

CIVIL CHRONICLE

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ADI SHANKARA INSTITUTE OF ENGINEERING AND TECHNOLOGY, KALADY

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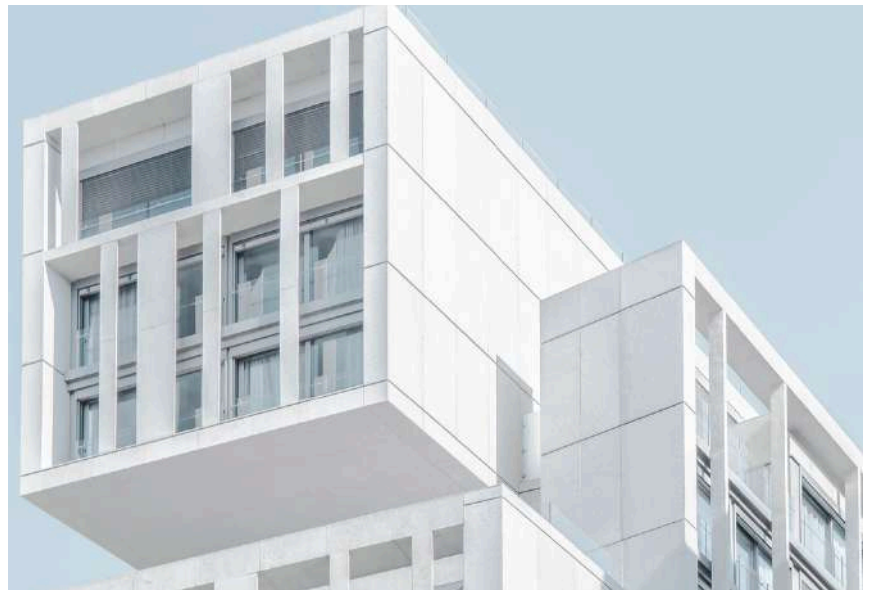
STAFF OUTREACH

FOOD FOR THOUGHT



DEPARTMENT VISION

“TO EMERGE AS A CENTRE OF EXCELLENCE IN CIVIL ENGINEERING WITH GLOBAL PERSPECTIVES.”



DEPARTMENT MISSION

- TO IMPART QUALITY PROFESSIONAL EDUCATION SO THAT THE STUDENTS EMERGE AS A COMPETENT PROFESSIONAL IN THE AREA OF CIVIL ENGINEERING.
- TO PROMOTE INNOVATIVE THINKING AND LIFELONG LEARNING IN BUDDING ENGINEERS.
- TO PRODUCE CIVIL ENGINEERS WHO HAVE IMBIBED ETHICAL VALUES TO SERVE THE SOCIETY AND NATION.



PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

- GRADUATES WILL HAVE A POTENTIAL TO PURSUE HIGHER STUDIES AND RESEARCH IN THE FIELD OF CIVIL ENGINEERING.
- GRADUATES WILL BE ABLE TO PRODUCE SUSTAINABLE SOLUTIONS WITH PROFESSIONAL ETHICS FOR REAL TIME CIVIL ENGINEERING PROBLEMS.
- GRADUATES WILL HAVE MANAGERIAL SKILLS AND LEADERSHIP QUALITIES IN EXECUTION OF CIVIL ENGINEERING PROJECTS.
- GRADUATES WILL BE ABLE TO WORK WITH INTEGRITY AND ETHICAL VALUES.

PROGRAM SPECIFIC OUTCOMES (PSOS)

AFTER SUCCESSFUL COMPLETION OF B.TECH IN CIVIL ENGINEERING, THE STUDENTS WILL BE ABLE TO:

- CHECK THE FEASIBILITY AND SUSTAINABILITY OF CIVIL ENGINEERING PROJECTS BY CONDUCTING GEOTECHNICAL INVESTIGATION, CIVIL ENGINEERING SURVEY AND ENVIRONMENTAL IMPACT ASSESSMENT.
- ANALYSE AND DESIGN BUILDINGS, HYDRAULIC STRUCTURES AND WATER DISTRIBUTION, WASTE MANAGEMENT AND TRANSPORTATION SYSTEMS.
- EXECUTE CIVIL ENGINEERING PROJECTS WITH THEIR KNOWLEDGE IN ESTIMATION, PROJECT MANAGEMENT, CONSTRUCTION MATERIALS AND TECHNOLOGIES.



