VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY, ERODE - 12
(Autonomous)

DEPARTMENT OF MEDICAL ELECTRONICS

**ORIENTATION PROGRAMME ON
CODE OF CONDUCT**

ACADEMIC YEAR 2023-2024

1. Special Lecture on Innovation For Business Success

The **Department of Medical Electronics**, in collaboration with the **Institution's Innovation Council (IIC)** and the **Entrepreneurship Development Cell (EDC),** organized a significant event titled **'Special Lecture on Innovation for Business Success'**. This event occurred on **August 2, 2023**, at the designated venue, the 4th Floor Main Block of our college premises.

The primary impetus behind this event was to foster an environment conducive to innovation and entrepreneurship among the students, while simultaneously providing them with profound insights into the pivotal role of innovation in driving successful business outcomes. The event commenced at 11:00 AM and concluded at 1:00 PM.

The distinguished guest speaker for this event was **Mr. K.R. Vijay Sree Sanjay, Chief Operating Officer,** of the eminent **Glow Elite Foundation,** situated in **Krishnagiri**.

He showcased his profound mastery of business operations, strategic management, and innovative paradigms through his valuable lecture. Consequently, his eminence makes him an eminently qualified and credible orator to expound upon the symbiotic relationship between innovation and the attainment of excellence in the career of the attendees.

His ambit would likely encompass a diverse array of domains on how to effectively seize the available opportunities presented to us. He also elaborated on how to approach these opportunities with utmost courage and willpower.

Nonverbal activities that were organized made the students to be creative and was an engaging way to convey the importance of seizing opportunities at the right time. These activities encouraged teamwork, creativity, and nonverbal communication while conveying

stories within a team. The absence of spoken words challenges participants to rely on body language, gestures, and facial expressions to effectively communicate and interpret narratives.

By attending this special lecture, the third and final-year students were bestowed with the insights from an industry expert, broaden their perspectives on innovation and entrepreneurship, and learn about real-world practices that could potentially shape their future career paths. The collaboration between the Department of Medical Electronics, IIC, and EDC showcased the institution's commitment to holistic education, preparing students not only academically but also with the skills and mindset needed for success in the ever-evolving business landscape.

By the end of the event feedback was collected from the students. The strategies for cultivating innovation and fostering an entrepreneurial mindset were particularly engaging. The interactive session allowed for meaningful exchanges with the renowned speaker. Overall, the event was said to be enlightening and relevant to both academic pursuits and future career aspirations.

2. Orientation Programme on Code of Conduct

The Department of Medical Electronics, organized an orientation programme on the **CODE OF CONDUCT** for the 2nd year students on **23rd August, 2023** at Room No. 409, 4th Floor Main Block of our college premises. The programme commenced at 9:15am. A comprehensive overview of the code of conduct was provided to the students by the **Head of the Department, Dr.V.Chandrasekaran**.

The students of 2nd year Medical Electronics gathered with a shared commitment to uphold a 'Code of Conduct' that reflected their dedication in maintaining a respectful, inclusive, and responsible academic environment. This significant occasion marked a reaffirmation of their core values and principles as a community of learners.

The students also emphasized the significance of civil discourse in our interactions, whether in the classroom or in casual conversations, understanding that respectful and open discussion fosters personal growth and a deeper understanding of diverse perspectives. The day's events exemplified the spirit of unity and inclusion, reminding us of the richness that comes from embracing the differences.

The students also reiterated their commitment to concealment and confidentiality, promising to uphold these principles in their interactions. Furthermore, they pledged to be responsible stewards of campus resources, utilizing technology and facilities ethically and responsibly.

Orientation Programme - MDE, Code of Conduct, 4th Floor- Main Block, Velalar College of Engineering and Technology, Thindal, Erode, Tamil Nadu 638012, India
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23/08/23 10:07 AM GMT +05:30

The afternoon was a joyous continuation of this commitment, filled with fun and engaging events that allowed students to bond, relax, and create lasting memories. These activities reinforced the sense of camaraderie and unity within the students, reminding them that while pledging to uphold a Code of Conduct, embracing the importance of enjoying and celebrating their time together creates a vibrant anddynamic academic community.

The day served as a testament to their shared values, fostering an environment characterized by integrity, respect, and responsibility.

