

NEWSLETTER

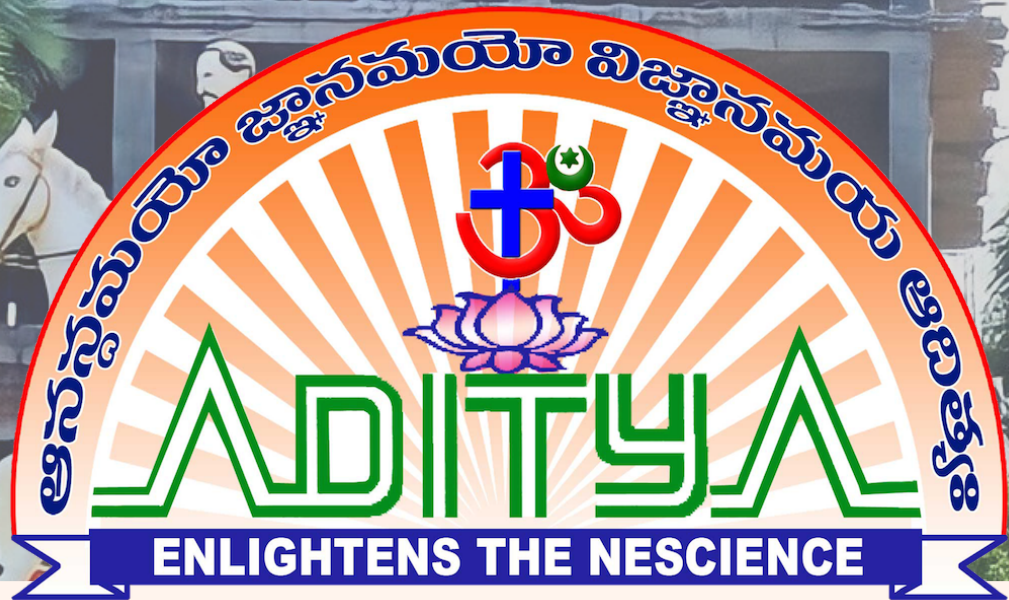
NIRMAN

DEPARTMENT OF CIVIL ENGINEERING

VOLUME-11

ISSUE-4 (MAR-MAY)

2021-2022



ADITYA ENGINEERING COLLEGE (A)

APPROVED BY AICTE, NEW DELHI AND AFFILIATED TO JNTU KAKINADA

ABOUT CIVIL DEPT

The Department of Civil Engineering at Aditya transfers innovative applications to improve Civil Engineering practices which fulfil the requirements of the 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 the 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 the Department

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

Mission of the Department

Mission 1:

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

Mission 2:

Provide quality infrastructure towards academics, research and innovation

Mission 3:

Establish effective industry and institutional collaboration

CIVIL FACULTY



Dr. Bellum Ram Mohan Reddy, Professor, HOD
Dept of Civil Engineering,
AEC

HOD's message: I am pleased to announce the publication of the Department of Civil Engineering's Newsletter for Academic Year 2021-22, which details the numerous activities and accomplishments of our faculty and students. The department aspires to produce self-assured professionals who are well-versed in their respective specialties. The department offers an exceptional academic atmosphere with a team of highly competent staff members to motivate students to enhance their technical expertise and inculcate in them the spirit of teamwork.

Ph.D.Topic: STRENGTH, DURABILITY, DUCTILITY AND MICROSTRUCTURE INVESTIGATION OFFUNCTIONALLY GRADED CONCRETE CONTAINING RUBBER FIBER AS REPLACEMENT OF FINEAGGREGATES.

Overview:

An experimental investigation was performed on the three different types of concrete (conventional concrete (CC), rubber fiber concrete (RFC) and functionally graded rubberized concrete (FGRC)) by performing tests for mechanical, durability, ductility and microstructural properties. The fine aggregate (FA) was replaced by waste type rubber fibers (RF) at varying volumetric proportions of 0%, 5%, 10%, 15%, 20%, 25% and 30% at three different w/c ratios of 0.35, 0.45 and 0.55 to prepare CC, RFC and functionally graded rubberized concrete (FGRC). Awarding: University NIT Jaipur.



Dr. M. Sumit Choudhary,
Assistant Professor and
Quality Manager in NABL,
Civil Engineering
Department,
Aditya Engineering College



Dr. S Govindarajan
Professor, Civil Engineering Dept,
Aditya Engineering College.



