



SCEA  
CIVIL ENGINEERING  
SVCE, TIRUPATI



**SHILANYA'S**  
CIVIL ENGINEERING STUDENT ASSOCIATION

**Magazine 2022-23**

We Plan  
We Design  
We Execute  
We Create Civilizations

# **Vision of Institution**

To be a centre of excellence focusing on high quality technical education, research and technical services with global leadership competence to succeed in employment and higher education with ethical, social, entrepreneurial aspects updating to the real time requirements.

## **Mission of Institution**

- To impart high quality technical education by providing the state of the art infrastructure, core instruction.
- Advanced research and technical consultancy services with qualified and senior faculty
- To prepare the students professionally adept and intellectually adept possessing excellent skill, knowledge and behavior with global competence.

## **Vision of Department**

To become a center of excellence in producing highly competent Civil Engineers with strong ethical values to serve the society and nation through quality education and research

## **Mission of Department**

- To impart high quality technical education in Civil Engineering by providing the well-equipped infrastructure, state-of-art laboratories and qualified faculty.
- To improve the quality of technological education through training, consultancy, research and innovation.
- To equip the graduate with the necessary skills, leadership qualities along with strong ethical and moral values to serve the society and nation.

**"Knowledge is Power"**



**SVCE TIRUPATI**  
EDUCATION FOR A BETTER SOCIETY

## PROMOTORS



**Sri A. Gangi Reddy, Chairman**  
PhD, JNU, New Delhi

Prakash Ambavaram, **Vice Chairman**  
MBA from University of Oxford



**Pradeep Ambavaram, Secretary**  
MBA from University of Hong Kong

" I tend to focus on my mistakes without balancing them with my strength".

# MESSAGE FROM PRINCIPAL



It's wonderful to hear about the release of the Department of Civil Engineering's Technical Magazine for the year 2022-2023. Such magazines play a crucial role in showcasing the department's activities and achievements while also serving as a source of inspiration for students.

By highlighting the various activities and advancements in the field of civil engineering, this magazine can indeed provide valuable insights to students, helping them stay updated with the latest developments in their area of study.

It's also commendable that the department is encouraging students to actively participate in creating and maintaining such publications. This not only enhances their writing and communication skills but also fosters a sense of ownership and pride in their academics.

I join you in extending my best wishes to the Civil Engineering Department students. May they continue to organize excellent events, contribute to the department's growth, and make valuable contributions to their college and the field of civil engineering as a whole. The magazine is a testament to their hard work and dedication, and I'm sure it will be a valuable resource for all who read it.

**Dr.N. Sudhakar Reddy**  
Principal OF SVCE

# MESSAGE FROM HOD



“ KNOWLEDGE IS POWER AND THE ACQUIRED KNOWLEDGE IS THE ASSET, WHICH CANNOT BE ROBBED BY OTHERS UNLIKE MATERIAL ASSET. ”

It's wonderful to hear about the release of the annual magazine of the Civil Engineering Department for the academic year 2022-2023. Such publications serve as an excellent platform to showcase the department's diverse activities and achievements throughout the year.

The inclusion of various articles, research works, and highlights of student and faculty achievements is a great way to demonstrate the department's commitment to academic and research excellence. It also provides an opportunity for students to share their knowledge and contributions with the broader community.

The mention of industrial visits, webinars, seminars, workshops, and non-technical activities shows a well-rounded approach to education, where students not only gain technical knowledge but also develop important skills and experiences beyond the classroom.

I join you in wishing the best of luck to the upcoming batch of students. May they continue to excel in their studies, organize more events, and contribute positively to the department's growth and the college community as a whole.

**Dr.M. CHITTARANJAN**  
Professor and Head Of the Department

# DEPARTMENT PROFILE



The Civil Engineering Department at SV College of Engineering was established in 2014 with an initial enrollment of 60 students. The department achieved accreditation from the National Board of Accreditation (NBA) for a period of three years, reflecting its commitment to academic excellence and quality education.

Our department boasts a robust infrastructure and cutting-edge laboratories, providing students with the necessary tools and facilities for a comprehensive learning experience. Our dedicated team comprises highly qualified faculty members, supported by a diligent non-teaching staff and efficient office assistants, all working collaboratively to foster an environment of academic growth and success.

To nurture the holistic development of our students, we established the "Shilanya's Civil Engineering Students Association." This platform empowers students to sharpen their skills, unleash their creativity, and strive for excellence in both their academic and extracurricular pursuits. We actively encourage student association activities, facilitating their participation in national-level student symposiums and technical events organized by esteemed institutions.

Recognizing the paramount importance of practical exposure and real-world insights, our Civil Engineering Department frequently organizes industrial visits. Moreover, we are ardent advocates of internships, encouraging our students to seek opportunities in reputed institutes, construction companies, and research laboratories. This practical exposure aligns our students with industry requirements and equips them with invaluable hands-on experience.

In our unwavering commitment to keeping our students abreast of the latest trends in civil engineering, we regularly host guest lectures and seminars. Eminent dignitaries from diverse domains of civil engineering serve as resource persons, providing our students with valuable insights and expanding their knowledge horizons.

We take pride in offering our students a plethora of opportunities for career growth. This includes inviting both core industry companies and software firms to engage with our students, facilitating placements and internships. Furthermore, we actively support students aspiring to pursue higher education by guiding them through competitive exams such as GATE, PGECET, GMAT, CAT, GRE, and TOEFL.

The Civil Engineering Department at SV College of Engineering is dedicated to nurturing the next generation of civil engineers who are not only well-equipped with knowledge and skills but also possess the creativity, innovation, and practical acumen necessary to excel in the field. We are committed to providing a holistic education that empowers our students to meet the evolving demands of the industry and academia.

# DEPARTMENT LABORATORY



GEOLOGY



TRANSPORTATION ENGINEERING



ENVIRONMENTAL ENGINEERING



GEO-TECHNICAL ENGINEERING



SURVEYING



APPLIED MECHANICS



STRENGTH OF MATERIAL



MATERIAL TESTING

# DEPARTMENT FACULTY



**Mrs. Anusha G**  
Structural Engineering



**Mr. Mahesh V**  
Water Resource Engineering



**Mrs. Sai Davyani V R**  
GeoTechnical Engineering



**Mr. Harish J**  
Geotechnical engineering



**Mr. Muni Swamy K**  
Structural Engineering &  
Construction management



**Mrs. Usha A**  
Structural Engineering



**Mr. Prakash C M**  
Traffic &  
Transportation planing



**Dr. Praveen K**  
Water Resource Engineering



**Mrs. Sravani T**  
Structural engineering



**Mrs. Gnana prasanna**  
Geo Technical Engineering



**Dr.Dinesh Kumar Reddy**  
Geo Technical



**Mr. Srikanth.T**  
Transportation Engineering



**Mrs. Anusha**  
Lab Technician



**Mr. Dileep**  
Lab Technician



**Mr. Ravi Shankar**  
Lab Technician

# ASSOCIATION MEMBERS



I hope this message finds you all in good health and high spirits. As the Faculty Coordinator of the SCEA Association, I wanted to take a moment to express my appreciation for the dedication and enthusiasm you all bring to our organization.

Over the years, SCEA has evolved into a thriving community of educators and professionals committed to advancing our field. Your active involvement in various initiatives, events, and projects has been instrumental in shaping our association's success.

**Mr. Prakash C M**  
Faculty Co-ordinator



**Mrs. Usha A**  
Faculty Co-ordinator

I trust this message finds you well and filled with anticipation for the exciting journey ahead. On behalf of the SCEA (Student Community of Engineering and Architecture) Association, I am delighted to extend a heartfelt welcome to all incoming students.

In my role as the Faculty Coordinator of SCEA, I am eagerly looking forward to witnessing the remarkable experiences that await each of you. Our association is not merely an academic platform; it's a dynamic community that nurtures personal growth, innovation, and collaboration.



Opportunities never come by luck but through a form of dedication and determination continuous learning and improvement of skills such a good opportunity came after being trained learned and improved skills through SCEA that helps me to build good career with great ethics

- Thank you SCEA

**B.Lakshmi Prasad**  
President

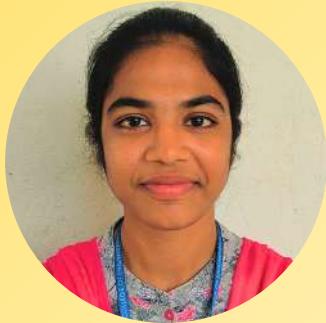


Never quit, is the motto that keeps me going forward. It's not about the position but it's all about how you think, create and approach as a person respecting others for their duty. SCEA gave me and all of us to enhance such qualities and skills which keeps us in better place.

- Thank you SCEA

**M Reddi Sai**  
Secretary

- .
- .
- .



**M Sneha**  
Joint Secretary

**Greetings!!! Shilangyas Circle an active, vibrant and dynamic circle in organizing meaningful academic & non-academic events for the students yet over a successful laughters and reminding of their wealth in core academics.**

**-Thank you SCEA**

**As the Treasurer of our College Association, I am honored to serve you in managing our financial resources with transparency and responsibility. Our commitment is to ensure that every rupee is invested wisely in activities and initiatives that benefit our student community**

**-Thank you SCEA**



**C Reddy Prasad**  
**Treasurey**

## **STUDENT CO-ORDINATORS**



V. Vaishnavi



G.M. Deekshitha



K. Pavani



R. Tej Kumar



C. Theja Srinivas



G. Vishnu Teja



S. Vishnu Vardhan



Y. Bhanu Prakash



V. Pallavi



V. Punnami



P. Mahimanvitha



P. Pavan Kalyan

***MOST OF THE PEOPLE NEED LUCK, I TOO HAD LUCK  
AND MY LUCK NAME IS "HARDWORK".***

# Alumni Anecdotes



Deena

I feel so greatful to be a part of the SCEA .This Association is conducted to improve a person's confidence level in all activities like technical and non technical. One of the best things about college life is that you get a new experience every day. In my college life, along with studying, I and my friends enjoyed a lot of other things. College Life teaches us many things and builds our confidence to face the challenges and struggles in our future. Instead of just focussing on the study, a person must participate in other activities and socialize as much as possible in his/her college life as all these things help in the overall development of a person. I feel happy to be part of these Association.

I feel so privilege to be a part of SVCE's Alumni and I coordinated as a Coordinator in SCEA association. This Association conducted so many Events which are helpful in Technical and Non Technical aspects. I feel very happy to be a part of it and I organised two events this helps me to boost my confidence levels. The time spent in college will be always memorable and un unforgettable throughout my life. I feel very proud to be a student of this College and The Knowledge and Experience gained here will be always helpful in my career. I spent these 3 years like 3weeks with full of Fun and Joy. I got Friends like more than my Family in this College, and The support by Faculty was very special to me they guide me and taught me into a Good way.



Bhanu Prakash

Dear Juniors,

As an alumni of SVCE, I want to share a glimpse of my college experience with all of you. My time at college was a transformative journey that left an indelible mark on my life. It was a place where I not only acquired knowledge but also discovered my true passions and potential.

Academically, college challenged me to think critically and expand my horizons. The lectures, discussions, and research projects were intellectually stimulating, and I encourage you to embrace every learning opportunity with enthusiasm.