**DEPARTMENT OF
CIVIL ENGINEERING**

SAMAVARTHANA 2024



SAMAVARTHANA 2024 - The graduation ceremony of 2020-2024 batch was conducted on 18th June 2024 in the college central courtyard. The chief guest for the event was Sri. S. Harikishore, Senior IAS, Managing Director, KSIDC.

INSTITUTE EVENTS

INTERNATIONAL YOGA DAY



On June 21st 2024, Adi Shankara Institute of Engineering and Technology, celebrated the 10th International Yoga Day in collaboration with NSS unit no: 228 and 303 with great enthusiasm. The objective of this year's celebration, themed "Yoga for women empowerment", was to enhance the physical and mental well-being of women.

Keeping up with the spirits of the nation in celebrating the yoga day, a seminar on the topic "Yoga for self and society" was organised. Resource person, Mr. Harikrishnan M, certified yoga trainer, emphasized the importance of incorporating yoga into daily life and maintaining harmony between body and mind.

INTERNATIONAL YOGA DAY

The yoga expert taught important physical, mental and spiritual practices to the participants which would help them to boost their immunity. The session lasted for over an hour, witnessing active participation of students and faculty members.



INSTITUTE EVENTS

ASPREN'24



The project titled "Restoration and Training of Edappally Canal for Sustainable Water Management" guided by Dr. Aneesh P C with team members Raof Backer U A, P A Thariq Ahammed, Rumaisa Sidhik, Anakha Sivankutty has been selected as the second best project in the project competition ASPREN'24, organised by ASIET.

DEPARTMENT ACHIEVEMENTS

ASPREN'24



The project titled "Performance Analysis of Constructed Wetland Configurations for Greywater Treatment" guided by Ms. Harshananda T N with team members Adithya Udayan, Aadil Nazeer, Vijay Krishnan S has been selected for the department level prize in ASPREN'24, project competition, organised by ASIET.

DEPARTMENT ACHIEVEMENTS

KTU S8 RESULTS



CONGRATULATIONS

KTU S8 RESULTS
2020-2024 BATCH



DEPT OF CIVIL ENGINEERING

91.83%

Vidya Bharathi Nagar , Mattoor road, Kalady, Ernakulam (Dist), Kerala 683574
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www.adishankara.ac.in

The 2020 - 2024 Batch students of the department excelled in the KTU Eighth Semester University Examinations with an overall pass percentage of 91.83%.



STUDENT ACHIEVEMENTS

KTU S8 RESULTS



DEPARTMENT OF CIVIL ENGINEERING KTU S8 RESULTS 2020 - 2024 BATCH - TOPPERS

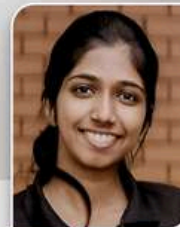
Congratulations



Anakha Sivankutty
SGPA - 9.56



Rumaisa Sidhik
SGPA - 9.47



Neha Ajayakumar
SGPA - 9.41



Annmole P Averachan
SGPA - 9.21



Athulya V P
SGPA - 8.8



Denna Babu
SGPA - 8.79



Chaithanya C R
SGPA - 8.76



Ashitha A S
SGPA - 8.59



Raroof Backer
SGPA - 8.59

Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY
Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University
Vidya Bharathi Nagar , Mattoor, Kalady, Ernakulam District, Kerala State Pin: 683574

FAREWELL 2024



The farewell for 2020 - 2024 batch was held on 12th June 2024 at the Department of Civil Engineering. It was a day filled with fun for the students as they recollected memories of their time at the college.

STUDENT ACHIEVEMENTS

PLACEMENT



Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY
Vidya bharathi Nagar, Mattoor road, Kallady, Ernakulam(Dist) Kerala

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INTEGRATED
TECHNICAL
EDUCATION

UGC
UNIVERSITY
GRANTED
COUNCIL

SARATH M P

Congratulations

ON GETTING PLACED @ MANE KANCOR
2020-2024 BATCH
DEPARTMENT OF CIVIL ENGINEERING

Sarath M P of S8 CE was placed at Mane Kancore,
a natural ingredients manufacturers.