3. **INAUGURAL FUNCTION OF STUDENTS' ASSOCIATION MEDIECLETIX, MED TECH CLUB, BMESI AND SBE STUDENTS' FORUM**

In a momentous gathering, the Department of Medical Electronics commemorated a day of significance and promise with the **Inaugural Function of Students' association MEDIECLETIX, MED TECH CLUB, BMESI, and SBE Students' Forum**. The function held on **01st September, 2023** was graced by our esteemed Chief Guest, **Mr. Boopathi Sakthivel, Founder, CEO & Biomedical Engineer, Prashan Medical Technologies, Coimbatore** and **Mr. Tharanitharan, Tech Lead, SM Tech Solutions, Coimbatore.** The event brought the students, and faculty members, to celebrate the convergence of passion, innovation, and collaboration in the realm of medical electronics.

All the four associations emerged as a beacon of interdisciplinary excellence, dedicated in exploring the harmonious amalgamation of Medicine and Electronics. The inaugural ceremony was not only a celebration of the associations but also an opportunity for their leadership teams to share their visions and aspirations. The enthusiasm and dedication displayed by these young minds left an indelible mark, inspiring all in attendance.

In addition to these momentous launches, the day also witnessed the Batch Giving Ceremony, symbolizing the initiation of a new cohort into the vibrant academic community of the Department of Medical Electronics. The audio-visual presentation eloquently showcased the remarkable endeavours of our association.

Inaugural function-MDE Department 2K23, Velalar College of Engineering and Technology,Thindal,Erode, Tamilnadu 638012, India
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Moreover, the Memorandum of Understanding (MoU) Signing Ceremony proves to be a testament to commitment for the collaboration and growth along with Prashan Medical Technologies, Coimbatore. The Chief Guest graced this occasion by sharing invaluable insights, as the day was filled with inspiration and purpose. The event was followed by the Hands-on Training on ventilators.

Ventilator Hands on Taining-MDE Department 2K23, Velalar College of Engineering and Technology,Thindal,Erode, Tamilnadu 638012, India
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During the hands-on ventilator training, students had the opportunity to engage directly with ventilator equipment, gaining valuable insights into their functionality, operation, and maintenance. Under the guidance of experienced instructors and professionals, participants learned to operate ventilators effectively, configure settings, and troubleshoot common issues.

4. TEACHERS' DAY CELEBRATIONS

Teachers' Day is an annual event that holds a special place in our hearts, as we come together to express our deep respect and appreciation for the invaluable contributions of our teachers. This cherished event, which took place on **5th September, 2023**, at the MBA Seminar Hall, is a day dedicated to honouring those who have guided us on our educational journey.

The day commenced with a warm and formal welcome extended to our esteemed teachers. This gathering serves as a meaningful opportunity to underline the importance of this occasion, emphasizing the pivotal role teacher's play in shaping our academic lives.

One of the highlights of our Teachers' Day celebration is the artistic and creative performances put on by our students. These performances encompass musical renditions and well-choreographed dances that not only entertain the audience but also convey heartfelt gratitude and admiration for our dedicated faculty members. Through these artistic expressions, we convey our deep appreciation for the wisdom and guidance that our teachers have generously shared with us.

Teachers' Day Celebration- MDE Department 2K23 , MBA Conference Hall, Velalar College of Engineering and Technology, Thindal, Erode, Tamil Nadu 638012.
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With utmost diligence, the students disseminated meticulously crafted pamphlets to all the staff members as a token of respect and gratitude. The venue was transformed into a visually striking space with vibrant displays, inspiring posters, and thought-provoking quotes, all of which beautifully underscore the profound impact that teachers have on our development.

Teachers' Day Celebration- MDE Department 2K23 , MBA Conference Hall, Velalar College of Engineering and Technology, Thindal, Erode, Tamil Nadu 638012.
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However, Teachers' Day is not just about entertainment; it is also a platform for intellectual engagement. The day serves as an opportunity for the exchange of ideas and knowledge between teachers and students, fostering a culture of mutual learning and development. This dialogue is an essential aspect of the celebration, reminding us of the enduring partnership between educators and learners in the pursuit of knowledge and personal growth.

5. GUEST LECTURE ON CAREER OPPORTUNITIES FOR MEDICAL ELECTRONICS ENGINEERS IN IT SECTOR

Medical Electronics Engineering and the Information Technology (IT) sector have become closely intertwined, presenting a wealth of career possibilities for aspiring Engineers. A **Guest Lecture** was organized under the title **Career Opportunities for Medical Electronics Engineers in IT Sector** on **9th September, 2023** at Fourth Floor Conference Hall, which aimed to provide a comprehensive perspective on this dynamic field. **Mrs.K.Ranipriya, E-Learning Developer, Brainware Technologies, Erode** consented to be the chief guest for this event.

