

PATENT PUBLISHED



**MS K. ANUGIRBA,
AP/CSE**

Registered a Design Patent in the Medical Image Device with Indian Patent office

**Application Number
445150-001**



**MS SINDHU K
AP/ECE**

Published a patent titled "Safe Pass Alert System" in the Indian Patent Journal on April 25, 2025

**Application number
202541032383**



**MS J.SOPHIA JONE
AP/ECE**

Published a patent titled "Safe Pass Alert System" in the Indian Patent Journal on April 25, 2025

**Application number
202541032383**

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BETH CHRONICLES

THE OFFICIAL NEWSLETTER OF BETHLEHEM INSTITUTE OF ENGINEERING

VOLUME 9, ISSUE 2

JANUARY 2025 TO JUNE 2025

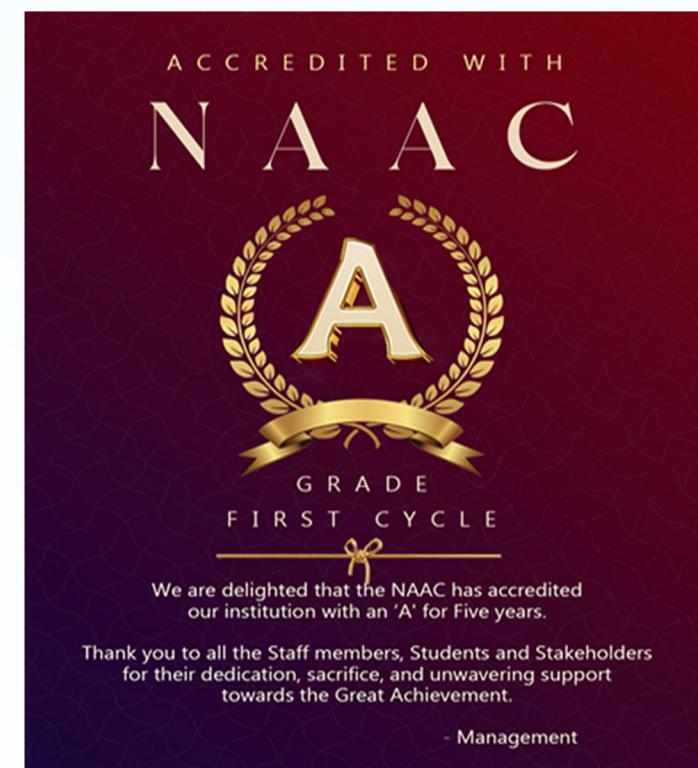
NAAC PEER TEAM VISIT



The NAAC peer team visited Bethlalem Institute of Engineering on the 8th and 9th of January 2025 to evaluate the Institution's performance for its first accreditation cycle.

The Institution's Innovation Council (IIC) at Bethlalem Institute of Engineering was established as per the guidelines of the Ministry of Education's Innovation Cell (MIC), Government of India to promote innovation and entrepreneurship. Our council actively conducts IIC calendar self-driven activities as well as MIC-driven events, fostering a strong culture of creativity and problem-solving among students and faculty. Various initiatives, including ideation programs, hackathons, prototype development, and expert talks, are organized to encourage innovative thinking. We also facilitate interactions with industry experts, entrepreneurs, and researchers, providing exposure to emerging trends in technology and start-ups. By participating in national-level innovation challenges and government-supported programs, we enhance our institution's research and development capabilities. The dedicated efforts of our IIC have significantly contributed to building an ecosystem that supports start-up culture and real-world problem-solving. Our commitment to innovation has been recognized with a prestigious 3-star rating from IIC. This achievement reflects our dedication to fostering entrepreneurship, creativity, and impactful solutions. Bethlalem Institute of Engineering continues to strive towards excellence in nurturing young minds and transforming innovative ideas into reality.

*Accredited by
NAAC with A Grade*



We are delighted that the NAAC has accredited our institution with an 'A' for Five years.

