



BUILDERS ENGINEERING COLLEGE

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
ISO 9001:2015 Certified Institution & Accredited by NAAC with B++ Grade

Erode Road, Nathakadaiyur, Kangeyam, Tirupur - 638 108, Tamil Nadu.

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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.

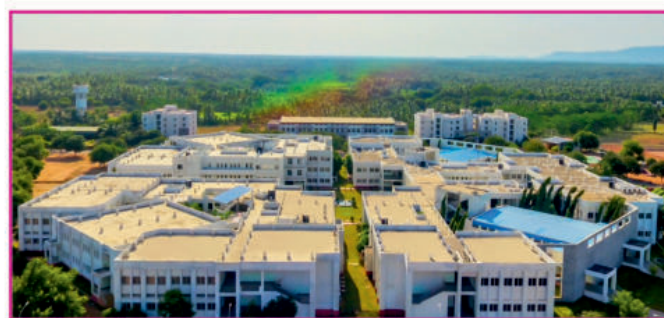
Program Specific Objectives (PSOs):

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 HoD/CSE AP (Sr.Gr)

Dr.D.Maya AsP/CSE

STUDENT MEMBERS

S.Deepak

M.Suguna

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From the Principal's Desk



Dr. S. Gopalakrishnan
Principal

It gives me an immense pleasure in welcoming you to Builders Engineering College (BEC), Nathakadaiyur, Tirupur 638 108. BEC (Formerly Erode Builder Educational Trust's Group of Institutions) was founded in the year 2009 by Erode Builder Educational Trust (EBET) with a vision to impart quality higher education to rural aspirants through innumerable institutions. It has been promoted by a group of likeminded visionaries with the unique objective of offering value based education to the students for a prosperous career.

BEC is approved by AICTE, New Delhi and affiliated to Anna University, Chennai. The campus is eco-friendly and equipped with excellent infrastructure, qualified and well experienced faculty members who strive hard to attain academic excellence in higher education by empowering students with knowledge, wisdom and experience.

Over the past 14 years, the college has witnessed a strong blend of state-of-the-art infrastructure including incubation and innovation centres and dedicated human resource committed to provide professional education with thrust on Creativity, Technical and Innovation.

Since its inception, BEC creates excellent placement opportunities to the students to reach a spectacular position in their professional career and offers special training to develop the extracurricular skills.

I look forward to receiving you at Builders Engineering College to witness all new Outcome Based Education (OBE).

From the HoD's Desk



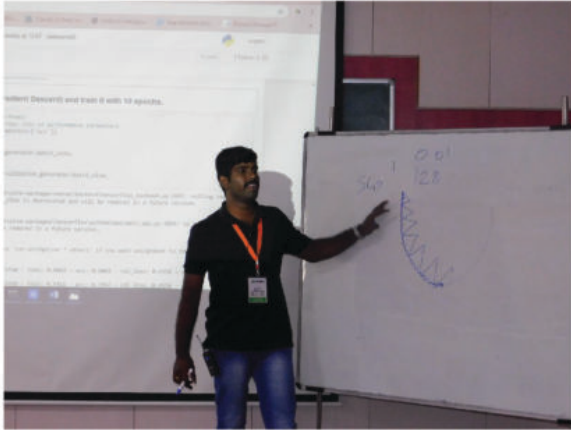
Mr. S. Gobinath
HoD

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.

Events Organized

"PARIBHAASHAA 2020-21 (ON-LINE MODE)":



Medical Image Analysis

July 6, 2020

On July 6, 2020, a hands-on session on Medical Image Analysis took place, organized in collaboration with the student association "Paribhaashaa" at KPR Institute of Engineering & Technology. Mr. V. Chandran, an Assistant Professor at the institute, served as the organizer and resource person for the event. The session was enriched by the participation of 51 students and 8 faculty members. Notably, Mr. Chandran holds certification as a NVIDIA DLI Certified Instructor, adding a valuable dimension to the expertise shared during the event. The engagement aimed to provide practical insights into the field of Medical Image Analysis, offering a unique learning experience to the participants. This event exemplified the commitment of KPR Institute of Engineering & Technology to fostering hands-on learning and collaboration within its academic community.