The guest lecture commenced by delving into the way Medical Electronics Engineering interfaces with IT to revolutionize healthcare. It involved the creation and implementation of innovative solutions that enhance patient care, optimize medical processes, and advance data-driven decision-making. The students gained insights into the crucial skills and knowledge necessary to excel in this domain. These encompassed a solid foundation in electronics, proficiency in programming, data analysis capabilities, and a grasp of healthcare protocols and standards.

In addition to all these, the lecture also explored a range of career opportunities available to Medical Electronics Engineers within the IT sector which includes the roles such as Healthcare IT Consultants, Medical Software Developers, Health Informatics Specialists,

Telemedicine Specialists, and Medical Data Analysts. This lecture also touched upon cutting-edge developments, such as Electronic Health Records (EHR), the integration of the Internet of Things (IoT) in healthcare, remote patient monitoring, and the utilization of AI and machine learning in medical diagnostics and treatment.

The students also gained insights into the challenges associated with working at the intersection of healthcare and IT, including data security and regulatory compliance. Simultaneously, the lecture underscored the immense opportunities for innovation and the potential to effect significant change in healthcare. For the students interested in pursuing a career in this field, this lecture no doubt offered guidance on relevant educational programs, certifications, and strategies for skill development to excel in chosen roles.

As a whole, this guest lecture offered unique opportunity to explore a dynamic field. It holds a great promise for individuals who are eager to combine their enthusiasm for technology with a commitment to improving healthcare. This event serves as a launching pad for aspiring Engineers and professionals to embark on a fulfilling journey in this captivating domain.
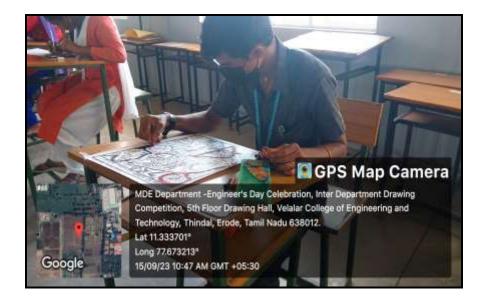
6.   INTER DEPARTMENT DRAWING CONTEST

INDIA IN 2050
WITH ENGINEERS/WITHOUT ENGINEERS

The Department of Medical Electronics felt ecstatic in organizing an **Inter Department Drawing Contest** in view of the **Engineers' Day Celebrations** under the theme, **India in 2050 - With Engineers/Without Engineers**, stood as a unique and thought-provoking platform for young artists to envisage the future of India. This event was held on **15th September, 2023** at 5th Floor Drawing Hall. Dr.S.Devi, Prof./Physics, Dr.M.Govindarajan, ASP/GE and Mrs.D.Shanmugavadivu, AP/Mathematics, VCET served as the jury for this competition.

This competition was more than a simple artistic exercise; it was a profound exploration of the transformative potential of Engineering in our country's destiny. It invited participants to unleash their creativity and imagination while simultaneously emphasizing the pivotal role that Engineers play in India's progress.

Under the theme of "With Engineers," participants were encouraged to paint a picture of India as a technological marvel. This vision encompassed towering skyscrapers, state-of-the-art healthcare facilities, sustainable green spaces, bustling smart cities, and efficient transportation systems. It was a testament to the Engineering community's power to innovate, design, and build a future that is not just advanced but also sustainable and inclusive.

In stark contrast, under the theme "Without Engineers", the participants depicted a challenging scenario of significant obstacles, such as crumbling infrastructure, energy crises, and limited technological progress in the absence of Engineers.

The competition celebrated the imagination and creativity, with artists given free rein to express their interpretations through various mediums, from traditional paintings to digital illustrations. Participants were asked to craft visuals that represent the multifaceted nature of Engineering.

As a whole this event was an opportunity to highlight the fundamental role that Engineers play in our country's development and progress. Through the lens of art and imagination, this event inspired the next generation of Engineers, beckoning them to embark on careers that will mold India's future.