STUDENT ACHIEVEMENTS

PLACEMENT



Raof Backer of S8 CE was placed at Zydex industries. Zydex is a specialty chemicals company with the purpose of innovating to create a sustainable world through conservation of resources.

STUDENT ACHIEVEMENTS

PLACEMENTS

NBA
NATIONAL BOARD
OF ACCREDITATION

AICTE
All India Council of Technical Education

Congratulations

2024 graduating students have been placed in core companies.

 Nandakishore Namboodiri Unisis Engineering	 Chaithanya C R AARBEE STRUCTURES PVT. LTD.	 Neha Ajaykumar AARBEE STRUCTURES PVT. LTD.	 Leo Benny CK CONSTRUCTIONS
 Annmole P Avarachan AARBEE STRUCTURES PVT. LTD.	 Anagha Sivankutty AARBEE STRUCTURES PVT. LTD.	 Annmariya Correya OLIVIYA DEVELOPERS	 Athul Krishnan VIYA BUILDERS

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The 2024 graduating students from the Department of Civil Engineering have been placed in core companies.

STUDENT ACHIEVEMENTS

FACULTY DEVELOPMENT PROGRAMME

Ms.Akhila Vijayan, Ms. Reema Pius and Ms. Clydin P A, Assistant Professors, Department of Civil Engineering attended the two day faculty training program on Autodesk Fusion 360 on 28th June and 1st July 2024. Session focussed on CAD fundamentals delivered by BIMiT's Autodesk certified instructors.



Ms.AKHILA VIJAYAN



Ms. REEMA PIUS



Ms. CLYDIN P A

Ms. Jyothi Lekshmi R, Assistant Professor, Department of Civil Engineering attended one day online FDP on “Enhancing Education: Leveraging Artificial Intelligence Tools for Teaching” conducted by Star International - Foundation for Research and Education on 22nd June 2024.



Ms. JYOTHI LEKSHMI R

FACULTY DEVELOPMENT PROGRAMME

Ms. Reema Pius, Ms. Harshananda T N, Ms. Chitralekha V Dev, Assistant Professors, Department of Civil Engineering attended a faculty training programme on "Virtual Lab" on 21st June 2024 organised by ASIET in association with Virtual Labs introduced by MoE, Government of India Initiative.



Ms. REEMA PIUS



Ms. HARSHANANDA T N



Ms. CHITRALEKHA V DEV

MSIGMA-IEEE TECHBURST 2K24 PROJECT PRESENTATION

Dr. Aneesh P C, Assistant Professor, Department of Civil Engineering served as a judge during MSIGMA-IEEE TechBurst 2K24 Project Presentation held on 9th June 2024 at Gokulam Park, Kochi.



Dr. ANEESH P C

STAFF OUTREACH

STAFF DEVELOPMENT PROGRAMME

Ms. Rejini T V, Ms. Sathi M K, Ms. Sreeja T S, Ms. Sunitha V R, Lab Instructors, Department of Civil Engineering attended “Skill Enhancement Workshop for Technical Staff” organised by Department of Electrical & Electronics Engineering, ASIET from 20th to 21st June 2024.



Ms. Rejini T V



Ms. Sathi M K



Ms. Sunitha V R



Ms. Sreeja T S

Ms. Rejini T V, Mr. Mony P N, Ms. Sathi M K, Ms. Sreeja T S, Ms. Sunitha V R, Mr. Parthasarathy P N, Lab Instructors of the department attended a “Fire Prevention Awareness and Training” on 21st June, 2024, organised by Department of Mechanical Engineering, ASIET. The station officer, Dibin K S, Fire and Rescue Station, Angamaly, spoke about the different kinds of fire accidents and causes of their occurrences. He shared simple measures to be taken in case of fire emergency.



