovery and development in laboratories to reaching patients, while creating awareness about healthcare, vaccination, and the responsible use of medicines.

The session was designed to make scientific concepts engaging and relatable through storytelling, real-life examples, interactive discussions, quizzes, and classroom activities. The program aimed not only to impart knowledge but also to encourage curiosity and interest in medicine, healthcare, and biomedical engineering.

Event Proceedings:

1. The session commenced with an interactive discussion that encouraged students to think about how medicines are discovered, why they are essential, and how they reach people. Students were introduced to the concept of medicine, its importance, different methods of administration, and various systems of medicine practiced in India.

2. The students were then introduced to the complete life cycle of a medicine, covering the major stages of research and development, pre-clinical testing, clinical trials, large-scale production, and distribution to consumers.

3. Special emphasis was placed on **clinical trials**. Students were introduced to the three phases of clinical testing and learned why medicines need to undergo rigorous safety and effectiveness checks before being approved for public use.

4. The session also covered the history and importance of vaccines through the story of **Edward Jenner**, who developed the first successful vaccine. Different types of vaccines, including oral and injectable vaccines,

were explained using simple and relatable examples. The difference between **vaccination** and **immunization** was also discussed.

5. Students were made aware of healthy practices such as maintaining personal hygiene, proper handwashing, wearing masks during outbreaks, and understanding the importance of immunization cards and emergency health services.

6. To promote active participation, a quiz competition was conducted covering topics such as medicines, vaccines, immunization, clinical trials, healthcare systems, and disease prevention. Students enthusiastically participated, volunteered to answer questions, and engaged in discussions to explain their reasoning.

7. As part of a classroom activity, students were asked to arrange the different stages of the life cycle of a medicine in the correct sequence, starting from research and development and ending with the medicine reaching the consumer. Storytelling, visual presentations, real-life examples, and open discussions were incorporated throughout the session to make learning interactive and enjoyable.

Objective:

The primary objectives of the outreach program were to:

- Educate students about the complete life cycle of medicines and vaccines.
- Create awareness about the importance of medicines in disease prevention and treatment.
- Introduce students to different systems of medicine practiced in India.
- Explain how vaccines are developed, tested, and administered.
- Encourage scientific thinking through interactive learning and problem-solving activities.
- Promote healthcare awareness and healthy practices among school students.
- Spark curiosity and interest in biomedical engineering and healthcare technologies.

Conclusion:

The **"Lifecycle of Medicine"** outreach program successfully introduced Grade 8 students to the journey of medicines and vaccines through storytelling, visual presentations, quizzes, and interactive classroom activities. The students gained a better understanding of medicine development, clinical trials, vaccination, immunization, and the importance of healthy practices in preventing diseases.

The enthusiastic participation of the students reflected their interest in the topics and their willingness to engage with scientific concepts. Overall, the program effectively promoted scientific awareness and healthcare literacy among the students. The activity-based approach made learning enjoyable and helped students connect classroom concepts with real-life applications.

The event was successfully conducted with the support and guidance of **Dr. Lakshmi Bhaskar** and the dedicated efforts of the organizing teams from IEEE EMBS BNMIT Student Branch Chapter, IEEE GRSS BNMIT Student Branch Chapter, IEEE WIE BNMIT Affinity Group, and the Department of Electronics and Communication Engineering, BNMIT.

Event Images:

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Department of Electronics & Communication Engineering

In Association with

IEEE Geoscience and Remote Sensing Society

IEEE Engineering in Medicine & Biology Society

IEEE Women in Engineering

"Lifecycle of Medicine - outreach program in schools"

Date: 30th July 2026
Time: 12.00pm to 2:30pm
Venue: Capital Public School,
339, 5th Main Road, Kothnur, Chunchgatta,
7th Phase, J.P Nagar, Bengaluru-560078

Resource Person

Dr. Lakshmi Bhaskar
Associate Professor
BNMIT, Bengaluru

Dr. Priyadarshini K Desai
Associate Professor
BNMIT, Bengaluru

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BNMIT

Prof. Eishwar N. Maanay
Dean
BNMIT

Dr. Krishnamurthy G. N.
Deputy Director
BNMIT

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Report of "3D Bioprinting" Webinar

Title of the Event: "TECH-Rx – Health Tech Webinar Series: 3D Bioprinting"

Date: 16th July 2026 Time: 7:00 PM to 7:30 PM

Venue: Online (Microsoft Teams) Participants: 12

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 Department of Electronics and Communication Engineering, through the Centre of Excellence – Healthcare and Smart Technology, in association with the IEEE Engineering in Medicine and Biology Society (EMBS) BNMIT Student Branch Chapter, organized an online webinar titled **"TECH-Rx – Health Tech Webinar Series: 3D Bioprinting"** on 16th July 2026. The session aimed to introduce participants to the rapidly evolving field of 3D bioprinting and its transformative applications in healthcare and biomedical engineering.

The webinar was delivered by **Mr. Vishnu P, Assistant Professor, Department of Mechanical Engineering**, who provided an insightful overview of the principles, workflow, applications, challenges, and future opportunities associated with 3D bioprinting.

Event Proceedings:

1. The webinar commenced with an introduction to the emerging field of 3D bioprinting and its growing role in healthcare and biomedical engineering. The speaker explained how additive manufacturing techniques can be used to fabricate biological tissues using bioinks containing living cells.

2. The speaker explained the complete workflow of the bioprinting process, including medical imaging, computer-aided design (CAD), bioink preparation, layer-by-layer printing, and post-printing tissue maturation. The process was explained using relevant examples to help participants understand how biological structures can be created using advanced manufacturing technologies.

3. A significant portion of the session focused on the real-world applications of 3D bioprinting in modern healthcare. The speaker discussed its potential in personalized medicine, patient-specific treatment, surgical planning, and the development of anatomical models.

4. The webinar also highlighted the potential of 3D bioprinting to reduce dependency on organ donors by contributing to research in tissue and organ fabrication. The use of realistic tissue models for pharmaceutical research and drug screening was also discussed.

