

VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institute)

DEPARTMENT OF CIVIL ENGINEERING

Professional Activities

The Department of Civil Engineering provides an opportunity to the students to enhance the overall education experience through a wide range of Extracurricular and Co-curricular Activities include social, cultural, intellectual, recreational and professional student chapters. Such activities enrich the lives of students and help them to fulfill their potential. Extra-curricular activities are planned and executed through Civil Engineering Association.

The Department embraces budding Civil Engineers through ICI & IGBC student chapters, introduced in 2013 & 2017 respectively with an objective to disseminate the knowledge to the students in the fields of construction and sustainable built environment. They are owned and managed by representatives of students and faculty in-charge. These student chapters are very active in organizing the guest lectures by professional Engineers from Industry/ ICI/IGBC Hyderabad center to bridge the gap between the theoretical practiced in the field. Their involvement in ICI/IGBC activities helps them to shape themselves to face the challenges in the field, when they come out of the Institution and enhance their employability the activities include

- To disseminate knowledge to the students in the frontier areas of concrete and construction.
- To identify R&D problems of practical relevance and the same problems shall be taken as academic projects at UG & PG level.
- To arrange periodical seminars and exhibitions in concrete domain.
- To arrange guest lectures on selected topics of relevance to concrete and construction.
- To collaborate with the industry in creating the better understanding of concrete and construction.

Events Organized by ICI & IGBC Student chapters in the Academic Year 2019-20

The students of I M.Tech.(Structural Engineering) were taken for a visit to Durgam Cheruvu Bridge, Madhapur Hyderabad. The main aim of the visit is to inculcate the importance of cable stayed bridge and to understand the process of erection of the bridge. The students were given an insight into the necessity of bridge, key features of cable stayed bridge, etc. The students have participated in the event with utmost enthusiasm and have interacted with various personnel at bridge site and got good insights.



**Students at Durgam Cheruvu Bridge along with the faculty of CED, VNRVJIET
On 22 – Feb – 2020.**

The Civil Engineering Association (CEA) in collaboration with the student chapters of Indian Concrete Institute (ICI) and Indian Green Building Council (IGBC), of the Department of Civil Engineering, VNRVJIET have conducted a one day technical civil engineering symposium “HORIZON” *Knowledge meets existence* on 23rd March 2019.

A total of 100 participants from six engineering colleges in Hyderabad have participated in the HORIZON. An amount of Rs. 21,000/- (Rupees Twenty one thousand) was given as prize money for the winners of various events of HORIZON.

Er. P. Surya Prakash, Founder and Managing Director of M/s Satya Vani Projects and Consultants Ltd., Hyderabad was the Chief Guest for the Inaugural Ceremony of HORIZON. Er. P. Surya Prakash has enlightened the young civil engineers about the importance of civil engineering in the past, present and future and also various career opportunities in civil engineering. Er. P. Surya Prakash in the presence of Dr. S. Rakesh, Faculty Coordinator – HORIZON and Dr. A. Mallika, Professor and Head, Civil Engineering Department, Dr. B. Chennakesava Rao, Director (Advancement) and Dean (Administration) and Dr. C.D. Naidu, Principal, VNRVJIET has launched the second edition of the civil engineering department annual newsletter “THE BLUE PRINT”.



Er. P. Surya Prakash, Founder and Managing Director of M/s Satya Vani Projects and Consultants Ltd., Hyderabad at the Inaugural Ceremony of HORIZON



Er. P. Surya Prakash, Dr. S. Rakesh, Dr. A. Mallika, Dr. B. Chennakesava Rao, Dr. C.D. Naidu launching "THE BLUE PRINT" at the Inaugural of HORIZON



Er. P. Surya Prakash, Dr. B. Chennakesava Rao and Dr. C.D. Naidu along with the Faculty and Students (Organizers of HORIZON) of Civil Engineering Department

As part of this technical civil engineering symposium, various technical events were conducted including

- 1) Technical Quiz
- 2) Design Green
- 3) Paper presentations
- 4) Tensegrity Structures
- 5) Student Innovation Exhibition
- 6) Scavenger Hunt
- 7) Fine-Tune

A brief overview of the various events conducted is given below.

Event – 1: Technical Quiz

An event Technical Quiz was conducted as part of HORIZON. The level for this Technical Quiz is III Year B.Tech Civil Engineering Knowledge. As part of this Technical Quiz, students were allowed to participate in a group of two. Teams lead by Mr. B. Raj Kumar of VNRVJIET and Mr. K.Rama Krishna of VNRVJIET have secured first and second prizes respectively. They have been awarded with cash prizes of Rs. 2,000/-, and Rs. 1,000/- respectively.



