

# NIRMAN

NEWS LETTER

VOLUME:13      ISSUE:2    |    SEPTEMBER – NOVEMBER 2023

**DEPARTMENT OF CIVIL ENGINEERING**



## **ADITYA ENGINEERING COLLEGE (A)**

Approved by AICTE, permanently affiliated to JNTUK,  
Accredited by NBA & NAAC with 'A++' Grade and UGC  
recognition under Sections 2(f) and 12(B) of the UGC Act,1956,  
Aditya Nagar, ADB Road, Surampalem 533437, Kakinada District.

## ABOUT CIVIL DEPARTMENT

The department of Civil Engineering at Aditya transfers innovative applications to improve Civil Engineering practices which fulfil the requirements of civil construction industry.

To face the challenges in the field, the department associates itself in different consultancy activities like quality control, design, detailing, soil testing and concrete testing to the construction sites in the close vicinity. To shore up transition of knowledge, eminent personnel from industry and academia are invited to deliver technical talks on emerging areas to keep the students abreast with the latest advancements.

The department has state-of-the-art facilities, latest software like STAAD.Pro, AUTOCAD, Revit Structures, Robot Structure analysis etc. and well-equipped laboratories with costly equipment such as Total Station, Universal Testing Machine, Tri-axle Shear Testing Machine, Kaplan turbine, Francis turbine, Pelton wheel testing rig, Compression testing machine, Ultrasonic pulse velocity equipment etc.

The department offers unique internship opportunities to students in companies like L&T Construction, Reliance Industries Limited, OIL, Irrigation Department, Govt. of A.P., Soma Constructions, APCO Infra tech, Vizag Steel Plant etc.

## VISION OF DEPARTMENT

To be a recognized center in Civil Engineering with values and innovation.

## MISSION OF THE DEPARTMENT

**M1:** Practice learner-centric quality teaching-learning process abreast with changing industry needs and societal challenges.

**M2:** Provide Quality infrastructure towards academics, research and innovation.

**M3:** Establish effective industry and institutional collaboration.

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## Guest lectures/Webinar through ACCE(I) student chapter

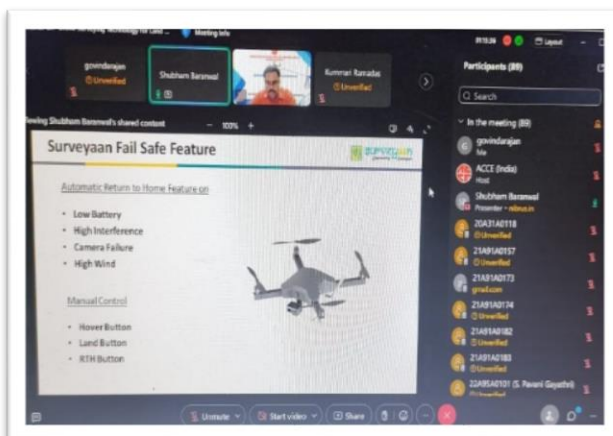
### Webinar on 3D Concrete Printing Challenges & Opportunities

The global 3D printing market value has increased significantly in the last decade. Construction is regarded as the next big area with the potential to be revolutionised by 3D printing. 3D printing of concrete is also known as Cementitious Additive Manufacturing (CAM). CAM is advancing rapidly, with several prototype buildings being constructed by academia and commercial ventures in recent years. A webinar on 3D Concrete Printing Challenges and Opportunities was organised by the Department of Civil Engineering on 19/09/2023, and 47 students actively participated in the webinar.



### Webinar on Drone Surveying Technology in Land Surveying

Drone land surveying uses unmanned aerial vehicles (UAVs) to evaluate large plots of land. A drone can quickly capture images and data on the terrain below it when equipped with high-tech, downward-facing sensors and cameras. Then, advanced mapping software processes the drone data into high-quality 3D maps and models that accurately represent the land's geography and topography. A Webinar on Drone Surveying Technology in Land Surveying was conducted by the Department of Civil Engineering on 24/09/2023, and one hundred students actively participated in the webinar.



