



BUILDERS ENGINEERING COLLEGE

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai | ISO 9001:2015 Certified Institution | NAAC 'A+' Grade | Recognized 2(f) status by UGC

EBET Knowledge Park, 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

V .Santhosh Kumar

G.Shanmuga Priya

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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.

Blockchain Technology**August 23, 2021 to August 27, 2021**

In the realm of cutting-edge technology, Mr. Gobinath S spearheads an insightful workshop on Blockchain Technology. Scheduled to unfold from 23/08/2021 to 27/08/2021 at the esteemed Government College of Engineering in Dharmapuri, this comprehensive program promises participants a profound exploration into the fundamental principles and versatile applications of blockchain. As the instructor, Mr. Gobinath S brings his expertise to guide attendees through a 5-day journey, unraveling the intricacies of blockchain technology and its potential impact across various domains. The venue, Government College of Engineering, Dharmapuri, serves as the backdrop for this immersive workshop, providing an ideal setting for participants to delve into the transformative world of blockchain.

Artificial Intelligence in Healthcare using one API Tool**December 14, 2021 to December 20, 2021**

Ms. Kalaiabirami D - Artificial Intelligence in Healthcare using one API Tool
Ms. Kalaiabirami D leads a 6-day workshop on Artificial Intelligence in Healthcare using one API Tool from 14/12/2021 to 20/12/2021 at Vinayaka mission's Kirupananda Variyar Engineering College, Salem. Participants will delve into the application of AI in the healthcare domain.

Advancements in Data Analytics using Informatica**June 21, 2021 to June 25, 2021**

Advancements in Data Analytics using Informatica
Taking place from 21/06/2021 to 25/06/2021 at Vignan's Institute of Engineering for Women, Visakhapatnam, this 5-day workshop focuses on the latest advancements in data analytics leveraging Informatica. Participants can expect hands-on experience and insights into cutting-edge data analytics techniques.

Stress Management

June 28, 2021 to July 02, 2021



Mr. Manoj Praveen V - Stress Management

Mr. Manoj Praveen V leads a Stress Management workshop from 28/06/2021 to 02/07/2021 at ICT Academy. This 5-day program is designed to equip participants with effective stress management techniques,

Emerging Research Trends in Computer Science and Technology

August 23, 2021 to August 29, 2021



Ms. Vidhya D - Emerging Research Trends in Computer Science and Technology

Ms. Vidhya D spearheads a workshop on Emerging Research Trends in Computer Science and Technology, scheduled from 23/08/2021 to 29/08/2021 at SRM Institute of Science and Technology, Ramapuram Campus, Chennai. Over 6 days, participants will gain valuable insights into the latest trends shaping the field.

Emerging Research Trends in Computer Science and Technology

August 23, 2021 to August 29, 2021



Ms. Santhiya P - Emerging Research Trends in Computer Science and Technology

Conducted at SRM Institute of Science and Technology, Ramapuram Campus, Chennai, Ms. Santhiya P's workshop on Emerging Research Trends in Computer Science and Technology spans from 23/08/2021 to 29/08/2021. The 6-day program promises an exploration

Blockchain Technology

August 23, 2021 to August 27, 2021



Mr. Gobinath S - Blockchain Technology

Mr. Gobinath S leads an insightful workshop on Blockchain Technology from 23/08/2021 to 27/08/2021 at the Government College of Engineering, Dharmapuri. This 5-day program delves into the intricacies of blockchain, offering participants a comprehensive understanding of its principles and applications.

Emerging Research Trends in Computer Science and Technology

August 23, 2021 to August 29, 2021



Ms. Padma Priya D - Emerging Research Trends in Computer Science and Technology

Ms. Padma Priya D hosts a workshop on Emerging Research Trends in Computer Science and Technology, scheduled from 23/08/2021 to 29/08/2021 at SRM Institute of Science and Technology, Ramapuram Campus, Chennai. Over 6 days, participants will engage with the forefront of research and technological

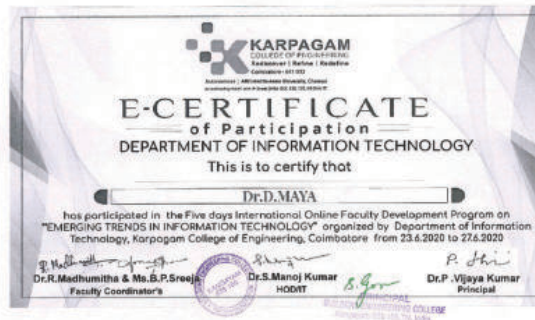
Faculty Participation



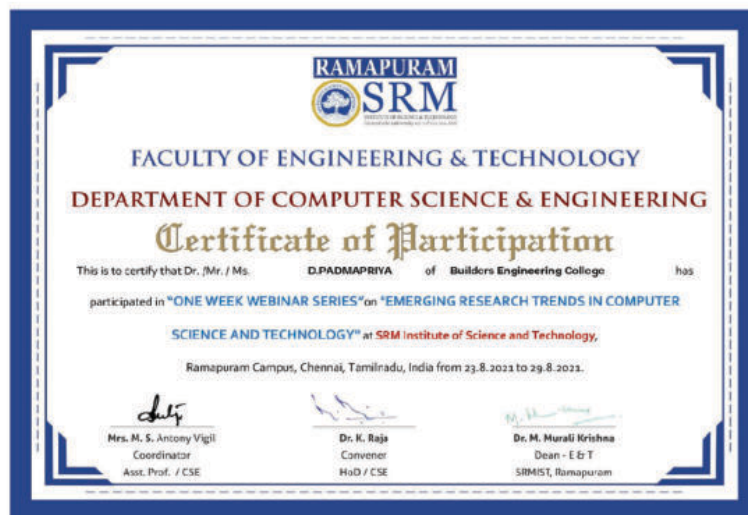
Mr. V. Manoj Praveen, Assistant Professor (Senior Grade) in the Computer Science and Engineering department at Builders Engineering College, actively engaged in a 10-day Faculty Development Programme on 'Meeting the Challenges of Global Economy in the 21st Century' from June to July 2021. His participation reflects a commitment to staying abreast of evolving educational paradigms.



Arun R, Builders Engineering College enthusiastically joined a six-day online Short Term Training Program (STTP) on "AI in Healthcare" held from December 14 to 20, 2020. The active participation of the college underscores its dedication to fostering knowledge and expertise in the intersection of artificial intelligence and healthcare. This initiative reflects the institution's commitment to staying at the forefront of emerging technologies in the field.



The 5-day Faculty Development Program at Karpagam College of Engineering will delve into the dynamic landscape of computer science, focusing on key trends from 2020. Faculty members will gain insights into artificial intelligence, data science, cybersecurity, cloud computing, IoT, and emerging technologies, fostering a comprehensive understanding of the field.



This certificate proudly acknowledges Ms. D. PADMAPRIYA from Builders Engineering College for her active participation in the "ONE WEEK WEBINAR SERIES" on "EMERGING RESEARCH TRENDS IN COMPUTER SCIENCE AND TECHNOLOGY" at SRM Institute of Science and Technology, Ramapuram Campus, Chennai, Tamil Nadu, India. The informative series, conducted from August 23 to August 29, 2021, provided valuable insights into the ever-evolving research landscape within the field of Computer Science and Technology.