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 AP(Sr.Gr)/HoD

Dr. D. Maya AsP/CSE

STUDENT MEMBERS

T. Rishith Praveen

S. Rudhra Priya

From the Principal's Desk

Dr. S. Gopalakrishanan
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 depatemnt , emphasis was given to practical skill based learning with recent technical tools in order to match the technical expecation of the corporate companies.
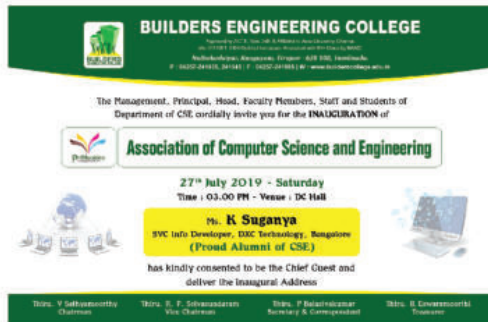
Students exhibit their innovative ideas, skills and potentials as final year projects and have won many awards at variours levels. The state of the art infrastructure, experienced team of faculty strengthen effective teaching learning process ensuring quality technical education.

Events Organized

"Paribhaashaa 2019-20":

SVC Info Developer, DXC Technology, Bangalore
July 27, 2019

On July 27, 2019, Ms. K. Suganya, SVC Info Developer at DXC Technology, Bangalore, honored the inauguration ceremony. Her presence highlighted dedication and expertise in technology. As Chief Guest, she inspired attendees with insightful words, symbolizing collaboration and shared vision. The event marked a new chapter, fostering innovation, determination, and excellence.

Workshops Organized:

- At NSchool Academy, Coimbatore, a hands-on training session on the Weka tool took place from August 23rd to 24th, 2019. Facilitated by Mr. P. Velayathasamy, an experienced App Developer, the training spanned 12 hours and targeted second, third, and fourth-year Computer Science and Engineering students. This initiative aimed to equip participants with practical skills in utilizing the Weka tool, contributing to their academic and professional development.

- In another educational endeavor, VECTRA TECHNOSOFT PVT LTD facilitated a rigorous REDHAT Certification Training program from December 9th to 12th, 2019. With R. Kathir, an esteemed RHCSE Trainer, as the visiting faculty, the training spanned 35 hours and catered specifically to third-year students. Focused on REDHAT technologies, the program aimed to prepare students for certification exams and enhance their proficiency in the domain.Certainly! The provided list includes various workshops, training programs, and classes conducted for academic and skill development purposes. Here's a brief description of each entry:

- Mr. Gobinath S conducted a five-day workshop on Blockchain Technology from August 23rd to 27th, 2021, at Government College of Engineering, Dharmapuri, providing insights into blockchain principles and applications.

- Swami Keshvanand Institute of Technology, Management & Gramothan organized a five-day Short Term Training Program on Writing and Publishing of Quality Research Articles and Ethics of Research from February 21st to 25th, 2022.

- Mepco Schlenk Engineering College hosted a five-day workshop on Artificial Intelligence for Real-Time Applications from March 25th to 29th, 2022, focusing on practical AI implementations and advancements.

- Pantech e Learning Pvt Ltd conducted a 30 Days Master Class on Data Science and Analytics from January 20th to February 18th, 2022, providing comprehensive training in data analysis techniques.

- ICT Academy organized a three-day workshop on Microsoft Azure Data Fundamentals from March 28th to 30th, 2021, aimed at introducing participants to fundamental concepts of Microsoft Azure data services.

- SRM Institute of Science and Technology, Ramapuram Campus, Chennai hosted a six-day workshop on Emerging Research Trends in Computer Science and Technology from August 23rd to 29th, 2021.

- ISTE & Builders Engineering College, Kangeyam, conducted a ten-day workshop on Meeting the Challenges of the Global Economy in the 21st Century in June to July 2021.

- Vignan's Institute of Engineering for Women organized a five-day workshop on Advancements in Data Analytics using Informatica from June 21st to 25th, 2021.

- Ms. Ammu V undertook a four-week course on Introduction to Virtual Reality from June 5th to 30th, 2021, facilitated by the University of London through Coursera.

- ICT Academy conducted a five-day workshop on Stress Management from June 28th to July 2nd, 2021, focusing on techniques to cope with stress effectively.

- SRM Institute of Science and Technology, Ramapuram Campus, Chennai, organized a six-day workshop on Emerging Research Trends in Computer Science and Technology from August 23rd to 29th, 2021.

- Vinayaka Mission's Kirupananda Variyar Engineering College hosted a six-day workshop on Artificial Intelligence in Healthcare using one API Tool from December 14th to 20th, 2021.