5. Emerging research trends, current technological challenges, ethical considerations, and future opportunities in the field of 3D bioprinting were presented. The discussion highlighted the interdisciplinary nature of the

field, combining concepts from engineering, biology, medicine, and advanced manufacturing.

6. The session concluded with an interactive question-and-answer segment, where participants actively interacted with the speaker. Questions related to bioinks, printing accuracy, organ fabrication, commercialization challenges, and career opportunities in biomedical engineering and healthcare technology were addressed comprehensively.

Objective:

The primary objectives of the webinar were to:

- Introduce students to the fundamentals and principles of 3D bioprinting.
- Explain the various stages involved in the 3D bioprinting process.
- Highlight the applications of bioprinting in healthcare and biomedical engineering.
- Create awareness about emerging research and technological developments in the field.
- Discuss the challenges, ethical considerations, and future possibilities of 3D bioprinting.
- Encourage students to explore interdisciplinary research and career opportunities at the intersection of engineering, biology, and medicine.

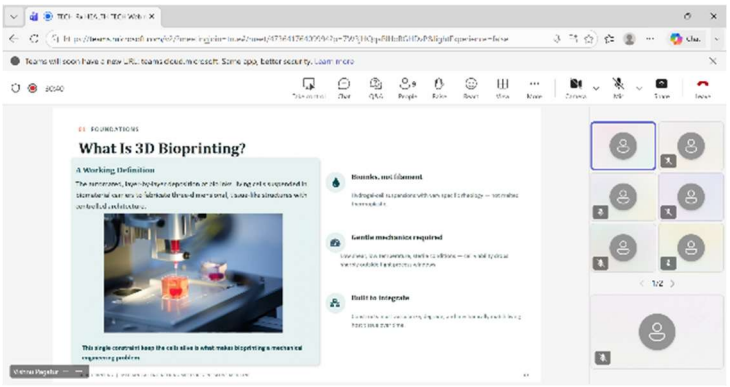
Conclusion:

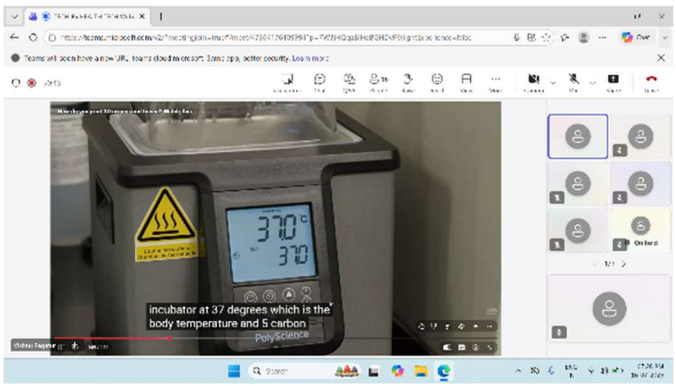
The "TECH-Rx – Health Tech Webinar Series: 3D Bioprinting" successfully provided participants with a foundational understanding of 3D bioprinting and its growing significance in healthcare innovation. The session offered valuable insights into the technology, its applications, current challenges, and future potential.

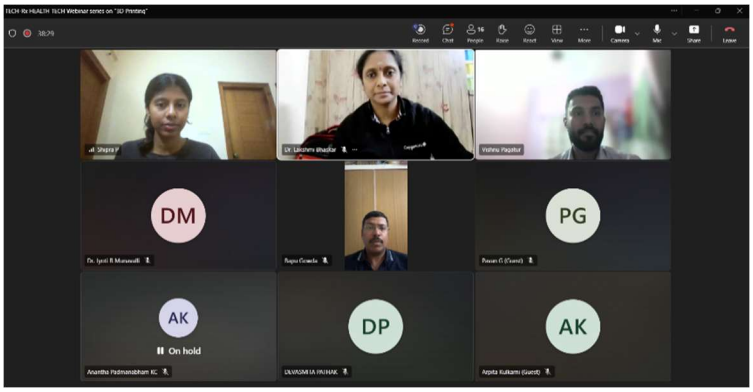
The interactive question-and-answer session further enhanced the learning experience by allowing students to clarify their doubts and engage directly with the speaker. Overall, the webinar encouraged students to explore interdisciplinary research opportunities and highlighted the immense potential of advanced manufacturing technologies in improving patient care and shaping the future of healthcare.

The event was successfully conducted with the guidance of Dr. Lakshmi Bhaskar and the dedicated efforts of the Department of Electronics and Communication Engineering, Centre of Excellence – Healthcare and Smart Technology, and IEEE EMBS BNMIT Student Branch Chapter.

Event Images:







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Report of "Healing the Future with Digital Twins" Webinar

Title of the Webinar: "Healing the Future with Digital Twins"

Date: 18th June 2026 Time: 7:00 PM to 7:30 PM

Venue: Online (Microsoft Teams) Participants: 29

Organized by:

IEEE Engineering in Medicine and Biology Society (EMBS) BNMIT Student Branch Chapter, in association with the Centre of Excellence (COE) – Healthcare and Smart Technology, ED Cell, and the Department of Electronics and Communication Engineering, B.N.M. Institute of Technology (Autonomous), Bengaluru.

Overview:

As part of the Tech Rx – HealthTech Webinar Series, the IEEE Engineering in Medicine and Biology Society (EMBS) BNMIT Student Branch Chapter, in association with the Centre of Excellence (COE) – Healthcare and Smart Technology, ED Cell, and the Department of Electronics and Communication Engineering, BNMIT, organized the inaugural webinar of the series titled "Healing the Future with Digital Twins."

The webinar was delivered by Prof. Karanam Vasudha, Assistant Professor, Department of Electrical and Electronics Engineering, BNMIT. The session introduced participants to the concept of Digital Twins and explored their growing applications in healthcare and digital health.

Tech Rx is a HealthTech webinar series launched to explore the growing convergence of healthcare and technology. The series aims to provide students and professionals with insights into emerging technologies such as Artificial Intelligence, Digital Health, Medical IoT, Robotics, Digital Twins, Wearable Technologies, and Data Analytics. Through expert-led sessions, the initiative promotes interdisciplinary learning, discusses real-world healthcare applications, highlights research and career opportunities, and encourages innovation in biomedical engineering.

