



VIT®

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

ASCE
INDIA SECTION
 Southern Region
VIT Vellore Chapter



CONFERENCE BROCHURE



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ABOUT VIT

VIT, one of the India's premier universities, was established with the aim of providing quality education at par with international standards.

The campus has a cosmopolitan atmosphere with students from all corners of the globe and has over 35,000 students with nearly 1/3rd of them being women, around 1400 faculty and 1413 staff. It also is an educational hub to students from 60 countries and from every state of India.

VIT is consistently ranked among the top 10 institutes of India and has the second highest number of research publications in South India.

We at VIT impart futuristic technical education and instil high patterns of discipline through our technical staff, who set global standards enabling our students to make our students technologically superior and ethically strong, who in turn improve the quality of life of the human race.



ASCE

AMERICAN SOCIETY OF CIVIL ENGINEERS

Strive not to be a success, but rather to be of value.

American Society of Civil Engineers, a world student association has perceived ASCE-VIT as an official understudy part. The chapter was issued by Region 10 Board of Governors which stipends ASCE-VIT all rights and benefits given in the Constitution by the laws of the Society. ASCE-VIT is a student chapter in Vellore Institute of Technology, Vellore, committed towards inspiring and motivating personalities in the field of civil engineering. It is a group of 75 dedicated students who are relentless in their endeavours. ASCE has been effectively arranging 4 International Civil Engineering Symposiums in VIT, "ICES", which is one of the biggest gathering affairs of civil engineers from all over India and abroad. The symposium is a stage for numerous events and workshops and an International Conference. ASCE, likewise composes workshops and events which have been well-known and fruitful among students.

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NATIONAL CONFERENCE

Milton Berle stated that “If opportunity doesn’t knock, build a door”. Thus this conference attracts people from all over the world and offers a platform to discover, enrich and showcase their talent.

The ASCE national conference was the first national conference in the United States. The American Society of Civil Engineers represents more than 150,000 members of the civil engineering profession in 177 countries.

ASCE Student Chapters are the organizers of 18 prestigious conferences that are held in different regions every year in USA. It is for the very first time that India has been privileged to be a part of this extravagant event to hold this conference. It is to be held in Vellore Institute of Technology which will include a cluster of assorted events like Mead Paper, Constrologer, and Canoe Competition etc.

WORKSHOPS

Sometimes the smallest step in the right direction ends up being the biggest step of your life. Tip Toe if you must, but take the step.



ADVANCED CONCRETE TECHNOLOGY

Premature deterioration of civil infrastructure has created a colossal backlog of ageing concrete structures. Hence it is important to design structures that can exceed their service life even in harsh environments and with minimum maintenance and repair. This however requires a solid understanding of concrete technology. This workshop will teach you advanced topics like high performance concrete, concrete construction sustainability, and service life prediction with practical demonstration.



BENTLEY ARCHITECTURE

As an architectural engineer, you need to deliver the highest quality work on schedule and under budget. Bentley Architecture provides you with endless independence, to discover a lot more layout choices, to help make much better well informed layout judgements, as well as forecast performance and costs. Construction and Design paperwork are quickly synchronized, removing problems and omissions with the help of the software.



ADVANCED FOUNDATION ANALYSIS

You can't build a great building on a weak foundation. There lie some challenges involved in analyzing a structure even before the construction starts. So we are giving you the opportunity to attend a workshop on advanced foundation analysis by Civil Simplified. The workshop deals with analysis and design of footing and theory of structure via real world case studies etc.

FLOATING CONCRETE

This is a workshop-cum-competition, where participants in a team of 5 will be taught how to make a structure using light-weight concrete materials, coarse aggregate, rubber scrap, etc. the participants are supposed to make a floating structure in a given time constraint. Within a time period of one week, for its proper casting, the structure will bear maximum load without sinking will be considered as the best. The workshop portrays a complete practical perspective of the science behind floating concrete that is light-weight concrete.



TRANSPORTATION

This modern workshop is a much needed investment for the urbanization of modern age. It demands smooth communication by focusing on the advanced tools like intelligent transport system. In this workshop, students would be introduced to Traffic engineering-Understanding and operation. Also, they would be taught about the scope and opportunities of transportation sector in the future. As we know, our Prime minister “Narendra Modi” has announced that transportation sector is the one which requires lots of development and has also invested major chunk of the national budget into it. Considering the arrival of “Smart Cities”, there would be better roadways, airports and railway system.



STAAD-PRO

STAAD-PRO V8i is a Structural Analysis and Design Software powered by Bentley Systems. With an array of advanced analysis capabilities including linear static, response spectra, time history, cable imperfection and non linear analysis. It provides a callable solution that will meet the demands of the project every time. The software reduces the man-hours required to properly load the structure by automating the forces caused by wind, earthquake, snow or vehicles, The workshop is conducted by the creators themselves, ‘Bentley systems’ which makes the learning experience like never before. To ensure on time and on budget completion of your steel, concrete, timber, aluminium, and cold-formed steel projects regardless of the complexity.



REVIT

Ever been too curious to endeavor your skills to a whole new level? This workshop will help you do the same and trigger your career opportunities for a better you. Revit is building information modeling software for architects, landscape architects, structural engineers, MEP engineers, designers and contractors developed by Autodesk.