Hello my dear faculty members, I am pleased to inform you that, "I am acting as a committee member in MEET 2022, International conference on Management, Education and Emerging Technology, in 18th-19th may 2022 held in Bali, Indonesia".

Hello my dear faculty members, I am pleased to inform you that, I have been accepted for a Ph.D. Program in Environmental Engineering from Sri Venkateshwara University, Tirupati, with a focus on my research in Phytoremediation.

In words, it is about, "The use of plants and associated soil microbes to lower the concentrations or toxic effects of pollutants in the environment is known as phytoremediation. Phytoremediation is often regarded as a low-cost environmental restoration technique".



Mrs. P Lakshmi,
Associate Professor,
Civil Engineering Dept.,
Aditya Engineering College

FACULTY PUBLICATIONS

2022

2022

NAME AND PHOTO OF FACULTY	TITLE	YEAR	SOURCE TITLE
 Dr. Gangolu Jaswant, Assistant Professor, Civil Engineering Department, Aditya Engineering College	Gangolu, J., Kumar, A., Bhuyan, K., & Sharma, H. (2022). Performance-based probabilistic capacity models for reinforced concrete and prestressed concrete protective structures subjected to missile impact. International Journal of Impact Engineering, 164, 104207.	2022	Journal of Impact Engineering
	Gangolu, J., Kumar, A., & Sharma, H. (2022). Performance-Based Code Calibration and Total Probability of Failure of the Nuclear Containment Structure Subjected to Missile Impact. Practice Periodical on Structural Design and Construction, 27(3), 04022027.	2022	Practice Periodical on Structural Design and Construction
	Gangolu, J., Kumar, A., Bhuyan, K., & Sharma, H. (2022). Probabilistic demand models and performance-based fragility estimates for concrete protective structures subjected to missile impact. Reliability Engineering & System Safety, 223, 108497.	2022	Reliability Engineering & System Safety
 Dr. Bellum Ram Mohan Reddy, Assistant Professor, Civil Engineering Department, Aditya Engineering College.	Effect of slag on strength, durability and microstructural characteristics of fly ash based geopolymers	2022	Journal of Building Pathology and Rehabilitation
	Seismic performance of a truss bridge with different substructure configurations	2022	Innovative Infrastructure Solutions
	Design optimization of non overflow section of a concrete gravity dam	2022	Journal of Building Pathology and Rehabilitation
	Investigation on the accelerated pavement test track (APTT) in the development of road network using geopolymers	2022	Cleaner Materials
 Dr. S. Anandha Kumar, Assistant Professor, Civil Engineering Department, Aditya Engineering College.	Kumar, S.A., Kannan, G., Vishweswaran, M., Sujatha, E.R. (2022). Review on Biopolymer Stabilization—A Natural Alternative for Erosion Control. In: Reddy, K.R., Pancharathi, R.K., Reddy, N.G., Arukala, S.R. (eds) Advances in Sustainable Materials and Resilient Infrastructure. Springer Transactions in Civil and Environmental Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-16-9744-9_12	2022	Springer Transactions in Civil and Environmental Engineering. Springer, Singapore.
 Dr. S. Pachaiappan, Assistant Professor, Civil Engineering Department, Aditya Engineering College.	Numerical analysis of offshore topside with FGM under impact loads.	2022	Innovative Infrastructure Solutions, Springer

