



# 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.*

Ph : 04257 241935, 241545 | Fax : 04257 241885, Email : [info@builderscollege.edu.in](mailto:info@builderscollege.edu.in), [www.builderscollege.edu.in](http://www.builderscollege.edu.in)

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### NEWS LETTER



#### Genesis:

The Department of Electrical and Electronics Engineering was started in the year 2010 and offers BE EEE programme in tune with the syllabi of Anna University. The department aims to develop electrical engineers who are innovative, entrepreneurial, and equipped to become global leaders in research and technology. The department has well qualified faculty members who are specialists in the fields of Power Electronics and Drives, VLSI Design, Applied Electronics and Power Engineering and Management. The faculty team includes a doctorate serving for the betterment of the students. The department has well equipped laboratories. The department provides an environment to students in such a way that they will be able to understand the core concepts including Electrical machines, Circuits and Networks, Power systems, Power Electronics, Electromagnetic theory, Instrumentation, Microprocessors and Microcontrollers and Electron Devices & Circuits.

#### Highlights:

- ◆ Facilitating students to acquire core competency in the field of electrical and electronics engineering
- ◆ Well Equipped Laboratories
- ◆ Well Equipped KGI's Tech Center
- ◆ Well Qualified and Experienced Faculty team
- ◆ One to one Mentoring for Professional Developments
- ◆ Internship with Stipend
- ◆ MOU's with Leading Industries
- ◆ Collaborating with Industry to provide Engineering solutions
- ◆ Excellent Placement record in Core & IT
- ◆ Smart Class Rooms
- ◆ Academic Incentives for Toppers

#### Vision:

To become a front-runner in moulding the students globally competent, knowledgeable electrical engineers also as performers in the roles of innovators, researchers and entrepreneurs.

#### Mission

To nurture the students with sound technical knowledge to meet the upcoming challenges in electrical domain and to enhance competitiveness of the graduates for higher studies.

#### Program Educational Objectives (PEOs):

- ◆ Shall flourish in their professional careers, further education, research, or as entrepreneurs.
- ◆ Must always learn new things and hone existing abilities to create solutions that have a big impact and are cutting-edge in terms of energy use.
- ◆ To create and build practical, multidisciplinary solutions that are technically sound, commercially viable and socially acceptable, graduates must have strong communication skills, a professional demeanour and ethical behaviour.

#### Programme Specific Outcomes (PSO):

- ◆ To understand the concepts of Electrical and Electronics Engineering and fundamental sciences to analyze and implement in research field.
- ◆ To take up roles in interdisciplinary projects, develop managerial skills and contribute towards the electrical community globally.

#### Events:

- ◆ Association Activities - AEEE - KRATU (The Power)
- ◆ Students Activities
  - Co - Curricular
  - Extra - Curricular

## About the Institution

Builders Engineering College (Formerly known as Erode Builder Educational Trust's Group of Institutions) was established by Erode Builder Educational Trust (EBET) in the year 2009 as an integrated campus and presently functioning as a technical campus. It offers six UG Programmes (BE - Civil, CSE, ECE, EEE, Mechanical) with an intake of 300 students and four PG Programmes (ME - CEM, STR, CSE and MBA) with an intake of 114 students. The Management, CEO, Principal and faculty members are committed to elevating the lives of budding rural aspirants through academics and research. The Chief Patrons are the pioneers in the field of infrastructure and construction all over India.

## Vision

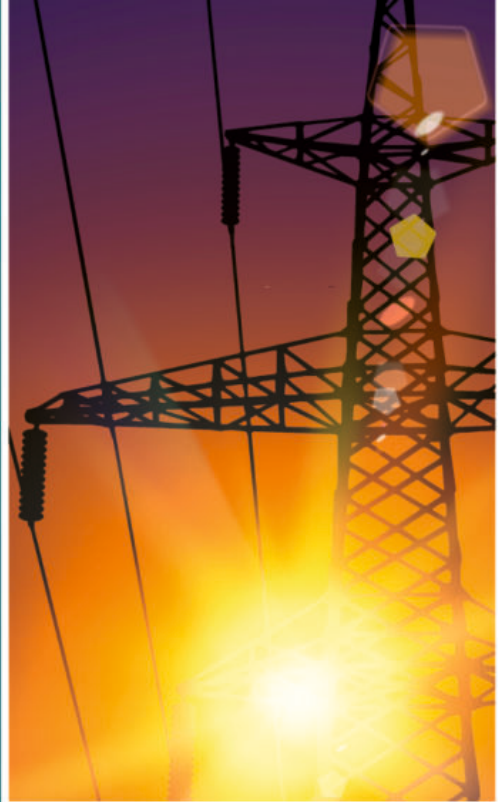
To be the most preferred knowledge provider.