7. MEDIX 2K23 – A NATIONAL LEVEL TECHNICAL SYMPOSIUM

The Department of Medical Electronics took immense pride in organizing the **19th National Level Students' Technical Symposium** that unfolded on **7th October, 2023.** This extraordinary event brought together minds from across the medical electronics landscape, creating an indelible mark of innovation and collaboration. With a dynamic agenda and a diverse array of activities, the symposium provided a platform for dialogue and progress at the intersection of technology and healthcare.
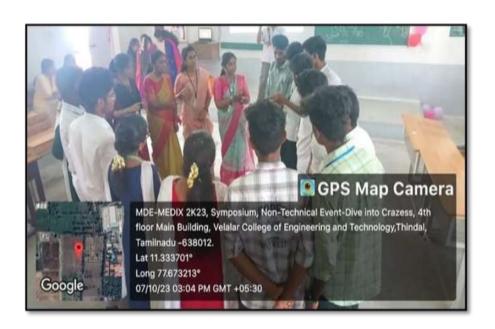

The symposium celebrated the extraordinary innovations and research that are shaping the future of healthcare. It served as a reminder of the vital role that technology and electronics play in revolutionizing the medical field. Attendees were inspired by the idea that innovation is not just a concept but a catalyst for change. **Mr.Aravinth Panch,** Social and Tech Entrepreneur, Co-Founder of araCreate, Germany consented to be the Guest for this symposium.

"MEDIX 2K23" has added a memorable chapter to the ongoing narrative of innovation and progress in the medical electronics field. With our sights set on the future, we are excited to continue this journey of discovery and transformation.

The paper presentation conducted during the symposium provided the participants from various colleges with a unique opportunity to express their ideas and presentation on various different topics. The depth and breadth of topics covered were impressive.
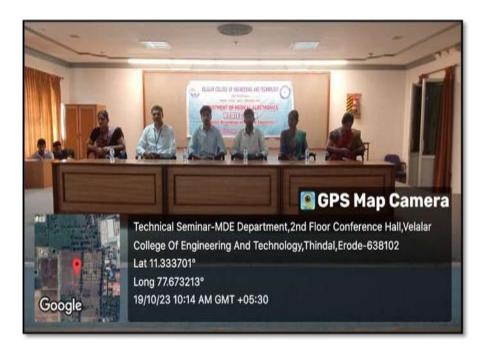
The technical and non-technical events, **"BRAIN BLAST"** and **"DIVE INTO THE CRAZESS"** were the highlight of MEDIX 2K23. Participants demonstrated their skills and creativity in solving real-world challenges. These contests encouraged out-of-the-box thinking and highlighted the problem-solving abilities of the participants. The spirit of healthy competition was palpable, and the winners received recognition for their exceptional contributions.

8. TECHNICAL SEMINAR ON EMBEDDED SENSOR SYSTEMS IN MEDICAL DEVICES

The Department of Medical Electronics is extremely grateful in organizing a Technical Seminar on **Embedded Sensor Systems in Medical Devices** at **Second Floor Conference Hall** on **19ᵗʰ October, 2023**. This seminar was a significant event which served as a platform for understanding the pivotal role of embedded sensor systems in the rapidly evolving landscape of medical devices, and it left a profound impact on all participants.

Mr.M.Boovananthan, Embedded System Engineer, ETS Academy, Erode was consented to be the guest speaker for this technical seminar. One of the standout features of the seminar was the impressive lineup of expert presentations. Distinguished figures in the fields of embedded systems and healthcare technology took the stage to deliver compelling talks. These presentations not only elucidated the current state of embedded sensor technologies but also provided an in-depth analysis of their far-reaching implications for patient care.

The students were captivated by the insights into the latest advancements, including the integration of sensor systems in diagnostic tools, wearable medical devices, and even implantable medical solutions. These sessions were instrumental in helping participants to understand the intricacies and challenges of implementing this cutting-edge technology.

The seminar didn't stop at knowledge dissemination; it also encouraged networking and collaboration. The Q&A sessions that followed the presentation was engaging and thought-provoking. They encouraged participants to seek clarifications, share their experiences, and delve deeper into the topics discussed. The interactive nature of these sessions further facilitated knowledge exchange and allowed for meaningful interaction among participants.

The seminar also took a forward-looking approach by addressing the challenges associated with implementing embedded sensor systems in medical devices. Furthermore, it highlighted emerging trends and future prospects in this dynamic field, giving attendees a glimpse of what the future holds for healthcare technology.

In conclusion, the Technical Seminar on Embedded Sensor Systems in Medical Devices was a comprehensive and enlightening event that left a lasting impact. It provided attendees with a profound understanding of the vital role that embedded sensors play in enhancing healthcare outcomes and driving innovation within the medical device industry.