



# **BETHLAHEM INSTITUTE OF ENGINEERING**

**KARUNGAL - 629 157, KANYAKUMARI DIST., TAMIL NADU.**

**(Approved by AICTE Vide : FNo. 06/05/TN/E&T/2007/25 dt. 02-06-2008 &**

**Affiliated to Anna University, Chennai)**

**Phone : 04651 - 268466, 268655, Fax : 04651 - 268466**

**E-mail : mail@bethlahem.org, Website : www.bethlahem.org**

## **College Vision**

To become a premier institution and centre of professional education with moral ethics in engineering and technology to produce socio-friendly technocrats.

## **College Mission**

- To provide quality skill-based professional education for all deserving candidates belonging to all sectors of society
- To adopt innovative strategies, add-on courses, and establish the state-of-the-art infrastructure for effective teaching learning processes and research activities
- To attract and nurture the excellent and committed faculty members and the technical workforce
- To organize healthy interactions with the stakeholders for the students' overall personality development
- To inculcate the social responsibilities among the prospective engineers

## **ANNUAL REPORT 2024-25**

**“Arise, shine for your light has come, and the glory of the LORD rises upon you”**

**-Isaiah 60:1**

**“Happiness lies in the joy of achievement and the thrill of creative effort”**

**-Franklin D. Roosevelt**

Bethlahem Institute of Engineering was established in 2008 by the Nesamony Memorial Trust, with the noble objective of imparting technical education to the aspiring students. Presently, the college has eight UG programs and five PG programs approved by AICTE and is affiliated to Anna University, Chennai.

**B.E - Biomedical Engineering**

**B.E - Civil Engineering**

**B.E - Computer Science and Engineering**

**B.E - CSE (Artificial Intelligence & Machine Learning)**

**B.E - Electrical and Electronics Engineering**

**B.E - Electronics and Communication Engineering**

**B.E - Mechanical Engineering**



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## **B.Tech - Information Technology**

**M.E - Communication Systems**

**M.E - Computer Science and Engineering**

**M.E - Manufacturing Engineering**

**M.E - Power Electronics and Drives**

**M.E - Structural Engineering**

Under the guidance and motivation of our beloved Chairman Shri. Gerald Selvaraja, Director Er. T. Isan, Dean Dr. S. Jerald Jeba Kumar and Heads of the Departments, this academic year witnessed remarkable achievements of the staff and students in curricular, co-curricular and extracurricular activities.

## **STUDENT ENROLLMENT**

The academic activities for the II-, III-, and IV-year students commenced on 19th August 2024. A one-week Student Induction Program for first-year students was held from 28th August to 10th September 2024, aimed at helping them feel comfortable in the Bethlahem campus. Freshers' Day-2K24 was observed on 18th September 2024, followed by the commencement of regular classes for first-year students on 19th September 2024. Postgraduate classes also began on 19th August 2024.

## **INSTITUTION WITH ACCREDITED WITH NAAC 'A' GRADE**

The NAAC Peer Team visited the institution on the 8th and 9th of January 2025 to evaluate its overall performance as part of the first accreditation cycle. Following a comprehensive assessment of academic practices, infrastructure, governance, student support services, and quality assurance mechanisms, the institution was awarded the prestigious NAAC "A" Grade in January 2025. This significant milestone reflects the institution's unwavering commitment to academic excellence, quality education, and holistic student development. In recognition of this remarkable achievement, a Thanksgiving Ceremony was organized to express heartfelt gratitude for the blessings of God and to honor the dedicated contributions of all staff members and stakeholders. This accomplishment stands as a testament to the collective effort, perseverance, and shared vision of the entire institutional community.



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## **RECOGNITION OF UGC 2(F) STATUS**

Bethlehem Institute of Engineering has been officially recognized under Section 2(f) of the University Grants Commission (UGC) Act, 1956. This recognition marks a noteworthy achievement in the institution's journey toward academic excellence and quality education. The UGC 2(f) status is a testament to the institution's adherence to quality standards in higher education and its eligibility to receive central assistance under various UGC schemes.

