

DECEMBER_2020 TO MAY_2021

VOLUME_16_JUNE_2021



CIVIL ENGINEERS ASSOCIATION NEWS LETTER (CEAN)



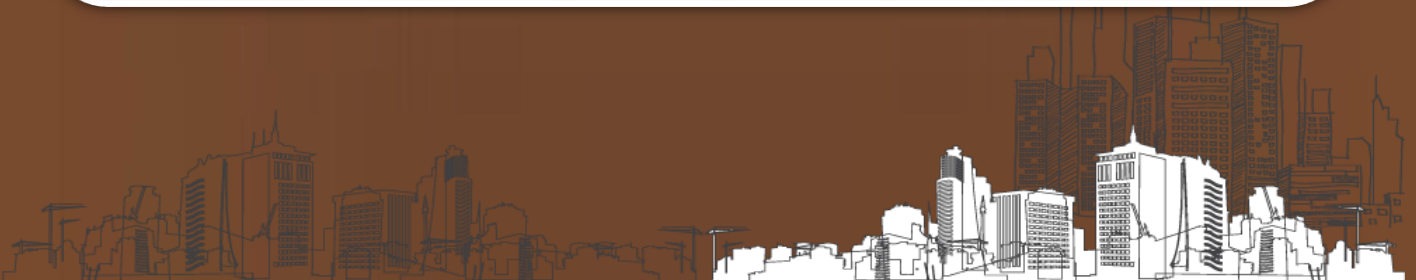
**SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN::BHIMAVARAM
(AUTONOMOUS)**

DEPARTMENT OF CIVIL ENGINEERING

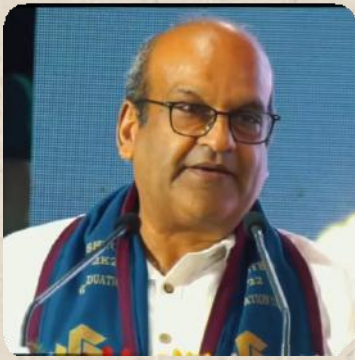
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Accredited by NBA & NAAC with 'A+' Grade

Vishnupur, Bhimavaram, West Godavari Dist., Andhra Pradesh, India, PIN - 534202



"A Compassionate human being who has seen diversity and had practiced mindfulness in different walks of his life"



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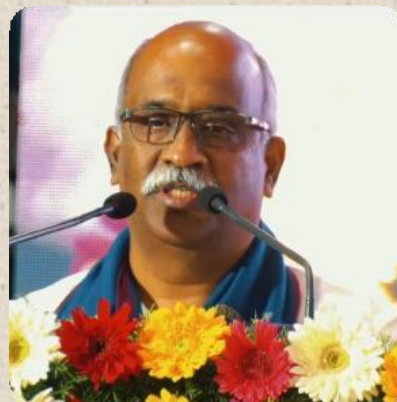


Shri K. Aditya Vissam
Secretary

**THE HALF YEARLY NEWSLETTER OF THE
DEPARTMENT OF CIVIL ENGINEERING
SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN:: BHIMAVARAM
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Vishnupur, Bhimavaram, West Godavari Dist., Andhra Pradesh, India, PIN - 534202**



Dr. P. Srinivasa Raju
Vice-Principal



Dr. G. Srinivasa Rao
Principle



Dr. Pala Gireesh Kumar
Professor & HoD
Department of Civil Engineering

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□ Vision, Mission and PEO,s of Civil Department

❖ Vision of the Department

- “To empower women in the field of civil engineering by imparting knowledge, training, ethical values and meets the needs of the academia and industry.”

❖ Mission of the Department

- To provide value based education for sustainable competitive edge.
- To impart skills required for civil engineering career along with understanding the role and responsibility in fulfilling the fundamental social needs.
- To nurture professionalism through continuously counselled and mentored environment.
- To inculcate the culture of research and consultancy in the students

❖ Program Educational Objectives (PEOs)

- To apply the knowledge of fundamental sciences in civil engineering and provide optimum solutions for real life problems
- To adopt contemporary engineering knowledge to become an ethical civil engineer
- To flourish in continued education and employment with an orientation to serve the society.

