



ANNAMALAI UNIVERSITY
Faculty of Engineering and Technology
Department of Civil Engineering

CITIZEN-22

(Civil Engineering Technical Innovative Magazine
Civil Engineers are proud to be a responsible Socio-techno Citizen)

VISION

To become School of Excellence in Civil Engineering With Conformity, Quality and Standard in teaching, research, training and consultancy towards producing globally competent Civil Engineers.

MISSION

- M1: To Promote quality in education, research and professional training for satisfying the needs of industry and society.
- M2: To provide state-of-the-art facilities and resources that contributes to a congenial learning environment.
- M3: To establish Centers of Excellence in emerging areas of Civil Engineering for the students to acquire domain specific expertise and also facilitate Industry- Institution interaction.
- M4: To inspire the students to pursue higher education and take competitive examinations and various career enhancing programs.
- M5: To instill the professional ethics and their role for sustainable development and corruption-free country.

Hod's Desk



It is indeed very happy to bring out the Technical cum Innovative Magazine "CITIZEN" by the Department of Civil Engineering, Faculty of Engg. and Tech., Annamalai University. It is a platform provided by the Civil Engineering department to their students and faculty members where they can share the knowledge, experience and talents in terms of written articles and I would like to congratulate the members of the Editorial Board for publishing this magazine.

Editor's Desk



It gives me immense pleasure to note that the Department of Civil Engineering, Faculty of Engg. and Tech., Annamalai University bringing out the Technical Magazine "CITIZEN" for the academic year 2021-22 (Odd semester). I am sure this magazine provides an opportunity to the student's and the Faculty of the Civil Engineering Department to project their talents through articles, reports of the various academic and extra curricular programmes.



About the Institution

The Faculty of Engineering and Technology (FEAT) was established in the year 1945, as the Second Engineering College of the composite Madras State. The FEAT proudly celebrated its Golden Jubilee in the year 1996 and Diamond Jubilee in the year 2005. The FEAT has eleven departments of study namely Chemical Engineering, Civil Engineering, Civil & Structural Engineering, Computer Science & Engineering, Electrical Engineering, Electronics and Communication Engineering, Electronics & Instrumentation Engineering, Information Technology, Mechanical Engineering, Manufacturing Engineering and Pharmacy.

About The Department

The Department of Civil Engineering presently offers undergraduate programme in B.E. Civil Engineering, Postgraduate programmes in Environmental Engineering, Water Resources Engineering & Management, Environmental Engineering & Management and Ph.D. in Civil Engineering. The Department has received financial assistance of Rs. 100 lakhs through UGC-SAP DRS Phase II. The Department has strong infrastructure with well-equipped laboratories under UGC -SAP, AICTE and other funding agencies. The Department has received grants through major and minor research projects for a tune of Rs.225 lakhs and till date produced 67 Ph.Ds in the last 15 years. The Department had MOU/Collaboration for student exchange programme with Fukii University, Japan. The centre for Environment, Health and Safety (CEHS) an integral part of the Department, is accredited as EIA consultant by QCI under NABET scheme for MoEF & CC for several industrial sectors. The centre has completed industrial consultancy projects for a tune of Rs.100 lakhs and also pursuing work for about Rs.300 lakhs.

Programme Educational Objectives (PEO'S)

PEO 1: Strongly consistent with M₁, M₂ and M₅ and moderately consistent with M₃ & M₄. Curriculum of program consists of sufficient number of core courses in theory related to Civil Engineering and Professional Elective Courses.

PEO 2: Strongly consistent with M₁, M₂, M₅ and moderately consistent with M₃ and M₄. Adjunct faculty, expert lectures, laboratories equipped with state of art equipment, provide professional skills and knowledge. Civil Engineering extension learning programmes such as Survey camp, Professional Practices and Training, Field visit and Project improve the quality of learning

PEO 3: Strongly consistent with M₁ Moderately consistent with M₂, M₃, M₄ and M₅. An exclusive soft computing laboratory with soft trainers in the background of Surveying, Planning, Design of Structural Engineering which support the students to enhance their soft skill

PEO 4: Strongly consistent with M₃ and M₅ Full-fledged house library with Civil Engineering texts and Competitive examinations books help the students for their self-development.