## **UNIVERSITY RANKS**

Four postgraduate students excelled in the Anna University Examinations by securing University Ranks. Ashbin Jini V of M.E-Structural Engineering secured the 2nd Rank, Akshay Kumar K C of M.E-Manufacturing Engineering achieved the 3rd Rank, Flowvy N of M.E- Communication Systems secured the 5th Rank, and Hima S of M.E-Structural Engineering obtained the 10th Rank. Heartfelt congratulations and appreciation to all the rank holders for their remarkable achievement.

## **ACADEMIC ACTIVITIES**

Our Institutional values progress in education and constantly encourages the departments to organize academic, interactive and experiential programs. Value Added Courses, Technical Talk, Guest Lecture, Webinars, Seminars, Workshop, Capacity Development Program and Student Orientation Program were organized by various departments through which Resource Persons from reputed institutions interacted with students. The Institution has arranged Internship programs, Survey Camp and Certified Software Training programs at regular intervals to let the students know things practically through interaction, working methods and employment practices. The Institution has also organized Industrial Visit and Field Trips to provide situations for the students to learn and understand the environment around.

## **FACULTY ACCOMPLISHMENTS**

Updating the knowledge of the faculty by experiencing the latest developments in their respective fields is a continuing necessity of any technical education Institution. It is a matter of great pride to record that a large number of our faculty members actively participated in various research activities such as seminars, conferences, workshop,



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symposia and so on. One of our staff has published a book and another has published a book chapter. Five technical papers of the faculty members have been published in reputed International Journals. Our faculty members have participated in International and National level conferences and presented more than 24 research papers. It is a matter of great pride that 3 of our faculty members serve as reviewers in International Journals and 2 as Doctoral Committee members. More than 28 faculty members have attended 45 Faculty Development Program, Seminar and Workshop in reputed institutions. Twelve NPTEL courses have been completed by the faculty members. Two faculty members acted as Resource Person to their credit. It is praiseworthy to acknowledge that 1 faculty member has successfully completed his Doctoral Programme (Ph.D) during this Academic Year and 14 are pursuing their Doctoral Programme. A team of students, under the guidance of our faculty member, received a funded project from TNSCST, reflecting the mentorship and commitment to promoting research and innovation. One of our faculty member received the “Young Professional Award 2024” from the monthly magazine “The Science World”.

## **STUDENTS ACHIEVEMENTS**

Our students proved their mettle in various competitions and brought laurels to the Institute. They have participated in various events organized by other institutions and bagged prizes. Our students have participated in competitions such as Paper Presentation, Technical Quiz, Debugging, Non-technical events and Cultural events organized by various institutions and won prizes. It is praiseworthy to note that CSE Department students Katelyn R (II Year), Ashlin Derino (III Year), and Anika M (III Year) successfully completed NPTEL courses. Our students took part in the ‘8<sup>th</sup> TechnoXian World Robotics Championship’ opened officially by the Prime Minister of India. They used the BETHBOTS which they developed and successfully reached the semi-final. Representatives from several nations, scientists, education experts, and visitors from embassies attended the occasion. Overall, the students demonstrated a strong commitment to holistic development through active involvement and notable accomplishments in diverse fields.





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## **SKILL DEVELOPMENT PROGRAM**

The Government of Tamilnadu launched its ambitious Skill Development Scheme, Naan Mudhalvan to equip youth to adapt to the global changing trends. Our Institution has been in the forefront in providing holistic education through industry linked curriculum and has been conducting various skill development programs to all department students.

## **MEMORANDUM OF UNDERSTANDING**

MoUs are valuable instruments for promoting collaboration and knowledge exchange within the engineering field. To strengthen the Industry-Institution interaction and collaboration, 19 Memorandum of Understandings have been signed in this academic year.