❑ Paper Publications

Dr. Pala Gireesh Kumar - Associate Professor & Head of the Department

E-mail – gireeshcivil@svecw.edu.in

Research Interests –Terramechanics, Pavement Materials, Traffic Engineering, Pedestrian Behaviour, Vehicular Pollution, Materials in Construction.



Pala Gireesh Kumar, Tejaswini Venkumahanti, Kesava Rao P and Jaya Shankar G (2021) “Disaster Mitigation and its Strategies in a Global Context – A State of the Art”, Materials Today: Proceedings, Scopus (Accepted). <https://doi.org/10.1016/j.matpr.2020.11.369>



Dr P. Sridhar - Associate professor in the Department of Civil Engineering

E-mail - parupallysridhar@svecw.edu.in

Research Interests –Remote Sensing and GIS applications, Machine Learning, Fuzzy

Logic, Watershed Management, Microwave Remote sensing

Dr. P. Sridhar, a paper entitled “Morphometric Analysis using Fuzzy Analytical Hierarchy Process (FAHP) and Geographic Information Systems (GIS) for the Prioritization of Watersheds” was accepted on (January 8, 2021) to be published in the Arabian Journal of Geosciences (AJGS) - **Impact factor 1.34 -Springer Journal (SCIE, Web of science, and Scopus listed journal).**

❑ Workshop's Attended

- o Mrs. A. Parvathi Devi attended a short-term training program on **Sustainable Materials & Resilient Buildings – Philosophy, Design, Implementation and Performance** organized by Kakatiya Institute of Technology & Science, Warangal from 4th Jan to 9th Jan 2021.
- o Mr. B. Venkatesh attended the online FDP on **Environmental Geotechnology** from 4th Jan to 8th Jan 2021 organized by the National Institute of Technology Karnataka, Surathkal as a part of AICTE Training and Learning (ATAL) Academy.
- o Mrs. A. Sarada attended a 1-day workshop on **Master Class on Excel as an Analytical Tool**.
- o Mrs. P. Lavanya attended a 2-week course on Construction Management-Precast Concrete Structures by ACE Civil Events on 17th April 2021.
- o Mrs. Ch. J. Y. Pavany Presented a work on **Municipal Solid Waste Management with special reference to Bhimavaram: Covid-19, Challenges & Recommendations** at the International Conference on Energy & Environment (ICEE-2021) from 9th April 2021 to 10th April 2021.

❑ Seminar Conducted

Dr. Pala Gireesh Kumar conducted a seminar on **Driver Education & Enlightenment Program, Demonstration of Effective Visual Presentation** for transforming the conventional Mindsets by subject expert Dr. Narasimha Murthy, Transportation & Traffic Consultant, California, United States on 21.04.2021. In collaboration with the KBR Foundation, ICI Student Chapter & DEEP

❑ Guest Talks Attended

Dr. Pala Gireesh Kumar has been invited to deliver a talk at the 2nd Edition of the World Congress on Geology and Earth Science (GeoEarth-2021) in Osaka, Japan.

❑ **Dream House Construction Laboratory (DHCL)**

Dream House Construction Laboratory (DHCL) is a captivating initiative adopted by the Department of Civil Engineering where miniature constructions are done following real-time procedures and standards. As an initial step of DHCL, the faculties have come forth to take up the task of constructing a miniature house along with the support of students. The faculties are making a lot of efforts to set a clear base and fetch a good foundation for the students concerning the DHCL. As a part of Dream House Construction Laboratory (DHCL) a miniature model of G+1 building has been initiated and the corresponding works have been started by a team of faculty and supporting staff.



❑ **Department Achievement:**

Congratulations to the Department of Civil Engineering at SVECW for receiving the prestigious Outstanding Student Chapter of Andhra Pradesh award for the ICI Ultra Tech Award 2020! This recognition is a testament to the department's exceptional dedication and proactive involvement in organizing and executing a wide array of activities throughout the academic year 2019-20.

