

CIVIL DEPARTMENT

NEWSLETTER

The best creator next to god are

.....Civil Engineers!

VISION

To be a human and technical resource centre to meet the needs of the construction industry.

MISSION

- ❖ Impart students the knowledge of principles and practices of civil engineering and shape them to meet the expectations of the industry.
- ❖ Encourage practical learning through collaboration with industry.
- ❖ Nurture social responsibility and leadership skills by inculcating ethical and moral values.



EVENTS

Inaugural of Civil Engineering Associations

Guest Lectures

Value Added Courses

FDP

Workshops

DEPARTMENT PROFILE

The Department of Civil Engineering, started in the year 2009, offers BE (Civil Engineering), ME (Construction Engineering & Management) & ME (Structural Engineering). The department activities are planned with dual inputs from Industry and reputed academic bodies in the state. Also, the department strengthens its core activities periodically with inputs from industry, civil engineers and contractors, some of whom are trustees of the Institution. In addition to regular academic activities, the department strives to transform students into a pragmatic Civil Engineer by involving them in solving field problems with needed guidance from faculty members.



Dr. K. E. VISWANATHAN M.Tech., Ph.D.

Head & Associate professor

Dr. G. RAMASAMY M.Tech., Ph.D.

(Professor, IIT-Roorkee, Retd.)

Prof. G. SRINIVASAN M.E.

(IISC ~ Structural Engineering)

Dr. G. S. THIRUGNANAM M.E.

(Structural Engineering), Ph.D.

EDITORS IN CHIEF
Dr. K.E. Viswanathan

Head of the Department

Mr. P. Nallasamy

Assistant professor

STUDENT EDITORS
Ms. R. Kaviyaa

IV Year

Mr. B. Faizal

IV Year

Mr. S. Vetrivel

III Year

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

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- ÷ **Faculty Publications**
- ÷ **Faculty Achievements**
- ÷ **Student Achievements**
- ÷ **Placement Activities**
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DEPARTMENT PROGRAMME EDUCATIONAL OBJECTIVES

- Graduates will achieve recognition in Civil Engineering profession as practicing Engineers and consultants. Provide technical services to leading organizations in diverse areas promoting professional and moral ethics.
- Graduates recognized for their professional and technical competence to provide sustainable solutions to societal problems.
- Graduates are nurtured to engage in continued learning through professional development and cognizant of emerging issues.

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 and B.Tech - AI&DS) with an intake of 330 students and four PG Programmes (ME - CEM, STR, CSE and MBA) with an intake of 114 students. Stepping into the fourteenth year of service, 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.

FROM HoD DESK

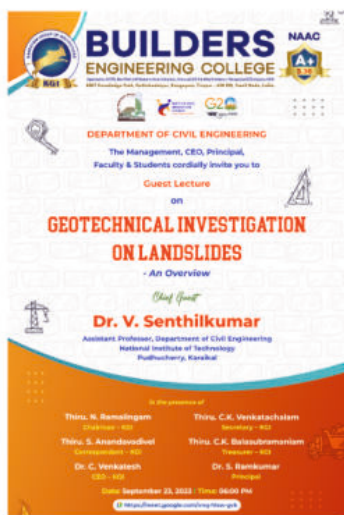


Civil Engineering is a versatile and evergreen branch of engineering. Civil Engineer can work in various fields like construction engineering, quality engineering, design engineering, maintenance engineering, power plant engineering, etc. and most importantly in software field also. Department has well qualified and dedicated faculty with well-developed laboratories. We impart quality engineering education through sound theoretical knowledge, hands on laboratory as well as computational skill and exposure to recent technologies by visiting industries & expert talk. We provide opportunities for students to participate in various technical and sports events and competitions. This newsletter is an attempt to highlight the achievements of the department, in spite of the space constrain we have showcased the best and look forward to have more in the future on a half early editions. I wish good luck to the entire team of editors and look forward for your kind patronage to our newsletter.

Dr. K.E. Viswanathan

Head of the Department

PROGRAMMES ORGANIZED



Guest Lecture on “Geotechnical Investigation on Landslides: An overview” on 23.09.2023.