## **FOSTERING STUDENT CREATIVITY AND COLLABORATION**

A series of events were organized to promote student engagement, creativity, and collaboration. The Food Fest 2K25 brought together students and staff in a lively celebration of culinary skills, offering hands-on experience in teamwork and food business management. The Sci-Tech Expo 2025 highlighted the technical ingenuity of engineering students, providing a platform to exhibit innovative hardware and software projects. The students and staff from Bethlahem Group of Institutions participated and made the event a resounding success. Additionally, the Project Expo organized by the Department of Information Technology showcased departmental projects, encouraging academic excellence and practical application of knowledge. These events collectively reflected the institution's focus on experiential learning and holistic development.

## **PLACEMENT AND TRAINING CELL**

The Placement and Training Cell provides training and employment opportunities to students. Four Career Guidance and four Career Counselling programs were conducted to raise awareness about various career options. Skill development programs, in collaboration with industry partners, were held to enhance students' soft skills and technical expertise. Seven Placement Drives were organized, resulting in the placement of 96 students in prominent companies such as Dineesh Engineering Industries, Topside Engineering, DXBIM Pvt. Ltd., Versa Forge, VAF, Modpro, MITSUBA, Sri Sai Industries, and Kriya Informatics.



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## **INTERNAL QUALITY ASSURANCE CELL**

The Internal Quality Assurance Cell (IQAC) played a significant role in driving quality enhancement initiatives throughout the academic year. It conducted regular meetings to monitor ongoing activities, review feedback mechanisms, and strategize improvements in both academic and administrative areas. Additionally, the IQAC organized a series of quality enhancement programs aimed at strengthening academic practices and elevating institutional standards. A Capacity Building Program on Research and Professional Integrity was organized with Dr P. Arockia Jansi Rani, Associate Professor, Department of Computer Science and Engineering Manonmaniam Sundaranar University Tirunelveli as the resource person, highlighting ethical research practices, responsible authorship, and professional conduct in academia. A workshop on Revised Bloom's Taxonomy (RBT) was conducted for fresh teachers, facilitated by Dr S.Jerald Jeba Kumar, Dean, Bethlahem Institute of Engineering with a focus on designing effective course outcomes and aligning assessments with learning objectives. A Faculty Orientation Programme on Institutional Autonomy was held exclusively for senior faculty members, with Dr Rajakumar, Controller of Examination, Professor/ECE, Francis Xavier Engineering College, Tirunelveli as the resource person. He emphasized the significance of academic freedom, curriculum flexibility, and accountability in institutional governance. Additionally, a seminar on Desired Quality Features for Higher Education Institutions, led by Prof. B. William Dharma Raja, Chairman, School of Education, Director of IQAC/NAAC and Dean in Charge, College Development Council, Manonmaniam Sundaranar University, Tirunelveli, saw active participation from faculty members representing 15 institutions in and around the district. The seminar provided a platform for cross-institutional dialogue on quality benchmarks and promoted the exchange of best practices for continuous improvement in higher education.

## **ENTREPRENEURSHIP DEVELOPMENT CELL**

The Institution inculcates the entrepreneurial spirit among the students by organizing several training and awareness programs. The cell strives to empower these youngsters by transforming them from job seekers into job creators - young and dynamic entrepreneurs. The cell conducted a seminar titled 'Mapping Your Way Beyond Graduation' for final-year students. In collaboration with EDII Chennai, the



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Entrepreneurship Development Cell (EDC) conducted a 'School Head-cum-Guide Teachers Training and Workshop' for school teachers."

## **INSTITUTION INNOVATION COUNCIL (IIC)**

The Institution Innovation Council (IIC) actively follows IIC calendar and conducts self-driven activities and MIC-driven events to foster a strong culture of creativity and problem-solving among students. Various initiatives, including ideation programs, project expo, hackathons, prototype development, and expert talks, are organized to encourage innovative thinking. This 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.