Beyond the classroom, my involvement in Shilnaya's civil engineering association was a defining aspect of my college life. Whether it was participating in the association activities or conducting workshops, these experiences shaped my character and provided a platform for personal growth.

Remember that college is not just about academics and extracurricular activities; it's also about building lasting friendships, networking with peers and mentors, and creating memories that will stay with you forever. So, make the most of this precious time, explore your interests, and dare to dream big.

Your journey at SVCE is unique. Embrace it with open hearts and open minds, for the experiences and lessons you gain here will shape your future in ways you can't yet imagine. Wishing you all the best in your college adventure!



K.Hima Bindu

# FACULTY ACHIEVEMENT

He has been recognized as NPTEL Star by NPTEL-SWAYAM Centre IIT Madras. He received Innovative research and dedicated Academician Award and Excellent Professional Achievement Award from The Society of Innovative Educationalist & Scientific Research Professional, Chennai.

- Dr.M.Chittaranjan, received the Award title of “Innovative Technological Research & Dedicated Academician Award” from Innovative Scientific Research Professional Malaysia Accredited with The Society of Innovative Educationalist & Scientific Research Professional in 2018.
- Dr.M.Chittaranjan Recognized as “NPTEL Believer” by NPTEL – Swayam Centre IITM for passing four subjects at a time in a semester
- Dr.M.Chittaranjan Recognized as “NPTEL Motivated Learner” by NPTEL – Swayam Centre IITM for passing 8 exams in four semesters
- Dr.M.Chittaranjan Recognized as “NPTEL Discipline Star” by NPTEL – Swayam Centre IITM for completing more than 50 weeks of learning,
- Dr.M.Chittaranjan Completed 14 NPTEL courses and got two Gold medals, 6 Silver medals and placed 6 times in Topers list.
- Mrs.G.Anusha Successfully completed All modules of National Initiative for Technical Teachers and Training

Dr.M.Chittaranjan published 43 research papers in reputed journals and conferences. He has been published 5 patents and authored three Text Books.

# STUDENT ACHIEVEMENT

KARAVIND BATCH OF 2023 HAD SCORED 263 MARKS IN GATE EXAMINATION



M REDDI SAI PRESENTED A RESEARCH PAPER ON A SIMULATION APPROACH TO INVESTIGATE THE IMPACT OF CROSSING PEDESTRIANS ON TRAFFIC CHARACTERISTICS AT UNDESIGNATED URBAN MIDBLOCK CROSSINGS

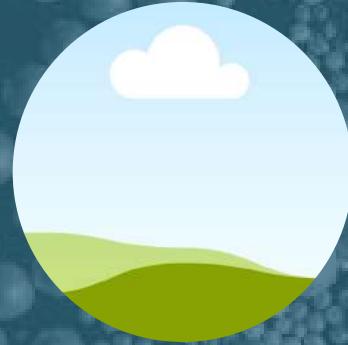


T BENU BHAVISH AND HIS TEAM FROM 2 ND YEAR HAS WON 2ND PRIZE TECHNICAL PAPER PRESENTATION ON 'SELF-HEALING CONCRETE' IN SRI RAMA COLLEGE OF ENGENEERING ON

B. DEVAENDRA AND HIS TEAM FROM 3RD YEAR HAD WON 1ST PRIZE IN KHO-KHO IN TOURNAMENT CONDECTED BY VAAGDEVI INSTITUTE OF TECHNOLOGY AND SCIENCE,PRODDATUR



# DEPARTMENT TOPPERS 2022 & 2023



**Y. SRINIVASULU**  
<sup>th</sup>  
**4 year**



**C. CHARAN**  
<sup>rd</sup>  
**3 year**



**K NAVYA SREE**  
<sup>nd</sup>  
**2 year**



**S MALIK BASHA**  
<sup>st</sup>  
**1 year**

# INAUGURATION

## INVITATION OF THE EVENT



S.V. College of Engineering  
(Autonomous)



DEPARTMENT OF CIVIL ENGINEERING

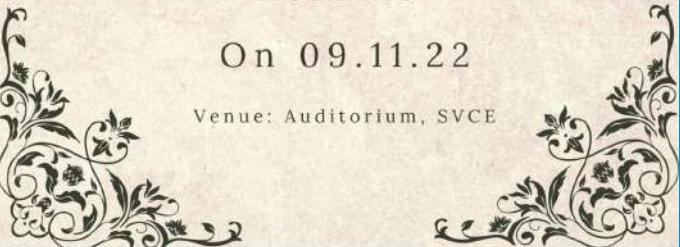
Kindly Join Us  
For Inauguration event of

*Shilanyas  
Civil engineering  
Association*

2022-23

On 09.11.22

Venue: Auditorium, SVCE



## EVENT POSTER



Welcome dance

By

K. SHRIYA SANTOSHI



Event hosted

By

G.H.SAI SHAALINI & C.CHARAN

# welcoming guests

## Inviting Principal



## Inviting HOD



We are about to commence our event by lighting the lamp of knowledge and wisdom. This is a symbolic moment that signifies the dispelling of darkness, and igniting of thought and enlightenment.



speech by hod . . . . . speech by principle



# "ENGINEERING EXCELLENCE UNVEILED: OUR INAUGURAL MAGAZINE"



The atmosphere in the Civil Engineering Department is electric with excitement as we eagerly await the momentous unveiling of our very first departmental magazine by our esteemed principal. Enthusiasm is palpable as students, professors, and staff members alike come together in eager anticipation of this special event.

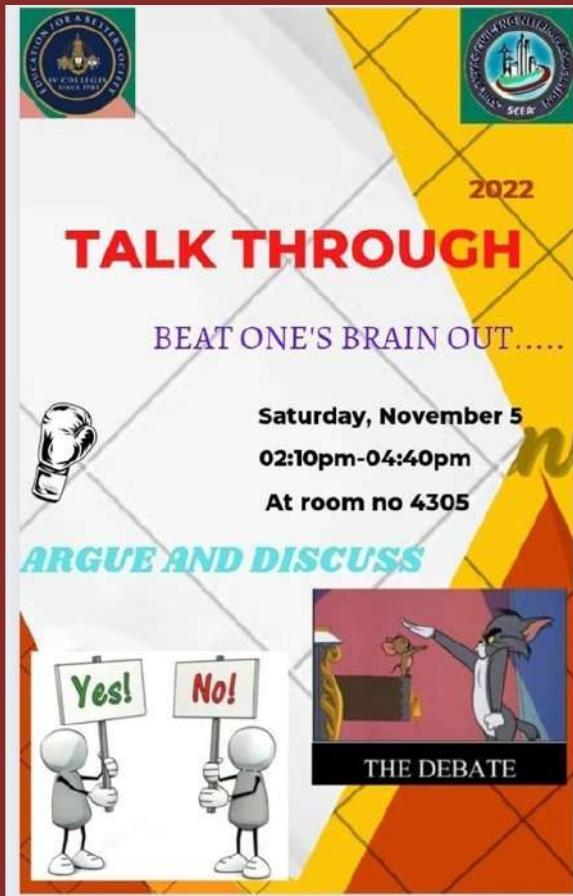
This unveiling represents a significant milestone in the history of our department, and we are thrilled to showcase the exceptional talent and dedication of our students. The pages of the magazine are filled with the fruits of countless hours of hard work and creative endeavor.

As the clock ticks down to the unveiling ceremony, there is a sense of pride and unity that permeates the department. We are all eager to see the finished product, to flip through its pages, and to celebrate our collective achievements in the field of civil engineering. This event marks a memorable moment in our academic journey, one that will be cherished and remembered for years to come. The excitement is contagious, and we are all looking forward to this moment of recognition and celebration!





# DEPARTMENT EVENTS



# TALK THROUGH BEAT ONE'S BRAIN OUT

- The Talk through beat one's Brain out event is conducted on 5th November, 2022 and this event is organised by Reddy prasad and Pallavi.
- The aim of a debate is to convince the opposition that you are right. When the two sides agree on the subject or when one side's arguments are more convincing than the other side that is when the debate comes to a close. In a formal debate, a mediator (a person that has not agreed with the Pro or the Con) will decide who the winner should be. In an informal debate the argument can continue until the time when one side gives up :)
- Through debate, students can develop critical thinking skills by analyzing and synthesizing information from multiple sources and perspectives. It also enhances communication skills, such as expressing ideas clearly, listening, and responding persuasively.
- Classroom debates help students learn through friendly competition, examine controversial topics and "strengthen skills in the areas of leadership, interpersonal influence, teambuilding, group problemsolving, and oral presentation"



# SPORTS



- The Sports event is conducted on 19th November, 2022 and the event is Organised by Vishnu vardhan and Mahimanvitha.
- Sports serve a multifaceted set of objectives that extend far beyond mere physical activity. Firstly, sports provide a platform for promoting physical fitness and well-being. Engaging in sports activities helps individuals develop strength, endurance, agility, and coordination. Regular participation in sports contributes to a healthy lifestyle, reduces the risk of various chronic diseases, and encourages good physical habits that can last a lifetime
- The outcomes of sports participation are multifaceted and encompass physical, mental, and social dimensions. Physically, sports contribute to improved overall health and fitness. Regular engagement in sports activities enhances cardiovascular health, muscular strength, and flexibility. These physical benefits not only enhance an individual's quality of life but also reduce healthcare costs and the burden of lifestyle-related diseases on society.

# SINGING



- The Singing event is conducted on 19th November, 2022 and the event Organised by Pavan Kalyan and Pallavi.
- Singing, as an artistic and expressive activity, encompasses a range of objectives that extend beyond mere vocalization.
- Firstly, singing serves as a powerful means of communication and storytelling. Through song, individuals can convey complex emotions, narratives, and cultural messages. It allows artists to share their personal experiences, societal commentary, or historical perspectives.
- The outcomes of singing are diverse and encompass a wide range of personal, social, and physiological benefits. On a personal level, singing can be a powerful tool for emotional expression and stress relief.
- Singing in a group encourages teamwork and cooperation, strengthening interpersonal relationships. It can also serve as a vehicle for cultural expression and preservation, as communities use singing to pass down traditions and stories through generations.

# BLIND ART



SCEA



Non Technical Event

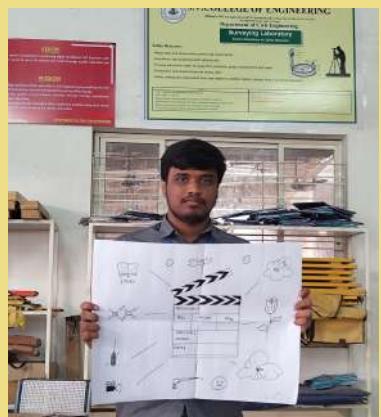
**BLIND ART**

Saturday 3rd December  
2:10pm-4:40pm  
Room no:4305



- The Blind art event is conducted on 3rd December, 2022 and this event is Organised by Y. Bhanu Prakash and Pavan Kalyan.
- Blind art, also known as tactile art or art for the visually impaired, serves several essential objectives in its unique approach to artistic expression.
- Firstly, it aims to promote inclusivity by providing individuals with visual impairments the opportunity to engage with and appreciate art.
- Secondly, blind art seeks to challenge traditional notions of artistry by emphasizing the importance of touch, texture, and spatial awareness over visual aesthetics.
- Blind art, often referred to as art created by visually impaired or blind artists, is a remarkable form of expression that transcends the limitations of sight. In this unique form of artistic creation, tactile and auditory senses take precedence over visual perception.
- Blind art has been such a nice event for pure interaction between Seniors and juniors. By allowing them to communicate their inner world and experiences together for more fun.

