



BUILDERS

ENGINEERING COLLEGE

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai | ISO Certified Institution | Recognized 2(f) status by UGC
EBET Knowledge Park, Nathakadaiyur, Kangayam, Tirupur - 638 108, Tamil Nadu, India.



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

Mr. S. Gobinath AP(Sr.Gr)HoD

Dr.D.Maya AsP/CSE

STUDENT MEMBERS

M.Vimal raj

S.V.SOWTHIKA

INSIDE THIS ISSUE

- About The Department
- From The Principal's Desk
- From The HOD's Desk
- From The Editors's Desk
- Event Organized
- Workshop
- Faculty Participation
- Sports
- Student Participation
- Industrial visit
- Hackathon Participation (EDII):



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



Mr. S. Gobinath
HoD

Department of Computer Science & Engineering commits to work towards developing Engineers with a rich blend of competent, technical, managerial and social skills and contribute to nation building. The Department takes the initiative to improve the soft skills, analytical capabilities and verbal communication of the students so that they can face the competition in the corporate world confidently. To meet the vision and mission of the department, emphasis was given to practical skill based learning with recent technical tools in order to match the technical expectation of the corporate companies.

Students exhibit their innovative ideas, skills and potentials as final year projects and have won many awards at various levels. The state of the art infrastructure, experienced team of faculty strengthen effective teaching learning process ensuring quality technical education.

Event Organized:

Association of Computer Science and Engineering “SPARKS 2K23”

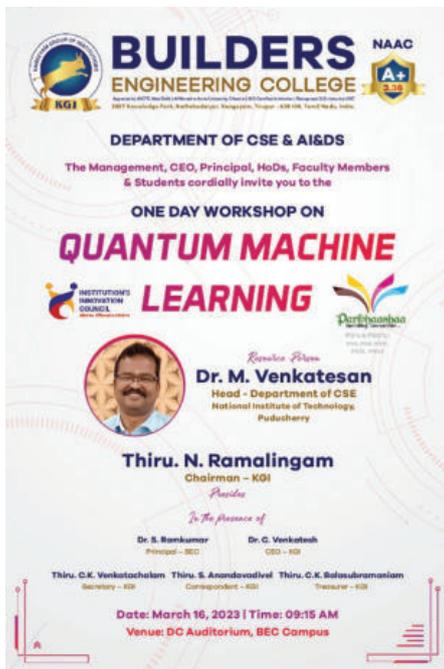
March 23, 2023



Sparks 2023, hosted by the Paribadha Association of Computer Science Engineering on March 23, featured a distinguished guest, Mohamed Irfan, a Software Engineer at Nokia, Chennai. Irfan shared valuable insights into the dynamic field of software engineering, highlighting emerging trends and the role of technology in shaping the future. Attendees gained a deeper understanding of the industry's challenges and opportunities. The event fostered networking and collaboration among computer science enthusiasts, providing a platform for knowledge exchange. Irfan's expertise illuminated the path for aspiring engineers, emphasizing the importance of innovation and adaptability in the ever-evolving landscape of computer science.

Workshop:

On March 16, 2023, the Department of Computer Science and Engineering at the National Institute of Technology Puducherry organized a Quantum Machine Learning workshop with Dr. M. Venkatesan serving as the resource person and the Head of the Department. This event provided participants with a platform to explore the intersection of quantum computing and machine learning, delving into cutting-edge advancements in this interdisciplinary field. Dr. Venkatesan, leveraging his expertise, guided



interdisciplinary field. Dr. Venkatesan, leveraging his expertise, guided attendees through the intricacies of quantum algorithms and their applications in machine learning. The workshop cultivated an environment for knowledge exchange, empowering participants with insights into the future possibilities at the nexus of quantum computing and artificial intelligence.

the principles, applications, and challenges of Quantum Machine Learning, paving the way for groundbreaking advancements in computational techniques. This workshop presents a unique opportunity for scholars, researchers, and

FACULTY PARTICIPATION:



Ms. P. Santhiya attended a course on "Artificial Intelligence, Machine Learning, and Deep Learning" at NIT Warangal from January 27th to January 31st, 2023. The course covered AI concepts through lectures and practical sessions, providing participants like Ms. Santhiya with essential knowledge and skills for dealing with complex AI-driven systems effectively.

Ms. P. Santhiya participated in the "FDP Data Science Using Machine Learning" workshop held from January 2nd to January 6th, 2023, at Pravara Rural Engineering College in collaboration with ExcelR. Throughout the workshop, Ms. Santhiya engaged in intensive learning sessions, practical exercises, and interactive discussions aimed at enhancing her proficiency in data science and machine learning techniques. Leveraging the expertise of both the college faculty and ExcelR instructors, she gained valuable insights into data preprocessing, statistical analysis, and the application of various machine learning algorithms. Ms. Santhiya's participation underscores her commitment to advancing her skills and knowledge in the rapidly evolving field of data science.