Thank you to all the Staff members, Students and Stakeholders for their dedication, sacrifice, and unwavering support towards the Great Achievement.

- Management

The Institution has been honoured with the prestigious NAAC 'A' Grade. This outstanding achievement reflects the institution's dedication to academic excellence, quality education and holistic development. It stands as a testament to the hard work and collective efforts of everyone involved in this process.

3-STAR RATING FROM IIC



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PLACEMENT DRIVE

• VAF PLACEMENT DRIVE

A placement drive was held on 6th February 2025 for final-year Mechanical and Automobile students by VAF DEF-AERO SYSTEMS. A total of 36 students participated in the drive and 15 students were selected and given offer letters.



• VINTORIX PLACEMENT DRIVE

A placement drive was conducted on 12th February 2025 for final-year CSE, IT and ECE students by Vintorix, Chennai. Out of the 80 students who attended, two were selected and offered job letters.

• TOPSIDE ENGINEERING PLACEMENT DRIVE

A placement drive was held on 25th February 2025 for final-year Mechanical and Civil students by Topside Engineering, Vellikodu. A total of 39 students participated in the drive, and 5 students were selected to advance to the second round of the interview process, which is scheduled for the end of March 2025.

• VERSAFORGE PLACEMENT DRIVE

On 3rd March 2025, a placement drive for final-year CSE, IT, and ECE students was conducted by VERSAFORGE. Out of the 120 students participated in the drive, 12 are selected and provided with offer letters.

• BDX BIM PLACEMENT DRIVE

A Placement drive was conducted on 26th March 2025 for final-year Civil Engineering students from BDX BIM. 12 students attended the drive out of which 3 students are selected and provided with offer letters.

• KIYARA INFORMATICS PLACEMENT DRIVE

A placement drive was conducted on 15th May 2025 for the final year CSE and IT students by Kriya Informatics, Nagercoil. A total of 72 students attended the drive, out of which 6 students were selected and offered placement letters.

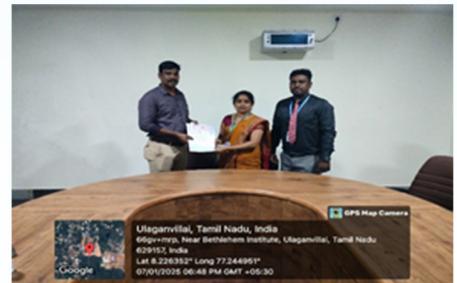


NAAC THANKS GIVING CEREMONY

A Thanksgiving Ceremony was held on 19th February 2025 to express gratitude for God's favour and to honor the contributions of all staff members and stakeholders in achieving an "A" grade in the first cycle of NAAC accreditation. Prof. William Dharma Raja, Chairperson of the School of Education, MS University, Tirunelveli graced the event as the Chief Guest.

Memorandum of Understanding

- On 3rd January 2025, e-Sales Software Solutions signed an MoU to establish an incubation centre.
- On 4th January 2025, Versa Forge LLP signed an MoU to develop an incubation centre.
- On 7th January 2025, Edifice Technologies signed an MoU to facilitate internships, guest lectures & seminars.
- The Department of Electronics and Communication Engineering signed a Memorandum of Understanding with Researcher Lyceum Pvt Ltd on 17th March 2025 to foster collaboration in academic, research, and skill development areas, thereby bridging gap between industry and academia.



JOURNAL PUBLISHED



**DR S.A.PRAYLIN SELVA BLESSY
ASSOCIATE PROFESSOR/
HEAD/ECE**

Published a paper titled "Estimation of Vital Parameters from Photoplethysmography using Deep Learning Architecture" in the

BOOK CHAPTER PUBLISHED



**MS G.MARLY
AP & HEAD/CSE**

Published a book chapter titled "Combining Residual Networks: Method for Multistage Classification of Alzheimer's disease in

CLUB ACTIVITIES

The various clubs under the S&H department, namely the Kalam Club (Physics), Lavoisier Club (Chemistry), Ramanujam Club (Mathematics) and Language Club (English), organized interactive sessions to foster creativity and scientific knowledge among students. These activities were held on 28th March 2025, from 3:00 pm to 4:00 pm, simultaneously across different venues. The events were designed to inspire students and deepen their understanding of the subjects, and foster an environment conducive to learning and intellectual growth.