Event Proceedings:

1. The webinar commenced with an introduction to the Tech Rx – HealthTech Webinar Series and its objective of exploring emerging technologies at the intersection of healthcare and engineering. The inaugural session focused on the rapidly developing field of Digital Twin technology.

2. Prof. Karanam Vasudha introduced the concept of Digital Twins, explaining them as virtual replicas of physical systems that enable real-time monitoring, simulation, and predictive analysis. The fundamental principles and working of Digital Twin technology were discussed with relevant examples.

3. The session highlighted the growing applications of Digital Twins in modern healthcare. The speaker explained how the technology can support patient monitoring, personalized treatment planning, predictive maintenance of medical equipment, and improved clinical decision-making.

4. Practical industry use cases and ongoing research directions in digital healthcare were presented to

demonstrate the potential of Digital Twins in addressing real-world healthcare challenges. The session also provided insights into possible student projects and areas for further exploration.

5. The webinar further highlighted the emerging career and research opportunities associated with Digital Twins and digital healthcare. Students were encouraged to explore interdisciplinary fields involving healthcare, engineering, artificial intelligence, data analytics, and simulation technologies.

6. Despite being a concise 30-minute session, the webinar provided participants with a comprehensive introduction to Digital Twin technology and its potential to transform healthcare delivery. An interactive discussion at the end of the session encouraged participants to ask questions and explore the possibilities of emerging healthcare technologies.

Objective:

The primary objectives of the webinar were to:

- Introduce students to the fundamentals of Digital Twin technology.
- Explain the role of Digital Twins in transforming modern healthcare.
- Highlight applications such as patient monitoring, personalized treatment, and predictive maintenance.
- Provide insights into real-world industry applications and ongoing research.
- Encourage students to explore interdisciplinary projects and research opportunities.
- Create awareness about emerging career opportunities in digital healthcare and biomedical engineering.
- Promote innovation at the intersection of healthcare and advanced technologies.

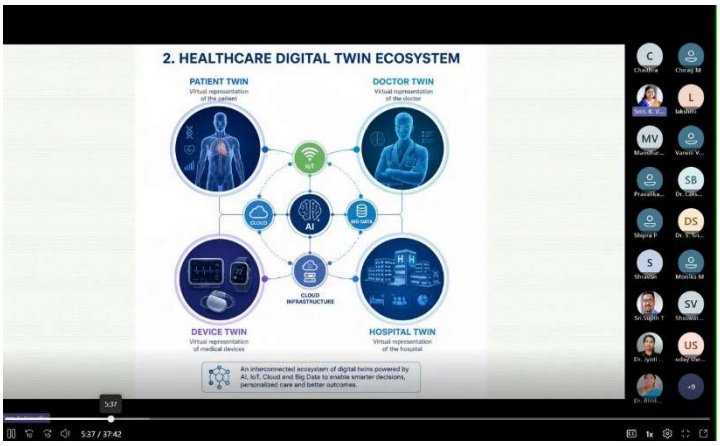
Conclusion:

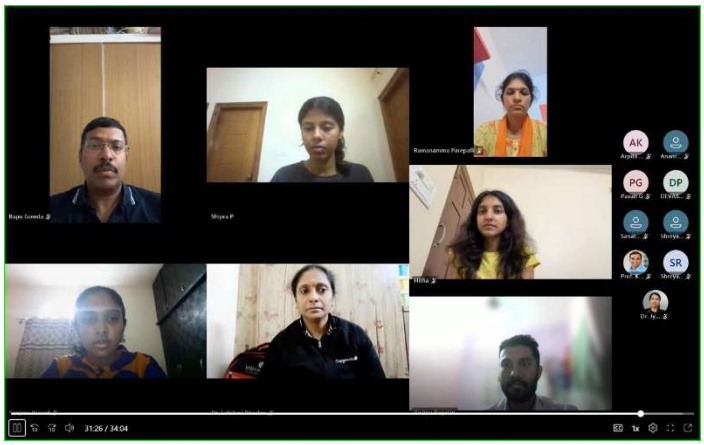
The inaugural "Tech Rx – HealthTech Webinar Series: Healing the Future with Digital Twins" successfully introduced 29 participants to one of the most promising technologies shaping the future of healthcare. The session provided valuable insights into the fundamentals, applications, research directions, and career opportunities associated with Digital Twins.

The interactive nature of the session encouraged students to explore how emerging technologies can contribute to improved healthcare delivery and patient care. As the inaugural webinar of the Tech Rx HealthTech Webinar Series, the event successfully established a foundation for future discussions on cutting-edge healthcare technologies and inspired participants to further explore innovation in biomedical engineering and digital health.

The event was successfully conducted under the guidance of Dr. Lakshmi Bhaskar with the dedicated efforts of IEEE EMBS BNMIT Student Branch Chapter, the Centre of Excellence – Healthcare and Smart Technology, ED Cell, and the Department of Electronics and Communication Engineering, BNMIT.

Event Images:





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Report of "Her Rhythm – A Conversation on Cycle & Hormonal Health"

Title of the Event: "Her Rhythm – A Conversation on Cycle & Hormonal Health"

Date: 26th May 2026 Time: 11:30 AM to 12:30 PM

Venue: N401 – Seminar Hall, BNMIT Participants: 84

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

Overview:

The Department of Electronics and Communication Engineering, in association with IEEE Engineering in Medicine and Biology Society (EMBS) BNMIT Student Branch Chapter and IEEE Women in Engineering (WIE) BNMIT Affinity Group, organized an informative and interactive session titled "HER RHYTHM – A Conversation on Cycle & Hormonal Health with Ruthu" on 26th May 2026 at N401 Seminar Hall, BNMIT. The event was conducted with the objective of creating awareness among students about menstrual health, hormonal balance, and overall physical and emotional well-being.

The session was conducted by Ms. Varsha R and Ms. Sridevi K S, Software Engineers from Techcanopy Software Labs. The speakers addressed various aspects of menstrual and hormonal health while encouraging students to engage in open and meaningful conversations about women's health.