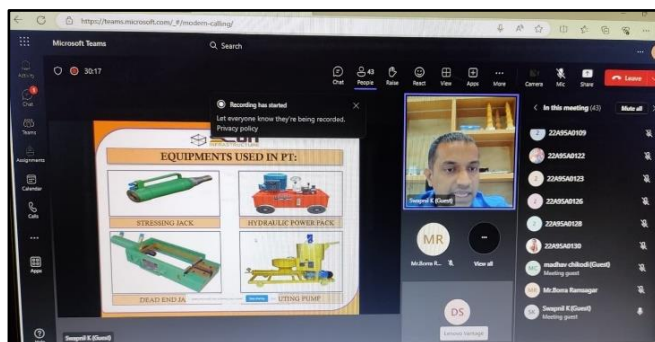
## Webinar on Durability Aspects of Concrete

Durability is one of the important parameters of Concrete. When the cement paste structure is dense and has low permeability Under extreme conditions, it has entrained air to resist the freeze-thaw cycle; it is made with graded aggregate that is strong and inert, and the ingredients in the mix contain minimum impurities such as alkalis, Chlorides, sulphates and silt. A webinar on the Durability Aspects of Concrete was organised by the Department of Civil Engineering on 07/09/23, and one hundred students actively participated in the webinar.



## Webinar on Post-Tensioning Structure

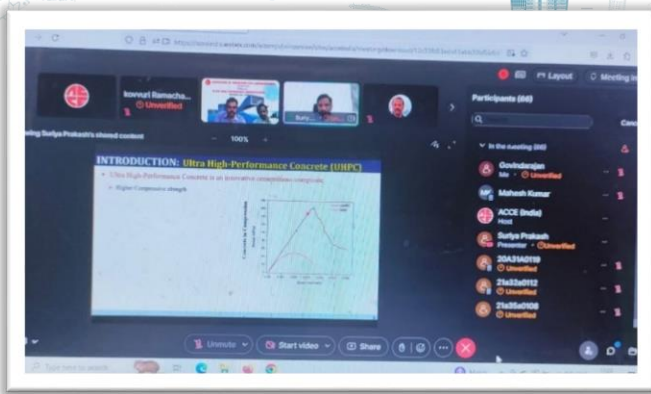
Post-tensioning is a method of prestressing in which the tendons are tensioned after the concrete has hardened, and the prestressing force is primarily transferred to the concrete through the end anchorages. Unlike pre-tensioning, which can only be done at a precast manufacturing facility, post-tensioning is performed on the job site in cast-in-place applications. A webinar on Post-Tensioning Structure was conducted by the Department of Civil Engineering on 04/10/23, and 46 students actively participated in the webinar.



## Webinar on Ultra-High-Performance Concrete for Structural Application

UHPC is a type of concrete material that has become quite popular. UHPC is amazing not just because of its tensile strength or its high stress resistance but also the longevity of that tensile strength. A webinar on Ultra-High-Performance Concrete for Structural Application was conducted by the Department of Civil Engineering on 22/10/23, and 70 students actively participated in the webinar.





## Guest lecture through ISSE student chapter

### Guest Lecture on Green Building

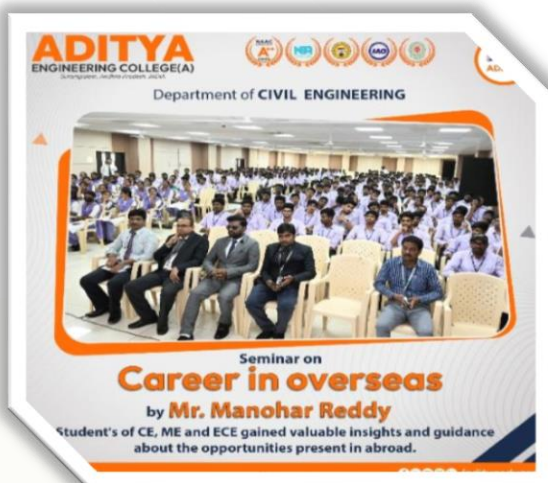
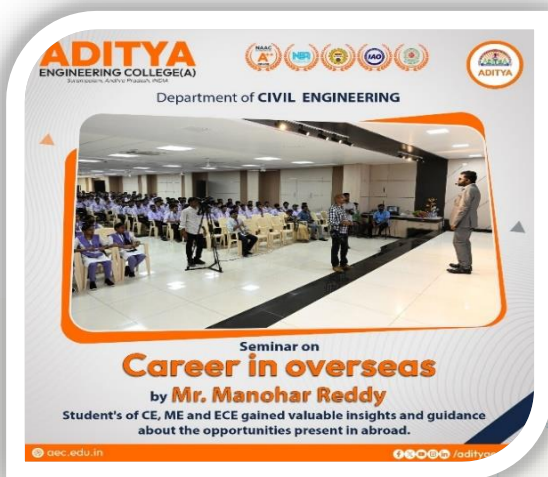
The Green Building practice expands and complements the classical building design concerns of economy, utility, durability, and comfort. Green building also refers to saving resources to the maximum extent, including energy, land, water, material, etc. A guest lecture on Green Buildings was conducted by the Department of Civil Engineering on 18/08/23, and 210 students actively participated in the webinar.