Congratulations on your placement

Your hard work, dedication, and perseverance have paid off, and this is just the beginning of a bright future ahead. Getting placed is a huge milestone, and we are so proud of everything you've accomplished. Remember, this is the result of all the sleepless nights, long hours, and the effort you've put into shaping your career.

We wish you all the best as you step into this new chapter of your journey. Keep aiming higher and striving for excellence. The sky's the limit!



MITSUBA
MITSUBA Steel India Private Limited



VERSAFORGE
Sensate Intelligence





STUDENT ACHIEVEMENTS

Sherine S of II CSE has participated in "Debugging" and won II prize in "National level Symposium VIDEO-2K25 held on 9th April 2025 at Loyola Institute of Technology and Science.

Prasanthini S of II CSE has participated in "Debugging" and won II prize in "National level Symposium VICDEC-2K25 held on 9th April 2025 at Loyola Institute of Technology and Science.

Herb Jijo J of S II CSE has participated in "Project Expo" and won I prize in "National level Symposium SYNECTICS-2K25 held on 9th April 2025 at Stella Marys College of Engineering.

Ajeshwin S of II CSE has participated in "Project Expo" and won I prize in "National level Symposium SYNECTICS-2K25 held on 9th April 2025 at Stella Marys College of Engineering.

Sumith and Subiksha of II EEE won II prize in CAD Modelling on UYIRMINTIRAM 25 conducted by Loyola Institute of Technology and Science

Prakash Antony R of II Mech has participated in "Lathe Master" and won II prize in National level Technical Symposium MAR NXT 2K25 held on 2nd May 2025 organized by Mar Ephraem College of Engineering and Technology

Varsha VS of III Mech has participated in "Mr. MECHANIC" and won I prize in National level Technical Symposium MAR NXT 2K25 held on 2nd May 2025 organized by Mar Ephraem College of Engineering and Technology

Aswin RS of III Mech has participated in "CAD MODELING" and won II prize in National level Technical Symposium MAR NXT 2K25 held on 2nd May 2025 organized by Mar Ephraem College of Engineering and Technology

S.Aristotile, C.Ebin Raj, S.C.Pavithran and C.Jose Abison of III IT won I prize in paper presentation in the National level symposium on 18th March 2025 held at Stella Mary's college of Engineering

Dixon Samuel of I ECE and Berjin Jinesh J of I IT participated and won I Prize in the National Level Intercollegiate Management Fest organized by Mar Ephraem College of Engineering and Technology on 20th March, 2025

Workshop on Revit Architecture



The Department of Civil Engineering organized a one-day workshop on Revit Architecture on 7th May 2025. The resource person for the session was Mr Aneesh P C, Managing Director, Cube and Lines Architectural Studio and Constructions. His insightful and practical approach provided students with hands-on exposure to Revit Architecture, covering essential topics such as building modeling, rendering, and project visualization. This workshop contributed significantly to the professional development of the civil engineering students, equipping them with industry-relevant software skills and practical knowledge crucial for their future careers.

"Education is not preparation for life; education is life itself."

13TH GRADUATION DAY

The 13th Graduation Day was organised on March 1st, 2025, with Dr V.A. Nagarajan, Dean, University College of Engineering, Nagercoil as the Chief Guest. The event was a celebration of the achievements of the graduating students. The Chief Guest delivered an inspiring address, sharing his insights and experiences. The event was a memorable occasion for everyone involved.



