BUILDERS ENGINEERING COLLEGE

NAAC A+ 3.36

Paribhaashaa

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NEWS LETTER

Genesis:

The Department of Computer Science and Engineering, started in the year 2009, offers BE Computer Science and Engineering and M.E Computer Science programme was started in the year 2013 to meet the challenges of higher education, research, and innovation in key areas of computer science. The department aims to develop computer and software engineers who are industry-ready, innovative and entrepreneurial to become global leaders in research and technology. Students are encouraged to participate and present papers in both national and international conferences. The Computer Science and Engineering department is equipped with 306 computers with high-end configuration distributed across Seven laboratories with four blade-mounted servers and latest version software. The department is an active participant in various activities in the campus.

Highlights:

- Exemplary Placement Record
- Hands on Workshop on Trending Technology
- Academic Incentives for Top Performers
- Empowered Faculty Members who received National and International Awards
- Strong Industry Tie-Ups
- Smart Class Rooms & Learning Management Systems
- Students are given Opportunity to organize Major Events of the Department
- National level Champions in Sports and Games

Vision:

To be the most skilled software engineer provider.

Mission:

Endeavors to prepare rural students for successful career through academic and applied research as an inspiration for upcoming student community.
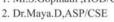
Program Specific Objectives (PSOs):

The Students will be able to,

- Exhibit design and programming skills to build and automate business solutions using cutting edge technologies.
- Strong theoretical foundation leading to excellence and excitement towards research, to provide elegant solutions to complex problems.
- Ability to work effectively with various engineering fields as a team to design, build and develop system applications.

Editors:

1. Mr.S.Gopinath ,HOD/CSE
2. Dr.Maya.D,ASP/CSE

Program Outcomes (POs):

- **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **Conduct investigations of complex problems:** Use research–based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **Life–long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life–long learning in the broadest context of technological change.

COLLEGE VISION & MISSION

Vision:
To be the most preferred knowledge provider.

Mission:
Builders Engineering College endeavors to prepare rural students for successful career through academic and applied research.

Programme Educational Outcomes (PEO):

PEO1

Should achieve success in their field of work, in future education and in their research.

PEO2

Shall consistently learn new things and hone existing talents to generate impactful,

resource-saving and cutting-edge solutions.

PEO3

Must demonstrate strong communication abilities, a professional demeanour and ethical principles while designing and creating practical, multidisciplinary solutions that are technically sound, financially viable and socially acceptable.

EDITORIAL BOARD

FACULTY IN-CHARGE

Dr.Prabhu Ragavendiran

Mr.S.Gobinath

STUDENT MEMBERS

K.Jeevanandham

D.Vijayalakshmi

From the Principal's Desk

Dr. S. RAMKUMAR
Principal

Welcome to Builders Engineering College (BEC) in Nathakadaiyur, Tirupur 638 108. Established in 2009 by the Erode Builder Educational Trust (EBET), BEC is dedicated to providing high-quality higher education opportunities to rural students. Approved by AICTE, New Delhi, and affiliated with Anna University, Chennai, our eco-friendly campus boasts excellent infrastructure and experienced faculty committed to academic excellence. We prioritize Creativity, Technical expertise, and Innovation, offering state-of-the-art facilities and specialized training for student placements. Excitingly, BEC is transitioning to Outcome Based Education (OBE), reflecting our commitment to innovative educational practices. This shift ensures a student-centric approach, focusing on measurable learning outcomes and fostering a dynamic and engaging learning environment. Join BEC for a transformative educational journey that prepares you for a successful and fulfilling career.

From the HoD's Desk

Dr.SD.Prabhu Ragavendiran HoD

The Department of Computer Science & Engineering is dedicated to cultivating engineers with diverse technical, managerial, and social skills, poised to contribute to the nation's progress. We proactively enhance students' soft skills, analytical abilities, and verbal communication for success in the competitive corporate realm. Our focus on practical, skill-based learning and cutting-edge technical tools meets industry expectations.Through final year projects, students showcase innovative ideas, earning accolades at various levels. Our advanced infrastructure and experienced faculty ensure effective teaching-learning processes, delivering quality technical education. With a commitment to excellence and innovation, our department empowers professionals prepared to make impactful contributions to society and industry. Industrial Training in reputed organizations further equips our students for IT industry challenges. We are committed to elevating the department to greater success and preparing for future challenges.

Paribasha innaguration CSE 2023-2024

The CSE Inauguration for the academic year 2023-2024 took place on August 16, 2023. The event highlighted the inauguration of Paribhaashaa & Intellexa, alongside the presence of Chief Guest Mr. Gopal Kumarappan, Managing Director (Digital & Platform Services) at JP Morgan Chase & Co, USA. Mr. Kumarappan's esteemed presence added depth to the occasion, emphasizing the intersection of academia and industry. His insights shed light on the evolving landscape of digital services and platforms, inspiring both faculty and students alike. The event served as a bridge between theoretical knowledge and practical application, fostering an atmosphere of collaboration and innovation within the CSE community. Participants were privileged to engage with Mr. Kumarappan, gaining valuable perspectives on industry trends and future opportunities. The inauguration marked the beginning of an exciting academic year, poised to embrace emerging technologies and drive advancements in computer science and engineering.