The achievement underscores the department's commitment to fostering a vibrant academic environment, encouraging student engagement, and promoting excellence within the field of civil engineering. This accolade reflects not only the hard work and enthusiasm of the students but also the guidance and support provided by faculty members and mentors.

❑ Students Achievements

- o G. Anuja, Reg no: 17B01A0113 of IV B. Tech student have been qualified GRE with a score of 321 and applied for M.S in 5 Universities, U.S.A. for which recommendations were also given.
- o Poliseti Tejaswi, Pantham Mahitha & Paide Devi of III year secured 3rd place with a cash prize of Rs.1500/- in Power Point Presentation with the theme Sustainability at Moments'21 annual civil engineering symposium of NIT Trichy.
- o Sindhura Yakkala & Madhunika Nagubandi stood 2nd & 5th position in Tech Marathon, an online quiz at Moments'21, NIT Trichy. They have won free coupons to attend the workshops at NITT on 24th & 25th April 2021.

❑ Workshops/ Conferences Attended by Students

- o Sindhura Yakkala & Madhunika Nagubandi from III B. Tech attended Tech Marathon, an online quiz at Moments'21, NIT Trichy.
- o Abhirami Priyanka P from IV B. Tech attended Tech Marathon, an online quiz at Moments'21, NIT Trichy.
- o Abhirami Priyanka P from IV B. Tech attended Subsurface Investigation & Preparation of Geotechnical Data Report under Moments'21 NITT.
- o D. Hanisha Gayathri from II B. Tech attended the International Conference on Energy & Environment (ICEE-2021) on April 9 – 10, 2021.

❑ Student Placements:

Chekuri Sai Deepika (17B01A110), Chodagam Uheetha Ramya (17B01A012), and Mohammed Ifranaaz (17B01A0133) got placed in the INFOSYS.

SOLID WASTE MANAGEMENT

The COVID-19 pandemic significantly impacted solid waste generation worldwide, leading to unique challenges in managing various types of waste. The increased use of personal protective equipment (PPE), medical supplies, and packaging resulted in a surge of medical and hazardous waste, alongside changes in household waste patterns.

Medical Waste: Hospitals, clinics, testing centers, and quarantine facilities generated a substantial amount of medical waste, including used masks, gloves, gowns, testing kits, and contaminated materials. Proper handling and disposal of this waste were critical to prevent the spread of infection and protect waste management workers.

Household Waste: With more people staying at home due to lockdowns and restrictions, household waste patterns changed. There was an increase in packaging waste from online deliveries, higher food packaging, and single-use items due to safety concerns. However, some areas experienced a reduction in overall waste generation due to reduced commercial activities.

Plastic Pollution: The pandemic led to a surge in single-use plastic consumption, including disposable masks, gloves, and other PPE. Improper disposal of these items exacerbated plastic pollution, posing environmental threats to oceans and ecosystems.

Challenges in Waste Management: The sudden increase in medical and hazardous waste strained existing waste management infrastructure. There were challenges in collecting, segregating, transporting, and treating infectious waste safely, requiring specialized procedures and equipment.

To manage COVID-19-related waste, governments and waste management authorities had to adapt swiftly:

Specialized Handling: Protocols for the safe collection, transportation, and treatment of medical waste were reinforced, often requiring dedicated facilities and trained personnel.

Public Awareness: Educational campaigns were launched to encourage proper disposal of PPE and emphasize the importance of waste segregation to minimize health risks.

Innovation and Adaptation: Some places explored innovative methods for disinfection and treatment of medical waste to ensure safety and efficiency.

Managing the increased volume of waste during the pandemic necessitated a collaborative effort among healthcare facilities, waste management authorities, policymakers, and the public. It highlighted the importance of adaptive and resilient waste management systems capable of addressing unforeseen challenges while emphasizing sustainable practices to reduce the environmental impact of waste generated during public health crises.





Editorial Team



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