Women's Day Celebration



The POSH cell organized the Women's Day Celebration on 10th March 2025 with Dr Christable Reena, M.D., D.G.O., Gynecologist at CSI Mission Hospital, Neyyoor as the Chief Guest. The Resource Person delivered a motivational talk on the role of women in changing society from Bharati's perspective. She inspired the students by highlighting how women can become self-reliant through courage and effort. Additionally, she discussed the challenges faced by women and suggested solutions to overcome them. Students from various departments showcased cultural performances which were enjoyed by the audience.

ALUMNI MEET – 2025

The Alumni meet was organized at 9.30 am on 1st March 2025. It was an incredible reunion of 2024 passed out students. It was a day filled with excitement as the alumni came together to relive their college days and connect with their old classmates and teachers.



FOOD FEST 2K25



The Food Fest 2K25 was held on 19th March 2025 in the college campus with great enthusiasm and active participation from students and staff. The fest was inaugurated by Pastor Jabaseelan in the presence of Principal Dr. C. Emmy Prema, Director Er.T.Isan, Dean Dr S.Jerlad Jeba Kumar, faculty members and students. The menu for the fest included snacks, main course, desserts, drinks, and shakes prepared by the students. It created a good impact on the students where they learned to work in team and other various aspects involved in the management of a food processing business. The students and staff from Bethlhem Group of Institutions participated and made the event a resounding success.

Sci-Tech Expo 2025

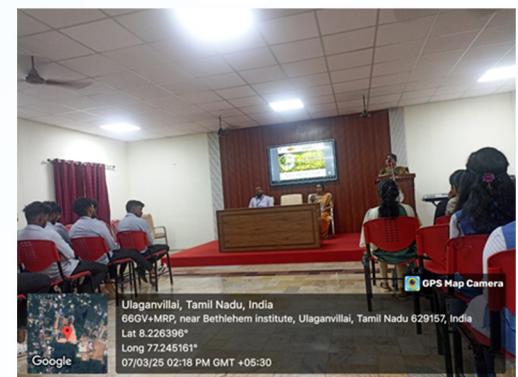
The Sci-Tech Expo 2025 was successfully conducted on 19th March 2025. The event aimed to showcase the innovation, creativity, and technical skills of engineering students across various disciplines. It served as a platform for students to present their projects, both hardware and software, developed as part of their academic curriculum. The enthusiastic participation of students from Bethlalhem Group of Institutions played a key role in making the event successful.



EYE CAMP



A free eye checkup camp was organized by the NSS in collaboration with Bejan Singh Eye hospital on 24th March 2025. The eye camp was organized to promote awareness about vision health and address common eye-related issues among college students and facilitate early detection and treatment. Trained optometrists from Bejan Singh Eye hospital conducted comprehensive eye screenings for all the students. Students requiring further evaluation or specialized treatment were referred to ophthalmologists for consultation. The camp empowered students with knowledge about maintaining optimal eye health and seeking timely care when needed.



The Department of Electronics and Communication Engineering celebrated World Engineering Day on 7th March 2025 with great enthusiasm. The event was marked by insightful sessions, engaging activities, and a spirit of appreciation for engineering contributions to society. The felicitation address was delivered by Dr. Emmy Prema, Principal, who emphasized the significance of engineering in shaping the future and encouraged students to excel in their respective fields. A quiz competition was conducted, testing participants on various engineering concepts, innovations, and industry advancements. The quiz saw enthusiastic participation, making it both an educational and interactive experience.

WORLD ENGINEERING DAY FOR SUSTAINABLE DEVELOPMENT

CULTURAL FEST - 2025

A 4-day Cultural Fest 2k25 was organized featuring 21 on-stage and off-stage events, offering students a vibrant platform to showcase their talents. The celebration culminated in a grand Cultural Day, highlighting various on-stage performances on 23rd April 2025. The fest featured a wide array of events, including singing, dancing, instrumental music, mime and drama competitions along with face painting clay modelling and flower arrangement. Mr R. Ajin, a well-known YouTuber and our college alumnus, was the guest for the event, giving even more fun and motivation.