# POSTER PRESENTATION



- The Poster Presentation is conducted on 24th December, 2022 and the event is Organised by the Sneha and Vishnu Vardhan.
- Posters are an interactive medium and serve to stimulate dialogue between the viewer and the presenter, which is a key aim of both conference attendance and poster presentation.
- Poster competitions raise awareness of issues and participation programs. Posters provide visual, colourful, simple ways to communicate community issues and events, and are suitable for display in community spaces.
- By preparing and delivering a poster presentation, you can practice how to summarize, organize, and explain your work in a clear and engaging way. You can also learn how to adapt your style and language to different audiences and situations, and how to handle questions and comments effectively.
- Much like in a paper the discussion section on a poster should discuss the results of the study in the context of the hypotheses and possible explanations for the pattern of results. Implications for these findings should also be mentioned.



## TECHNICAL GROUP DISCUSSION



# GROUP DISCUSSION

- The Group Discussion event is conducted on 7th January, 2023 and the event is Organised by Mahimanvitha and Punami.
- The main purpose of a group discussion is to measure group communication skills. Group communication skills deal with how a person in a group is able to communicate with other persons and influence his/her idea on others.
- Group discussions help students develop critical thinking skills, improve communication skills, increase self-confidence, and build teamwork. These benefits make group discussions great tools for teachers who want to encourage student engagement and collaboration.
- Team objectives or group objectives are a list of goals that teams use to measure performance. Many organizations require these goals to be SMART and use this framework as a means to provide direction and avoid chaos.





# SCEA PAPER PRESENTATION

Saturday April 1st  
2:10pm -4:40pm  
Room no 4305



# PAPER PRESENTATION

- The Paper Presentation event is conducted on 1st April, 2023 and the event is Organised by Vishnu vardhan and Sreenu.
- The objective of your presentation is to get people interested in your work, not to explain it to them fully. Organize your talk with these tips: Begin by stating the purpose or goal of your research. Tell the audience why your work is important.
- The outcome of a good presentation should be to have a Concrete Invite to Action for the audience, a well prepared slide deck should be able to change mindsets, energise the audience and sparkle action.
- Create and manipulate simple slide shows with outlines and notes. Create slide presentations that include text, graphics, animation, and transitions. Use design layouts and templates for presentations. Create a PowerPoint presentation.



# INDUSTRIAL VISITS



## 1. AN INDUSTRIAL VISIT TO GANDIKOTA RESERVOIR AND TUNNEL

The Department of Civil Engineering of the college has organized an industrial visit for the students of II B.Tech on 23 NOV 2022 to Gandikota Reservoir and Tunnel located near to Jammalamadugu . The visit was organized with the prior permission of our Principal Dr.N.Sudhakar Reddy. Mr.CM.Prakash, Mr.J.Harish & Mrs.M.Anusha were accomplished for whole industrial visit. Students had visited Gandikota Reservoir is an irrigation project located in Kadapa district of Andhra Pradesh in the Indian state. It receives water from Galeru Nagari Sujala Sravanti Project canal. It is located in Kondapuram village of Kondapuram Mandal.

This project was started as a part of Jalayagnam program. It was inaugurated on 22 September 2013. The reservoir with gross storage capacity of 26.84 tmcft is located in Penna River Basin. This reservoir act as a Balancing reservoir to supply Krishna river water into Penna River basin in Kadapa district, Nellore district and Chittoor district.

Gandikota lift irrigation scheme is also a part of this reservoir. There are two stages in this scheme. The first stage is to supply water to Pulivendula Branch canal and the second stage is to supply water into Chitravati Balancing reservoir



**Mr.UmaMaheswarulu, Deputy Executive Engineer of Gandikota Reservoir.**

**Experience the heart and soul of industrial operations through visits.”**

### At Gandikota Reservoir project:



## 2. AN INDUSTRIAL VISIT TO OWK RESERVOIR

The Department of Civil Engineering of the college has organized an industrial visit for the students of III B.Tech on 21 DEC 2022 to Owk Reservoir and Tunnel located near to Owk, Kurnool district.

The visit was organized with the prior permission of our Principal Dr.N.SUDHAKAR REDDY Mr.CM.Prakash and Mr.K.Muniswamy & Mrs.G.Anusha were accomplished for whole industrial visit. Students had visited owk Reservoir is an irrigation project located in kurnool district of Andhra Pradesh . It receives water from Srisailam Project canal. It is located in owk village.



**OWK RESERVOIR**



SRBC Scheme contemplated to utilize 19 TMC of River Krishna Water from Srisailam Reservoir foreshore to irrigate 1,90,000 acres of semi-arid lands in Kurnool and Kadapa districts. The SRBC Main canal takes off from Banakacherla cross regulator complex and will run for a length of 199 kms before dropping into Mylavaram reservoir comprising two balancing reservoirs at Gorukallu and Owk.

The GNSS Scheme envisages drawl of 38 TMC of surplus flood water from River Krishna from Srisailam Project foreshore to provide irrigation facilities to 7.63 Lakhs acres in Kadapa, Chittoor and Nellore districts besides drinking water facility for a population of 15 Lakhs living enroute the canal.



**OWK TUNNEL**

### 3. AN INDUSTRIAL VISIT TO SATHANUR DAM

The Department of Civil Engineering of the college has organized an industrial visit for the students of IV B.Tech on 12 Jan 2023 to Sathanur dam located near to Tiruvannamalai City. The visit was organized with the prior permission of our Principal Dr. N. SUDHAKAR REDDY. Dr.M.Chittaranjan and Mrs.G.Anusha were accomplished for whole industrial visit. Students had visited 3 is an irrigation project located in Sathanur, Thandarampet Taluk, Tiruvannamalai District, Tamil Nadu.

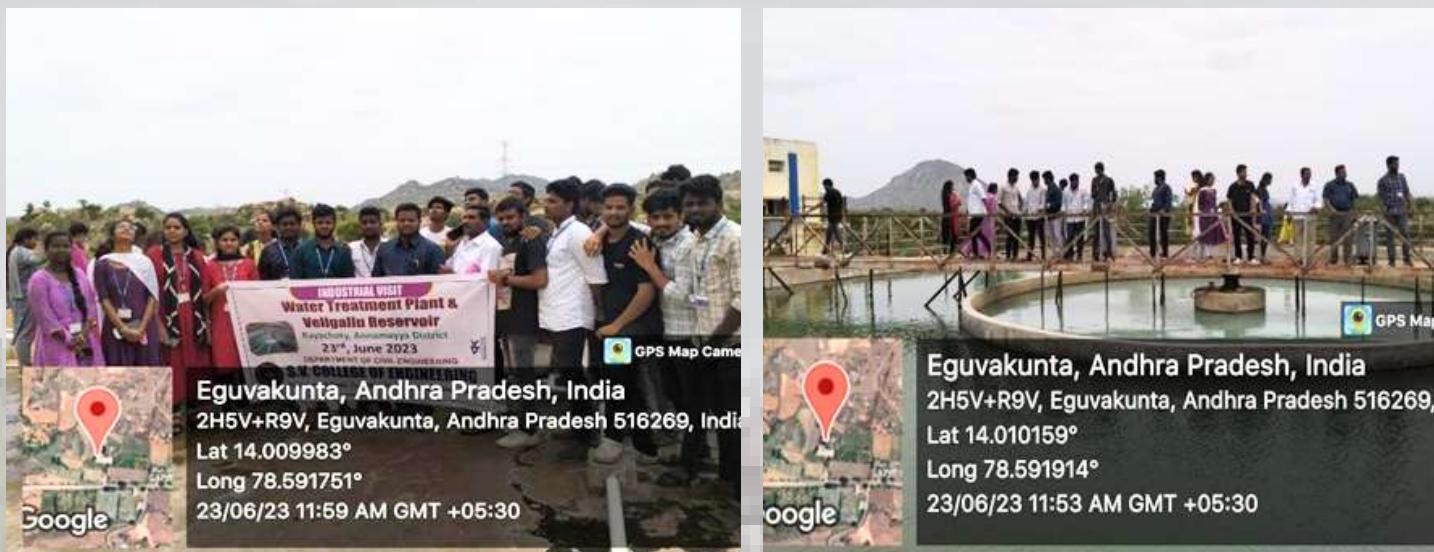


The Sathanur Dam Project was proposed in the First Five Year Plans of India and started in the year 1953. The Dam works are completed in the Second Five Year Plans of India and is operational from 1958. The project was inaugurated by the then Chief Minister of Tamil Nadu K. Kamaraj. This is one of the Major irrigation schemes were planned in Kamaraj's period. The other projects are Lower Bhavani, Krishnagiri Dam, Mani Muthuar, Cauvery Delta, Aarani River, Vaigai Dam, Amravathi, Sathanur, Pullambadi, Parambikulam and Neyaru Dams.



#### 4. AN INDUSTRIAL VISIT TO WATER TREATMENT PLANT & VELIGALLU RESERVOIR

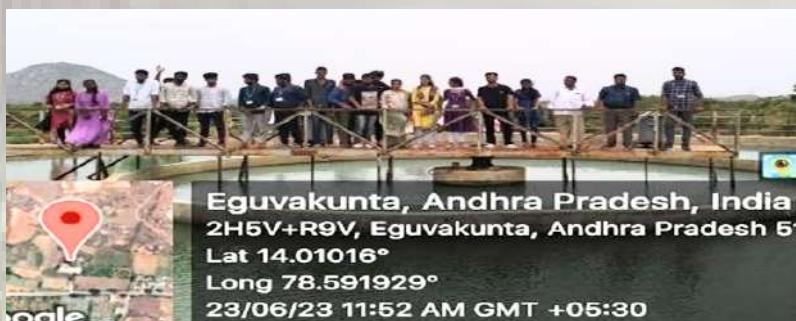
The Department of Civil Engineering has organized an industrial visit for the students of II B.Tech on 23rd JUNE 2023 to "WATER TREATMENT PLANT& VELIGALLU at GAALIVEDU,RAYACHOTY".The visit was organized with the prior permission of our Principal Dr N. SUDHAKAR REDDY, SVCE. Dr.M.CHITTARANJAN and Mr.J.Harish & Mrs. G.Anusha were accomplished for whole industrial visit. Students had visited Water Treatment Plan t& Velligallu Reservoir Located in Gaalivedu, Rayachoti ,Kadapa District .Mr.M.SUDHAKAR NAYAK (Zone4,Deputy Executive Engineer Water Treatment Plant & Velligallu Reservoir, explained plan & purpose of Reservoir .