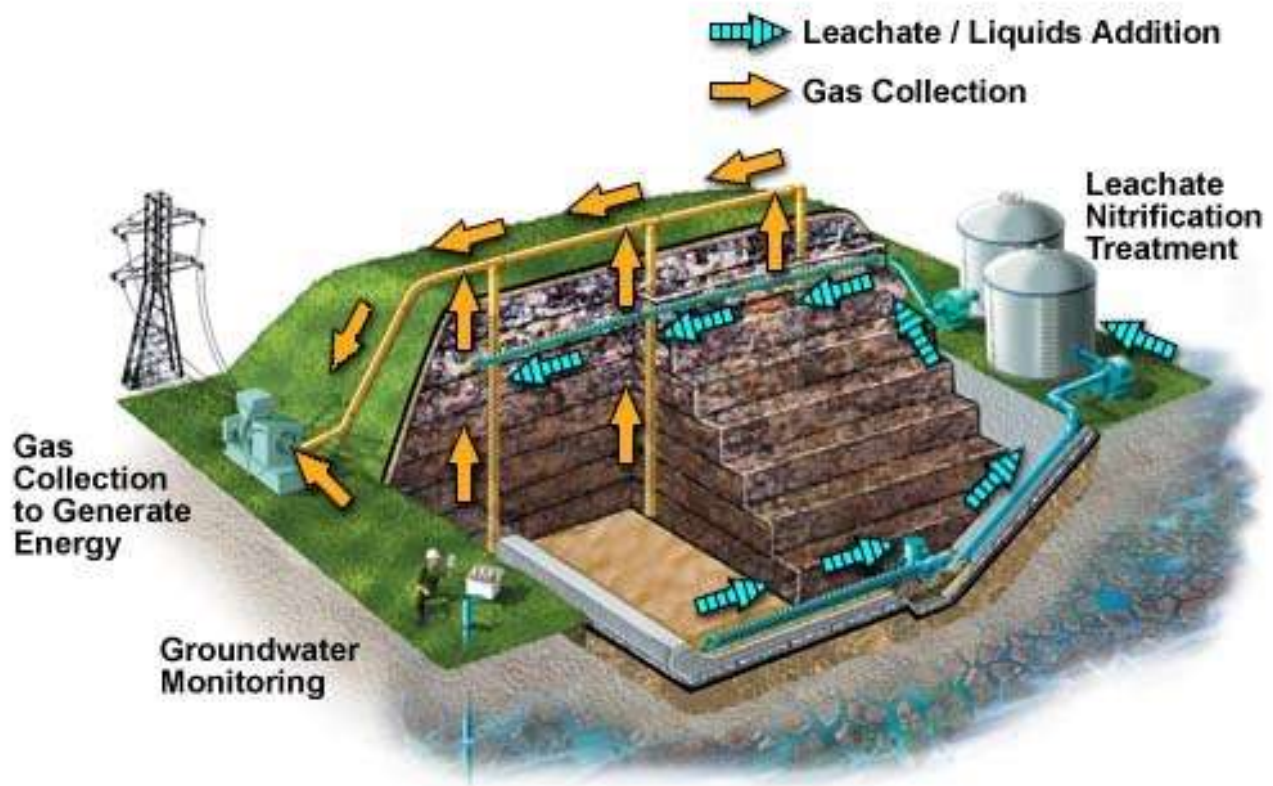
Mr. Mony P N



Mr. Parthasarathy P N

STAFF OUTREACH

TURNING TRASH INTO TREASURE: THE BRAHMAPURAM BIOREACTOR PROJECT



The Brahmapuram waste dump, located on the outskirts of Kochi, Kerala, has been a subject of environmental concern for years. Originally intended as a waste treatment facility, it has unfortunately turned into an overfilled dumping site, causing significant pollution and health hazards. The fires at Brahmapuram, which led to a toxic haze over Kochi, underscore the urgent need for sustainable waste management solutions.

FOOD FOR THOUGHT

In this context, the concept of bioreactor landfills offers a beacon of hope. Bioreactor landfills are designed to actively manage waste decomposition, thereby reducing the overall environmental impact. By enhancing microbial processes through the controlled addition of moisture and air, these landfills accelerate the breakdown of organic matter. This not only hastens the stabilization of waste but also facilitates the capture and conversion of methane into energy—a valuable resource that the Brahmapuram site, in its current state, fails to utilize effectively.