Introduction to Big Data Analytics and its Research Issues

June 30, 2020

On June 30, 2020, the "Introduction to Big Data Analytics and its Research Issues" session, in collaboration with the student association "Paribhaashaa," featured Dr. M. Ananthi, Associate Professor from Sri Sairam Engineering College, Chennai, as the organizer and resource person. The event witnessed active participation from 64 students and 8 faculties, fostering an insightful exploration of big data analytics and its research challenges.

Workshops Organized:

Emerging Trends in Information Technology June 23 to June 27, 2020



Dr. Maya D conducted a comprehensive program on "Emerging Trends in Information Technology" from June 23 to June 27, 2020, organized by Karpagam College of Engineering, Coimbatore. The 5-day program delved into the latest developments shaping the field of information technology, providing participants with valuable insights into emerging trends and technologies.

AI in Healthcare December 14 to December 20, 2020

Mr. Satheesh Kumar A led a program on "AI in Healthcare" from December 14 to December 20, 2020, with a duration of 6 days. Organized by SSN College of Engineering, Kalavakkam, the program explored the application of artificial intelligence in the healthcare domain, offering participants an in-depth understanding of the intersection between technology and healthcare.



Artificial Intelligence and Machine Learning with Data Science December 14 to December 19, 2020



Ms. Ammu V played a pivotal role in the program titled "Artificial Intelligence and Machine Learning with Data Science," held from December 14 to December 19, 2020, for a duration of 5 days. The program, organized by Guru Nanak Dev Engineering College, Ludhiana, focused on the integration of artificial intelligence, machine learning, and data science, providing participants with a holistic view of these interconnected fields.

AI in Healthcare

December 14 to December 20, 2020



Mr. Arun R contributed to the program "AI in Healthcare," which took place from December 14 to December 20, 2020, organized by SSN College of Engineering, Kalavakkam. This 6-day initiative explored the applications and advancements of artificial intelligence within the healthcare sector, offering

Digital Marketing

June 20, 2020

Mr. Arun M spearheaded the "Digital Marketing" program from June 15 to June 20, 2020, organized by ICT Academy. Over the course of 5 days, participants gained insights into the dynamic world of digital marketing, covering strategies, tools, and trends shaping the industry.



Recent Trends in Computer Science & IT

June 13 to June 17, 2020



Ms. Kiruthika R facilitated two programs; the first, "Recent Trends in Computer Science & IT," held from June 13 to June 17, 2020, organized by Raj Kumar Goel Institute of Technology, Ghaziabad. The second, "Advanced Data Science and its Applications," took place from June 22 to June 26, 2020, organized by BVRIT Hyderabad College of Engineering for Women. Both 5-day programs explored cutting-edge trends in their respective domains, equipping participants with valuable knowledge and skills.

Industrial Automation And Robotics

June 1, 2020

On June 1, 2020, a program on "Industrial Automation And Robotics" was conducted at Builders Engineering College, contributing to the participants' understanding of these critical technologies in the industrial landscape.

Faculty Participation:

Grid Connected And Islanded Microgrid Design Using Homer Pro (04.06.2020):

This session, conducted at Builders Engineering College, focused on designing microgrids that can operate both connected to the main power grid and in islanded mode, providing a comprehensive understanding of microgrid design using Homer Pro.

Earthquake Resistant Design Of Structures (02.06.2020):

At Builders Engineering College, this session centered around the design of structures that can withstand earthquakes, covering principles and techniques to enhance the seismic resilience of buildings.

Treatment Of Domestic Wastewater - An Advanced Sbr System (05.06.2020):

Builders Engineering College hosted a session on advanced Sequential Batch Reactor (SBR) systems for the treatment of domestic wastewater, delving into innovative approaches for effective wastewater treatment.

Industrial Automation And Robotics (01.06.2020):

This Builders Engineering College event on Industrial Automation and Robotics explored the applications and advancements in automation and robotics within industrial settings, providing insights into the latest technologies in these fields.

Faculty Development Program on Emotional Intelligence



Builders Engineering College, Kangayam proudly recognizes and commends M. Arun for participating in the 9-hour Faculty Development Program on Emotional Intelligence, an Online Live FDP organized by ICT Academy. This certificate signifies his dedication to continuous learning and professional growth, contributing to the institution's commitment to excellence in education.