#### VELLIGALLU RESERVOIR:

Veligallu Project is constructed across Papagni river near Veligallu (V) in Galiveedu (M) of Kadapa District. The contemplated ayacut under the Project is 24,000 acres (2,000 acres in Rabi and 24,000 acres in khariff ) in Galiveedu, Lakkireddi palli and Ramapuram Mandals. The project is also contemplated to provide drinking water facility to Rayachoty town by sparing 0.30 TMC. The full capacity of the project is 4.64 TMC. The Administrative sanction accorded for the project is Rs.208.72 crores, vide G.o.Ms. No.75, dated 29.9.2006.

From VELIGALLU DAM (IN TAKE WELL or PUMP HOUSE) Water travels through pipes from dam to Water treatment plant. Water treatment plants also commonly adjust water pH and add fluoride after the disinfection step. Adjusting the pH improves taste, reduces corrosion (breakdown) of pipes, and ensures chemical disinfectants continue killing germs as the water travels through pipes.



# WORK SHOPS



## Modelling Simple Linear, Multilinear Regression, and Non linear Models



### OBJECTIVES OF WORKSHOP

The workshop titled "Topic Modeling, Simple Linear Regression, and Nonlinear Regression" offered participants a comprehensive overview of essential data analysis and modeling techniques. The workshop commenced with an exploration of topic modeling, emphasizing its applications in uncovering latent themes within textual data. Participants gained hands-on experience in implementing algorithms like Latent Dirichlet Allocation (LDA) and Non-Negative Matrix Factorization (NMF). The second part of the workshop delved into statistical analysis, focusing on simple linear regression, and equipped attendees with the skills to model relationships between variables, interpret regression coefficients, and make predictions. Finally, the workshop concluded with a study of nonlinear regression, demonstrating its utility in modeling complex relationships not captured by linear models. By the end of the workshop, participants had a strong foundation in these critical data analysis techniques, enabling them to apply them effectively in various domains.

# DRONE MAPPING AND DGPS



S V COLLEGE OF ENGINEERING (SVCE)

(AUTONOMOUS)

Karakambadi Road, Tirupati -517 507

## WORK SHOP

on

**Drone mapping and DGPS**

Organizing by  
Department of Civil Engineering

VENUE:- S V COLLEGE OF ENGINEERING  
AUDITORIUM & GROUND

Mulati Harosh  
B.Tech in Civil  
Executive Director

Pusuluri Pullaro  
Masters in Geomatics  
Technical Director

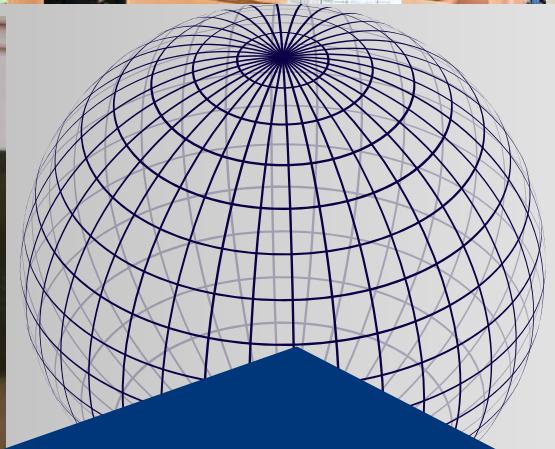
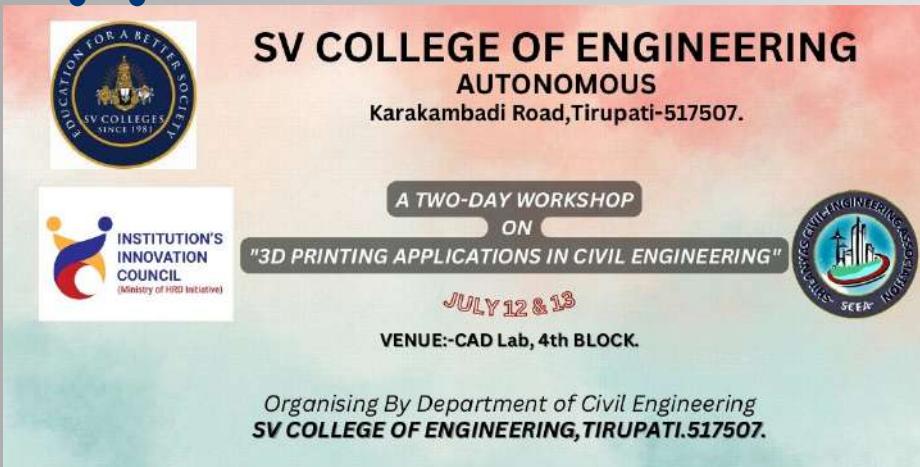
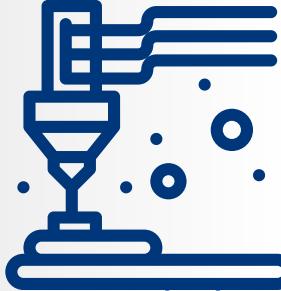
Date  
30-06-23  
&  
01-07-23



## OBJECTIVES OF WORKSHOP

The workshop on "Drone Mapping and DGPS" had two primary objectives. Firstly, it aimed to familiarize participants with the principles and practical applications of drone technology in mapping and geospatial data collection. Attendees were expected to gain a comprehensive understanding of how drones can be utilized for various mapping purposes, such as land surveying, environmental monitoring, and infrastructure inspection.

# 3D PRINTING



## OBJECTIVES OF WORKSHOP

The workshop on "3D Printing and Applications" aimed to accomplish two main objectives. Firstly, it sought to provide participants with a comprehensive understanding of 3D printing technology, covering its underlying principles, processes, and various printing materials. Attendees were expected to gain proficiency in operating 3D printers and to grasp the intricacies of designing 3D models for additive manufacturing. The objective was to empower participants with the practical knowledge needed to navigate the entire 3D printing workflow effectively.

Jointly Organised by  
Department of Civil Engineering, SVCE & Ready Mix Manufacturing  
Concrete Association.

## SEMINAR ON

" BEST PRACTICES IN USAGE OF READY MIX  
CONCRETE FOR CONSTRUCTION "

 04:00 PM  
16-12-2022, Friday

VENUE :  
AUDITORIUM



SPEAKER:

Dr. N V RAMANA RAO,  
Director, NIT Warangal.

Convener : Dr. M Chittaranjan  
Co-Convener : Mr. V Mahesh

[www.svce.edu.in](http://www.svce.edu.in)

# SEMINAR ON RMC CONSTRUCTION

Seminar on " Ready Mix Manufacturing Concrete" was organized by Department of Civil Engineering.. The main objective of the Seminar is to provide a basic idea and encouragement to students about RMC.

The Seminar report discusses the properties, and applications of Ready Mix Concrete. Ready-Mix Concrete is a type of concrete that is manufactured in a factory or batching plant, according to a set recipe, and then delivered to a worksite, by truck-mounted transit mixers. This results in a precise mixture, allowing specialty concrete mixtures to be developed and implemented on construction sites.

The first ready-mix factory was built in the 1930s, but the industry did not begin to expand significantly until the 1960s, and it has continued to grow since then. Ready Mixed Concrete, or RMC as it is popularly called, refers to concrete that is specifically manufactured for delivery to the customer's construction site in a freshly mixed and plastic or unhardened state. Concrete itself is a mixture of Portland cement, water and aggregates comprising sand and gravel or crushed stone in traditional work sites, each of these materials is procured separately and mixed in specified proportions at the site to make concrete.

"THE SKY, AS DUSK FALLS IS  
ALSO PRETTY SPECTACULAR.  
BUT IT'S THE DARK, CRISP  
CONDITIONS THAT BRING  
OUT THE LIGHTS"

Ready-Mix Concrete is bought and sold by volume-usually expressed in cubic meters RMC can be custom-made to suit different applications. Ready Mixed Concrete is manufactured by computer-controlled operations and transported and placed at the site using sophisticated equipment and methods. RMC assures its customer's numerous benefits. The growth of RMC is predominantly driven by demand from the metro cities. RMC is particularly used when building activity is located in congested sites where small space is available for siting the mixer and for stockpiling of aggregates and for the construction of high rise building.



Organized by  
**Department of Civil Engineering**

## SEMINAR ON

## "PLANNING FOR RAIN WATER HARVESTING"

11:00 AM to 12:00 PM  
08-12-2022, Thursday

**VENUE :**  
**PLACEMENT SEMINAR HALL**



**SPEAKER:**

**C JANARDHAN SWAMY**  
Assistant Executive Engineer,  
O70 Deputy Executive Engineer (Raniswaram)  
Kozhikode, 14, TTD Admin. Annex Building  
K.T.Road, Tirupati.

**Convener : Dr. M Chittaranjan  
Co-Convener : Mrs. V R Sai Devaya**

www.svce.edu.in



# SEMINAR ON RAIN WATER HARVESTING

Seminar on "Planning for Rain Water Harvesting" was organized by Department of Civil Engineering.. The main objective of the Seminar is to provide a basic idea and encouragement to students about harvesting of rain water.

Resource person DR C JANARDHAN SWAMY explained about Importance of rain water, collecting and storage of rain water, different techniques adopted for storage, filtration and designing of rain water harvesting system. He gave the clear insight of proper storage techniques of water. He also explained the step by step design procedure for individual levels of harvesting system for filtration. He opined that students must focus on arrangement of rain water harvesting systems at their homes for future needs.

He also explained about the advantages and disadvantages of rain water harvesting. He also gave practical examples of rain water harvesting systems of hand bores, trail pits etc.

At the end, resource person clarified the queries raised by the students in rain water harvesting system.

"RAINWATER HARVESTING IN CIVIL ENGINEERING IS THE ART OF CAPTURING NATURE'S GIFT AND USING IT WISELY TO BUILD A SUSTAINABLE FUTURE.

Rainwater harvesting is a sustainable practice of collecting and storing rainwater from rooftops or catchment areas. Its benefits include water conservation, reduced stormwater runoff, improved water quality, cost savings, self-sufficiency, and drought mitigation. It also has positive ecological impacts by replenishing aquifers and reducing environmental stress. The process involves catchment areas, conveyance systems, storage tanks, filtration, and distribution. Maintenance is vital for system functionality. Rainwater harvesting is particularly valuable in arid regions and can reduce reliance on centralized water supplies. Compliance with local regulations and water quality considerations are essential for successful implementation.





# SV College of Engineering Tirupati

Department of Civil Engineering  
organizes a Webinar on

**"A novel and eco-friendly approach to  
treat wastewater"**

by



DR P. RAJASULOCHANA

Professor-Research

Saveetha University, Thandalam, Chennai

**November 26<sup>th</sup> 2022, 10:00 AM – 11:00 AM**

Meet Link: <https://meet.google.com/frb-uhsd-fnr>

**Convenor:**  
Dr. M. Chittaranjan  
Professor, Head

**Co-Convenor:**  
Mrs. G. Anusha  
Assistant Professor

water come from?

At the end, resource person clarified the queries raised by the students in waste water contaminators.

Resource person DR C JANARDHAN SWAMY explained about Importance of rain water, collecting and storage of rain water, different techniques adopted for storage, filtration and designing of rain water harvesting system. He gave the clear insight of proper storage techniques of water. He also explained the step by step design procedure for individual levels of harvesting system for filtration. He opinioned that students must focus on arrangement of rain water harvesting systems at their homes for future needs.