Resource Person

Dr. V. Senthilkumar

NIT, Pudhucherry

Geotechnical Investigation on Landslides: An Overview seeks to provide a comprehensive understanding of geotechnical approaches to landslide assessment, mitigation, and prevention. This session will bring together experts and practitioners to share insights, methodologies, and real-world applications in the field of geotechnical investigation related to landslides.

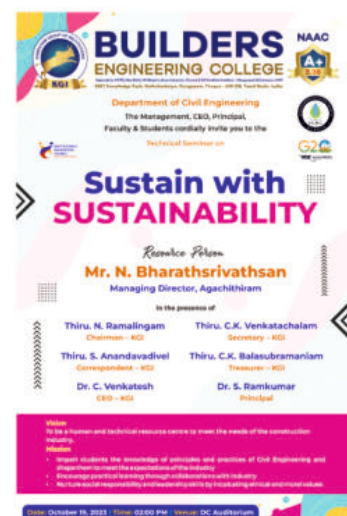
Technical seminar on “Sustain with Sustainability” on 19.10.2023

Resource Person

Mr. N. Bharathsrivathsan

Managing Director, Agachithiram

In the pursuit of a more sustainable future, the seminar "Sustain with Sustainability" aims to bring together thought leaders, professionals, and enthusiasts to explore and deepen our understanding of sustainable practices across various domains. This webinar goes beyond the theoretical framework, focusing on actionable strategies and inspiring narratives to encourage sustainable living and business practices.





Technical webinar on “Strengthen your software skills & Elevate your employability” on 04.11.2023.

Resource person

Mr. J. Vimal Devaprabhu

Manager – CAD Training & Support, Coimbatore

In the ever-evolving landscape of technology, software skills are instrumental in determining one's employability and professional growth. This technical webinar aims to provide participants with valuable insights and strategies to enhance their software skills, making them more competitive in the dynamic job market.

Guest Lecture on “An overview on Waste Water Engineering” on 09.12.2023

Resource Persons

Dr. C. Elangovan

Retired AEE, TWAD Board

Dr. R. Loganathan

Retired EE, TWAD BOARD

In the ever-evolving landscape of technology, software skills are instrumental in determining one's employability and professional growth. This technical webinar aims to provide participants with valuable insights and strategies to enhance their software skills, making them more competitive in the dynamic job market.







PRACTICAL TRAINING



Standard Penetration Test (SPT) on 30.11.2023

The department of Civil Engineering organised practical demonstration of plate load test and standard penetration test for second year students and faculty members. Standard Penetration Test (SPT) served as an immersive and educational experience for participants seeking a comprehensive understanding of this widely used geotechnical testing method. The objective was to equip attendees with the knowledge and skills necessary to conduct, interpret, and analyze SPT results effectively.

FACULTY DEVELOPMENT PROGRAMME

Faculty Name	Date	Details	Certificate
Dr. S. Srividhya AP/Civil	25.11.2023 to 27.11.2023	Participated in 3 days National workshop on “Research writing and publication strategies” organised by Mbiem Analytica and systems in association with Adonic Informatics.	
Mr. V. Gowrishankar AP/Civil	25.11.2023 to 27.11.2023	Participated in 3 days National workshop on “Research writing and publication strategies” organised by Mbiem Analytica and systems in association with Adonic Informatics.	
Mr. A. Madhan AP/Civil	08.07.2023	Attended webinar on “Disaster Risk Reduction: Seismic Retrofitting of Masonry, RC Building” organised by Ultratech cement limited.	
Mr. A. Madhan AP/Civil	05.10.2023	Attended FDP on “Sustainable transportation system” organized by NPTEL-AICTE.	
Mr. P. Nallasamy AP/Civil	28.07.2023	Attended webinar on “Pervious concrete - can it mitigate some effects of climate change?” organised by QCRETE Readymix (INDIA) Pvt limited.	

ASSOCIATION ACTIVITY



BUILD EXPO 2023

The department of Civil Engineering faculties collaboration with KGI'S Quality Testing Lab participated in BUILD EXPO 2023 organised by EDCEA from 22.12.2023 – 25.12.2023. The college received appreciation award from Erode District Civil Engineers Association (EDCEA).

