

**CIVIL ENGINEERING
NEWSLETTER**

AADHARA

EDITION OF JAN/FEB. 2022

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VISION OF THE DEPARTMENT

To be a centre of excellence in Civil Engineering Education through full-fledged learning experience along with research.

MISSION OF THE DEPARTMENT

To accomplish our vision, we are committed to

- Provide high quality technical education for Undergraduate, Graduate and Doctoral Programmes in Civil Engineering.**
- Create excellent infrastructural facility and state-of-the-art Laboratories.**
- Encourage faculty and students to carry out socially relevant research through collaboration with industry.**
- Inculcate ethics and ensure commitment to the society with leadership qualities.**

STUDENTS' ACHIEVEMENTS

VISAI 2022

STUDENT'S CERTIFICATION

R&D CONFERENCE

FACULTY CONTRIBUTION

FACULTY PhD VIVA VOCE

FACULTY R&D PUBLICATION

FACULTY CERTIFICATION

OTHER SIGNIFICANT CONTRIBUTIONS

(OSCs)

INTERNSHIP VISIT TO ATAL TUNNEL

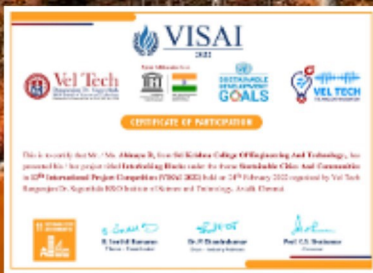
CEA WEBINAR

WEBINAR

STUDENTS' ACHIEVEMENTS

VISAI 2022:

Civil Engineering students participated and presented their works for various themes in the 12th international project competition (VISAI 2022) held on 24th February 2022 organized by Vel Tech Rangarajan Dr. Sagunthala R&D institute of Science and Technology.



STUDENTS' ACHIEVEMENTS

STUDENT INTERNSHIP:

Pre - Final year student **S. Dhinakaran** has undergone an internship under the topic "Environmental management in mines and thermal power plants" at **Neyveli Lignite Corporation Limited** from 13th to 27th December 2021.



MOOC COURSE CERTIFICATION:

Second year Civil Engineering students **Ashwanth S** and **Aravind Babu S** have completed an Online course on "Wood Science Beyond Building" authorized by **West Virginia University** and offered through **Coursera**.



STUDENTS' ACHIEVEMENTS

R&D CONFERENCE

Mr. S. C. Boobalan , Associate Professor of Department of Civil Engineering along with Dineshkumar S, Dhanabharathi M and Gokul Das M attended the National Conference on Sustainable Materials and Smart Practices (NCSMSP21) held from 17th to 18th December. They presented their work on "Comprehensive review on the influence of natural materials in soil stabilization".



BANNARI AMMAN INSTITUTE OF TECHNOLOGY
AN AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI APPROVED BY AICTE ACCREDITED BY
NAAC A+ GRADE
SATHYAMANAGALAM - ERODE - TAMILNADU - INDIA

CERTIFICATE OF PRESENTATION 

This is to certify that **DINESHKUMAR S** has presented a paper titled '*Comprehensive Review On The Influence Of Natural Materials In Soil Stabilization*' in virtual at the National Conference on Sustainable Materials and Smart Practices (NCSMSP21) organized by Department of Civil Engineering, Bannari Amman Institute of Technology, Sathyamangalam during 17th and 18th December 2021.

Co Authors: **BOOBALAN S C , DHANABHARATHI M , GOKUL DAS M**

   
CO-ORDINATOR CONVENER HOD/CIVIL PRINCIPAL

SMSP_AB_199

STUDENT ACHIEVEMENTS

R&D CONFERENCE:

Mr. S. Ramakrishnan, Associate Professor of Department of Civil Engineering along with Gowtham Balaji K, Gnanaprabhakaran M and Aswin D attended the National Conference on Sustainable Materials and Smart practices (NCSMSP21) held from 17th to 18th December. They presented their work on "Comparitive study on the behaviour of fibre Reinforced Concrete".



STUDENT ACHIEVEMENTS

R&D CONFERENCE:

Mr. Sadheesh, Assistant Professor of Department of Civil Engineering along with Swetha R, Adlin Rino M and Arundhathi A attended the National Conference on Sustainable Materials and Smart Practices (NCSMSP'21) held from 17th to 18th December. They presented their work on Monitoring Analyzing the effect of heavy metals in air based on ecological and health risks in coimbatore"



FACULTY CONTRIBUTION

FACULTY CERTIFICATION:

Mr. A. Jesudass, Assistant Professor of Department of Civil Engineering successfully completed NITTT module on "Orientation towards technical education and curriculum aspects".