He also explained about the advantages and disadvantages of rain water harvesting. He also gave practical examples of rain water harvesting systems of hand bores, trail pits etc.

At the end, resource person clarified the queries raised by the students in rain water harvesting system.

# WEBINAR ON ECO-FRIENDLY APPROACH TO TREAT WASTEWATER

Seminar on "Planning for Rain Water Harvesting" was organized by Department of Civil Engineering.. The main objective of the Seminar is to provide a basic idea and encouragement to students about harvesting of rain water. Industry Expert Talk on "A novel and eco-friendly approach to treat wastewater" was organized by Department of Civil Engineering.. The main objective of the Webinar is to provide a basic idea and encouragement to students to treat waste water in to eco-friendly.

Resource person DR P. RAJASULOCHANA explained about Importance of Wastewater, their applications in different fields such as Industry, Agriculture sector etc. She gave the clear insight of her work experience in different companies. Especially she shared about his research project on wastewater treatment design experience. she also explained the levels and nature of embedded environment. she opinioned that students must focus on their final project with water resource Engineering, which helps them to enter into the sector.

She also explained about the waste water Treatment-methods which will be useful and more preferred by the industry. She also gave task to students to work out during their free time to increase their knowledge in natural and manmade environment. Where does waste

prof rajasulochana is presenting

**Effect of insecticides on environment.**

- Insecticides can accumulate in fatty tissue of organism through plants and vegetables, which has a disastrous effect.
- The target insect develops resistance against insecticides after a period of time.
- The effectiveness of insecticides decreases in manufacturing industries insecticides.
- The workers are affected by slow poisoning effect of the insecticides.

**Effect of fungicides on environment.**

- Fungicides in the soil increase the number of harmful bacteria and decrease the population of useful fungi. Certain fungicides are toxic to soil arthropods, continue to affect fungicides, making the pest resistance to them.
- Fungicides are responsible for human poisoning and death. This happens when injection of flour and wheat seed treated with mercury with lead to mercury poisoning.

10:33 AM | A Novel and Eco-Friendly Approach to Tre...

prof rajasulochana is presenting

**Natural Environment**

**What is Natural Environment?**

- Natural environment is in which an organism lives naturally on the earth.
- In other words, wilderness is called natural environment of the organisms.
- Wilderness means the organism lives and interacts with natural atmosphere such as earth, rocks and air etc.

A Novel and Eco-Friendly Approach to Tr...

# ALUMNI SEMINAR

## HOW TO REACH ONSITE FROM CIVIL ENGINEERING JOBS



ORGANISED BY DEPARTMENT OF CIVIL ENGINEERING

DreamBIG

### ALUMNI SEMINAR ON “HOW TO REACH ONSITE FROM CIVIL ENGINEERING JOBS”

TIME: 01:00PM

DATE: 19-11-2022, SATURDAY

VENUE:

PLACEMENT SEMINAR HALL



ALUMNI SPEAKER

**B VENKATA SIVA KUMAR**  
DETAILER, TEKLA STRUCTURES DGS  
TECHNICAL SERVICE PVT.LTD

BATCH 2017-2021

CONVENOR : DR. M CHITTARANJAN

CO-CONVENOR : MRS. V R SAI DEVAYANI

[www.svce.edu.in](http://www.svce.edu.in)

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# ALUMNI SEMINAR

## CAREER OPPORTUNITIES AFTER B TECH IN CIVIL ENGINEERING

SVCE TIRUPATI  
EDUCATION FOR A BETTER SOCIETY

ORGANISED BY DEPARTMENT  
OF CIVIL ENGINEERING

### SEMINAR ON “CAREER OPPORTUNITIES AFTER B.TECH”

29-10-2022,  
10:30 AM TO 11:30 AM

PLACEMENT  
SEMINAR HALL



ALUMNI SPEAKER

P J THRINADH SAI

BATCH: 2018-2022

CONVENOR: DR. M CHITTARANJAN  
CO-CONVENOR: MRS. V R SAI DEVAYANI

[www.svce.edu.in](http://www.svce.edu.in)

CE Department has organised an Alumni Seminar on the theme “Career Opportunities After B.Tech” on 29th Oct 2022 from 10:30 pm to 11:30 am. The Speaker of this program was Mr. P J Thrinadh Sai, Trainee, Amararaja Industries, Tirupathi, an alumnus (Batch2018-2022), Programme started with welcome address by our beloved HOD Mr. Dr.M. Chittaranjan sir which was followed by highly motivational lecture delivered by the speaker. The interaction was to guide and imbibe the students to reach jobs in civil engineering field.

Speaker suggested some tips to get success in life and in career. Speaker groomed our students with his productive insights on how the civil engineering will be the big thing among all engineering fields. Speaker also shared his beautiful and special moments he spent in our college.

Around 80 students attended the programme. Few of the questions from the audience were taken up by the speaker during the Q & A session. The variety and range of questions raised show that the participants took an active part in the programme. The programme was successfully coordinated and conducted by Mrs. V R Sai Devayani, Alumni Coordinator, Mr. C M Prakash . The interaction ended with the department vote of thanks by M Reddy Sai, III-CE, SVCE, Tirupathi to the Authorities, speakers, students and to the organizing team.



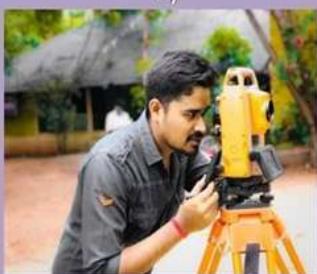
# ALUMNI SEMINAR

## HOW TO CRACK CIVIL SERVICE EXAMINATION

SV College of Engineering  
Tirupati

Department of Civil Engineering  
presents Alumni Webinar  
on  
"How to crack Civil Service  
Examination"

by



**Er. M Bhaskar**  
UPSC Aspirant

Dec 14<sup>th</sup> 2022, 03:00 – 04:00 PM

**Who Can Attend: Students and Faculty**

**Convener: Dr. M. Chittaranjan**  
Professor, Head  
Dept. of Civil Engineering

**Co-Convener:**  
Mrs. V R Sai Devayani  
Assistant Professor  
Dept. of Civil Engineering



Civil Engineering Department has organized an Alumni Seminar on the theme "How to crack civil service examination" on 14th DEC 2022 from 03:00 pm to 04:00 Pm. The Speaker of this program was Mr.BHASKAR (UPSC ASPIRANT), an alumnus (Batch2014-2018), Programme started with welcome address by our beloved mam Mrs. G.ANUSHA which was followed by highly motivational lecture delivered by the speaker. The interaction was to guide and imbibe the students to crack the Civil service examination in civil engineering field.

Speaker suggested some tips to get success in life and in career. Speaker groomed our students with his productive insights on how to crack the Civil service examination will be the big thing among all students. Speaker also shared his beautiful and special moments he spent in our college.

Around 80 students attended the programme. Few of the questions from the audience were taken up by the speaker during the Q & A session. The variety and range of questions raised show that the participants took an active part in the programme. The programme was successfully coordinated and conducted by Mrs. V R Sai Devayani, Alumni Coordinator. The interaction ended with the department vote of thanks by M Reddy Sai, III- CE, SVCE, Tirupathi to the Authorities, speakers, students and to the organizing team.



# HARIVILLU



## UGADHI



# ENGINEERS DAY

Engineers' Day is celebrated on September 15th in India to commemorate the birth anniversary of Sir Mokshagundam Visvesvaraya, a renowned Indian engineer and statesman. He was known as the "Father of Modern India" for his contributions to the development of the country's infrastructure. He had successfully designed and constructed several river dams, bridges and revolutionized the irrigation system all over India.

Civil department celebrated Engineer's Day on 15th September 2023 in honor of Dr.M.Visvesvarayya, a true gem of India and to identify the great works done by our hardworking engineers each year. The main objective of the event was to encourage self -evaluation, motivation, effective communication and team building among the students.

Dr.N.Sudhakar Reddy Sir, Principal, SVCE addressed the students and advised them to take Dr.M.Visvesvarayya garu as their role model, and work serve as a shining example of dedication, innovation, and service to the nation. His contributions continue to impact our lives positively, and his legacy will forever inspire generations to come. Let us remember and honor this great soul, a true Bharat Ratna, and strive to carry forward his vision of a prosperous and modern India.

Dr. T.Chandrasekhar Rao, Vice Principal, SVCE delivered his speech about Dr.M.Visvesvaraya Garu's life which is a testament to the power of vision, perseverance, and service. His contributions continue to shape the future of our great nation, and his legacy will forever inspire generations to come.

Dr. M.Chittaranjan, HOD, CE department added that career planning is an ongoing process during engineering and students need to be strong technically.

On this occasion, best seminars were presented by the students – G.Vishnu Teja, M.V.Devi Prasanna, G.Likitha on the Kinetic Footfall, Prefabrication and their implementation. Department of CE organized many other events like Technical Quiz, Poster Presentation, Painting, CAD Modeling and Essay Writing competitions indoctrinate viable courage among the promising engineers. Faculty coordinators played a major role in collection of topics.



# EVENTS ON ENGINEERS DAY

## Paper presentation



## Poster presentation



## Auto CAD



## Painting competition



## Quiz competition



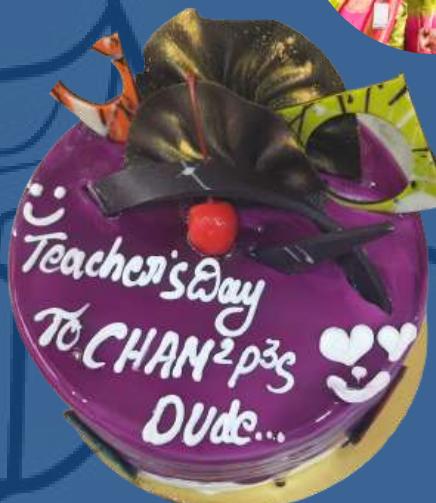
# TEACHERS DAY CELEBRATIONS

As a student, our surprise cake-cutting event on Teachers' Day for the 2020-2024 batch was a heartwarming gesture filled with gratitude and admiration. It was a moment when we, the students, came together to express our deep appreciation for the tireless dedication and unwavering support our teachers had provided us during our educational journey.

In those few moments before the cake was cut, our teacher's smiles reflected the impact they had made on our lives. Each slice of cake symbolized the sweet memories and valuable lessons they had shared with us. It was more than just a celebration; it was a token of our respect and the strong bond we had developed with our mentors.

As we gathered around the cake, the joy and camaraderie in the room were palpable. It wasn't just about the delicious cake, but about the shared sense of purpose and the acknowledgment that teachers are the guiding lights in our educational voyage. We celebrated not only their knowledge but also their patience, understanding, and encouragement.

The cake-cutting ceremony was a reminder that education is a journey we undertake together, with our teachers as our guiding stars. It was a moment of unity, where students from the 2020-2024 batch came together to celebrate the incredible teachers who have shaped our lives and inspired us to reach for the stars.



## A small note to our beloved Faculty ❤



దేవుడిని కూడా వెన్నకినెట్టే ముగ్గురు వ్యక్తుల్లో ఒకరు..