Event Proceedings:

1. The session commenced with an introduction to menstrual and hormonal health, highlighting the importance of understanding the menstrual cycle and maintaining overall well-being. The speakers encouraged students to approach women's health topics with awareness and without hesitation.

2. The speakers discussed important aspects of menstrual cycles, hormonal balance, irregular periods, lifestyle habits, stress management, nutrition, and emotional well-being. Practical insights were provided to help students better understand their bodies and adopt healthier lifestyle practices.

3. A key highlight of the session was the live demonstration of the Ruthu application. The speakers introduced the various features of the application and explained how it can assist users in tracking menstrual cycles, recording symptoms, monitoring hormonal health, and receiving personalized health insights.

4. The demonstration also highlighted the role of technology in women's healthcare, showcasing how digital tools can make health tracking and awareness more accessible and user-friendly.

5. The session emphasized the importance of breaking the stigma surrounding women's health and

encouraged students to engage in open conversations about menstrual and hormonal health. The speakers also highlighted the connection between lifestyle, nutrition, stress, and overall well-being.

6. The event concluded with an interactive question-and-answer session. Students actively participated and raised questions related to menstrual health, hormonal balance, lifestyle management, and the practical use of the Ruthu application. The speakers addressed the queries effectively and shared valuable health-related insights and practical tips.

Objective:

The primary objectives of the session were to:

- Create awareness about menstrual and hormonal health among students.
- Promote a better understanding of menstrual cycles and hormonal balance.
- Educate students about healthy lifestyle practices, nutrition, and stress management.
- Encourage open conversations and help reduce the stigma surrounding women's health.
- Highlight the importance of physical and emotional well-being.
- Demonstrate the use of technology in promoting awareness and supporting women's healthcare.
- Introduce students to the features and practical applications of the Ruthu health-tracking platform.

Conclusion:

The “HER RHYTHM – A Conversation on Cycle & Hormonal Health with Ruthu” session successfully created awareness about menstrual health, hormonal balance, and overall well-being among the 84 participating students. The combination of expert discussion, practical health insights, and the live demonstration of the Ruthu application made the session informative, relevant, and engaging.

The interactive discussion encouraged students to ask questions and develop a better understanding of menstrual and hormonal health. The event also reinforced the importance of open conversations, health education, and responsible use of technology in supporting women's healthcare.

Overall, the event was successfully conducted with the guidance of Dr. Lakshmi Bhaskar and the dedicated efforts of the Department of Electronics and Communication Engineering, IEEE EMBS BNMIT Student Branch Chapter, IEEE WIE BNMIT Affinity Group, and the student organizers.

Event Images:

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Report of "NadiCare – A HealthTech Hackathon"

Title of the Event: "NadiCare – A HealthTech Hackathon"

Date: 14th March 2026 Time: 9:00 AM to 6:00 PM

Venue: S-Block, BNMIT Campus Participants: 153

Organized by:

IEEE Signal Processing Society (SPS) in association with
IEEE Engineering in Medicine and Biology Society (EMBS), IEEE Bangalore Section,

Institution of Engineers (India) (IEI), and Indian Society for Technical Education (ISTE)
B.N.M. Institute of Technology (Autonomous), Bengaluru

Overview:

NadiCare – A HealthTech Hackathon was an innovation-driven technical event organized to encourage students to develop impactful solutions for real-world healthcare challenges. The hackathon aimed to cultivate a problem-solving mindset by bridging engineering and medical sciences and providing participants with a platform to apply interdisciplinary knowledge to meaningful and socially relevant healthcare innovations.

The event was successfully conducted on 14th March 2026, from 9:00 AM to 6:00 PM at the S-Block, BNMIT campus. With 153 participants, the hackathon created an energetic and competitive environment that encouraged creativity, collaboration, technical innovation, and practical problem-solving.

Event Proceedings:

1. The hackathon commenced with an introduction to the objectives and significance of HealthTech innovation. Participants were encouraged to identify real-world healthcare challenges and develop practical solutions using engineering and technological approaches.

2. Students participated in teams of two to three members, promoting teamwork, knowledge sharing, and the exchange of diverse ideas. Each team was tasked with developing solutions aimed at improving healthcare accessibility, enabling early and accurate diagnosis, and enhancing patient monitoring and care.

3. The hackathon featured two major tracks: Hardware and Software. The Hardware track enabled participants to work on embedded systems, medical devices, and smart healthcare solutions, while the Software track focused on intelligent applications, Artificial Intelligence-based solutions, and digital healthcare technologies.

4. Participants explored technologies including Artificial Intelligence (AI), signal processing, embedded systems, and smart health monitoring systems. The event encouraged students to move beyond theoretical concepts and develop functional prototypes or deployable software solutions with real-world applicability.

5. A major highlight of NadiCare was the involvement of industry experts and mentors from reputed organizations including Subhanu Technologies, GTM4Health, Autoyos Pvt. Ltd., TechCrafter, SkyBrain

Neurotech, Nexstem, IIHMR Bangalore, RenalyxHealth Pvt. Ltd., and S-VYASA. The mentors interacted with teams, provided technical guidance, helped refine ideas, and offered insights into industry requirements and healthcare applications.

6. The competition recognized innovation through three award categories: Hardware, Software, and MedTech Innovators. The MedTech Innovators category provided special recognition to interdisciplinary solutions that demonstrated significant potential for healthcare impact.
7. Throughout the event, participants gained hands-on experience in problem-solving, rapid prototyping, teamwork, communication, time management, and adaptability. The time-bound nature of the hackathon challenged teams to develop and refine their solutions while working under practical constraints.
8. The hackathon also promoted peer learning, with participants sharing ideas and approaches with other teams. This created an environment where students could learn from different perspectives and gain a broader understanding of healthcare technology and innovation.
9. With a total prize pool of ₹35,000, the event motivated participants to develop innovative, practical, and scalable solutions. Teams were encouraged to consider important real-world factors such as cost, accessibility, usability, efficiency, and feasibility while developing their solutions.
10. Beyond the competitive aspect, NadiCare emphasized the importance of translating academic knowledge into real-world applications. The event demonstrated how engineering principles can be applied to address pressing healthcare challenges and highlighted the growing role of technology in improving diagnosis, treatment, monitoring, and patient care.