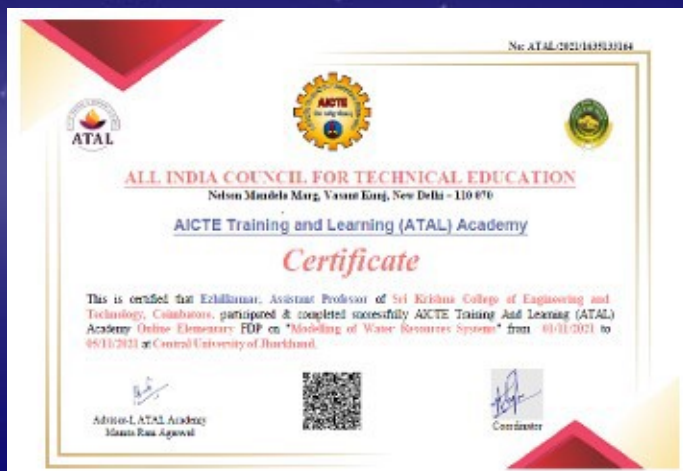
Mr. A. Jesudass, Assistant Professor of Department of Civil Engineering successfully completed a one - week online certificate course on "Digital Teaching Techniques" organized by ICT Academy from 24th to 28th February.



FACULTY CONTRIBUTION

FACULTY CERTIFICATION:

Mr. M. R. Ezhil kumar, Assistant Professor of Department of Civil Engineering completed an ATAL FDP on "Modelling of water resources systems" held from 1st to 5th November, Organised by Central University of Jharkhand.



FACULTY CONTRIBUTION

R&D CONFERENCE:

Ms. G. Preethi, Assistant Professor of Department of Civil Engineering along with final year Civil Engineering students M. Srinithish, U. Abishek Pragadeeshwar and S. B. Ajay attended the National Conference on Sustainable Materials and Smart Practices (NCSMSP'21) held from 17th to 18th December. They presented their work on "Experimental investigation on improving air quality with indoor plants". The paper was selected as the best paper at the conference NCSMSP21'.



FACULTY CONTRIBUTION

FACULTY R&D JOURNAL PUBLICATION:

Dr. M. S. Ramakrishnan, Associate Professor Department of Civil Engineering has published research article titled "Experimental investigation of Geopolymer Concrete" in AIP Conference Proceedings. DOI of the article is <https://doi.org/10.1063/s.0070991>

AIP Conference Proceedings

Experimental investigation of geopolymer concrete

Cite as: AIP Conference Proceedings 2385, 100004 (2022); <https://doi.org/10.1063/s.0070991>
Published Online: 06 January 2022

M. Saravanan, C. Aravindhan and S. Ramakrishnan



Experimental Investigation of Geopolymer Concrete

M. Saravanan^{1,2}, C. Aravindhan^{2,3}, and S. Ramakrishnan^{1,4}

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Abstract: Portland cement is a non-toxic waste handling material. In addition to deterioration and the formation of fresh bed, the concrete containing waste is not carbon dioxide source. The reduction in the weight of geopolymer concrete (GPC) causes about 40% weight CO₂ reduction as compared to the geopolymer concrete. About 70% of geopolymer concrete is the replacement of waste as compared to the geopolymer concrete. A geopolymer concrete (GPC) production was studied to identify appropriate waste of industrial wastes for the manufacture of the geopolymer concrete. The present work was developed in Class 2 and based geopolymer concrete from the National Heat Process Plant. As an addition to know the properties of GPC, the compositions of sodium silicate and sodium hydroxide solutions were studied. The fresh concrete tested between 80°C and 100°C. Sodium hydroxide solution concentration was fixed at 6M (60.4%). Geopolymer concrete was prepared for the modulus at 80°C and 100°C in different curing and time curing. The geopolymer concrete tested for compressive strength at different ages, modulus 1, 3 and 28 days. Based on the test results, (i) the compressive strength of geopolymer concrete is the increased in the GPC and sodium silicate; (ii) GPC (waste-based) compressive strength was more than the ordinary concrete; (iii) Concrete compressive strength increases with the curing temperature using from 80°C to 100°C.

FACULTY CONTRIBUTION

FACULTY R&D JOURNAL PUBLICATION:

Dr. V. Yogeshwaran, Assistant Professor Department of Civil Engineering along with final year students V. M. Divyadharshini, D. Karthickraja and R. P. Thamilselvan has published a research article titled "Experimental studies published on partial replacement of E-Waste and Blast furnace Slag in concrete" in Materials Today: Proceedings.