Fully Automated CTM

100 & 200 TON



About us

- KGI's Quality Testing Lab (QTL) was established in the year 2023 by Erode Builder Educational Trust with an area of 6.5k Sq. ft., an initiative by the Department of Civil Engineering, Builders Engineering College, Tirupur, Tamil Nadu, India.
- KGI's QTL is equipped with state-of-the-art technology equipment for testing construction materials to fulfil the industrial requirements as per Indian Standards.

Vision

To continually strive for the highest quality, precision services that successfully meet the demands of our clients.

Mission

To exceed our clients' expectations through long-term collaborations and to provide them with exceptional services by leveraging cutting-edge technology and innovation.

"Let's Build Quality Together"



Testing Divisions







Quality Findings

- Cement
- Fly Ash
- Fine Aggregate
- Coarse Aggregate
- Concrete
- Bricks & Blocks
- Paver Blocks
- Water
- Steel & Wire Rope
- Bitumen
- Soil & Rock
- Post Construction Assessments



STUDENT ACHIEVEMENTS

Name of the Student	Details	Certificate
Mr. J. Dhayalan (IIIrd Year) Mr. M. Gnanasekaran (IIIrd Year)	Won First prize in SKETCH IT 2.0 competition held at KPR Institute of Engineering & Technology on 30.08.2023.	
Mr. J. Dhayalan (IIIrd Year)	Secured the first prize for CAD-A-THON event conducted on 03.10.2023 by VIT, Chennai	
Mr. K. Azhagu Saravanan (IV Year)	Got place as Trainee Detailing Engineer with 2.16 LPA.	
Mr. J. Dhayalan (IIIrd Year)	Participated in the regional meet held on 04.12.2023 at Nehru Institute of technology, Coimbatore.	

STUDENTS PLACEMENT DETAILS



Name of the Student	Organization	Salary
Mr. K. Azhagu Saravanan	Pronoia Insurance Marketing Pvt. Ltd., Sathy	4.5 LPA
Mr. S. Suresh Kumar		
Mr. S. Vasudevan		
Ms. A. Vigneshwari		
Mr. R. Aanandh Prakash	Digital EPCS Pvt. Ltd., Chennai	4 LPA
Mr. B. Gokulakrishnan		

Name of the Student	Organization	Salary
Ms. R. Kaviyaa	Digital EPCS Pvt. Ltd., Chennai	4 LPA
Mr. S. Suresh Kumar	IndusInd Bank, Chennai	3.5 LPA
Mr. S. Nishanth		
Mr. K. Azhagu Saravanan	Aarbee Structures Pvt. Ltd.	2.16 LPA
Mr. R. Aanandh Prakash	Team Detailing Solutions Pvt. Ltd., Chennai	1.8 LPA
Mr. B. Faizal		

FACULTY ACHIEVEMENTS

NPTEL COURSE CERTIFICATIONS



Name of the Faculty	Title of the Paper	Certificate
Mr. V. Sasikumar	Fluid Mechanics	
Dr. S. Srividhya	Structural Analysis - 1	
Ms. D. Nithya	Foundation Engineering/Elite	
Mr. V. Gowri Shankar	Admixtures and Special Concretes	

Name of the Faculty	Title of the Paper	Certificate
Mr. A. Madhan	Sustainable Transportation System/Elite	
Mr. R. Ashok	Foundation Engineering/Elite	

FACULTY PUBLICATIONS

Name of the Authors	Title of the Article	ISSN No.	Name of the Journal
Mr. S. Satheesh Kumar Mr. V. Sasi Kumar Mr. K.R. Arvind	Lean Construction - A Tool for Improving Workflow in the Construction Projects	978-93-91535-52-0	International conference on Management, Science & Humanities
Dr. P. Eswaramoorthi Mr. V. Sampathkumar Mr. Nabil Al-Zaqri Mr. Ahmed Boshala	Characterization and energy evaluation analysis of agro biomass briquettes produced from Gloriosa superba wastes and turmeric leave wastes using cassava starch as binder	2394-1537	Biomass Conversion and Biorefinery
Mr. D. Senthilkumar Mr. R. Ashok Mr. G. Meyyappan Mr. V.A.K. Nisanth	Experimental study on strength of concrete by using portland slag cement	978-93-91535-52-0	International conference on Management, Science & Humanities
Dr. S. Srividhya Dr. R. Vidjeapriya	Influence of basalt fibres on the flexural performance of hypo sludge reinforced concrete beams with SBR latex	1225-4568	Structural Engineering and Mechanics
Mr. A.Sivakumar Dr. S. Srividhya Mr. R. Prakash Ms. S. Padma	Properties of biocomposites from waste eggshell as fillers	1790-7632	Global nest