Annual Day - 2025



AWARENESS PROGRAMME

An Emergency Life Support awareness programme was organized by NSS on 30th April, 2025. Dr T.Prethes Raaj, an emergency physician from KIMS Health, Nagercoil delivered presentation on emergency life support and led interactive discussions on the importance of promoting and fostering students' physical, mental, emotional and spiritual well-being in order to manage illness and promote health.





GUEST LECTURE ON AI IN ELECTRIC VEHICLES

The department of Electrical and Electronics Engineering hosted a one-day guest lecture on 4th April 2025. A presentation on "AI in Electric Vehicles - Battery Management and Autonomous Driving" was delivered by Mr K. Augustin Raj, Manager, CADPOINT, Marthandam. He also discussed potential job pathways, the talents required to work in AI, and other aspects of vehicle autonomy.



ONLINE SEMINAR ON CNC SIMULATOR KIT



WORKSHOP ON DJANGO ESSENTIALS

The department of Information Technology hosted a three-day workshop on "Django Essentials" from 4th to 8th April 2025. The resource person Mr R. Santhosh Rajan, Technical Head, Networkz System's gave a brief talk on mobile application development, including team organization, planning and preparation techniques, presenting techniques, and flutter application technology.

SPORTS DAY 2025

The Annual Sports Meet VIGOR 2025 was celebrated on 22nd April 2025 with great enthusiasm and sportsmanship. The event took place on the college ground and witnessed active participation from students, and staff members. The chief guest for the occasion Dr A.Jerin Jose, Director of Physical Education at Lakshmiapuram College of Arts and Science, inaugurated the event and delivered a motivating address on the importance of fitness, discipline, and teamwork in a student's life. The day featured a variety of athletic events including track and field competitions, all conducted in a well-organized and spirited manner. The atmosphere was filled with energy and cheer as participants showcased their talents and competitive spirit. Winners were honored with medals and certificates recognizing their outstanding performances.



The department of Mechanical Engineering organized an online seminar on CNC Simulator Kit on 29th April 2025 to familiarize faculty members and students on operating CNC Lathe, CNC milling machine, and CNC software. The resource person Mr Manikandan, CAD Macro Design & Solutions Pvt. Ltd, provided valuable insights on CNC Simulator Kit.

VALUE ADDED COURSES

STAAD PRO DESIGNING IN MODERN CONSTRUCTION



PRACTICAL AI: FROM PYTHON BASICS TO DEEP LEARNING

A Value Added Course on "Practical AI:From Python Basics to Deep Learning" was conducted from 17th to 26th March 2025 for second-year Electronics and Communication Engineering students. The resource person Dr R.Christal Jebi, Managing Director, Research Lycedum Pvt Ltd and her team introduced students about the fundamentals of Artificial Intelligence with hands-on experience, starting from the basics of Python programming and progressing towards advanced concepts like Machine Learning and Deep Learning.



A Value Added Course on "STAAD PRO Designing in Modern Construction" was conducted from 12th to 21st March 2025 for final-year Civil Engineering students with Ms S.Shyama, CAD Engineer as resource person. The students gained knowledge about designing and analyzing a multi storied building reinforcement detail.

Website Blog Design



A Value added course on "Website Blog Design" was organized for the second-year IT students from 12th to 21st March 2025. The resource person Ms. Ashika R Java, Developer, Feather Softwares, provided insights into emerging trends and developments in the Website Blog Design, such as upcoming features in new releases, community initiatives, and industry adoption pattern. The skills acquired from this course helped students to apply in projects, preparing them for careers in website blog design, product design, and related fields.

DESIGNING USER-CENTRIC INTERFACES USING UI/UX

The Department of Computer Science and Engineering organized a Value Added Course on "Designing User-Centric Interfaces Using UI/UX" for third-year students from 12th to 25th March 2025 with Ms Anchu J, Technical Trainer and Ms Jeya Sheela J, Technical Trainer of Network Systems, Marthandam as resource persons. The course aimed to equip students with practical skills and foundational knowledge in User Interface (UI) and User Experience (UX) design – two essential components of modern software development and product design.