## **WOMEN'S EMPOWERMENT CELL**

The Women's Empowerment Cell is committed to creating a safe and supportive environment for female students and staff. It organized an awareness program on the "Police Akka Scheme", featuring Mr C. Benson, Sub-Inspector of Police, Karungal, to empower female students and provide them with a safe and confidential platform to report concerns or crimes. Additionally, International Women's Day was celebrated on the theme "Accelerate Action", with Dr Christable Reena, M.D., D.G.O., Gynecologist at CSI Mission Hospital, Neyyoor, as the Chief Guest, emphasizing gender equality, awareness, and personal development. Furthermore, one staff member and five students attended the Orientation Program on Cyber Safety for Women, organized by the Police Department, Kanniyakumari District.

## **POSH CELL**

The POSH (Prevention of Sexual Harassment) Cell plays a vital role in fostering a safe, respectful, and inclusive campus environment by promoting awareness and addressing issues related to gender-based discrimination and harassment. As part of its initiatives, the Cell organized the "International Day for the Elimination of Violence against Women", with Adv. L. Jothi Mani, Advocate, Eraniel Court, and Adv. T. Arul Dhas as Chief Guests. These programs aimed to educate students on legal rights, safety measures, and the support systems available to ensure a secure campus for all.



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## **LIBRARY SERVICE**

The library plays a vital role in supporting the academic excellence of the institution. By providing access to a diverse collection of resources, user-friendly services, and a conducive learning environment, it empowers students and faculty to excel in their engineering endeavors. Library automation transforms college library into a dynamic hub for learning and research.

## **SOCIAL SERVICE ACTIVITIES**

NSS (National Service Scheme) unit and RRC (Red Ribbon Club) of the Institution organized a number of social service activities including Blood Donation Camp, Eye Camp, Plastic awareness rally, Drug awareness rally, AIDS awareness programme, Road Safety awareness programme, and Emergency Life Support awareness programme. The NSS unit organized a successful beach cleaning campaign in line with the Swachh Bharat Abhiyan Mission. We are proud to share that our NSS unit has been selected by Anna University, Chennai, to establish a funded unit starting from the current academic year.

## **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 are held on last Friday of every month, from 3.00 pm to 4.00 pm, simultaneously across different venues.

## **BEST PRACTICE: "STUDENT OF THE MONTH"**

As part commitment to fostering all-round student development, a best practice titled "Student of the Month" is in practice. This initiative aims to recognize and reward students who demonstrate excellence across multiple dimensions including academic performance, participation in online certification courses, regular attendance, involvement in technical and non-technical events, contributions to cultural activities, and performance in sports. One student from each department is selected every month based on a comprehensive evaluation of these criteria. This practice has not only encouraged holistic growth but also inspired a spirit of healthy competition and self-improvement among students. It serves as a motivating platform for students to engage





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actively in diverse aspects of college life while striving for personal and academic excellence.

## **SPORTS AND ACHIEVEMENTS**

Sports play a vital role in fostering holistic development by enhancing physical fitness, promoting mental well-being, and instilling values like teamwork, leadership, and perseverance qualities essential for budding engineers. In this academic year, the college organized its Annual Sports Meet and multiple inter-departmental tournaments, encouraging widespread participation. Notably, Aneesa T H (IV ECE), Anjali Surendran (IV ECE), Mariya Jeeva (IV CSE), A.Merishka (IV IT) and Varsha V S (III Mech) achieved 3rd prize in Zonal Level Table Tennis Competition bringing pride to our institution.

## **INDUSTRIAL VISITS**

Industrial visits and educational tours serve as a vital component of experiential learning, offering students the opportunity to explore new environments, expand their knowledge beyond classroom boundaries, and develop a broader perspective on their field of study. Recognizing the importance of practical exposure, educational tours are organized, combining academic relevance with cultural enrichment. IV Year Mechanical Engineering students visited Ashok Leyland, Hosur, where they observed vehicle assembly lines and learned about lean manufacturing techniques. III Year Computer Science students toured Zoho Corporation, Chennai, gaining exposure to product development cycles and cloud-based applications.