FACULTY CONTRIBUTION

R&D PATENT PUBLICATION:

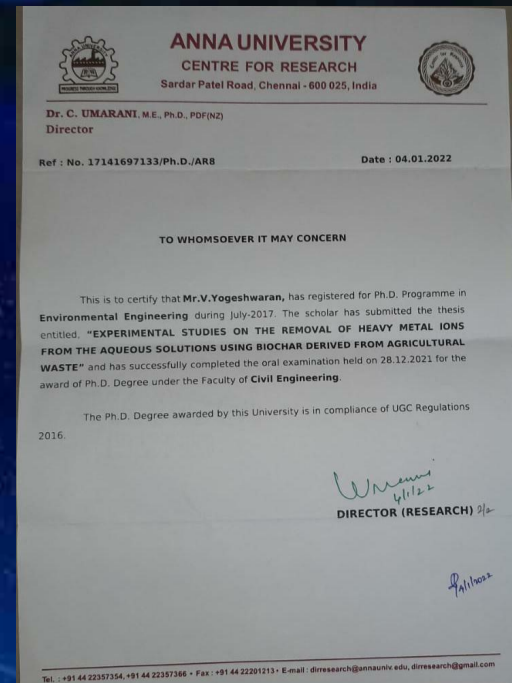
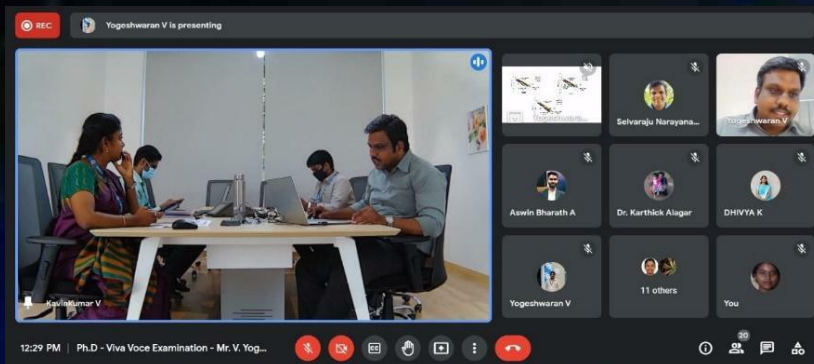
Mr. R. Vighnesh, Mr. M. R. Ezhil kumar, Mr. A. Aswin Bharath and Dr. S. Ramakrishnan, Department of Civil Engineering along with Mr. T. Vighnesh, Department of Mechatronics Engineering have published a patent on the title "Plastering tool for rounding wall corners". It was published on 4th January 2022.

Application Details	
APPLICATION NUMBER	202241004825
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/01/2022
APPLICANT NAME	1 . Mr. R. Vighnesh 2 . Mr. M. R. Ezhilkumar 3 . Mrs. S. Vaishnavi Devi 4 . Mr. A. Aswin Bharath 5 . Dr. S. Ramakrishnan 6 . Mr.T.Vighnesh
TITLE OF INVENTION	PLASTERING TOOL FOR ROUNDING WALL CORNERS
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	vighneshr1992@gmail.com
ADDITIONAL-EMAIL (As Per Record)	vighneshr1992@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/02/2022

FACULTY CONTRIBUTION

FACULTY PhD VIVA VOCE:

Mr. V. Yogeshwaran, Assistant Engineering has successfully defended his thesis on "Experimental studies on the removal of heavy metal ions from the aqueous solution using biochar derived from agricultural waste" and was highly launched by the committee members.



OSCs

The Civil Engineering Department Organised a guest lecture on "Career opportunities in Civil Engineering" on 11th November 2021 through Google meet. The Chief guest was Er. E. Nilsimha, Assistant Manager, Skytree Consulting Engineers Pvt.LtD., Bangalore.

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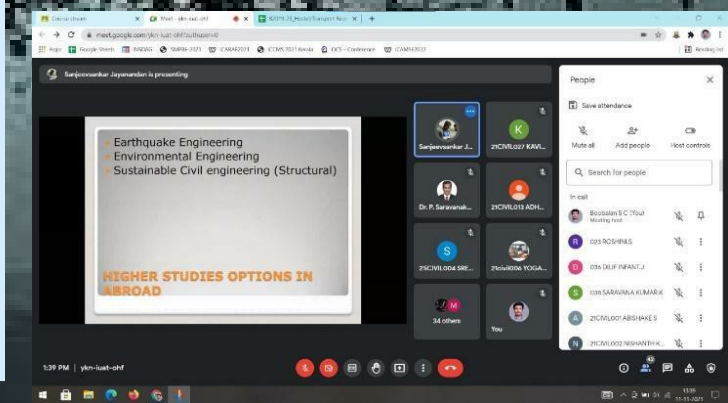
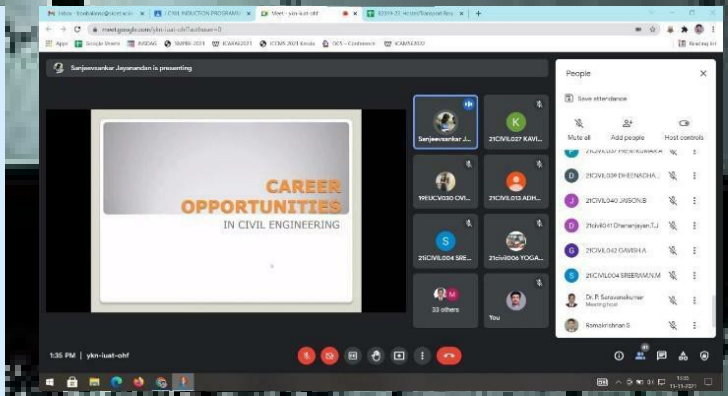
DEPARTMENT OF CIVIL ENGINEERING
(Accredited by NBA)