## Mission

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

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### EDITORS IN CHIEF

**Dr. S. Saravanan**  
Head of the Department

**Dr. R. Palanisamy**  
Associate Professor

### STUDENT EDITORS

**Ms. R. Saranya**  
II Year

**Mr. S. Kapildev**  
II Year

**Ms. M. Fathima**  
III Year

**Ms. R. Sreenithi**  
III Year

**Mr. M. K. Naveen**  
IV Year

**Ms. S. Sudha**  
IV Year

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Builders Engineering College,  
Nathakadaiyur, Kangeyam Tk., Tirupur Dt.,  
Tamilnadu, India - 638 108.

*Electrifying the*  
**Next-gen ENGINEERS**





## *From* **PRINCIPAL'S DESK**

Dear Faculty, Staff, Students, and Alumni,

Greetings to the vibrant community of Builders Engineering College!

As we embrace the opportunities and challenges of the new semester, I am filled with a sense of pride and excitement for all that lies ahead. Our college is not just a place of learning; it is a dynamic ecosystem where innovation, creativity, and excellence thrive.

I am pleased to report that our college continues to uphold its reputation for academic excellence and innovation. Our faculty members, renowned for their expertise and dedication, continue to inspire and mentor our students, shaping them into future leaders in the field of engineering.

This semester, we are embarking on several new initiatives aimed at enhancing the learning experience and providing our students with the skills and knowledge they need to succeed in an ever-evolving world. From cutting-edge research projects to industry partnerships and internships, there are abundant opportunities for our students to explore and grow.

I would like to extend my heartfelt appreciation to our faculty and staff for their tireless efforts in ensuring the smooth functioning of our college and for their unwavering commitment to our students' success. Your dedication is the driving force behind our college's continued progress and success.

To our students, I encourage you to make the most of the resources and opportunities available to you during your time at Builders Engineering College. Embrace challenges, pursue your passions, and never stop striving for excellence. Remember, the knowledge and skills you gain here will not only shape your future but also contribute to the advancement of society as a whole.

Finally, I want to express my gratitude to our esteemed alumni for their continued support and involvement in the college community. Your achievements serve as a source of inspiration for current and future generations of students, and we are proud to call you members of the Builders Engineering College family.

As we embark on this new semester together, let us reaffirm our commitment to excellence, innovation, and inclusivity. Together, we will continue to push the boundaries of knowledge and create a brighter future for generations to come.

Best wishes for a successful and fulfilling semester ahead!

**Dr. S. Gopalakrishnan**  
Principal



## From HoD's DESK

Dear Students, Faculty, and Staff,

I hope this message finds you all in good health and high spirits as we embark on another exciting semester in the Electrical and Electronics Engineering Department. As the Head of the department, it brings me immense pleasure to welcome both new and returning members of our academic community.

Our department prides itself on fostering a culture of innovation, collaboration, and excellence in education and research. As we continue our journey of exploration and discovery in the field of electrical and electronics engineering, I am excited to see the passion and dedication that each of you brings to the table.

To our esteemed faculty members, I extend my deepest gratitude for your tireless efforts in imparting knowledge, mentoring students, and conducting cutting-edge research. Your expertise and commitment to academic excellence play a pivotal role in shaping the future generation of engineers and innovators.

To our students, I encourage you to seize every opportunity that comes your way during your time in our department. Take advantage of our state-of-the-art laboratories, engage in research projects, participate in extracurricular activities, and strive for academic excellence. Remember, your journey here is not just about acquiring knowledge but also about honing your skills, nurturing your creativity, and becoming lifelong learners.

As we embark on this new semester, let us continue to uphold the values of integrity, professionalism, and inclusivity that define our department. Let us collaborate, support one another, and work together towards our shared goal of making meaningful contributions to the field of electrical and electronics engineering.

I am confident that with our collective efforts and dedication, we will overcome any challenges that come our way and emerge stronger and more resilient than ever before. I look forward to witnessing the incredible achievements and milestones that lie ahead for our department.

Wishing you all a successful and fulfilling semester ahead!

Warm regards,

**Dr. S. Saravanan**  
HoD



# From **EDITOR's DESK**

Dear Readers,

Welcome to the latest edition of our newsletter! As we dive into the stories, updates, and insights featured in this issue, I am thrilled to connect with you once again and share the latest happenings from our community.

In today's fast-paced world, staying informed and connected is more important than ever. Through this newsletter, we aim to provide you with valuable information, thought-provoking content, and engaging stories that reflect the diverse interests and achievements of our community.

From spotlighting inspiring individuals and showcasing innovative projects to sharing important announcements and upcoming events, our newsletter serves as a platform to celebrate our collective successes and foster meaningful connections.