Objective:

The primary objectives of the hackathon were to:

- Encourage students to develop innovative solutions for real-world healthcare challenges.
- Bridge the gap between engineering, technology, and medical sciences.
- Promote interdisciplinary collaboration and problem-solving.
- Provide hands-on exposure to rapid prototyping and technology development.
- Encourage the application of AI, signal processing, embedded systems, and smart healthcare technologies.
- Develop practical and scalable solutions that address healthcare accessibility and patient care.
- Provide students with opportunities to interact with industry professionals and receive expert mentorship.
- Foster essential skills such as teamwork, communication, critical thinking, adaptability, and time management.
- Encourage students to consider cost, usability, accessibility, and efficiency while designing healthcare solutions.
- Inspire students to explore further research and career opportunities in the growing HealthTech domain.

Conclusion:

NadiCare – A HealthTech Hackathon successfully served as a dynamic platform for innovation, collaboration, mentorship, and learning. By bringing together students, faculty, mentors, and industry professionals, the event fostered a culture of creativity, responsibility, and practical problem-solving among aspiring engineers.

The hackathon demonstrated how academic knowledge can be translated into meaningful healthcare solutions and emphasized the importance of interdisciplinary innovation in addressing contemporary healthcare challenges. The enthusiastic participation of 153 students and the involvement of industry experts contributed significantly to the success of the event.

Overall, NadiCare successfully highlighted the transformative potential of HealthTech and inspired participants to continue exploring technology-driven solutions that can improve healthcare delivery and contribute positively to society.

Event Images:

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Report of "Annual General Body Meeting (AGM) 2026"

Title of the Event: "Annual General Body Meeting (AGM) 2026"

Date: 14th February 2026 Time: 2:00 PM to 4:00 PM

Venue: N401, B.N.M. Institute of Technology Participants: 90

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

Overview:

The Annual General Body Meeting (AGM) 2026, organized by the Department of Electronics and Communication Engineering in association with the IEEE Student Branch BNMIT, brought together representatives from various IEEE Student Branch Chapters, Affinity Groups, and Special Interest Groups functioning under the IEEE BNMIT Student Branch. The meeting served as a platform to review the achievements and activities of the previous year, recognize the contributions of student volunteers, and establish a roadmap for the upcoming year.

Representatives from CAS, CIS, RAS, CS, PES, VTS, SMCS, GRSS, EMBS, TEMS, SPS, COMSOC, and WIE actively participated in the event. The AGM provided an opportunity for the various societies to present their Annual Reports for 2025, highlighting their technical activities, outreach initiatives, workshops, webinars, competitions, membership growth, collaborations, and other major accomplishments.

Event Proceedings:

1. The AGM commenced with a formal gathering of representatives from the various IEEE Student Branch Chapters, Affinity Groups, and Special Interest Groups under the IEEE BNMIT Student Branch. The meeting focused on reviewing the achievements of the previous year and discussing plans for the upcoming tenure.

2. Each IEEE Society and Affinity Group presented a summary of its activities conducted during 2025. The presentations highlighted the number of technical and professional events organized, outreach initiatives, student participation, membership statistics, collaborations, achievements, and key milestones.

3. The annual presentations provided a comprehensive overview of the collective contribution of the IEEE BNMIT Student Branch and its associated societies towards promoting technical excellence, professional development, innovation, and student engagement.

4. The session also provided an opportunity for members to share their experiences, successful initiatives, and best practices. This encouraged knowledge exchange and strengthened collaboration among the different IEEE societies.

5. One of the major highlights of the AGM was the introduction and formal recognition of the newly elected

office bearers for the upcoming tenure. The new leadership teams of the various IEEE societies were introduced, and their respective roles and responsibilities were discussed to ensure a smooth transition and continuity of activities.

6. A certificate distribution and felicitation ceremony was conducted to recognize the contributions of outgoing office bearers and volunteers. Certificates of appreciation were presented in acknowledgement of their dedication, leadership, and valuable efforts towards the success of the IEEE Student Branch and its various societies.

7. The meeting further focused on the annual activity plan for 2026. Representatives proposed plans for technical events, workshops, webinars, outreach programs, collaborative activities, competitions, and membership development initiatives.

8. Faculty advisors and student leaders shared valuable suggestions for strengthening interdisciplinary collaboration and increasing student participation across the different IEEE societies. The discussions emphasized the importance of continuity, innovation, and effective teamwork in executing future activities.

Objective:

The primary objectives of the AGM were to:

- Review and present the achievements and activities of the IEEE societies during 2025.
- Recognize and appreciate the contributions of outgoing office bearers and volunteers.
- Introduce and formally recognize the newly elected office bearers for 2026.
- Facilitate knowledge sharing and collaboration among different IEEE societies.
- Discuss and establish the roadmap for activities planned for 2026.
- Encourage greater student participation in technical, professional, and outreach activities.
- Strengthen interdisciplinary collaboration among the various IEEE Student Branch Chapters and Affinity Groups.
- Promote innovation, leadership, technical excellence, and professional development among students.

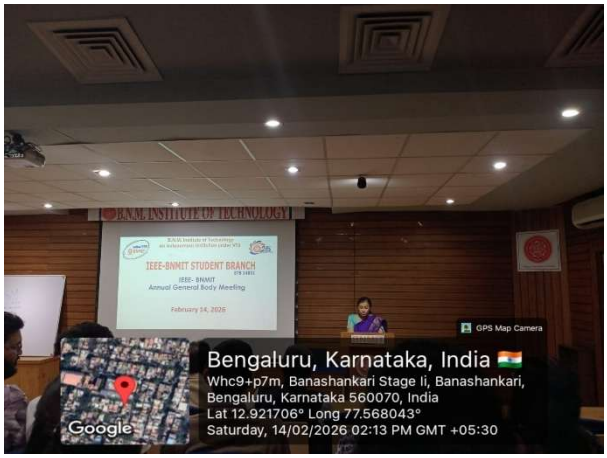
Conclusion:

The Annual General Body Meeting (AGM) 2026 successfully provided a platform to review the achievements of the past year, recognize the dedication of student volunteers, welcome the newly elected leadership teams, and establish a clear vision for the upcoming year's activities.