- ICT Academy organized a five-day workshop on Introduction to Python Programming from September 27th to October 1st, 2021, offering foundational knowledge in Python programming.

- ICT Academy conducted a five-day workshop on Fundamentals of AI from August 2nd to 6th, 2021, providing participants with basic insights into artificial intelligence concepts and applications.

- ICT Academy conducted a five-day workshop on Introduction to Python Programming from September 27th to October 1st, 2021, providing foundational knowledge and practical skills in Python programming.

- Mr. Rajkumar T participated in a five-day workshop titled Fundamentals of AI organized by ICT Academy from August 2nd to 6th, 2021. This workshop aimed to introduce participants to the basic concepts and applications of artificial intelligence..

Add ons(Practical Training , industrial visit):

Student Participants:

1. Vellalar College of Engineering and Technology organized a Honey Pot Exploration event on September 12th, 2019, where students Keerthivarman N and Mohammed Muddassir M delved into the intricacies of honey pot technology. This hands-on exploration equipped them with practical knowledge and insights into cybersecurity measures and threat detection mechanisms.

2. Tamilnadu College of Engineering hosted a Data Privacy Symposium on September 12th, 2019. Students Kavishankari S P and Nivethitha M participated in discussions and presentations aimed at understanding and advocating for data privacy rights and measures to safeguard personal information in the digital age.

3. On the same day, Tamilnadu College of Engineering organized a Zigbee Technology Showcase where students Deevija T and Kowsalya A showcased the potential applications and functionalities of Zigbee technology. This event provided a platform for exploring innovative solutions and advancements in wireless communication systems.

4. Kongu Engineering College conducted a Blockchain Deep Dive event on March 13th, 2019. Student Y. Jenifa immersed herself in an in-depth survey about blockchain technology, gaining insights into its decentralized nature and potential applications across various industries.

5. Also at Kongu Engineering College on March 13th, 2019, student A. Santhosh participated in a Qualnet Simulator Exploration event. Through surveys and practical demonstrations, he delved into the functionalities and capabilities of Qualnet Simulator, gaining valuable insights into network simulation and analysis.

6. Another event organized by Kongu Engineering College on March 13th, 2019, was the Controlling E Path Seminar. Student M. P. Hariesh engaged in discussions and presentations focused

on controlling electronic paths, exploring strategies to optimize electronic circuits for efficient performance and functionality.

Inplant Training:

1. In November 2019, four participants engaged in an enriching Inplant Training program hosted by Nandha Infotech in Coimbatore. Spanning from November 25th to 29th, this immersive experience provided participants with firsthand exposure to industry practices and technologies, enhancing their practical skills and knowledge.

2. Pantech Solution in Coimbatore welcomed nineteen participants for an intensive Inplant Training session from November 25th to 29th, 2019. This dynamic program offered hands-on learning opportunities and insights into cutting-edge technologies, empowering participants to bridge the gap between theoretical knowledge and practical application.

3. G-Net Solutions in Coimbatore hosted an insightful Inplant Training program from December 20th to 25th, 2019. Participants immersed themselves in the industry environment, gaining valuable experience and honing their skills under the guidance of experienced professionals. This training served as a stepping stone for their future endeavors in the field.-
No. of Participants: 7

Student Achievements:

In an impressive display of teamwork and skill, Ms. E. Pathmavathi, Ms. Jeevarani, Ms. K. Durkadevi, Ms. M. Tamilarasi, and Ms. V. Divya secured third place in Basketball at the Anna University Zonal event on September 21st, 2019. Their collaborative effort exemplifies dedication and sportsmanship, reflecting positively on their commitment to excellence in athletics. Their achievement serves as a testament to their hard work and the strength of their collective abilities on the court.

Mr. M. Suresh demonstrated his dedication and skill in athletics by securing third place in Discus Throw at the Anna University Zonal Athletic Meet, held from September 17th to October 2nd, 2019. His remarkable achievement underscores his commitment to excellence and his proficiency in the sport. Through disciplined training and focused effort, Mr. Suresh showcased his talent on the field, earning recognition for his athletic prowess and determination to succeed.

Faculty Achievements:

In 2019, the International American Council for Research and Development bestowed upon Prof. Arun Ranganathan the prestigious International Young Faculty Award, underscoring his exceptional contributions to academia and research. This esteemed recognition highlights Prof. Ranganathan's dedication to advancing knowledge and fostering scholarly excellence. With a profound impact on his field, he has demonstrated outstanding commitment, innovative thinking, and scholarly achievement. The award not only acknowledges his past accomplishments but also serves as a testament to his ongoing commitment to advancing education and contributing meaningfully to the global academic community. Prof. Arun Ranganathan's work continues to inspire and shape the future of his discipline.