అమ్మ అని ఎలా రాయలో, నాన్న అనే మాట వెనుక ఎంత బాధ్యత దాగుందో ఉపదేశించే ఉపాధ్యాయులకు శతకోటి నమస్సుమాంజలి...

రాళ్ళని కరిగించే రాగం కన్నా...

రాత్రికి జీవం పోసి దేవుడిని చేసిన శిల్పి కన్నా...

రాతల్ని, మాటల్ని, విలువలని, వ్యక్తిత్వాన్ని నేర్చిన గురువు ముందు ఎప్పటికీ సమానం కాలేరు...

ప్రతి కన్ను కనే కలకి, కలం ఒకటే తొలి మెట్టు..

అలసిపోయే పసి మనసుకు

గురువు అనుభవాలేగా అసలైన పట్టు..

వెలుగుగా తను మెరిసి, చీనుకుగా నిను మలచి మరచిపోలేని రంగుల రంగస్థలం అంటే ఎంటో నేర్చించి..

నీదారి ఏదైనా, నీ తీరు ఏదైనా..

తన స్థాయి మరచి, నీ స్థాయికి దిగొచ్చి, పాశాలతో నిన్ను మెప్పించి, నొప్పించి..

నీ పాశాలను సరైన దారిలో పెట్టి, తను అక్కడే ఉంటు నిన్ను గొప్ప పీశాలకు పంపించాలని తపన పదే ప్రతి గురువుకు...

**Wishing a very Happy Teacher's day ❤**

FROM CIVIL DEPARTMENT

IV YEAR STUDENTS

2020-2024



# Do We Truly Die When People Forget Us?"

In the bustling world of academia, where textbooks, lectures, and deadlines rule our lives, there's a profound truth that often escapes our attention: the idea that a person dies when people forget about them. As students, we are constantly learning, growing, and connecting with a multitude of individuals. But what does it mean for us, as students, to ponder this age-old notion?

## The Echoes of Our Impact

It's easy to get lost in the sea of faces on campus, especially in large universities. Professors, classmates, friends, and acquaintances come and go. We engage in countless conversations, collaborate on projects, and make memories. But in the whirlwind of assignments and exams, it's vital to remember that every interaction leaves an imprint, a mark that can endure long after we've moved on to the next semester. Consider the passionate professor who ignited your love for a subject. Their teachings resonate within you, shaping your academic journey. Or think of the friend who offered unwavering support during tough times. Their kindness still warms your heart. These individuals, even if they've physically moved away or you've lost touch, continue to live within your memories, influencing your thoughts, decisions, and aspirations.

## The Ripple Effect of Ideas

As students, we are also custodians of knowledge and ideas. We absorb information from lectures, books, and discussions, and we contribute our own perspectives to the academic discourse. When we engage in conversations, ask questions, or share our insights, we create ripples in the vast ocean of human understanding.

Think of the groundbreaking discoveries and profound philosophical shifts brought about by students throughout history. Einstein, Zuckerberg, and countless others started as students with big ideas. Their contributions continue to shape our world, and they will be remembered as long as their ideas continue to influence our lives.

## Leaving a Lasting Legacy

So, how can we ensure that we don't truly die when people forget about us? It's about embracing the power of our actions and interactions as students. Here are some ways we can make our mark:

1. **\*Be Present:\*** Engage actively in your academic and social life. Make meaningful connections with professors, peers, and mentors. Attend events and participate in discussions. Show up not just physically, but intellectually and emotionally.
2. **\*Share Knowledge:\*** Don't hoard knowledge; share it generously. Whether it's helping a struggling classmate or contributing to a research project, your insights can shape the future of your field.
3. **\*Kindness Matters:\*** Acts of kindness leave a lasting impact. Be the friend who listens, the classmate who offers help, and the ally who stands up for others.
4. **\*Pursue Passion:\*** Find your passion and pursue it relentlessly. Your enthusiasm will not only make you memorable but also inspire others to follow their own dreams.
5. **\*Document Your Journey:\*** Write, create, or contribute to projects that can outlast your time as a student. Share your experiences and insights through blogs, papers, or art.

## Conclusion

As students, we are not just passive participants in the academic world; we are architects of our own legacies. We have the power to ensure that we do not truly die when people forget about us. Our impact, whether through personal connections, the exchange of ideas, or the pursuit of passion, can echo through time, influencing future generations and contributing to the ever-evolving tapestry of human knowledge and experience. So, let's make our time as students count and leave a legacy that endures, reminding the world that we were here and made a difference.



By  
R. Tej Kumar

# MY MOTHER THE WINNER OF MY HEART

అమ్మా.. ❤

ఏ పూజలో చేసి నన్న కన్నావ్ అని మురిసిపోకే అమ్మా..  
ఏ జన్మలో ఏ పుణ్యం చేశామో మరి ఈ అమ్మని పొందామిలా..

ఒంటరిగా ఏ కన్నా, చూడదుగా ఆకాశం.

నీ కన్నుల లోకం లో ప్రతి స్వప్పుం మాకోసం..  
కోపంలో కూడా ప్రేమని చూపించి ప్రేమ అన్న మాటకి అర్థం చెప్పేసావే..  
కోరుకున్న జీవితానికి బాటలు, మాటలు అందించావే.. అమ్మా.. ❤

నాలోని లోపాలు షాపాలేం కాదు అంటూ లోలోపలా నీ ధైర్యమే..  
లోకాన్ని కూడా జయించ గలనంటే నమ్మేసే మా పిచ్చి మంగమ్మవే..

నీ పెదవుల చిరునవ్వు అయ్యే వరము ఉంటే ఇచ్చి  
ప్రతి క్షణం మరో పుట్టుక నివ్వమ్మా.  
పాలు పట్టి పెంచాను, ఏ పాపపు పనికి పోనే..  
పేరు పెట్టి పిలిచావో.. ప్రతి చోటా వినిపించే మాటను అవుతానే.

ప్రతి అమ్మకి ప్రతి కొడుకు జీవితం లో ఇవ్వగలిగే ఒకే ఒక  
బహుమతి అమ్మా అని పిలవడం మాత్రమే....



Mallela Reddi Sai  
21BF5A0102

# RESILIENCE



Being a simple girl, I never even dreamt of me becoming a Content Creator that I'm today. It all started with a little thought, to express myself to the world. Initially I have got no support to start a page. As the days passed there's no big growth to my page. Sometimes I lost hope and thought of quitting but my mother never made me to fall. Even When the entire world leaves you, there's a person left and clapping at you , she's my Mother in my life. My mother invested all her love and support on me and my Page with a bundle of joy and smiles. One day I posted a short video of Transportation Engineering lab in which our entire class along with my department faculty support did survey and that video got a huge reach,it became the turning point to my page. Even today, the views are counting above 350k+.From then people started recognising me & my page and even people come to me, ask about my page,that brings a bright smile on my face.I recently started a YouTube channel too and I'm receiving good responses in YouTube too. I know this is a small achievement and there's a lot to achieve. My mother is proud of me& my siblings and I'm super proud to share about her and she's my hero who made me to be an all-rounder. Everyone has some skill within them, just bring it out and make everyone to know about you and let your loved ones be proud of you.

Finally, I would like to thank my family from the bottom of my heart for having trust in me and believing that I'm no more lesser than a son for them. I thank my friends for playing a vital role in this BTech journey which gave me a roller coaster experience.

Believe in Yourself,It will introduce the otherside of yourself to you

R RUPA SRI  
20BF1A0151  
IV YEAR



# THE....." "E"..... LIFE!!!

In this world of Emails, E-Ticket, E-paper, E-Recharge, E-Transfer.....Never forget "E-shwar(God). Who makes e-verything E-asay for,e-verything,e-veryday.

"E" is the most Eminent letter of the English alphabet.

Men or women don't exist without "E". House or home can't be made without "E". Bread or Butter can't be found without "E".

"E" is the beginning of "existence "and the end of "trouble " it's not all in "war", but twice in 'peace'

It's a once in 'hell's but twice in 'peace'!

It's once in 'hell' but twice in 'heaven'.

"E" represented in 'Emotions'. Hence, all emotional relations like father, mother, brother, sister, wife and friends have 'e'in them.

"E" also represents 'Effort' & 'Energy', hence to be 'Better ' from Good both "e's are added.

Without "e" we would have no love, life, wife friends or hope.

You 'see', 'hear', smell or 'taste' as 'eye', 'ear', 'nose' and 'tongue ' are incomplete without "e".

Hence Go With "E but without E-Go



g.t'E'ja  
IV YEAR  
20BF1A0119



# Her Dream

There is no need for Once up on a time, it is a dream to every baby Girl to travel around India and visit Kaasi atleast once in a life time. I'm the same 5'8", 72kg, 38 years old baby women. Like once in a blue moon, these wishes come true or most of the time take rest on the corners of ones own diaries. By the way I'm Chandrika, my aunt used to tease me by calling as "The Black moon" of chennai.

Whenever she calls me that, 3rd world war will run in my mind while I was attacking with all the flour in the kitchen. I want to shout how can a Chennai girl like me look like a Mumbai model but never did.

I had experience of 10 years in teaching Social Studeies to High School.

One day, when I was in the class approximately a month ago, one former student came to me and explained how he was coping up with life.

He works in a travel company called Yatra, where foriengers used to engane mostly. And he was doing this from last 2 years. He showed all the photos he took while travelling.

I was stunned because he was the dumbest among his fellow friends then, but see that's life,

we cannot predict how it takes us to the place called Destiny.

he said, "Madam you're main reason for who I'm now, you inspired me about travelling. But I took me many years to understand the words you said.

And I still remeber the dream you have which you mostly mentioned whenever free in class hours".

Uhhh, He still remember about my dream on which I couldn't stand. Later that day, I heard that many of my friends had posted stories of their travellings to Kedarnath, Kasi, Humpy etc..

Literally I cried with both Pride and Prejudice. In a philospher saying, " Teacher is the best influence that a student wanted most".

But, now all I was thinking is about how my teacher Ramasundhar sir influenced me. Even though it aged 14y, still yet a wish.

Did I win or lose ??

And that Wish finally becoming true.. Last night my daughter shared a good news about her higher education in NIT calcutta. I convinced both my daughter and husband to visit Kaasi alone. Added some tears for maintaining emotional frequency. This is the last day before me getting my dream come true. All I relish is not about Kaasi, but how a student of mine made me think of this big thing in my life.

Like people say, "Tongue find no word when right thing happen unexpectedly". Finally,

I'm in Kaasi..



Mallela Reddi Sai  
21BF5A0102

# సిరివన్నెల

My Inspiration.

నన్ను కదిలించే మీ పాటలు.. ఒళ్ళు పులకించే ఆ మాటలు..  
నేను లోకం చూసేలా చేసిన అమ్మ కంటే, నాలోని లోకం నాకు  
తెలిసేలా చేసిన ఆది గురువుగా మీరే నాకు గొప్ప.

నొప్పి లేని నిమిషం ఏదని అని ఆడిగిన మీ ఆలోచన ఈరోజు 8వ  
తరగతి పుస్తకంలో చూసి చాలా గర్వపడుతున్నాను. అదే  
వయసులో మొదటిసారి ఆ పాట నేను పాడాను, ఇప్పుడు  
సుమారు 6 ఏళ్ళ తర్వాత ప్రతి ఒకరు పాడుతున్నారు..

