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CIVIL ENGINEERS ASSOCIATION NEWS LETTER (CEAN)



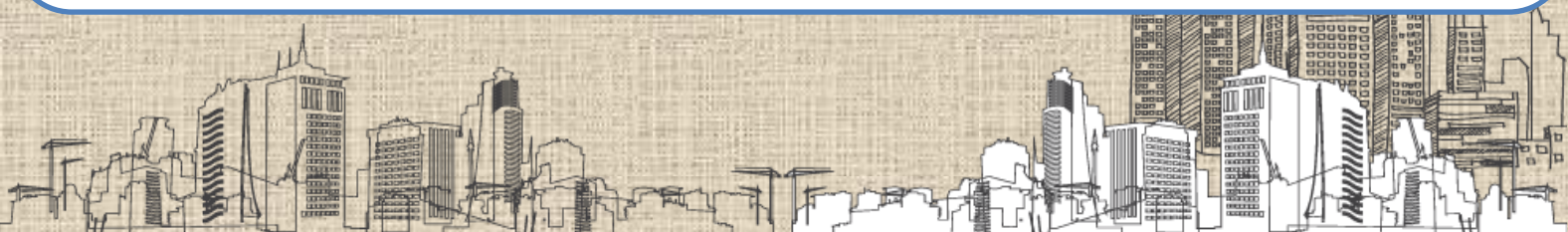
**SHRI VIHNU ENGINEERING COLLEGE FOR WOMEN::BHIMAVARAM
(AUTONOMOUS)**

DEPARTMENT OF CIVIL ENGINEERING

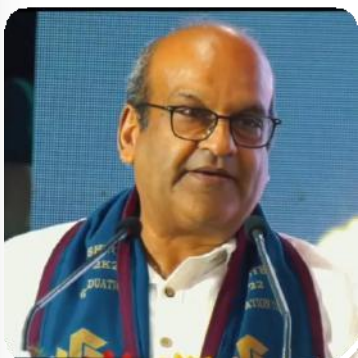
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Vishnupur, Bhimavaram, West Godavari Dist., Andhra Pradesh, India, PIN - 534202



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



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**

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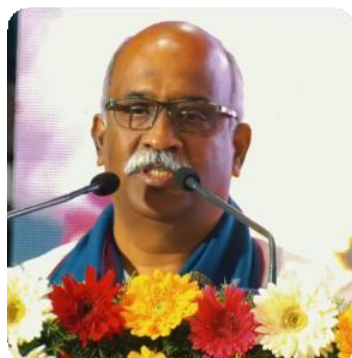
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INDEX

Page No

1. Vision, Mission and PEO, s of Civil Department 1
2. Teaching Practices at COVID Time..... 2-3
3. About COVID..... 4-6



□ **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.

□ TEACHING PRACTICES AT COVID TIME

Adapting Teaching Practices in the Civil Department of SVECW Amidst COVID-19

The pandemic has presented unparalleled challenges to the educational landscape, demanding innovative approaches and adaptability from educators. The Civil Department at Sri Vishnu Engineering College for Women (SVECW) has adeptly navigated these turbulent times, reimagining teaching methodologies to ensure continuity in education while prioritizing the safety and well-being of students and faculty.

Embracing a hybrid model of learning, the department seamlessly transitioned to a blended approach that amalgamated online and offline teaching methodologies. Leveraging technology, lectures were conducted virtually, employing video conferencing tools and interactive platforms to deliver engaging and informative sessions.

However, acknowledging the significance of practical exposure in engineering education, the Civil Department ingeniously devised strategies to facilitate hands-on learning. Implementing rotational schedules and stringent safety measures, laboratory sessions were conducted on-campus in small groups, allowing students to apply theoretical knowledge in a controlled environment while adhering to necessary health protocols.

Moreover, to supplement practical understanding, virtual simulations, and 3D models were incorporated into the curriculum, providing students with immersive experiences and enhancing their comprehension of complex concepts.

Recognizing the importance of mentorship and individualized attention, faculty members at SVECW's Civil Department ensured constant availability for consultations and guidance. Office hours, virtual one-on-one sessions, and collaborative online platforms were utilized to foster a supportive learning environment, catering to the diverse needs of students.

Furthermore, the department actively promoted a sense of community and engagement among students through virtual seminars, webinars, and online forums. Guest lectures by industry experts and alumni were organized, offering invaluable insights and networking opportunities despite the limitations imposed by the pandemic.

Innovative assessment methodologies were also employed to evaluate student progress fairly. Assessments were diversified, encompassing assignments, presentations, quizzes, and comprehensive examinations, ensuring a holistic evaluation of students' understanding and performance.

As we navigate these unprecedented times, the Civil Department at SVECW remains committed to delivering quality education while continuously evolving teaching practices to adapt to the ever-changing landscape. The dedication of faculty members and the resilience of students have been pivotal in overcoming challenges and fostering an environment conducive to learning and growth.