## Seminar on Career in overseas

The institute organised a Seminar on “Careers in overseas” on 16<sup>th</sup> November 2023 for the Civil engineering students. That provided valuable insights and guidance about the opportunities for civil engineering students abroad. The seminar was delivered by Mr. Manohar Reddy, USA.





## Industrial Visits

Empowering Future Engineers: A Transformative Industrial Visit to Kakinada Sea Port for Final Year Civil Engineering Students held on 5th and 6th October 2023, enabling the students to experience practical knowledge beyond the classroom.



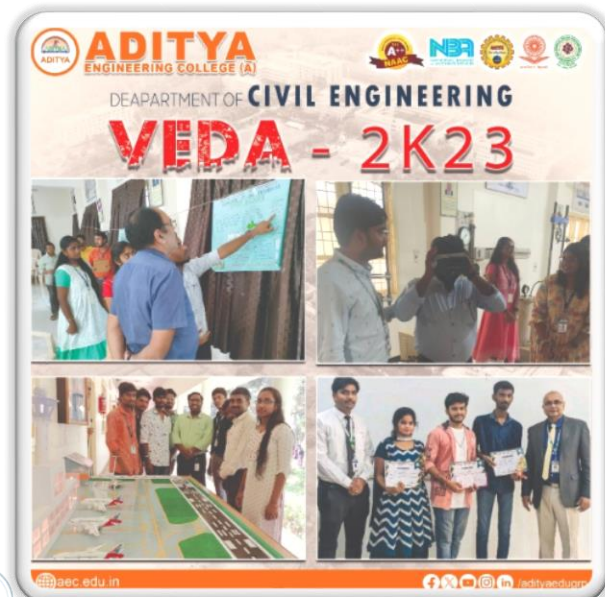
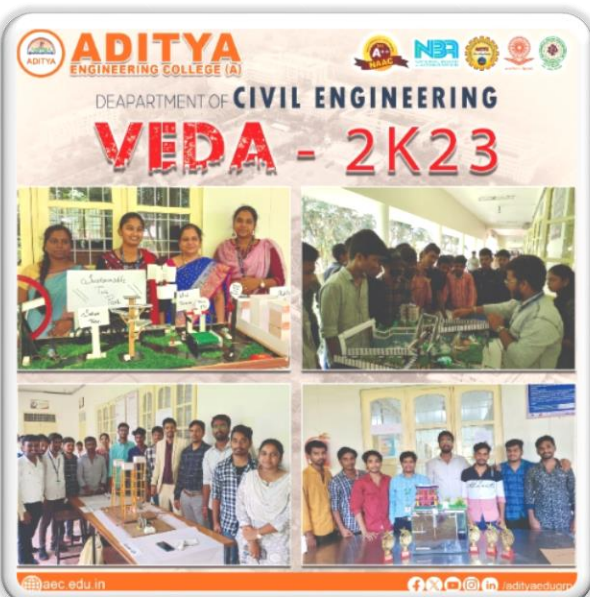


## Industrial Visits

Empowering Future Engineers: A Transformative Industrial Visit to Kakinada Sea Port for Final Year Civil Engineering Students held on 5th and 6th October 2023, enabling the students to experience practical knowledge beyond the classroom.



The Civil engineering department students have actively participated in the international tech fest VEDA and won the first three prizes in model making.





## Students Achievements

*A. Hema Suma Latha*, Department of Civil Engineering won the 1<sup>st</sup> prize (Secured gold medal) in rifle shooting conducted by Nau- Sainik Camp 2023.





**ADITYA** ENGINEERING COLLEGE(A)  
Surampalem, Andhra Pradesh, INDIA

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