Students taking Technical Quiz in HORIZON

Event – 2: Design Green

The Design Green event was conducted in association with the Indian Green Building Council (IGBC), Hyderabad chapter part of CII. In this event Design Green, the participant was given a problem statement of implementing green concepts in buildings. The participants have expressed their views on the given problem. Mr. Shaik Sammed Ahmed, VNRVJIET and Mr. Shaik Masroor Ahmed, VNRVJIET have secured first and second prizes worth Rs 2,000/- and Rs. 1,000/- respectively. The evaluation was done by the representative from IGBC and faculty of civil engineering department Dr. K. Ravi Kumar, Associate Professor.



Participant expressing his ideas and views on the concept of Design Green at HORIZON being judged by the representative of IGBC, Hyderabad Chapter of CII along with Dr. K. Ravi Kumar, Associate Professor, Civil Engineering Department, VNRVJIET

Event – 3: Paper Presentation

A total of sixteen papers were presented by the participants in the Paper Presentation event of HORIZON. Two faculty of civil engineering department Dr. C. Naveen Kumar, Associate Professor and Dr. K. Srinivas, Associate Professor have evaluated all the papers presented in the event and awarded the first and second prizes worth Rs. 2,000/- and Rs. 1,000/- respectively to Mr. Shaik Sammed Ahmed, VNRVJIET and MR. DattaKarthik Chandra, St. Martins.



Participant presenting a paper as part of Paper Presentation Event of HORIZON and being judged by Dr. K. Srinivas and Dr. C. Naveen Kumar, both Associate Professors of Civil Engineering Department, VNRVJIET

Event – 4: Tensegrity Structures

In the Tensegrity Structures event of HORIZON, the participants were given a task of preparing a structure which should resist loads with lower self-weight. The required materials were provided to the participants. The participants are allowed to form a team of maximum four members. The evaluation of the prepared structures was done by two faculty of civil engineering department Dr. B.D.V. Chandra Mohan, Professor, and Dr. R. Durga Prasad, Assistant Professor. The evaluation is done based on the criteria of maximum load bearing capacity with lower self-weight. Two teams lead by Ms. Meena Sri, VNRVJIET and Mr. HemanthKarne, BVRIT have secured first and second prizes worth Rs. 2,000/- and Rs. 1,000/-.



**Participants preparing a model during the event
Tensegrity Structures of HORIZON**



**Evaluation of the Tensegrity Structures
is being done by the Faculty of Civil
Engineering Department Dr. B.D.V.
Chandra Mohan Rao, Professor and Dr.
R. Durga Prasad, Assistant Professor**

Event – 5: Student Innovation Exhibition

In the Student Innovation Exhibition of HORIZON, the students are required to present their innovative demonstrable/working models in the domain of civil engineering. Three faculty of civil engineering department Dr. Ch. Nageswara Rao, Professor, Dr. K. Ramujee, Professor and Dr. B. Narendra Kumar, Professor have evaluated the projects and have awarded the first prize worth Rs. 2,000/- to the team lead by Mr. JadavNagesh, St. Martins and the second prize worth Rs. 1,000/- jointly to the teams lead by Mr. G. Krishna Kanth, BVRIT and Mr. Shaik Sammed Ahmed, VNRVJIET.



Faculty of Civil Engineering Department Dr. Ch. Nageswara Rao, Professor, Dr. K. Ramujee, Professor, and Dr. B. Narendra Kumar, Professor evaluating the projects exhibited by the students as part of Student Innovation Exhibition of HORIZON

Event – 6: Scavenger Hunt

The Scavenger Hunt event was conducted in HORIZON. Teams comprising maximum of two persons have participated in this event. In this event, the participant will be initially given a question related to civil engineering, solving upon which, the participant will get an idea for the next level where he will find another question related to civil engineering knowledge. The participant has to solve maximum number of questions within short time. Teams led by Mr. Sai Kiran of MLRIT and Porandla Anurag of St. Martins have won first and second prizes worth Rs. 2,000/- and Rs. 1,000/- respectively.



Students registering for participation in Scavenger Hunt of HORIZON

Event – 7: Fine-Tune

The Fine-Tune is a combination of marketing into civil engineering event in HORIZON. In this event the participants will be given a problem statement related to civil engineering. The participant using his innovative ideas have to provide a marketing solution for the problem. The evaluation of participants is done by Ms. KeertiPriyaKasturi and Ms. G. Anuja, both Assistant Professors in the Department of Civil Engineering. Mr. Shaik Sammed Ahmed, VNRVJIET, has secured first prize worth Rs. 2,000/- and Mr. BaddamPuneeth Reddy, VNRVJIET, and Ms. Baby Shaik Salma, VNRVJIET has jointly secured second prize worth Rs. 500/- each.



Participants during the event Fine-Tune of HORIZON

The valedictory function of the HORIZON was started with a guest lecture on Unconventional Careers in Civil Engineering by Er. P. Srinivas Reddy, Chairman – Indian Concrete Institute (ICI) and guest for the valedictory function. At the end, Certificates and cash prizes were distributed to the prize winners of all the seven events. Also, participation certificates were given to all the participants.