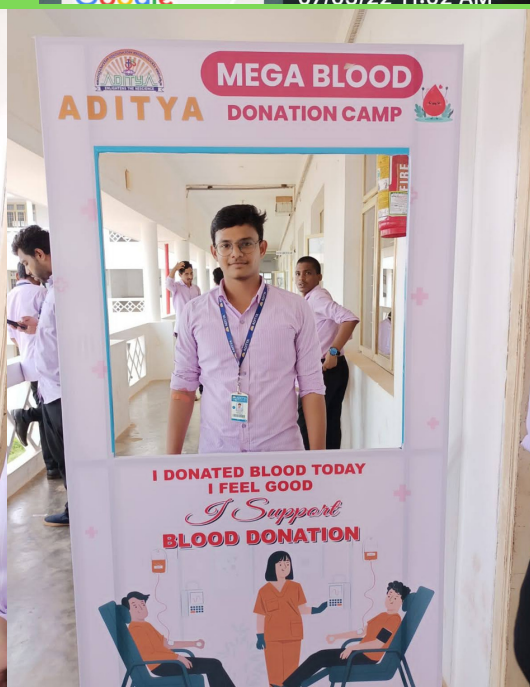
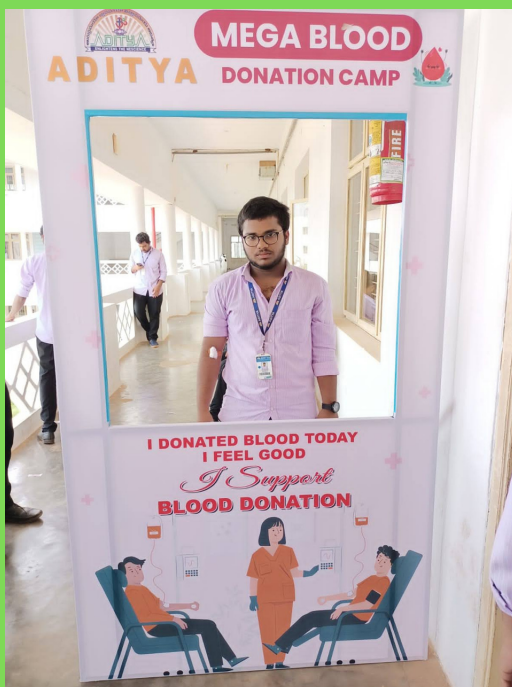
2022

2022

REDCROSS ACTIVITIES



Youth Redcross conducted chess competition on May 7th Regarding World Redcross day



YOUTH REDCROSS
UNIT(AEC)
conducted MEGA
BLOOD DONATION
CAMP on MARCH
28th

INDUSTRIAL VISIT



II B. Tech Civil Engineering A&B section students visited RMC PLANT at Rajamahendravaram

UltraTech cement is the ultimate 360° building materials destination, providing an array of products ranging from grey cement to white cement, from building products to building solutions and an assortment of ready mix concretes catering to the varied needs and applications. With 100+ Ready Mix Concrete (RMC) plants in 35 cities, UltraTech is the largest manufacturer of concrete in India. It also has a slew of speciality concretes that meet specific needs of discerning customers.



III B.Tech Civil Engineering B section students visited Sri K.V.Rama Krishna Surampalem Reservoir Project is a medium irrigation project constructed on BuradaKalva, which is a hill stream near Surampalem (V) in Agency Gangavaram Mandal of East Godavari District. Total water utilization of the project is 730Mc.ft. The revised cost of the project is Rs.69.74 Crores.



II . Tech Civil Engineering A&B section students visited Gouripatnam rock quarry in the part of Geological Fieldtrip to observe the Basaltic inter trappean formations in Rajamahendravaram. The Rajahmundry Trap Basalts (RTB) are erupted through fault-controlled fissures in the Krishna-Godavari Basin (K-G Basin) of Godavari Triple Junction, occurring as a unique outcrop sandwiched between Cretaceous and Tertiary sediments along the east coast of India. Detailed geochemical studies have revealed that RTB are mid-Ti (1.74–1.92) to high-Ti (2.04–2.81) basalts with a distinct quartz tholeiitic parentage. MgO (6.2–13.12 wt.%), Mg# (29–50) and Zr (109–202 ppm) suggest that these basalts evolved by fractional crystallization during the ascent of the parent magma along deep-seated fractures.

WORKSHOPS

AutoCAD, Revit and Sketchup

Revit is a powerful professional BIM (Building Information Management) software. In SketchUp, a 3D shape is just a 3D shape, but in Revit, every form represents a real-world object. AutoCAD is a tool that is primarily used to draft and design 2D designs and print those designs on paper for use in the field, whereas SketchUp is a 3D modeling tool that helps you design models based on how they would look in real life. Revit is a Building Information Modeling (BIM) software for MEP engineers, designers, architects and contractors for 3D drafting and modeling. Autodesk Revit allows users to evaluate and explore a project constructability by identifying clashes in the design.