The HR Conclave T23 was organized by the Department of Computer Science Engineering. Mr. R. Sathishraj, Chief Executive Officer of E-Crusaders; Mr. P. Shanmugam, HR Manager-Business Analyst at Cognizant; Thiru. N. Ramalingam, Chairman of KGI; Dr. C. Venkatesh, CEO of KGI; Thiru. C.K. Venkatachalam, Secretary of KGI; Director of RIC-KGI; and Thiru. S. Anandavadivel, Correspondent of KGI, participated in the event held on September 23, 2023, at EBET Knowledge Park in Nathakadalyur, Kangeyam. The Conclave likely served as a platform for professionals from various organizations to exchange insights, discuss emerging trends, and network within the HR domain. With representatives from esteemed companies and institutions, the Conclave likely facilitated discussions on industry challenges, best practices, and innovative approaches in human resources management. Such events play a crucial role in fostering collaboration, knowledge sharing, and professional development within the field, ultimately contributing to the advancement of HR practices in both academia and industry.

Faculty Participation:

Dr. S D Prabu Ragavendiran's patented Machine Learning Traffic Congestion Monitoring System, registered under the Designs Act 1949, stands as a transformative breakthrough. It employs advanced algorithms for real-time traffic analysis, promising an efficient approach to urban congestion challenges. This UK patent signifies the system's innovative nature and its potential to significantly impact urban transportation management. By offering a data-driven solution, the system heralds a new era in traffic management, promising to alleviate congestion and enhance the efficiency of urban transportation networks.

Dr. S D Prabu Ragavendiran, Head of the CSE department, demonstrates innovative prowess with a recent patent application (202341087426 A) filed in India. His groundbreaking invention focuses on "Machine-Learning-Based Natural Language Processing Techniques for Low-Latency Document Summarization," showcasing a commitment to advancing the field. This Indian patent underscores the significance of

his contribution to the realm of natural language processing and document summarization. By leveraging machine learning techniques, Dr. Ragavendiran's invention promises to revolutionize the process of summarizing documents, offering a low-latency solution that could greatly enhance efficiency and productivity in various domains, from information retrieval to content management.

Mr. Gobinath S, an Assistant Professor, has earned certification in Advanced Deep Learning and Computer Vision from Simplilearn in October 2023. This underscores his commitment to staying at technology's forefront. Such proficiency equips him with valuable skills contributing significantly to research, education, and innovation. This achievement is a testament to his passion for advancing knowledge in the dynamic domain of technology.

Dr. K. Sumathi, an Associate Professor, actively participated in the One Week National Level Faculty Development Program on Cloud Infrastructure (AWS) organized by MLR Institute of Technology, Telangana, and Brainovision Solutions India Pvt Ltd, in collaboration with AICTE. Held from August 21st to 25th, 2023, Dr. Sumathi's engagement underscores her dedication to staying updated with the latest advancements in cloud technology, enhancing her ability to educate

Dr. K. Sumathi completed the NPTEL course "Privacy and Security in Online Social Media" (NPTEL23CS69S43542113) from July to October 2023, earning an elite certificate. This showcases proficiency in safeguarding user data and underscores a commitment to addressing critical digital privacy and security issues. Equipped with this knowledge, Dr. Sumathi is better positioned to contribute to the development of strategies for online social media security.

Industrial Visit:

III CSE students embarked on a 2-day industrial visit to IROID Technology and Nestsoft Solutions in Kochi on October 6th and 7th, 2023. This immersive experience offered invaluable insights into the companies' operations and cutting-edge technologies. Through interactive sessions, students acquired practical knowledge, effectively bridging the gap between theoretical concepts and industry practices. Such visits play a pivotal role in enhancing students' understanding of real-world applications, equipping them with essential skills for their future careers in technology. Witnessing firsthand the innovation and processes at these renowned companies empowered students to apply their learnings effectively in the dynamic field of technology. Overall, the industrial visit provided a unique opportunity for students to gain practical exposure, fostering their professional development and preparing them to tackle challenges in the ever-evolving tech industry.

II CSE students embarked on a one-day industrial visit to Nestsoft Solutions in Kochi on November 18th, 2023. This insightful experience offered students a glimpse into the operations and technologies utilized by the renowned company. Through interactive sessions and practical demonstrations, students gained firsthand knowledge, enhancing their understanding of industry practices. The visit served as a bridge between theoretical learning and real-world applications, providing students with valuable insights to prepare them for future careers in the technology sector. Witnessing the innovation and processes at Nestsoft Solutions inspired students and equipped them with practical skills to excel in the dynamic field of technology.

Placement Achievment:

B. Sikkandar Badusha
Selected as Fullstack Web Developer
13.5 LPA

DIGITAL EPCS
Digital technology for EPC Business

T. Saranya
Software Engineer Trainee
8 LPA

neyes TECHNOLOGIES

E.Logapriya
Software Engineer Trainee
8 LPA

neyes TECHNOLOGIES

M. Balayogesh
Software Engineer Trainee
4.5 LPA

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