PEO 5: Strongly consistent with M₁, M₂ and M₅. Also, In the Extension Learning Laboratory, motivation classes are conducted periodically. Everyone is grown by the vision.



In-house Events Organized

SOFTWARE TRAINING PROGRAMME

The Department of Civil Engineering with CADD Centre organized one day webinar on BIM for Civil Engineers on 16th July, 2021.

Speakers and Topic:

Mr. K. A. Prabhakar (Vics President CADD Centre) – Introduction to BIM

Mr. Sakthivelan (Engineer – Business Support, CADD Center) – Live Demo

WEBINAR FOR ADVANCED LEARNERS

The Department of Civil Engineering arranged Webinar for Advanced Learners to gain information on

SWAYAM and other online courses on August 24th, 2021

Speaker: Dr. N. Ashokkumar, Associate Professor,

Department of Civil Engineering, Annamalai University

ENHANCE FIELD KNOWLEDGE

The Civil Engineering Department has conducted one day webinar on “Quality and Safety in Construction Industry on 17th August, 2021 to develop the Field knowledge of the young engineers.

Speaker: Er. K. K. Kamalakkannan

Managing Director, UTRACON Structural Systems Pvt. Ltd

HANDS-ON-TRAINING

The Department of Civil Engineering has organized the Hands-on- training programme in Remote Sensing and GIS for Final year students on 5th September, 2021.

Speaker: Dr. A. Gandhimathi, Associate Professor, Department of Civil Engg, Kumaraguru College of Technology, Coimbatore.



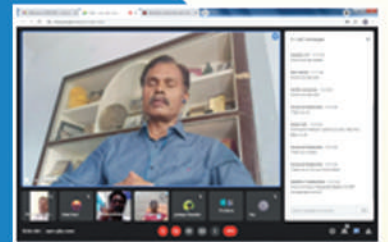
In-house Events Organized

SKILL DEVELOPMENT PROGRAMS

The Department of Civil Engineering has conducted several Skill Development Programs for the students to develop the ability of the youth and extend their support by serving them with the proper guidance, opportunity and encouragement.

Speakers and Topics:

1. Dr. P. Sakthivel, Professor of Political Science, Annamalai University
Interview Skills for Budding Engineers on 28th July, 2021
2. Prof. Dr. N. JawaharNessan, Vice Chancellor, JSS Science and Technology University, Mysooru
My Own Experience in Higher Education in Great Britan on 30th July, 2021.
3. Prof. Dr. S. Kalliappan, Former Vice Chancellor, Anna University, Tirunelveli.
My Own Experience in Higher Education in United States of America on 30th July, 2021.



PREPARATORY CLASS FOR GATE-2022

The Department of Civil Engineering has arranged preparatory class for the GATE aspirants by Ms. A. Priyanka, Research Scholar, Department of Civil Engineering, a GATE-2017 qualifier who was briefly undertaken the orientation to the Final year and Prefinal year B.E., Civil Engg Students

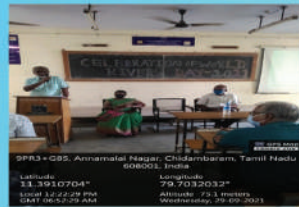


World Rivers Day Address

Er.R.Ramasubbu,
Joint Chief Engineer,
Tamilnadu Pollution Control Board

WORLD RIVERS DAY

Water is the main constituent of earth's oceans, lakes etc., Every year on the fourth Sunday in September highlights the many values of rivers and streams. It's also a day to encourage the improved stewardship of rivers around the world. It's difficult to determine the exact number of rivers in the world. This year, World Rivers day was celebrated on 29th September, 2021 by the Department of Civil Engineering