Short Term Training Program on AutoCAD, Revit and Sketchup
22nd to 26th March 2022 (9.30 AM to 4.00 PM)

Organizing by
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ADITYA ENGINEERING COLLEGE

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Registration Amount- Rs. 500/-

Contact Details
Dr. B. Ram Mahan Reddy, Assistant Professor, Department of Civil Engineering
Aditya Engineering College
Ph: 8500759023, Email: ramamahandreddy@aec.edu.in



KADARI SRI SANDHEEP KUMAR,
21A95A0116, awarded for best
performance in workshop on
Sketchup software

YEEDA JOSHUA STEPHEN,
20A91A0147, awarded for best
performance in workshop on
AutoCAD software

DANGETI HIMA GANGA
KUSUMA19A91A0107, awarded for
best performance in workshop on
Revit software

Research Paper Writing

A research paper is a piece of academic writing that provides analysis, interpretation, and argument based on in-depth independent research.

Research papers are similar to academic essays, but they are usually longer and more detailed assignments, designed to assess not only your writing skills but also your skills in scholarly research. Writing a research paper requires you to demonstrate a strong knowledge of your topic, engage with a variety of sources, and make an original contribution to the debate.

This step-by-step guide takes you through the entire writing process, from understanding your assignment to proofreading your final draft.

ONLINE WORKSHOP ON RESEARCH PAPER WRITING
6th & 7th May 2022
Organized by Dept. of Civil Engineering
ADITYA ENGINEERING COLLEGE (A)
ADB Road, Aditya Nagar, Surampalem - 533437, E.G. Dt, A.P. INDIA.

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Mr. L. Eswar, Assistant Professor (Civil)

Target Audience
This course is ideal for undergraduate and post-graduate students, research scholars and faculties in Science, Engineering, Clinical and Health Research, Under Graduates, Post graduates, Doctoral scholars, Faculties, and those working in their research projects will significantly benefit from this course.

Schedule of the Workshop
Day 1: 6th May 2022
Registration and Welcome Address (Time: 10.00 am to 11.30 am)
Session 1: 10.00 am to 11.30 am
• Literature review
• Identifying the research gap
• Session 2: 1.30 pm to 3.30 pm
• Manuscript Writing
• Abstract
• Introduction
• Methodology
• Results and Discussion
Day 2: 7th May 2022
Session 3: 10.00 am to 11.30 am
• Reference Management
• Plagiarism
• Session 4: 1.30 pm to 3.30 pm
• Selection of suitable journal
• Submission
• Responding to reviewer comments
• Final Presentation and Vote of Thanks and Vote of Appreciation (Time: 3.30 pm to 5.30 pm)
For Registration
For online Payment

Registration Fee: Rs. 100/-

Last Date for Registration
4th May 2022

For any Query Contact:
E-Mail : anandhakumar@aec.edu.in

ACHIEVERS 2K22

COMPANY NAME	ROLL NO	PACKAGE
AVANTIX TECHNOLOGIES	18A91A0193 18A91A0102;18A91A0170 18A91A0110;18A91A0180	4.6 To 7 LA 4.25LA 4LA
CAPGEMINI	18A91A0122;18A91A0124 18A91A0174;19A95A0122	4LA
DXC TECHNOLOGY	18A91A0123;18A91A0150 18A91A0192	4LA
WIPRO	18A91A0138;18A91A0167 19A91A0108;19A95A0118 19A95A0106	3.5LA 3.7LA
MEDIAMINT	18A91A0122;18A91A0121 18A91A0126;18A91A0174 19A95A0110	3.2LA
IFOSYS	18A91A0145;19A95A0128	3.6LA
TATA CONSUTANCY SERVICES	19A95A0106	3.5LA
SDVVL	18A91A0142;18A91A0166 18A91A0150;18A91A0159 18A91A0164	2.5LA 2LA
VISHWANADH AVENUES	18A91A0117;18A91A0139 19A95A0104;19A95A0111 19A95A0109	1.8LA
KIWIO	18A91A0103;18A91A01A3 18A91A0163;19A95A0103 18A91A0118	1.8LA 2LA
TECHNOOK	18A91A0160	4LA
KUMAR & ROY	18A91A01A9	4LA
QSPIDER	19A95A0120	4LA
POWER MECH	18A91A0179	2.1LA
MIRACLE SOFTWARE SOLUTION	19A95A0121	2.8LA
CADSYS	19A95A0114	2.2LA

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