The presentations and discussions enabled the various IEEE societies to exchange experiences, share successful practices, and identify opportunities for greater collaboration. The felicitation of outgoing office bearers and volunteers acknowledged their valuable contributions, while the induction of the new leadership teams marked the beginning of a new tenure focused on innovation and student engagement.

Overall, the AGM strengthened the spirit of collaboration among the IEEE BNMIT Student Branch communities and reaffirmed their commitment towards technical excellence, innovation, professional growth, leadership, and meaningful student engagement.

Event Images:



B N M Institute of Technology

An Autonomous Institution under VTU

Report of "Life Line: Alerts That Can't Wait"

Title of the Event: "Life Line: Alerts That Can't Wait"

Date: 10th February 2026 Time: 11:00 AM to 2:00 PM

Venue: N605, B.N.M. Institute of Technology Participants: 20

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 "Life Line: Alerts That Can't Wait" hackathon was organized by the IEEE Engineering in Medicine and Biology Society (EMBS) BNMIT Student Branch Chapter in association with the Department of Electronics and Communication Engineering, BNMIT. The event focused on developing innovative solutions for timely medical and emergency alerts using Real-Time Operating Systems (RTOS) and hardware-based interrupt mechanisms.

The hackathon aimed to provide students with practical exposure to designing alert systems that can support rapid communication and response in healthcare environments, particularly in hospital settings. The event encouraged participants to apply their knowledge of embedded systems, real-time processing, and hardware interrupts to address a healthcare-oriented problem.

Event Proceedings:

1. The event commenced with an introduction to the problem statement "Life Line: Alerts That Can't Wait", which focused on the development of an efficient and timely alerting mechanism for healthcare and hospital environments.

2. Students were provided with a specific problem statement and were given a week to conceptualize, design, and develop their proposed solutions. This approach encouraged participants to conduct research, plan their implementation, and work collaboratively towards solving the given problem.

3. The primary technical focus of the hackathon was the implementation of Real-Time Operating Systems (RTOS) and hardware interrupt mechanisms. Students explored how real-time systems can be used to ensure that critical alerts are processed promptly and reliably.

4. During the presentation and demonstration, students showcased their proposed approaches for implementing alert systems. The solutions demonstrated how hardware interrupts can be utilized to trigger and handle critical alerts efficiently in a hospital environment.

5. The event provided students with hands-on exposure to the practical challenges involved in developing healthcare-oriented embedded systems. Participants were encouraged to consider factors such as response time, reliability, system efficiency, and the importance of timely alerts in critical situations.

6. The proposed solutions were presented before the panel, with Dr. Sujaya B L serving as the panel member. The presentations provided an opportunity for students to explain their design approaches, implementation strategies, and the relevance of their solutions to real-world healthcare scenarios.

Objective:

The primary objectives of the hackathon were to:

- Encourage students to develop innovative solutions for healthcare and emergency alert systems.
- Introduce students to the application of **Real-Time Operating Systems (RTOS)** in healthcare.
- Demonstrate the use of hardware interrupts for handling time-critical alerts.
- Provide hands-on experience in designing and implementing embedded healthcare systems.
- Encourage students to apply engineering concepts to real-world medical challenges.
- Develop problem-solving, teamwork, and technical presentation skills.
- Promote innovation at the intersection of embedded systems and biomedical engineering.

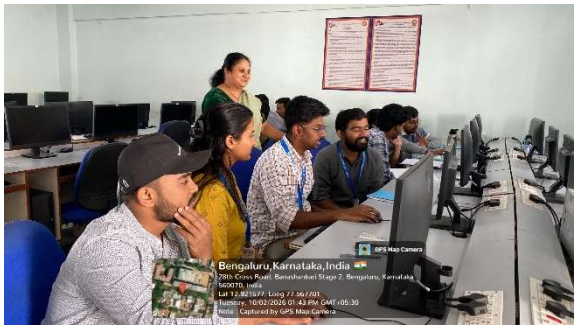
Conclusion:

The “Life Line: Alerts That Can’t Wait” hackathon provided students with an opportunity to apply real-time computing and embedded systems concepts to a healthcare-oriented problem. Through the week-long development period and final presentations, participants gained practical experience in conceptualizing solutions, implementing alert mechanisms, and presenting their technical approaches.

The event successfully demonstrated the importance of timely, reliable, and efficient alert systems in healthcare environments and highlighted how technologies such as RTOS and hardware interrupts can contribute to building responsive medical systems.

Overall, the hackathon encouraged students to think beyond theoretical concepts and explore practical engineering solutions for real-world healthcare challenges. The event was successfully conducted under the guidance of Dr. Lakshmi Bhaskar, with Dr. Sujaya B L serving as the panel member, and with the efforts of IEEE EMBS BNMIT Student Branch Chapter and the Department of Electronics and Communication Engineering.

Event Images:



B N M Institute of Technology

An Autonomous Institution under VTU

Report of "The Evolving Healthcare Landscape: Navigating Change and Driving Progress"

Title of the Event: "The Evolving Healthcare Landscape: Navigating Change and Driving Progress"

Date: 10th January 2026 Time: 11:00 AM

Venue: N402, B.N.M. Institute of Technology Participants: 30

Organized by:
IEEE Engineering in Medicine & Biology Society – BNMIT Student Branch Chapter and
IEEE BNMIT Student Branch Chapter
Centre of Excellence – Healthcare and Smart Technologies
Institution's Innovation Council (IIC)
B.N.M. Institute of Technology (Autonomous), Bengaluru

Overview:

The Innovations and ED Cell – BNMIT, in association with the Centre of Excellence – Healthcare and Smart Technologies, IEEE Engineering in Medicine and Biology Society (EMBS) Student Chapter, and Institution's Innovation Council (IIC) – BNMIT, organized an expert talk titled "The Evolving Healthcare Landscape: Navigating Change and Driving Progress" on 10th January 2026 at N402, BNMIT.