CAREER GUIDANCE PROGRAMME



The Department of Computer Science and Engineering organized a career guidance programme on the topic "Motivation and Goal-Setting Strategies for Achieving Your Dreams" on 28th March 2025 for the benefit of third-year students with Ms Sugirtha, Operations Head, Feathers Software, Nagercoil as resource person. The session aimed to empower students with the right mindset, motivational tools, and actionable strategies to set and achieve their personal and professional goals.

WORKSHOP ON BUILDING RELIABLE HARDWARE: CRIMPING TECHNIQUES & CPU INSIGHTS

To enhance knowledge in hardware reliability, a one-day workshop on "Building Reliable Hardware: Crimping Techniques & CPU Insights" was organized by the Department of Electronics and Communication Engineering on 13th March 2025 for second and third-year students. The Resource Person Ms Rushitha, Network Specialist, IT Desk, provided an in-depth understanding of crimping techniques, CPU functionalities, and best practices in hardware connections. Through interactive discussions and hands-on demonstrations, participants gained valuable insights into securing electrical connections and optimizing system performance.



WORKSHOP ON EFFECTIVE SALES AND MARKETING STRATEGIES FOR ENTREPRENEURS /STARTUP

The Institute Innovation Council organized a workshop on "Effective Sales and Marketing Strategies for Entrepreneurs /Startup" on 13th March 2025 for the second and third-year IT Department students to provide participants with a solid foundation in sales and marketing principles tailored to startups and small businesses.



WORKSHOP ON WATER HAMMER EFFECT IN



A one-day workshop was organised by the department of Electrical and Engineering on 21st March 2025 with Mr. Siva Kumar, Technical Leader, CAD Engineer as the Resource Person. He has delivered lectures on industry trends and emerging technologies.

Seminar on Desired Quality Features in HEIs



A one day seminar on "Desired Quality Features in HEIs" was conducted on 5th April 2025 by the Internal Quality Assurance cell, aiming to enhance awareness and understanding of quality benchmarks essential for the growth and sustenance of excellence in Higher Education Institutions. The chief guest Prof. B. William Dharma Raja, Chairman, School of Education; Director, IQAC/NAAC; and Dean in Charge, College Development Council, Manonmaniam Sundaranar University, Tirunelveli stressed the need for continuous internal quality assurance mechanisms and provided deep insights into the accreditation framework, institutional best practices, and the need for strategic planning in HEIs. The chief guest encouraged institutions to adopt innovative pedagogical approaches. The session was informative, and oriented towards practical implementation of quality initiatives. Faculty members and administrators from various institutions engaged enthusiastically in exploring the parameters of quality in HEIs.

WORKSHOP ON RBT FOR FRESH TEACHERS



The Internal Quality Assurance Cell organized a workshop on Revised Bloom's Taxonomy on 12th March 2025. This Workshop on RBT for fresh teachers focused on enhancing the understanding and application of RBT among faculty members. The resource person Dr S.Jerald Jeba Kumar, Dean, Bethelhem Institute of Engineering highlighted the key aspects of Revised Bloom's Taxonomy, the overview of Bloom's Taxonomy and its revision, the six cognitive levels in RBT and use of RBT in assessment.

FACULTY ORIENTATION PROGRAM ON INSTITUTIONAL AUTONOMY



The Internal Quality Assurance Cell organized a Faculty Orientation Program on Institutional Autonomy on 21st March 2025. The program aimed to create awareness among faculty members about the concept, importance, and implementation of institutional autonomy in higher education institutions. The resource person Dr G. Rajakumar, Controller of Examination, Professor/ECE, Francis Xavier Engineering College offered his experience on Academic Structure & Regulation.