ప్రేమ అనే మాటకి ఎన్నో డెఫినిషన్ లు ఇచ్చి చివరకి అదే ప్రేమను  
చెప్పేకి అసలు పదాలే లేవు అనేశారు.

జగమంతా నా కుటుంబమే కానీ ఏకాకిగా కూడా ఉండాల్సి  
వస్తుంది దానికి సిద్ధంగా ఉండాలి అని చాటిచెప్పారు.

నిన్నా నన్ను కన్నప్పుడు మన తల్లుల నొప్పుల తీరోకటే, మనసు  
తడిస్తే నీనా చెంపలు నిమిరే వెచ్చని కన్నిరు ఒకటే... మరి ఏంత్రా  
మీ బాధ ఎందుకు ఇంకా ఆ బేధాలు అని కొణ్ణి చెప్పారు.

అన్ని నువ్వే, బలమూ నువ్వే, బలగం నువ్వే, ఆట నీదే, గెలుపు  
నీదే, సందేహం నీకే, సమాధానం నువ్వే...

దేవుడినైనా, జీవుడినైన ప్రశ్నించే తీరు ఒకటే...??  
బూడిద ఇచ్చే వాడిని ఏం అడిగేది...!  
గాలి వాటు గమనానికి, కాలి బాట దేనికి..? గొర్కె తాటు మందకి నీ  
జ్ఞానబోధ దేనికి..?

ఇంకా మీరు రాసిన విరహ గీతాలు.. అందులో దాగున్న ఫిలాస్ఫీ..  
అనురాగం కొనగలిగే ధనం ఉండా ఈ లోకం లో...  
మమకారం విలువ ఎంతో మరిచవా సిరి మైకంలో..

అంటే ప్రతి ఎమోషన్ ని అలా పీక్ కి తీసుకొని వెళ్ళిపోతారు..  
అర్థం కాని పుస్తకమే అయినా కానీ ఈ ప్రేమ  
జీవిత పరమార్థం తానే అనిపిస్తుంది ఈ ప్రేమ..

అలాగే ఇంకోసారి ఇలా అన్నారు,  
రోటీ, కవడ, రూమూ అన్ని rupee రూపాలే...

మగాడిని తూచేది వాడి పుర్ణ బరువేనా??



మనసు కరిగి, కదిలి, కావేరి లాగా పారి, ప్రతి ప్రశ్నని తడిపి నీ దైన  
అడవిలోకి తరలి రాదా తనే వసంతం అనే మాట గుర్తు చేసేలా  
రాయడం మీకు ఒకరికే సద్యమేమో....

విద్యేషం పాలించే దేశం ఉంటుందా, ప్రేమను మించిందా బ్రహ్మిస్తుం  
అయినా..

ఎక్కిల్లే పెట్టి ఏడిస్తే కష్టం పోతుందా..! సరదాగ ఒక నవ్వు నవ్వి  
చూడు అందమైన జీవితాన్ని దువ్వి చూడూ అని చెప్పి,  
రాతిరి అందాలు మపించేకి మక్కలు,  
బ్రతుకు తీపి తెలిపేందుకే చిక్కులు అన్నారు..

తెలివిగా వెయ్యరా పాచిక ఒళ్ళో వాలదా మేనక. అంటే తెలివితో  
విదైనా ఆఖరికి స్వర్ణాన్ని కూడా చేరచ్చు అని చెప్పేశారు.

జోల పాటైనా, గాలి పాటైనా.. ప్రతి మాటలోను విభిన్నమైన విశేషం  
ఉండే ఉంటుంది.

నమ్మకు నమ్మకు ఈరేయిని కమ్ముకు వచ్చిన ఈ మాయని..  
ఉదయం కాగానే తాజాగా పుడుతూ ఉంటా..  
అలా అని అన్ని ఇలాంటి పాటలేనా అంటే, అసలు కాదు ఒక అమర  
ప్రేమికుడు, స్నేహితుడు ఉన్నాడు ఆయనలో..

ఎటో వెల్లిపోయింది మనసు.. ఓ చల్లగాలి ఆచూకి తీసి కబురివ్వు  
చుట్టరికం ఉండా చెట్టులో, పిట్టకేరో ఏంలేకపోతే గూడుకడితే తప్పా

మరో జన్మలో అయినా, మిమల్ని కలిసి మీ దగ్గరే ఉండేలా ఓ వరం  
ఉంటే కోరుకుంటూ ఈ జన్మంతా ప్రతికేస్తాను

ఇట్లు,  
మీ పాటతో మిమల్ని గురువు చేసుకున్న  
బక ఏకలవ్య శిష్యుడు

## న(నా)న్ను(న్న) నడిపించే మార్గం

నాన్న...ఈ పలుకు అంటే కష్టం గా భావిస్తారు...ముఖ్యంగా యుక్త వయస్వులో ఉన్న అబ్బాయిలందరూ అదే భావనలో బతుకుతూ ఉంటారు...ఆ గాడిలో నేను పడను ఏమో అని అనుకున్నా...కానీ వయస్వ ప్రభావం ఏమో కానీ కొన్ని సార్లు ఏంతో ఇష్టం గా అనిపించే నాన్న కూడా తన మాటలతో చాలా కష్టం గా అనిపించేవి...కనిపించేవి...

చిన్నతనంలో నాన్నని హత్తుకుని పడుకోకపోతే నిద్ర పట్టేది కాదు..కానీ ఇప్పుడు నాన్నకి దూరంగా ఇంకో పడక గదిలో ఫోన్ చూస్తూ పడుకుంటే కానీ నిద్ర పట్టడం లేదు...ఇది వయస్వ ప్రభావమా? మనలోని ప్రభావమా?

నాన్న ఒక్క పూట మన ఆకలి తీర్చడానికి మనల్ని వదిలి పనికి వెళ్తే...తిరిగి ఒచ్చేదాకా ఆకలి తో అలమటించే వాళ్ళ లాగ ఎక్కిలు పెట్టి ఏంచ్చేవాళ్ళము.... ఇప్పుడేమో నాన్న ఎప్పుడు ఎప్పుడు బయటకి వెళ్లారా ఆన్నలైన్ తిండి పెట్టుగ్ందామా అని చూస్తున్నాము... ఎందుకు అంటే నాన్న బయట చెత్తని ప్రోత్సాహించారు కదా....

నాన్న మన బాగు కోసం ఎన్ని సార్లు తన గొంతు చించుకుని చెప్పారో ఊహించలేము కానీ... నాన్న పడే కష్టాన్ని కళ్ళారా ఒక గడియ చూసినా...మన గొంతులతో పాటు మన గుండెలు కూడా తరుక్కు పోతాయి.....

ఈ సమాజంలో నేను చాలా సార్లు విన్న మాట ఒకటి ఉంది...అబ్బాయిలు అమ్మ కూచి...అమ్మాయిలు నాన్న కూచి అని... కానీ చాలా వరకు తెలియనిది ఏంటంటే ప్రతి ఒక్క అబ్బాయి తనకి తెలియకుండానే నాన్న కూచిలు అముతారు... వినడానికి వింతగా ఉంది కదా... వయస్వ పెరిగే కొద్ది కొన్ని అంతే....

చిన్నతనంలో నాన్నని నవ్వుతూ హత్తుకుని పక్కన పడుకోనిదే నిద్ర పట్టని వాళ్ళు...పెద్దాయక నాన్నని గట్టిగా హత్తుకుని ఎడవాలి అని అనుకుంటారు... ఎందుకో తెలీదుగానీ... అప్పుడు ప్రతి ఒక్క అబ్బాయి కంటి నుంచి కారే ప్రతి ఒక్క కంట నీరు ఆనందం అనీ చెప్పలేము.. పోని ఇన్ని రోజులు నాన్న మాట వినని దానికి ఒచ్చిన పశ్చాత్తాపమూ అని కూడా చెప్పలేము... బహుషా రెండు కలగలిపి వచ్చిన కన్నీరు కూడా కావచ్చు....

ప్రతి ఒక్కరికి జీవితంలో ఎన్నో ఆశలు, ఆశయాలు ఉండచ్చు... వాళ్ళ లాగా పైకి రావాలి అని... వీళ్ళ లాగా బతకాలి అని కూడా ఉండచ్చు కానీ నాకు మాత్రం ఒక్క రోజు అయిన మా నాన్న లాగా బతకాలి అని ఉంది....

నాలాగ నాన్నని అంతులేని లోలోపల ప్రేమించే ప్రతి ఒక్కరికి నా ఈ చిట్టి రాత అంకితం...



THEJA SRINIVAS CHAKRALA  
20BF1A0163



## ARTIFICIAL INTELLIGENCE IN CIVIL ENGINEERING

Today, I delve into the transformative role of artificial intelligence (AI) in civil engineering, a field traditionally grounded in precision and safety. AI, with its ability to process vast amounts of data and perform complex tasks, is reshaping the landscape of civil engineering in numerous ways.

One notable application of AI in civil engineering is in structural health monitoring. Advanced AI algorithms analyze sensor data from bridges, buildings, and other structures in real-time, enabling early detection of potential issues and predictive maintenance. This not only enhances safety but also prolongs the lifespan of critical infrastructure.

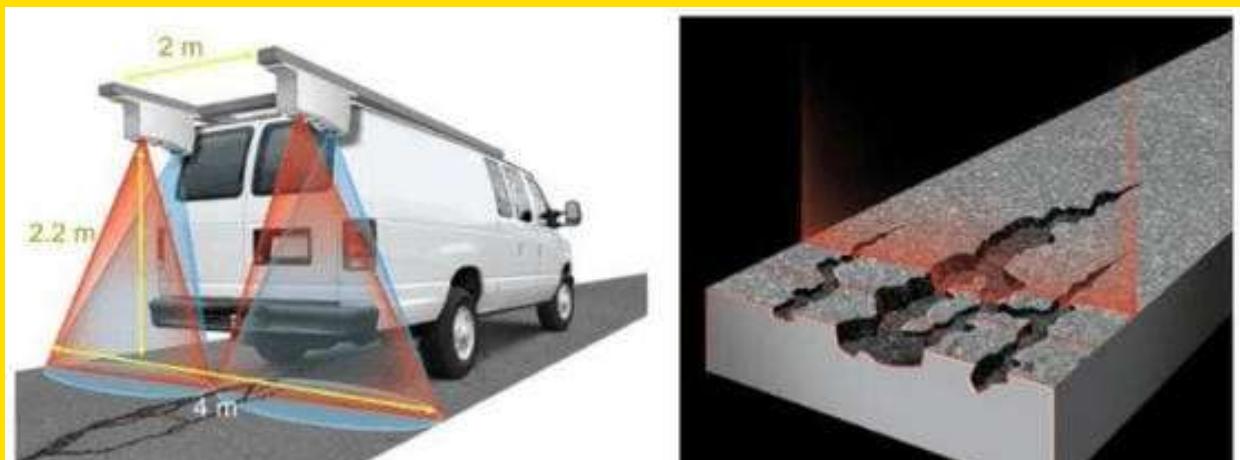
The integration of AI in traffic management systems is another noteworthy development. AI-powered traffic control systems can optimize signal timings based on real-time traffic conditions, reducing congestion and improving overall transportation efficiency. This not only enhances the daily commute for citizens but also contributes to environmental sustainability by minimizing fuel consumption.