TALL BUILDING

This year, we bring to you Tall Building by The American Society of Civil Engineers. The design of tall buildings essentially involves conceptual design, approximate analysis, preliminary design for a skyscraper must ensure that the building is able to stand up safely, able to function without excessive deflections or movements which may cause fatigue of structural elements, cracking or failure of fixtures, fittings or partitions, or discomfort for occupants. Tall Building Design Workshop primarily aims at educating the participants about analysis and design of tall buildings.



SEISMIC DESIGN

“It takes an earthquake to remind us that we walk on the crust of an unfinished earth.” Seismic Design principles are used in the construction and design of structures which can withstand earthquakes and other seismic disasters. The Seismic Design of Buildings workshop targets at teaching the attendees how to design modern structures subjected to such seismic activities and protect them from any possible damage.



CANOE COMPETITION

The only way of discovering the limits of the possible is to venture a little way past them into the impossible.

National Concrete Canoe Competition (NCCC) made its debut in 1971. Organized by “ASCE-AMERICAN SOCIETY OF CIVIL ENGINEERS”, it is now being taken in interest by more than 200 groups worldwide. Such is the popularity of the event that groups from reputed colleges like UC Berkley, the University stake their claim as participants in the competition. Now, for the first time ever it's being held outside the USA! ASCE-VIT is taking the command for conducting it in India for the first time! The canoe being made of cement is a challenge in itself, along a few variables having an impact on the canoe weight, which makes the challenge trickier. Lastly, the canoe that is light as well as efficient has a better chance at the coveted challenge.

Civil engineering enthusiasts and students from various top colleges and universities all over the world will be partaking in the opposition. This time history would get rewritten by ASCE-VIT as we have got once in a lifetime opportunity, with the competition setting its foot for the first time outside United States, that too in INDIA. So, come join us this March and help us make it bigger and better than ever.

EVENTS

Winners are not those who fail, but those who never try

ENVOCIST

Have you ever known how pure your water is coming into your households, offices, etc? Have you ever desired of making a plan, a process efficient enough to remove unwanted particles and judge the quality of water? We provide you a platform to complete one of your own and compete with the best minds across the country.



FRESH MORE CHALLENGE

How about mixing the game of deductions and mysteries with the field of civil engineering? Doesn't it sound exciting? We give you a chance to demonstrate the inner Sherlock in you and win big! Can it get any more fascinating?



TRAFFINEER 1.0

Upset with the traffic and road infrastructure of the city? Want to present your ideas to the whole world to make it better? We give you a chance, to design your own traffic and road layout for your own city and a chance to win big!



QUIZ BOWL

A challenge for students who think they have acquired the fundamentals of civil engineering. Different rounds and different challenges testing the civil engineer in you.





ARCH BRIDGE

An opportunity to show your innovative minds, a challenge of building a bridge without cement! A budding civil engineering here's your chance to prove how technically sound you're and lots of goodies to be won.

CONCRETE BASEBALL BAT

Consider yourself a baseball freak? Strong technical skills in the field of civil engineering? You have a good shot at winning this challenge. Have a go at one of the rare events where you have to be sporty and geeky at the same time!



MEAD PAPER

An opportunity to showcase your expertise in the vast array of topics. We give you the topic, write about it, present in front of professionals from the industry. High-end exposure, prizes await and what not. Have you heard of any better opportunity? *GEEK ALERT*



SURVEYOR CHALLENGE

Without roads, there would be no destination. Being civil engineers, we must be holding an expertise in analyzing the dimensions, design and structure of the streets. Hence, don't miss out this chance to grab knowledge as well as showcase your talent to the



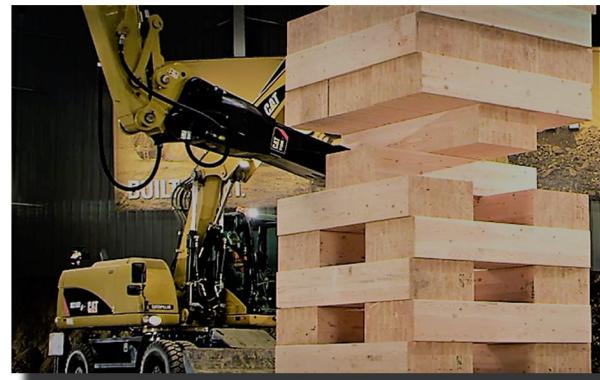
CONTROLOGER

Are you a good leader? Can you handle pressure? No, we are not recruiting new captain for Indian Cricket Team. You need to have these qualities and much more to be an entrepreneur in this part of engineering. Are you confident enough to stake your claim in a first of its kind event and compete with the world? We assume you won't have better experiences than this.



JENGA RELOADED

ASCE brings out a game experiences that combines friends, both physical and mental skill, suspense, laughter, and maybe a little luck, the most popular and thrilling 'Jenga reloaded'. Grab the opportunity to have real fun as much as possible. Do register now!



CADATHON

"Expertise is the mantra of modern medicine." Such is the tale of this grand event "Cad-a-thon" organized by the American Society of Civil Engineers, VIT, Vellore. This event will focus on mastering your CAD skills by expertise of the same ground.



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