In the pursuit of academic excellence, the department continues to explore novel strategies, incorporating feedback from both faculty and students, to ensure an enriching educational experience that transcends the barriers imposed by the pandemic.

The unwavering commitment of SVECW's Civil Department to innovation, adaptability, and student-centric learning stands as a testament to its resilience in the face of adversity, promising a brighter future for aspiring engineers.

ABOUT COVID-19

Reflections on COVID-19 from June to November 2020

The months spanning from June to November 2020 have been a testament to resilience and adaptation as the world grappled with the far-reaching effects of the COVID-19 pandemic. This unprecedented global crisis has fundamentally reshaped the way we live, work, and interact, compelling communities worldwide to unite in the face of adversity.

In June, as the world cautiously emerged from stringent lockdowns, tentative steps were taken toward restoring a semblance of normalcy. Countries began to cautiously reopen economies, albeit with stringent safety measures in place. Businesses adapted to new norms, implementing remote work strategies and embracing digital technologies to sustain operations while prioritizing the health and safety of employees.

Healthcare systems globally continued their relentless battle against the virus. Medical professionals displayed unwavering dedication, working tirelessly to treat patients and develop effective treatment protocols. Scientific research accelerated, with unprecedented collaboration among researchers and pharmaceutical companies striving to develop vaccines and treatments at an unprecedented pace.

July brought with it a wave of uncertainty as several regions witnessed resurgences in COVID-19 cases. This resurgence prompted a renewed emphasis on public health measures, including mask mandates, social distancing, and targeted lockdowns to curb the spread of the virus. Communities rallied together, demonstrating solidarity and resilience in adhering to these measures, and recognizing the collective responsibility to overcome the crisis.

August and September witnessed a delicate balance between reopening and maintaining vigilance. Schools and educational institutions grappled with the complexities of remote learning, striving to provide quality education while ensuring the safety of students and faculty. Innovative solutions emerged, leveraging technology to facilitate distance learning and bridge the gap created by physical distancing.

By October, promising developments emerged on the vaccine front. Pharmaceutical companies reported encouraging progress in vaccine trials, igniting hope for a potential breakthrough in combating the virus. Meanwhile, businesses and industries continued to adapt, embracing digital transformation and redefining traditional paradigms of work and commerce.

November marked a pivotal moment as several vaccines showed remarkable efficacy rates in late-stage trials, raising optimism for a path towards recovery. However, challenges remained, particularly regarding equitable distribution and logistical hurdles in administering vaccines on a global scale.

As we reflect on the tumultuous months from June to November 2020, the resilience, solidarity, and adaptability demonstrated by communities worldwide stand as a testament to the indomitable human spirit. While the road ahead may still be uncertain, the strides made in healthcare, technology, and collective resolve offer rays of hope for a brighter future.

In the face of adversity, individuals and communities have showcased unparalleled strength and compassion, forging a path forward guided by unity and perseverance. Together, we continue to navigate this uncharted territory, drawing strength from our shared experiences and a collective determination to emerge stronger from this global challenge.



❑ Role of Civil Engineering during COVID-19

Infrastructure Planning and Management: Civil engineers can strategize and manage infrastructural projects focused on healthcare facilities, temporary hospitals, or retrofitting existing structures to accommodate medical needs. This could involve optimizing space, ensuring proper ventilation systems, and enhancing sanitation measures to mitigate the spread of the virus.

Development of Safety Protocols: Civil engineers can contribute to formulating and implementing safety protocols for construction sites, ensuring that workers adhere to social distancing measures, wear appropriate protective gear, and follow stringent hygiene practices to minimize the risk of transmission.

Technological Innovation: Through innovation and technological advancements, civil engineers can develop solutions such as contactless interfaces in public spaces, automated systems for disinfection, or improvements in air filtration systems to enhance indoor air quality and reduce the spread of airborne viruses.

Community Engagement and Education: Civil engineering departments can collaborate with communities to raise awareness about COVID-19 safety measures and disseminate information on best practices for maintaining safe environments, both in public spaces and at home.

Research and Development: Engaging in research initiatives focused on pandemic-related challenges, such as studying the impact of the virus on infrastructure, exploring sustainable and resilient design solutions, or developing new materials resistant to viruses, can be vital contributions from the department.

Support for Remote Learning: In the context of educational institutions, civil engineering departments can provide technological support and expertise to facilitate remote learning by developing online resources, virtual laboratories, and interactive platforms to ensure the continuity of education.

Collaboration with Health Departments: Civil engineers can collaborate with health departments to assess and improve the built environment's impact on public health. This could involve analysing factors such as urban planning, transportation systems, and the design of public spaces to support health initiatives and prevent the spread of the virus.

Overall, the Department of Civil Engineering can serve as a pivotal hub of innovation, expertise, and community engagement during the COVID-19 pandemic, contributing significantly to public health and safety efforts while adapting to the evolving challenges of this unprecedented situation.

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