Mr. Sivasankar R from Builders Engineering College exhibited a strong commitment to professional growth by engaging in a Robotics Process Automation webinar on January 21, 2023. Organized by BVICAM, New Delhi, the event deepened his understanding of this evolving field. Through active participation, Mr. Sivasankar R gained valuable insights into Robotics Process Automation, enhancing his expertise and staying updated with emerging trends in the industry.

Industrial visit



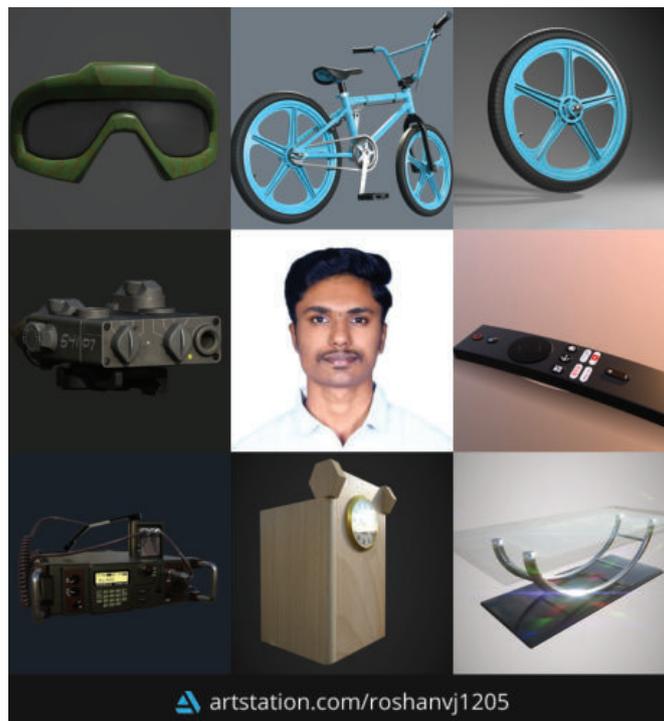
The III CSE students undertook a two-day industrial visit to both Code Bind Technologies and Lemeniz on April 25th, 2023, delving into the dynamic realm of technology. The visit offered invaluable insights into real-world applications of classroom concepts. Through guided tours, interactive sessions, and hands-on demonstrations, students experienced innovative software development

processes, project management methodologies, and emerging technologies firsthand. Exploring state-of-the-art facilities and witnessing live projects in action, students gained practical knowledge and industry exposure, enriching their academic journey with practical insights. The visit nurtured curiosity and encouraged students to explore diverse career opportunities in the ever-evolving technology sector.

Student Participation:



Ramesh Kumar V., Ruknu Roshan, Kadhir G., Rohini, Vinothapriya, Vaishali, Umamaheshwari, and Sneha of BEC have successfully completed a comprehensive six-day workshop on "Immersive Techniques (AR/VR)" from May 8th to May 13th, 2023. The training was meticulously conducted by DNS Gaming and Production Pvt. Ltd., located in Koramangala, Bangalore. Through this workshop, Kadhir has gained practical expertise and theoretical knowledge in cutting-edge technologies such as Augmented Reality (AR) and Virtual Reality (VR). This immersive learning experience equips Kadhir with valuable skills that are increasingly sought after in various industries, empowering him to explore innovative solutions and contribute effectively to the advancement of immersive digital experiences.



Sports

On February 8, 2023, Udhaya Hevin Raja won the silver medal in the District Level CM Trophy. Additionally, Sowmiya Sri G participated in a paper presentation event. Both achievements showcase their dedication and talent in their respective fields, marking significant milestones in their journey.

Hackathon Participation (EDII):



G. Rohini, V. E. Nandini, R. Suruthi, S. Umamaswari, and S. Venotha Priyaa showcased their innovative solutions at the grand finale of the Sustainability Hackathon hosted by Entrepreneurship Development Institute Of India (EDII) in Ahmedabad, Gujarat. The event served as a platform for participants to address pressing sustainability challenges through entrepreneurial endeavors. Each participant contributed unique perspectives and ideas, demonstrating their commitment to fostering sustainable practices. Their active involvement in this hackathon reflects a dedication to driving positive change and finding creative solutions to environmental and societal issues. The grand finale provided an opportunity for these individuals to showcase their passion for sustainability.