The session focused on Technology Readiness Level (TRL), commercialization, technology transfer, and the development of innovative healthcare products. The event was organized for students and faculty members of BNMIT to provide insights into the evolving healthcare technology landscape and the process of transforming innovative ideas and academic projects into commercially viable products.

The session was delivered by Dr. Bharathkumar Hegde, Co-founder, Autoyos, Bengaluru, who shared valuable insights into emerging healthcare technologies and the importance of developing medical products using cutting-edge technologies.

Event Proceedings:

1. The session commenced with an introduction to the evolving healthcare landscape and the increasing role of advanced technologies in developing innovative medical products. Dr. Bharathkumar Hegde highlighted the need for engineers and researchers to focus on practical and commercially viable healthcare solutions.

2. The speaker discussed the importance of Technology Readiness Level (TRL) in evaluating the maturity of a technology and emphasized the need to progressively transform research ideas and prototypes into solutions that can be deployed in real-world healthcare environments.

3. Dr. Hegde shared examples of innovative healthcare products developed by Autoyos, particularly solutions for Dry Eye Diagnosis. The products discussed included the iRobo autonomous eye screening system and the intelligent dry eye analyzer, demonstrating how emerging technologies can be applied to address

practical healthcare challenges.

4. A key focus of the session was the importance of converting academic projects and research outcomes into commercially viable products. The speaker explained how innovation can create greater societal impact when technical solutions are developed with real-world usability, scalability, and market requirements in mind.

5. The session also highlighted the significance of commercialization and technology transfer in taking innovations from laboratories and academic institutions to industry and end users. Participants gained an understanding of the various factors that need to be considered when moving a technology towards practical implementation.

6. The talk was followed by an interactive session with faculty members, during which discussions were held on potential areas for future collaboration and joint research initiatives. The interaction provided an opportunity to explore possibilities for developing innovative healthcare technologies through academic and industry partnerships.

7. The event concluded with an emphasis on the importance of continuously adapting to changes in the healthcare sector and leveraging emerging technologies to develop solutions that can improve healthcare delivery and patient outcomes.

Objective:

The primary objectives of the expert talk were to:

- Introduce students and faculty members to the concept of Technology Readiness Level (TRL).
- Create awareness about the commercialization of healthcare technologies.
- Explain the importance of technology transfer in taking innovations from research to industry.
- Highlight the process of transforming academic projects into commercially viable products.
- Provide insights into emerging healthcare technologies and industry trends.
- Showcase real-world examples of innovative medical products and diagnostic systems.
- Encourage collaboration between academia and industry in the healthcare technology domain.
- Inspire students and faculty to develop practical, scalable, and impactful healthcare solutions.

Conclusion:

The expert talk “The Evolving Healthcare Landscape: Navigating Change and Driving Progress” successfully provided students and faculty members with valuable insights into the rapidly changing healthcare technology ecosystem. The session highlighted the importance of Technology Readiness Level, commercialization, and technology transfer in transforming innovative ideas into practical solutions that can create meaningful societal impact.

The examples shared by Dr. Bharathkumar Hegde provided participants with a clear understanding of how cutting-edge technologies can be translated into real-world medical products. The interaction with faculty members further opened avenues for potential collaborative research and innovation.

Overall, the event served as an informative platform for understanding the journey from innovation and research to commercialization and real-world healthcare implementation, while encouraging students and faculty to actively contribute to the evolving healthcare landscape.

Event Images:

B N M Institute of Technology

An Autonomous Institution under VTU

Report of "Diagnose the Lie – EMBS Quiz"

Title of the Event: "Diagnose the Lie – EMBS Quiz"

Date: 5th January 2026

Venue: Online Participants: 30

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:

"Diagnose the Lie – EMBS Quiz" was an engaging and interactive online quiz organized by the IEEE Engineering in Medicine and Biology Society (EMBS) Student Chapter, BNMIT. The event was designed to test participants' ability to distinguish between medical facts and common myths, while strengthening their understanding of biomedical engineering, healthcare awareness, and general medical knowledge.

The quiz adopted an interactive approach in which participants were presented with multiple statements and challenged to identify the incorrect one. The activity aimed to promote critical thinking and analytical skills while creating a fun and accessible learning environment around healthcare and biomedical topics.

Event Proceedings:

1. The event commenced with an introduction to the concept and objective of "Diagnose the Lie", encouraging participants to critically evaluate medical information and differentiate scientifically accurate facts from common misconceptions.

2. Participants were presented with a series of carefully curated questions covering topics related to biomedical engineering, healthcare, medical science, and common health myths.

3. Each question consisted of multiple statements, and participants were required to identify the false or incorrect statement based on their knowledge and understanding.

4. The quiz followed a scoring system of one point for every correct answer, with emphasis placed on accuracy, speed, and conceptual understanding.

5. Participants were encouraged to rely on their knowledge and analytical abilities while answering the questions. The format helped make learning interactive while encouraging participants to think critically about commonly encountered medical information.

6. The event witnessed enthusiastic participation from students across various disciplines. Participants actively engaged throughout the quiz, demonstrating curiosity, knowledge, and a healthy competitive spirit.

7. The quiz featured a combination of thought-provoking and educational questions, making the activity both informative and entertaining. The questions also helped participants become more aware of real-world

medical misconceptions.

8. The top-performing participants were recognized as “Top Diagnosticians”, adding a competitive and rewarding element to the event and acknowledging their performance and understanding of the concepts.