FACULTY PATENT PUBLICATION

	<p>Office of the Controller General of Patents, Designs & Trade Marks Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India</p>	
Application Details		
APPLICATION NUMBER	202341080339	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	27/11/2023	
APPLICANT NAME	1 . V GOWRISHANKAR 2 . V.Sasi Kumar 3 . Dr.S.Srividhya 4 . S.Satheesh Kumar 5 . A.Madhan	
TITLE OF INVENTION	SUSTAINABLE PRODUCTION OF BRICKS BY INCORPORATING E-WASTE	
FIELD OF INVENTION	METALLURGY	
E-MAIL (As Per Record)	vgshankar26@gmail.com	
ADDITIONAL-EMAIL (As Per Record)		
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	--	
PUBLICATION DATE (U/S 11A)	22/12/2023	

“Sustainable production of bricks by incorporating E-Waste”

Mr. V.Gowrishankar, Mr. V. Sasikumar, Ms. S. Srividhya, Mr. S. Satheesh Kumar, Mr. A. Madhan, published a Patent entitled of invention on “Sustainable production of bricks by incorporating E-waste” dated 22.12.2023, Ministry of commerce and Industry, Intellectual Property India.

CONSULTANCY ACTIVITIES

S.No.	Laboratory Name	Amount Received (₹)
1	Concrete lab	1,75,150
2	Soil Mechanics Lab	64,400
3	Structural Design	40,000
4	Environmental Engineering lab	10,200
5	Strength of Materials lab	2,400

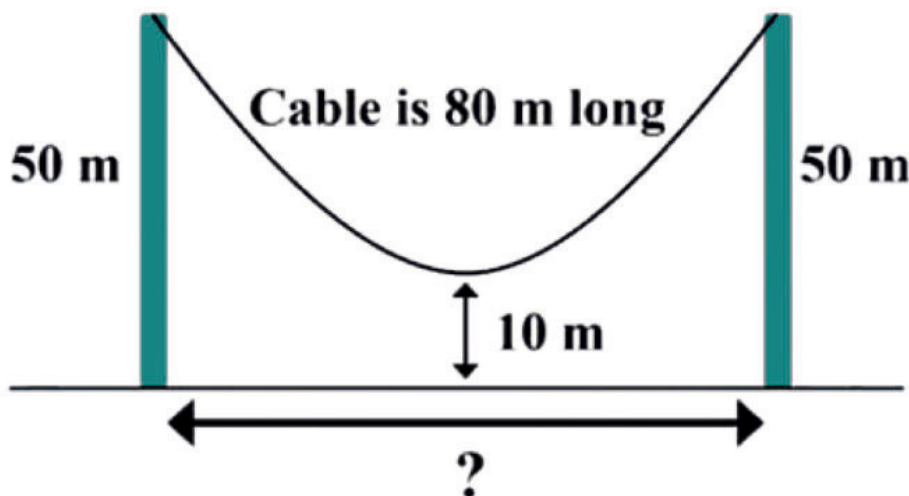
INDUSTRIAL VISIT



“DSB Brick Factory, Dharapuram” on 20.10.2023

Our Second year students had gone Industrial visit to DSB brick factory, Dharapuram on 20.10.2023. The industrial visit to the brick manufacturing unit provided students with a valuable opportunity to witness firsthand the processes involved in the production of bricks. The visit aimed to bridge the gap between theoretical knowledge gained in the classroom and practical applications in the industrial setting.

STUDENT'S CORNER



Clue:

No complicated maths is needed for this question. See what happens when the poles are different distances apart.

Answer: The two poles are 0 metres apart.

When the two poles are 0 metres apart, the 80 metre long cable will go straight down for 40 metres and straight up for 40 metres. As the poles have a height of 50 metres, the lowest point of the cable will be 10 metres above the ground.