Civil Engineers Association (CEA) & **INSTITUTION'S INNOVATION COUNCIL (IIC)**

Organizes a webinar on
"Career Opportunities in Civil Engineering"

Er. E. Nilsimha
Assistant Manager,
Skytree Consulting Engineers Ltd.,
Bangalore

<https://meet.google.com/ykn-4uat-ohf> **11th November 2021 (Thursday) 1.30 - 2.15 PM**



OSCs

The Research & Innovation cell (R&I) of the Civil Engineering department and Institution Council of SKCET organized a webinar on "Startup to Entrepreneurship" on 16th February. Mr. Gowtham Prabhakar, Managing Director and Founder, Urban Space Architects, Coimbatore was the resource person.

Key things discussed were

- The Entrepreneurial Mindset
- Characteristics of Entrepreneurs
- Process and stages of Entrepreneurial process
- Skills to learn at this stage.

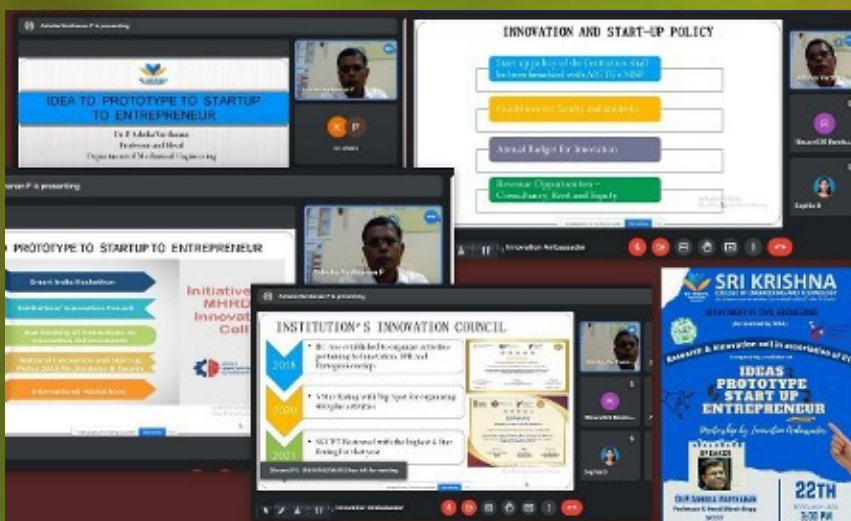


OSCs

The Research & Innovation cell (R&I) of the Civil Engineering Department and Institution Innovation Council of SKCET organised a webinar on "Idea to prototype to start up to Entrepreneur" on 22nd February. Dr. P. Ashoka Varathanan, Professor and Head, Department of Mechanical Engineering, SKCET was the resource person.

Key things discussed were

- Importance of Hackathons
- Culture of finding solutions for problems faced by society
- initiatives of MoE and SKCET on inculcating innovation.
- Funding opportunities and incubation facilities.



OSCs

Our students had a opportunity to visit ATAL tunnel in Mananli under Yuvak Scheme. Students from Department of Civil Engineering along with Dr. Vignesh kumar from Mechanical Engineering Department visited and observed the construction features and insights of tunnel. We would like to thank AICTE and SKCET for making us to visit ATAL Tunnel.



CHIEF PATRON:

Smt. S. Malarvizhi,
Chairperson and Managing Trustee,
Sri Krishna Institutions.

PATRON:

Dr. K. Sundaraman,
CEO,
Sri Krishna Institutions.

CO-PATRON:

Dr. J. Janet,
Principal, SKCET.

STUDENT EDITORS:

- **Mr. S. Lokkesh kumaar**
- **Mr. S. Ashwinkumar**
- **Mr. R. Saravanan.**



FACULTY EDITOR:

Dr. D. Maruthachalam,
HoD/Civil Engineering,
Mr. R. Vighnesh,
Assistant Professor,
Civil Engineering