Objective:

The primary objectives of the quiz were to:

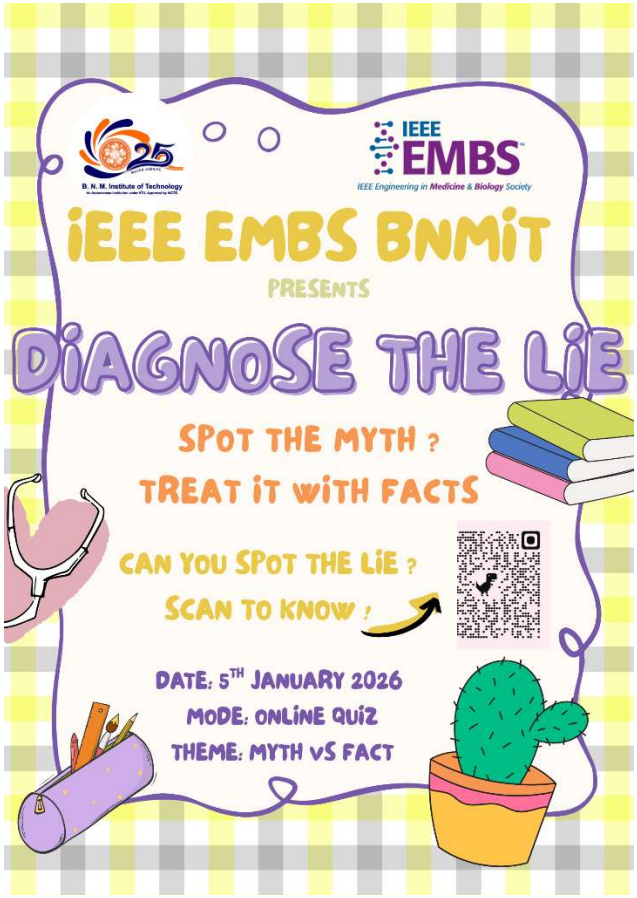
- Enhance awareness of common medical myths and scientifically accurate facts.
- Encourage critical thinking and analytical skills among students.
- Create an engaging learning environment around biomedical and healthcare topics.
- Promote interest in biomedical engineering and healthcare technologies.
- Encourage participants to critically evaluate health-related information.
- Provide an enjoyable platform for learning through interactive quizzes and challenges.

Conclusion:

“Diagnose the Lie – EMBS Quiz” successfully achieved its objective of making learning about healthcare and biomedical topics both fun and impactful. The interactive format encouraged active participation, strengthened conceptual understanding, and promoted awareness of real-world medical misconceptions.

Overall, the event served as an effective initiative by the IEEE EMBS Student Chapter, BNMIT to engage students in biomedical and healthcare-related learning while fostering curiosity, critical thinking, and analytical skills.

Event Images:



An Autonomous Institution under VTU

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:

B N M Institute of Technology

An Autonomous Institution under VTU

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:

B N M Institute of Technology

An Autonomous Institution under VTU

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:

B N M Institute of Technology

An Autonomous Institution under VTU

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:

B N M Institute of Technology

An Autonomous Institution under VTU

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:

B N M Institute of Technology

An Autonomous Institution under VTU

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:

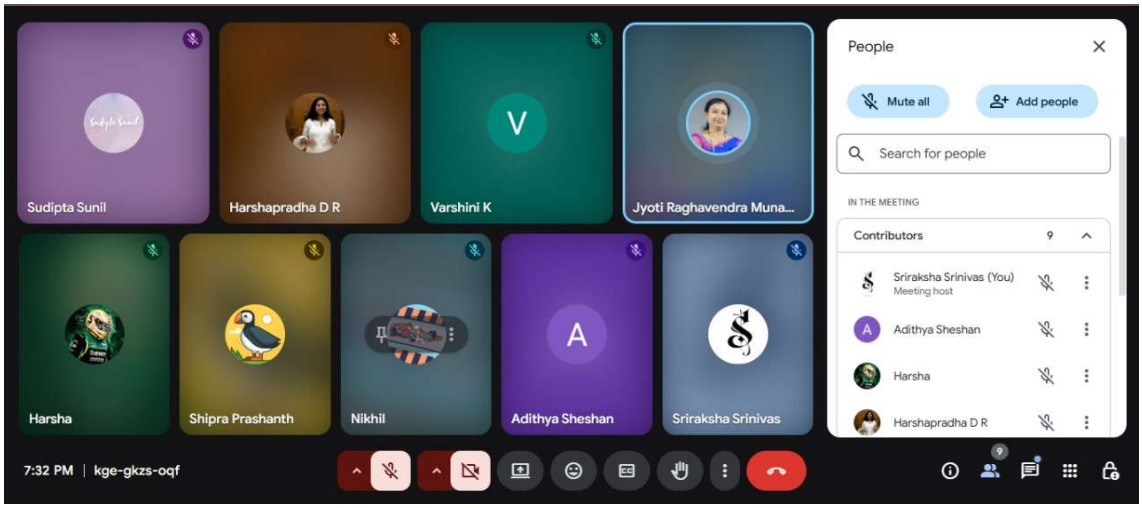
The objective of the meeting was to strategically plan technical, professional, and community-building activities for the IEEE EMBS BNMIT chapter, while ensuring effective coordination among team members and strengthening collaboration with other IEEE societies.

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:



B N M Institute of Technology

An Autonomous Institution under VTU

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:

B N M Institute of Technology

An Autonomous Institution under VTU

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:

B N M Institute of Technology

An Autonomous Institution under VTU

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

An Autonomous Institution under VTU

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.

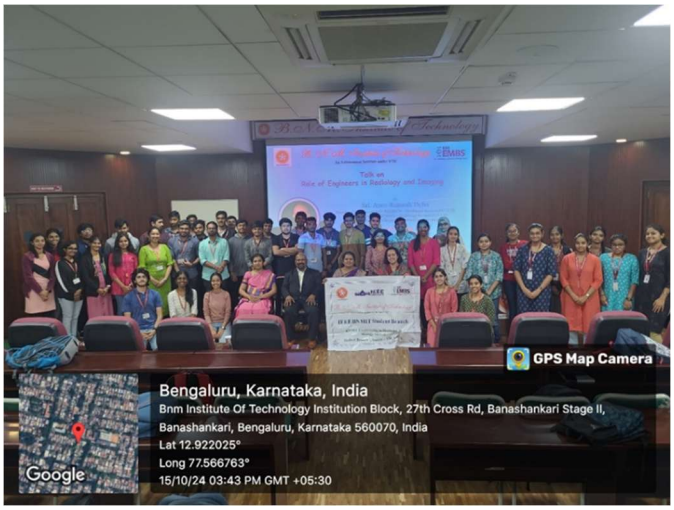
Objective:

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

An Autonomous Institution under VTU

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 "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:

B N M Institute of Technology

An Autonomous Institution under VTU

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: