



CIVIL ENGINEERS ASSOCIATION NEWS LETTER (CEAN)



THE GREATNESS OF CIVIL ENGINEERING

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

DEPARTMENT OF CIVIL ENGINEERING

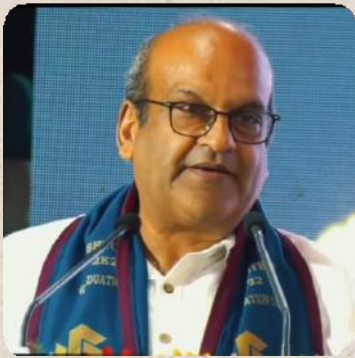
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Vishnupur, Bhimavaram, West Godavari Dist., Andhra Pradesh, India, PIN - 534202



“A man who rose from the state of subservient to an affluent status by his dedication and hard work”



Shri K.V. Vishnu Raju
Chairman



Shri R. Ravi Chandran
Vice-chairman



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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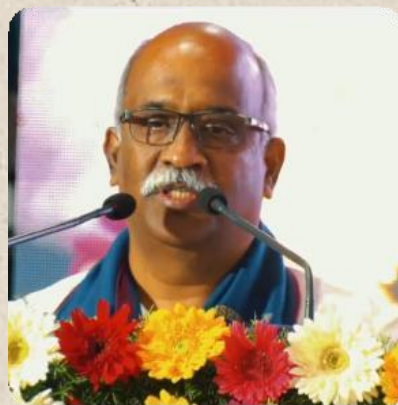
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Dr. P. Srinivasa Raju
Vice-Principal



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.

❑ FDP/ Workshops/ / Conferences Attended by Faculty

S.N	Name of the Faculty	Details of the Programme
1	Mrs.P.Lavnya	Attended Industrial E-Training Program on StaadPro from 3rd to 5th June-2021 by Vignana Bahraini Institute of Technology, Hyderabad.
2	Mrs.A.Parvathi Devi	Attended webinar on NEP2020-Guidelines & Implementation practices in Engineering Education” on 12.06.2021.
3	Mrs.A.Parvathi Devi	Attended Two Day National Level Webinar “Latest Materials and Methods for Structural Engineering “organized by Siddharth Institute of Engineering &Technology, Puttur on 5 th & 6 th June 2021.
4	Mrs.A.Parvathi Devi	Attended Faculty Development Program “Latest Technological Development in Civil Engineering “organized by Rajshree Institute of Management &Technology, on 21-25 June 2021.
5	Mr.B.Venkatesh	Attended Faculty Development Program “Earthquake Resistant Structural Systems and Design for Building and Structures” from 7-11 June 2021 conducted by Sri Venkateswara College of Engineering Sripaerumbudur, Orissa.
6	Ms.V.Manasa	Attended 1 day International workshop on “Mendeley & Zotero: The reference Manager” organised by Mohamed Sathak A J College of Engineering, Chennai on 5 th June 2021
7	Ms.V.Manasa	Attended 2 day National level webinar titled “Latest Materials & Methods for Structural Engineers” organised by Siddhartha Institute of Engineering & Technology, Puttur on 5 th & 6 th June, 2021
8	Mrs.Ch.J.Pavany	Attended FDP on “Green Buildings & Built Environment” by The Indian Green Building Council (IGBC) in association with CII on 31 st May to 4 th June, 2021
10	Mrs.S.Manjula	Participated in GEM Faculty Entrepreneurship workshop from 31 st to 11 th June, 2021

❑ keynote speaker & Guest Lectures

- Dr.Pala Gireesh Kumar invited as a keynote speaker – Delivered lecture on Research Applications in Transportation Sector, organized by Kallam Haranadhareddy Institute of Technology, Chowdavaram on 23rd June. 2021
- Guest Lectures: Ms.Preethi Research Scholar of IIT Mumbai, as a part of Prime Minister Research Fellow Scheme (PMRF) is designated to deliver sermon on "Introduction to Basics of Remote Sensing & GIS" for the II, III & IV year students which is scheduled on every Saturday (5th, 12th, 19th, 26th, June 2021) from 3:00 P.M to 4:30 P.M.

❑ Student achievement

- ❑ **Achievements of Students:** Final year students (18B01A0146, 18B01A132, 18B01A0134 &18B01A0142) has Achieved 1st runner up in the international competition” TAL SCOUTS-Transformers 2021” for the concept of “Eco Friendly Construction Using Eco Bricks”. On 28th November 2021 under the mentorship of Mrs. S.Manjula, Assistant Professor, dept of CE. They awarded with certificate along with seed funding.



□ Faculty publications

- **Dr. Pala Gireesh Kumar's** paper, **“Impact of Vehicular Pollution on the Urban Environment – A Case Study** (Bhimavaram, India)”, was accepted for publication in the Arabian Journal of Geosciences which is a well-renowned International Journal (Scopus Indexed), January 2022.



- **Dr P. Sridhar** working as Associate professor in the Department of Civil Engineering has presented a paper on **“Prioritization of Watersheds Using GIS and FAHP (Fuzzy Analytical Hierarchy) Method”** in the International Conference sponsored by DST SERB, conducted by Department of Computer Science Engineering of Sere Vidiyaniketan Engineering College (A), Tirupathi, Andhra Pradesh. The research paper was entitled as the conference's Best Paper



❑ The greatness of Civil Engineering

- The **Chenab Rail Bridge** is a steel and concrete arch bridge located between Bakkal and Kauri in the Reasi district of the Jammu Division of Jammu and Kashmir, India. The bridge spans the Chenab River at a height of 359 m (1,178 ft) above the river, making it the world's highest rail bridge.
- In November 2017, the base supports were declared completed allowing for the start of the construction of the main arch. The bridge was fully completed and was inaugurated in August 2022.



- Chenab Bridge is arguably the biggest civil-engineering challenge faced by any railway project in India's recent history. It is a concrete arch bridge constructed between Bakkal and Kauri in the Reasi district of Jammu and Kashmir. Part of the Udampur-Srinagar-Baramulla rail link project (USBRL), the project aims to boost connectivity in Jammu and Kashmir.

❑ **The software used for the Chenab arch Bridge design**

- The most sophisticated 'Tekla' software is employed for structural detailing using structural steel suitable for -10°C to 40°C temperature. Chenab bridge has had to overcome several challenges; the geology, the harsh terrain, and the hostile environment are just a few of the difficulties the engineers and railway officials had to overcome to get to this point.



- The terrain of this railway line is mountainous and will pass through tunnels and bridges constructed in difficult Himalayan geology. The crossing of the Chenab river is one of the most challenging parts of the project.
- The bridge comprises of a 530 m long approach bridge, and a 785 m long arch bridge. The main arch spans 467 m, making it one of the longest arches in the world and the longest arch for rail traffic. The deck will be 13.5 m wide and will include two tracks upon completion.

❖ **Following are some of the design considerations taken into account:**

- Limit state philosophy of design has been decided to be followed as per BS codes
- Computation of wind load effects as per wind tunnel tests
- Site specific seismic spectra developed by Indian Institute of Technology (IIT) Roorkee
- Provision of Euro code 8 for ductility detailing of very tall and hollow rectangular RCC piers
- Provision of long welded rail (LWR) over the bridges and resulting force calculation as per UIC – 774-3R guidelines
- Blast resistant design used
- Design checking for fatigue as per BS codes
- Deformation limits as per comfort criteria of UIC – 776-2R and UIC 776 -3R guidelines
- Redundancy provided in the structures, for lower level of operation during mishaps and against collapse in extreme cases of one pier failure
- The quality aspect has been emphasised, as the quantum of fabrication and welding is colossal. Mostly indigenous material compliant to IS codes has been planned to be used, whereas for the design, international codes have been referred, which means the Quality Control work is still difficult.



❑ **Alumni interaction**

- ❑ The Department of Civil Engineering has started its alumni connection by initiating a forum, **CIVIL ENGINEERING ALUMNI ASSOCIATION (CEAA)** aiming to connect all alumni in one platform for the growth of students as well as the Department. As a part of it, the department has conducted alumni interaction with the students of 2nd and 3rd B.Tech on 19th February 2022. Students asked many doubts regarding the work culture, higher studies and placements. The alumni even shared their experiences in their respective field of work in their organizations



❑ Student research conclave

- The Department of Civil Engineering has organized an event, STUDENT RESEARCH CONCLAVE on 18th and 19th February 2022, in association with Indian Concrete Institute-Student Chapter and in Collaboration with Infra Support Engineering Consultants Pvt. Ltd. & Ultratech Cement Ltd. The event was entitled to host all the UG and PG students (in-course or passed- outs). Students have submitted synopsis of the project they accomplished during their study. Based on the quality of content, novelty, and other influential factors, the submitted synopsis of papers were shortlisted. The students have delivered their presentations and the best three presentations were awarded with Cash Prize



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DEPARTMENT OF CIVIL ENGINEERING
In Association With
INDIAN CONCRETE INSTITUTE - STUDENT CHAPTER
And Collaboration With
INFRA SUPPORT ENGINEERING CONSULTANTS PVT. LTD.
+
ULTRATECH CEMENT LTD.

Cordially Invites You to the Prestigious Research Event

STUDENT RESEARCH CONCLAVE 2k21
-28- & 29- December 2021-
-18- & 19- February 2022

Want to explore and expose your skill in the extent project or research work? Not understanding where to start & how to take your interest in research forward? Well, we are here to ace you through the realm of research. Grab the opportunity to get the best suggestions and reviews by participating in the prestigious Research event, **STUDENT RESEARCH CONCLAVE 2021**.

Event Perquisites
DIVE INTO THE DEPTHS OF RESEARCH WITH US WHERE YOU CAN WIN,

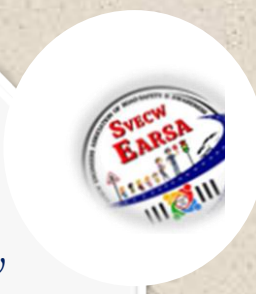
- Honor with a Majestic Memento & Fascinating Cash Prizes
- Complimentary Ticket to the Audience Grounds of the Forthcoming Edition of ScTACE.
- A Grant of Certification in association with the partnering institutes and industries to all the Participants and a chance to the top 10 participants to interact with experts from Top IITs and Industries.

“The event is entitled to host all the UG and PG students (in-course or passed-outs). Each team is allowed to hold not more than four students. Avail the glory of the research with a mere sum of Rs. 100/- per student in a team as the registration fee.”

Register Using the Link Below for Further Details & Detailed Event Manual
<https://forms.gle/tj5yz4sToKdYH1WYp6>

Convener- SRC 2K21
DR. PALA GREEESH KUMAR
Head & Associate Professor-CE, SVECW (A)
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❑ **SVECW Engineers Association of Road Safety and Awareness (SVECW EARS)**

- *With time, the department is furthering towards milestones of new associations, initiatives, conferences, workshops, and several others. In the long run, we have witnessed the rise of ICIs as a powerful body with RCC as the prime supporter and CDP as the supreme motivator. In this of the three predominant pillars, we have another initiative named SVECW EARS and this completes the four pillars of CE, SVECW (A).*
- **"ROAD SAFETY"**- A predominant cadre under prolonged supervision which concludes the art safe journey towards the destination. A lot of good deeds emerge with motivation and inspiration. Falling in a similar stance, we would like to acknowledge a well-renowned person DR NARASIMHA MURTHY, the founder of the Driver Education and Enlightenment Program (DEEP) who has set us on the track of up lighting an initiative of Road Safety Education. With the motto of promoting the **"ROAD SAFETY AWARENESS"**, the Department of Civil Engineering of Shri Vishnu Engineering College for Women (A) in association with DEEP, has started a new association that works exclusively on creating awareness among the younger generations on the road safety. On 21st April 2021, a new association was formulated with the name **SVECW ENGINEERS ASSOCIATION OF ROAD SAFETY & AWARENESS (SVECW EARS)**

❖ VISION OF SVECW EARSA

- The prime vision of SVECW EARSA is to drive society towards a self-disciplined routine concerning road safety as a crucial aspect and students as the supreme movers to instigate well-disciplined

❖ OBJECTIVES OF SVECW EARSA

- ✓ To promote driver and road safety factors among students of schools and colleges.
- ✓ To initiate awareness programs for the public on the aspect of road safety
- ✓ To honor and instigate the ROAD SAFETY WEEK in educational institutions.

❖ GOALS OF SVECW EARSA

- ✓ Establishment of connections among educational institutions.
- ✓ Initiation of awareness programs (virtual & offline).
- ✓ Inter-School Competitions
- ✓ Collaborations with Public Sectors
- ✓ Socializing and Hash-tagging with follow-ups.
- ✓ Promoting ROAD SAFETY WEEK
- ✓ Timely release of monthly articles, quarterly newsletters, and magazines annually.

Founder & Mentor

Dr. PALA GIREESH KUMAR

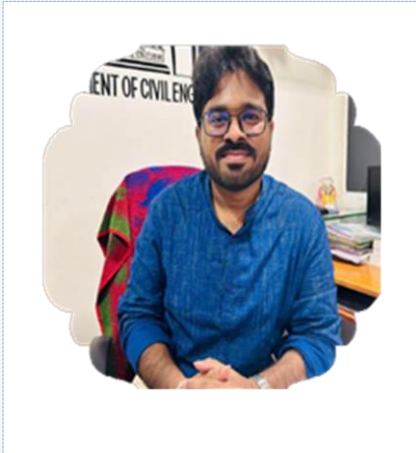


❑ **Extra-Curricular Activates**

- Name : G Sravani (3rd year)
- Art : Human arts (Realistic pencil art)



Editorial Team



Dr.Pala Gireesh Kumar
Professor & HOD

Chief Editor



Mr.Butti. Venkatesh
Assistant Professor

Editor