I would like to express my gratitude to all our contributors, writers, editors, and designers who have dedicated their time and expertise to bring this newsletter to life. Your passion and dedication are truly commendable, and I am grateful for the opportunity to work alongside such talented individuals.

As we continue to evolve and grow, I encourage you to share your feedback, ideas, and suggestions with us. Your input is invaluable in shaping the future direction of our newsletter and ensuring that it remains a valuable resource for our readers.

Thank you for your continued support and enthusiasm. Together, we can make our newsletter an even more vibrant and engaging platform for sharing stories, ideas, and insights that matter.

Happy reading!

Warm regards,

**Ms. R. Saranya**

II - EEE

**Ms. M. Fathima**

III - EEE

**Mr. M. K Naveen**

IV- EEE

**Mr. S. Kapildev**

II - EEE

**Ms. R. Sreenithi**

III - EEE

**Ms. S. Sudha**

IV- EEE

# ASSOCIATION *Activities*



## KRATU '19

The "Inauguration of the Association of Electrical and Electronics Engineering (KRATU '19)" event, which took place on July 13, 2019, was a significant occasion for our institution. As part of this event, we had the honor of inviting Mr. P. Arthiban Manikam, the Managing Director of Caliber Embedded Technologies, Erode, to deliver a lecture on microcontroller drives. Mr. Manikam's expertise in this field provided valuable insights and knowledge to our students and faculty members. His lecture not only enriched our understanding of microcontroller drives but also inspired us to explore new advancements in electrical and electronics engineering. The event served as a platform for learning, networking, and fostering innovation within our academic community.

## Power Electronics Circuits Design

On September 28, 2019, an enriching one-day Hands-on Training session on "Power Electronics Circuits Design" was conducted by Mr. Ramesh Babu from Caliber Embedded Technologies, Salem. This session provided participants with practical insights and skills in designing power electronics circuits, a crucial aspect of modern electronics engineering. Mr. Ramesh Babu's expertise and guidance ensured that attendees gained comprehensive knowledge and hands-on experience, empowering them to apply these principles effectively in their academic and professional endeavors in the field of electronics and power engineering.





## Renewable Energy Day

In celebration of Renewable Energy Day on August 31, 2019, we were delighted to invite Mr. M. Boopathi, the Electrical Manager at Teemage Builders Pvt. Ltd. in Tirupur, and Mr. N. Neelamehan, the Solar Incharge at Teemage Builders Pvt. Ltd. in Kangayam. Their presence allowed for the exchange of invaluable insights and experiences regarding renewable energy. Through their expertise, attendees gained deeper understanding and appreciation for sustainable energy practices, contributing to the broader conversation on environmental stewardship and the adoption of renewable energy solutions. Their participation underscored the importance of collaboration and knowledge-sharing in advancing efforts towards a more sustainable future.

## IN-PLANT *Training*

- Thirteen third-year, fifth-semester students participated in a 6-day implant training program at Caliber Embedded Technologies India (P) Ltd. from June 2 to June 7, 2019. Through this intensive program, they acquired valuable practical insights and hands-on experience in embedded technologies, enhancing their understanding and skill set in this specialized field of study.
- Thirteen third-year, fifth-semester students participated in a 6-day implant training program at Caliber Embedded Technologies India (P) Ltd. from June 2 to June 7, 2019. This program provided them with valuable practical insights and hands-on experience in the field of embedded technologies, enhancing their understanding and skills in this specialized area.
- Five third-year students, currently in their sixth semester, attended a five-day implant training program at C.R. Motors PVT. LTD. in Coimbatore from June 3 to June 7, 2019. This intensive program provided them with practical exposure and insights into the operations and technologies within the automotive industry.

# MoU Signed



## M/s Caliber Embedded Technologies India Pvt. Ltd.

On July 13, 2019, a significant milestone was achieved as an MOU was formalized between M/s Caliber Embedded Technologies India Private Limited and our educational institution. This agreement aimed to foster collaboration in providing in-plant training opportunities and supporting final year student projects. By facilitating practical learning experiences, the MOU aimed to enhance the students' skill sets and prepare them for real-world challenges in their respective fields of study. This partnership signified a commitment to bridging the gap between academia and industry, empowering students to apply theoretical knowledge in practical scenarios and fostering innovation and growth in the educational landscape.

# INDUSTRIAL Visit



On September 6, 2019, 43 students toured Swelect Energy Systems' Iddapadi Factory, delving into the renewable energy sector. Similarly, on July 20, 2019, 22 students explored Kundah Power Houses, deepening their understanding of power generation. These visits provided firsthand insights, enriching their comprehension and fostering interest in renewable energy and power generation industries.