As AI continues to evolve, the concept of "smart cities" is gaining traction. AI algorithms are instrumental in managing urban infrastructure, from optimizing energy consumption to waste management. This interconnected intelligence fosters sustainable urban development and improves the overall quality of life for residents.

However, it's crucial to acknowledge the challenges associated with the adoption of AI in civil engineering including issues related to data privacy, ethical considerations, and the need for upskilling the workforce.

In conclusion, the integration of artificial intelligence in civil engineering is a dynamic and promising frontier. From enhancing structural safety to optimizing project management and contributing to the realization of smart cities, AI is leaving an indelible mark on the future of civil engineering. The challenge lies in harnessing this transformative power responsibly to build a more sustainable and resilient world.

# LASER USAGE IN CIVIL ENGINEERING



Laser technology finds diverse applications in civil engineering. It is commonly used for precise measurements, surveying, and construction tasks. Lasers are employed in equipment like laser levels for accurate leveling and grading on construction sites. Additionally, LiDAR (Light Detection and Ranging) systems, which use lasers, are pivotal in creating detailed 3D maps for planning and monitoring purposes. This technology enhances efficiency and precision in various civil engineering applications.

3D Laser Scanning or LiDAR (Light Detection and Ranging) is the process of shining a reflectorless laser line over a surface in order to collect 3-dimensional data. The surface data is captured by a camera sensor mounted in the laser scanner which records accurate dense 3D points in space. The 3D survey points collected combine together to form a point cloud that represent the surface surveyed.

The benefits of working with laser scanning data are numerous and provide the advantage to multi-disciplinary teams; Architects, Civil Engineers, CAD Designers, Planners, Universities, Insurance Companies, Utility Sectors, Mechanical & Communicational Engineers the list goes on and is continually being added to highway.

The laser-based system can measure the road profile and deflection accurately while traveling at an average speed. It results in rapid measurement and quick data collection. Multiple locations can be measured from a single instrument position. It doesn't require any setup or break down. It can be installed on any vehicle required by the user. It can operate at a speed of 105 km/h. It collects data in real-time as it traverses the pavement's surface. It eliminates the need for lane closures or traffic control while testing

Applications of Laser Scanning In Highway Engineering are Road Profiling, Pavement Surface Deflections, Bridge Deflection, Speed checkers.

# MEMBRANE BIOREACTORS FOR WASTE WATER TREATMENT

Due to growth in population, the number of industries has exponentially increased. This result in either severe environmental challenges or huge demand for water supply. According to the current status of water resources, it is utmost importance to utilize novel solutions to improve water cycle management in public and industrial areas. Additionally, implementation of the novel sustainable techniques in water cycle are required to consider the true value of water. With this in mind, recovery of the wastewater can be considered as a highly valuable resource which can be accomplished with the aid advanced technologies. One of the alternative technologies for wastewater treatment is the use of membrane biological reactor. It is a combination of biological process with membrane filtration that is called Membrane Bioreactor (MBR). In this case, the degradation of biomass is occurred inside the bioreactor tank, while separation of treated wastewater from microorganisms is completed in a membrane module. Over the last two decades, MBR attracts lots of attention due to its potential to produce high quality effluent and currently considered as a mature technology to treat wastewater. It was reported that 22.4% of Compound Annual Growth Rate (CAGR) was expected for the MBR market. Recent BCC (Business Communication Company) report showed that the market size of MBR to be 3.0 billion USD in 2019 and is expected, at a CAGR of 7%, to reach 4.2 billion UDS by 2024. Worldwide, APAC (Asia-Pacific i.e., one segment of MBR market if it is categorized based on the region. It is considered to have a highest MBR market growth in the world. It summarizes the MBR market growth by region during the period 2017-2024.

Membrane technology is commonly used in industries such as water treatment, chemical and metal processing, pharmaceuticals, biotechnology, the food industry, as well as the removal of environmental pollutants. Water treatment is any process that improves the quality of water to make it more acceptable for a specific end-use. Membranes can be used to remove particulates from water by either size exclusion or charge separation. In size exclusion, the pores in the membrane are sized such that only particles smaller than the pores can pass through. The pores in the membrane are sized such that only water molecules can pass through, leaving dissolved contaminants behind.



To this end, the main purpose of this review is to familiarize the reader with the basic concepts of MBR and subsequently provide information on the recent developments of each part pertaining to MBR plants such as fouling mitigation, which is a vital factor in terms of effecting the MBR performance. This review starts with fundamental of the biological wastewater treatment and membrane technology. Following sections highlight and discuss the fouling phenomena from the basic to the novel fouling mitigation strategies that are applied in the recent years. Subsequently, Novel configurations are also discussed, based on the recent literature on the subject for the purpose of clear understanding of the recent advances in MBRs. Finally, the challenges that need to be addressed to tackle the obstacles that prevent further development of the MBR technology.

# HEMPCRETE

Hempcrete, also known as hemplime, is a bio-composite material that can be used in construction as an alternative to materials such as concrete and traditional insulation. The basis of hempcrete is hemp, the balsa wood-like core of a cannabis sativa plant. Hemp can be combined with lime and water to form hempcrete. The hemp has a high silica content, a unique property among natural fiber, which allows it to bind well with the lime. As a lightweight cementitious insulating material, it weighs only one-seventh to one-eighth that of concrete.

Hemp as a building material has been used across Europe for centuries, and as a modern building material, industrial hemp is now grown by certified commercial growers. The strain of plant grown for hempcrete contains 0.3% of THC, the ingredient in cannabis that provides its psychoactive nature. This is compared to the THC content found in hallucinogenic and medicinal varieties of between 5-10%. While it is legally grown in Europe and Canada, growing hemp in America has been illegal for several decades. However, with the country's gradual liberalisation of laws regarding the substance for medicinal and personal use, this may change.

The material is mixed for 1-2 minutes before being applied, either into the wall cavities, or slip-forming with temporary timber or plastic shuttering. A hard render coating is generally applied as a finish on exterior surfaces with a thickness of around 20 mm. The interior can be left 'natural' or, for a traditional aesthetic, finished with lime plaster.

Hempcrete is very durable and has a number of other beneficial properties. Similar to other natural plant products, carbon dioxide is absorbed from the atmosphere by hemp as it grows. During the curing process, as lime turns to limestone, the carbonation of the lime adds to this effect. As a result, hempcrete has a negative carbon footprint, with considerable potential for sustainable building.

This paper aims to set the context for the application of hempcrete as an eco-material. Hempcrete is a useful material for reducing the impact the construction sector has on the environment, while retaining good economic value. Although, with the current methods of application, hempcrete is not an ideal material for construction, it does present many characteristics that set it apart from traditional concrete in terms of economic and environmental benefits. Looking ahead, further research on increasing the mechanical capabilities and decreasing the water absorption will go a long way toward unlocking the potential of hemp as a sustainable building material.



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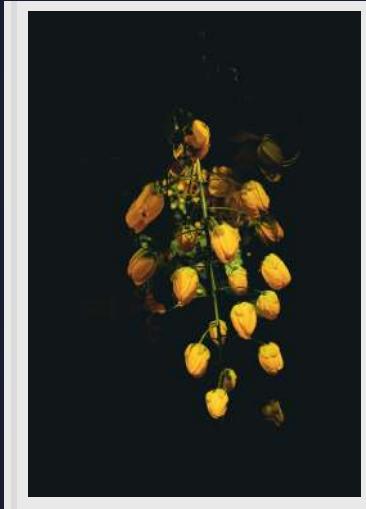


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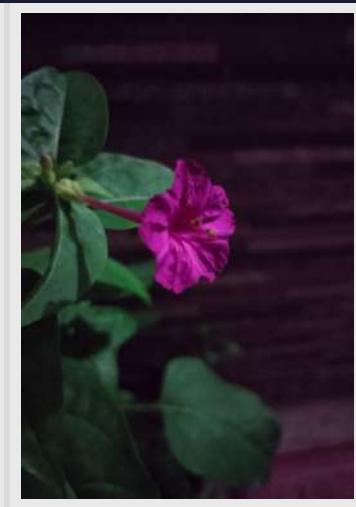
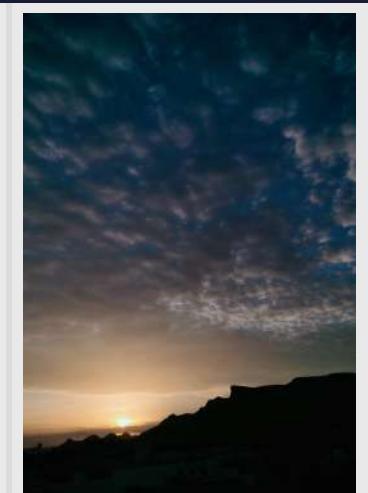
Everyone look at things differently..



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R. Tej Kumar



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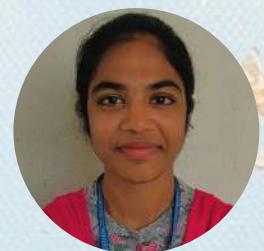
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is not what one sees but what one make others see



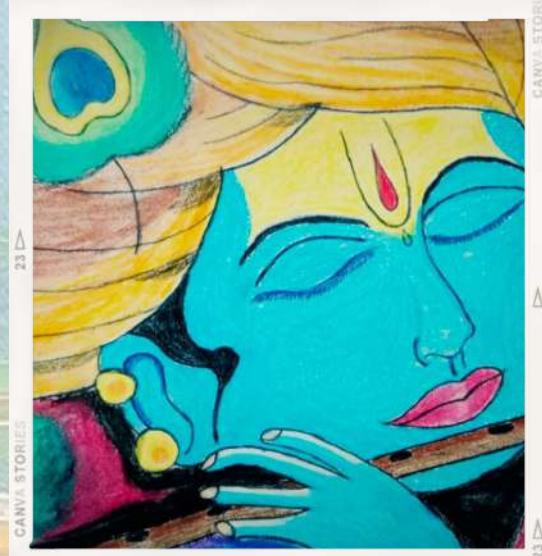
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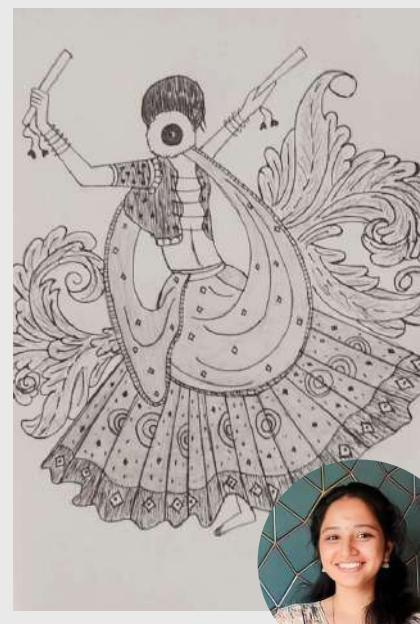
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