CivPApp -Mobile Device Software for Civil Engineering Projects Promotion App

Dr.S.Palanivelraja, Professor & Director
Department of Civil Engineering, Annamalai University
Dr.K.Ezhisai Vallabi, Associate Professor,
Department of Civil Engineering, Annamalai University

- Effective promotion of Civil Engineering projects is a real problem for construction projects .
- To improve the efficiency of promoting construction projects and have a speedy delivery of these projects,
- this study presents the development of a mobile application system to promote construction projects among the stakeholders.
- The developed system is designed to enhance communication between home office employees, field office staff, and mobile users.
- It has two components:
a mobile application and a website.



Student Article

Architectural Composition of Administrative Building of Annamalai University

Mr.S.Hariharan and Ms.K.R.Kaviya
B.E ., Civil Engg. Students

Form refers to the shape or configuration of a building. Form and its opposite, space, constitute primary elements of architecture. The reciprocal relationship is essential, given the intention of architecture to provide internal sheltered space for human occupation. Both form and space are given shape and scale in the design process. In addition, the placement of a building form in relation to its immediate site and neighboring buildings is another crucial aspect of this form/space relationship. Just as internal space is created by voids in building form, exterior space can be defined or poorly defined by the building form as well. For instance, consider the difference between an infill building that fits tightly within its' site boundaries (leaving no unoccupied space on the site, except perhaps a defined outdoor courtyard) and a free standing building located within a large expanse of parking. Without the aid of other space-defining forms such as trees, fences, level changes, and so forth, it is very difficult for a large space to be defined or satisfactorily articulated by most singular forms.

A number of aspects must be considered in order to analyze or design an architectural form, including shape, mass / size, scale, proportion, rhythm, articulation, texture, color, and light. The administrative building of Annamalai University consists all the architectural forms.



ANNUAL SURVEYING CAMP – 2021

The annual survey camp is held every year for students in the department to develop self-confidence by solving field problems during survey work. Through this activity based teaching methodology the learners taking interest rationally and physically. The Annual Survey Camp -2022 was conducted at CN Palayam near Kullanjavadi from 18-10-2021 to 22.10.2021. The field exercises such as Hill contour, block contour, LS and CS of an Embankment and Curve settings were carried out. The Determination of Azimuth of a Survey Line was also carried out at Annamalainagar.



இயற்கை இறையாவோம்...

நில நீர் மேகமாகி - பின்
நன்னீராய் விண்ணிருந்து
நிலத்திற்கு திரும்புவதே
நீரியல் சுழற்சி

உயிரொன்று விதைமாகி
உடலாய் உருமாறி இன்னோரு
உயிருக்கு கருவாகிய - பின் உயிர்
உடைந்து போவதே உயிரியல் சுழற்சி

இப்படி இயற்கையின்
இயக்கம் யாவும் சுழற்சி - அச்
சுழற்சியினை செயற்கையாய்
சுழல முனைவதே
மனிதனின் சூழ்ச்சி - விளைவு
மானுடத்தின் இன்றைய வீழ்ச்சி

இயற்கையோடுசைந்து
இயற்கை இறையாவோம் ..

Oh! Our Precious Water!
Oh! Our precious Water,
May you in different forms
That doesn't matter
Falling as a drizzle -but
Our need is puzzle
Frozen as snow
Our usage is low you know
Condensed as dew
But quantity is very few
Suspending as mist-never
Satisfying out thirst
Oh! Our precious Water,
Falling Rainfall as greater
Save even a drop by
Using drop by drop...

- A. PRIYANKA

Ph.D Civil Engineering
Annamalai University



Editorial Board

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Mr. K. Sriganapathi - Final year

Mr. D. Akilan - Prefinal year

Mr. G. Mothilal Kaharain - Prefinal year

Ms. G. Kavitha - Prefinal year

Ms. A. Priyanka - Research Scholar