The transformation of Brahmapuram into a bioreactor landfill could address multiple issues. It would significantly cut down the emission of greenhouse gases, a pressing concern given the frequent fires at the site. Moreover, it would prevent leachate percolation, which threatens to contaminate local water bodies. The space-saving design of bioreactor landfills is another advantage, particularly relevant for Brahmapuram, where space constraints are evident from the towering mounds of waste.

The economic benefits of bioreactor landfills are equally compelling. The energy recovery from landfill gas is far superior in bioreactor landfills compared to traditional ones. This not only provides a renewable energy source but also offers a potential revenue stream, which could be particularly beneficial for the Kochi municipal authorities. Furthermore, the reduced need for

long term monitoring and maintenance translates into cost savings and a lower environmental footprint. Adopting bioreactor technology at Brahmapuram could revolutionize waste management in the region. It promises a sustainable, economically viable, and environmentally friendly alternative to the current practices. With proper implementation, Brahmapuram could serve as a model for other cities facing similar challenges, demonstrating that sustainable waste management is not only necessary but achievable.



Dr. Parameswaran T G
Associate Professor

AQUATIC URBANISM: A VISIONARY APPROACH TO URBAN PLANNING IN THE 21ST CENTURY



Aquatic urbanism is a sustainability concept that links water with urban design and offers answers to approaching climate problems. Urban planning, which, in the past, has simply ignored, cluttered, and severed our cities from the water, is in practice and imbalance until recognition has been given to the leaky and impermeable surfaces of everything but the water. With water levels getting higher and more frequent floods, the approach of the city in human life will even be related and the city will be more liveable.

Floating farms in Singapore exemplify aquatic urbanism by integrating agriculture with urban waterways, addressing land scarcity and promoting sustainable food production.

These farms typically consist of floating platforms or structures where crops are cultivated hydroponically or aquaponically, utilizing water resources efficiently. They contribute to food security in densely populated urban areas while minimizing land use and reducing transportation costs. It is a fast-evolving aspect and research interest, because it makes the construction of new buildings that can adjust to water rise underwater.

Architectural designs such as waterborne transportation, which enable waterway networks to be integrated into commuter paths, reduce users dependency on roads, lower congestion and improve sustainability. Floodproof infrastructure, for instance, rainwater management facilities and elevated walks, act as a refuge for people facing an increase in precipitation, which not only safeguards the environment but also city dwellers from the terrific conditions.

Through the co-existence of natural water bodies and the urban setting, it actually helps to increase the number of different species. It enables the creation of biotopes for aquatic life, cleaning the water, etc. By the way, the aqua life no longer swarms to the city centers. It is not commonly known, however, that the water may also be used as an additional surface for new housing development areas.

To provide efficient housing, retail, entertainment, and social uses, an alternative method of densification through the extension of water surfaces into the urban space must be justified to avoid the depletion of local resources. As an economic standpoint, aquatic urbanism is key in the development of waterfront and floating market sites. These features encourage tourism and investment, which lead to the creation of new jobs and bring wealth to the region. In turn, the tourism development is the greatest driver of economic development while the aesthetic water treatment plants are a big advantage from the comfort and luxury point of view, as there are so many activities unattainable elsewhere.



GOPIKA SHANAVAS
S4 CE

CHIEF EDITOR



Dr. K DHANASEKAR

STAFF EDITORS



Ms. REEMA PIUS



Ms. CLYDIN P A

STUDENT EDITORS



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S6 CE



Swathylakshmi Lal
S6 CE



Abhishek Anilkumar
S4 CE



Gopika Shanavas
S4 CE



Merinda Rose Shijan
S2 CE

HOD'S MESSAGE



Dr. K DHANASEKAR

AS THE DEPARTMENT HEAD, I ENVISION OUR COLLEAGUES AND STUDENTS WALKING HAND IN HAND, COLLECTIVELY CONSTRUCTING INNOVATIVE IDEAS FOR A MORE DEVELOPED NATION. LET'S CONTINUE THIS MOMENTUM AND STRIVE FOR EXCELLENCE IN ALL OUR ENDEAVOURS.