## **CELEBRATIONS**

Celebrations make the academic journey more enjoyable and fun. With the laughter that sounds the air and the excitement and joy in everyone's face is what makes the day a memorable one. National Space Day, National Engineers Day, National Education Day, National Entrepreneurship Day, National Constitution Day, Independence Day, Onam Celebration, Farwell Day, Christmas Day and World Engineering Day for sustainable development were celebrated with great zeal. A Christmas carol singing competition, Beth Carol Fest 2k24, was conducted on 8th December 2024, and the winners were awarded with the cash awards. School Choirs, College Choirs, Private Teams and Church Choirs participated and showcased their talents. Annual Sports Meet "VIGOR 2K25" has been celebrated in which the students participated with great fervor



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and manifested their athletic skills. A 4-day Cultural Fest 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. The 17<sup>th</sup> Annual Day celebration Beth Fest 2k25 was held on 25th April, 2025 with vibrant participation from students and staff. Dr C.Sylendra Babu, IPS

(Retd.), former Director General of Police and Head of the Tamil Nadu Police Force, honoured the occasion as the Chief Guest. His presence added great value to the celebration and inspired the gathering.

## **PARENT-TEACHER INTERACTION**

The institution continued its efforts to strengthen the partnership between parents and the institution by organizing online Parent-Teacher Meetings (PTMs). These virtual sessions were conducted department-wise through secure video conferencing platforms to ensure wider participation. Faculty members interacted with parents to share academic performance, attendance records, behavioral observations, and overall student progress. The online format facilitated the involvement of working parents and those residing in distant locations, enhancing communication and engagement. Constructive feedback received during these meetings helped address individual concerns and fostered a collaborative approach toward student development.

## **GRADUATION DAY**

The 12th and 13th Graduation Day ceremonies were held on 6th September 2024 and 1st March 2025, respectively. Er G. Arul Jerald Prakash, Former Director of the Kerala State Science and Technology Museum and Planetarium, and Dr A. Nagarajan, Dean of University College of Engineering, Nagercoil, graced the occasions as Chief Guests. Both events celebrated the achievements of the graduating students and featured inspiring addresses that made the ceremonies memorable.

## **ALUMNI AFFAIRS**

The College is maintaining good relations with its alumni through the Alumni Association. Our alumni have been a source of inspiration to our budding engineers and their contribution through lectures and guidance are significant and appreciable. They bridge the gap between the curriculum and the current trends in the market enabling our



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students to up skill themselves. It is praiseworthy to note that, 3 Alumni meets have been conducted in this academic year.

## NOTE OF GRATITUDE

**“Gratitude is not only the greatest of virtues, but the parent of all others”**

First of all, I thank the Almighty for His abundant blessings on all our endeavors. He has guided us through the right path.

I acknowledge my sincere gratitude to our Respected and Beloved Chairman, Shri. Gerald Selvaraja whose constant support and positive vibes kept us forging ahead with confidence and hope.

I profusely thank our Respected Director Er T.Isan for his extreme care in monitoring all our endeavors and in the growth of the institution.

I thank our Dean Dr S. Jerald Jeba Kumar for his contribution towards academic process and his efforts in taking our institution to the greater heights.

I thank Governing Body members, prayer warriors and Heads of the Departments, who have been with me in steering this Institution towards our vision and mission.

I accord my hearty thanks to all the Teaching, Non-Teaching, Administrative, Transport, Security and Housekeeping staff members for their sincere co-operation and hard work.

Finally, students are our real assets. I thank all the students of the Institution for your excellent disciplined behavior, cooperation, coordination and involvement towards academic and non-academic activities.

My special word of thanks to all the final year UG and PG students, I wish you all success and happiness in all your future endeavors.

Once again, I am extremely grateful to all, who have given their generous support and cooperation throughout the academic year 2024-2025.

Thank you all very much.

**Dr C. Emmy Prema**  
**Principal**