Er. P. Srinivasa Reddy delivering a lecture on Unconventional Careers in Civil Engineering



Er. P. Srinivasa Reddy distributing prizes to the winners of various events conducted during HORIZON

Events Organized by ICI & IGBC Student chapters in the Academic Year 2018-19

The students of I M.Tech.(Structural Engineering) and II B.Tech. (Civil Engineering) were taken for a visit to CII - Sohrabji Godrej Green Business Centre at Hi-Tech city, Hyderabad. The main aim of the visit is to inculcate the importance of green building and adaption techniques in the student's mind. The students were given an insight into the necessity of green building, key features of green building, conservation of energy, treatment of waste water, etc. The students have participated in the event with utmost enthusiasm and have interacted with various personnel at CII and got good insight into "what a green building is all about".



Students at CII – Sohrabji Godrej Green Business Centre, Hitech city along with the faculty of CED, VNRVJIET on 24 – Sep – 2018

The Department of Civil Engineering and the student chapter of Indian Green Building Council (IGBC), VNRVJIET in association with the IGBC, part of the Confederation of Indian Industry (CII) has conducted one week World Green Building Week (24-30 Sep, 2018) campaign. The list of activities conducted are

- 1) Visit to a Green Building on 24th Sep, 18.
- 2) Creating awareness regarding mass transportation and car-pooling on 25th Sep, 2018.
- 3) An Expo of Green Products on 26th Sep, 2018.
- 4) Green Walkathon on 27th Sep, 2018
- 5) Awareness on Green School to VRS & VJ Residential School Children on 28th Sep, 2018
- 6) Guest Lecture on “Awareness on Green Building” & Signature Campaign on 29th Sep, 2018.

A brief overview of the various events conducted is given below.

Activity-1 (24th Sep, 2018): Visit to a Green Building at CII, Hitech City

The students of II Year B.Tech (Civil Engineering) were taken for a visit to CII - Sohrabji Godrej Green Business Centre at Hi-Tech city, Hyderabad. The main aim of the visit is to inculcate the importance of green building and adaptation techniques in the student's mind. The students were given an insight into the necessity of green building, key features of green building, conservation of energy, treatment of waste water, etc. The students have participated in the event with utmost enthusiasm and have interacted with various personnel at CII and got good insight into “what a green building is all about”.



Students at CII - Sohrabji Godrej Green Business Centre, Hitech city along with the faculty of CED, VNRVJIET

Activity-2 (25th Sep, 2018): Creating awareness regarding mass transportation and car-pooling

The student chapter of IGBC has conducted an awareness campaign on the importance of mass transportation and car-pooling at VNRVJIET. The members of IGBC student chapter have created awareness among the students of VNRVJIET and other commuters regarding the problems associated with self-transport. The event was successful in passing the notion of Green roads.



Students creating awareness regarding mass transport and car-pooling at VNRVJIET

Activity-3 (26th Sep, 2018): An Expo of Green Products

An expo of various green products at VNRVJIET has been conducted by the student chapter of IGBC. The Expo of Green products hold a list of interesting and research related concepts such as solar power panels, Geopolymer Concrete Bench (Green Bench), Sewage Treatment Plant (STP), Vertical Garden. The students were given brief insight into various green products available at the campus and their functionality. The faculty and all the students of Civil Engineering department took active part in this event. The event was successful in passing the importance and benefits of geopolymer concrete, solar power consumption, and waste water treatment for domestic and commercial purposes.



Civil Engineering students discussing their views on STP



Mr. P. GopiRagunadh, Assistant Professor, CED giving a brief explanation to students on Geopolymer concrete bench (green bench)



Mr. B. Manikantha Reddy, Assistant Professor, CED briefing the students about Vertical Garden

Activity-4 (27th Sep, 2018): Green Walkathon

As a part of the World Green Building Week (24-30 Sep, 2018) the IGBC student chapter of VNRVJIET has conducted “Green Walkathon” to create an awareness among the public regarding the importance and necessity of green buildings. The students of Civil Engineering along with the Staff and Faculty members of the Department have participated in the walk. The Principal, Prof.C.D.Naidu, the Director Prof.B.Chennakasava Rao, Dean Prof.B.Narendra Kumar and the Head of the Department Prof.A.Mallikaof VNRVJIET have also joined the walk. The walk stretched for about 2km from the INCOIS junction to Amber Lake in the Pragathi Nagar Gram Panchayat. This is one of the rapid urbanizing area in Kukatpally of Hyderabad. A total of 100 students and faculty have volunteered for the walk. The students have displayed placards and raised slogans in favour of the theme “Home Green Home”. The sarpanch of Pragathi Nagar gram panchayat Ms. K.ShanthiKumari has joined the walk and congratulated all the students, staff and faculty of VNRVJIET for organizing this event and creating an awareness among the residents of Pragathi Nagar.



Green Walkathon from INCOIS Junction to Amber Cheruvu, Pragathi Nagar



Green Walkathon at Kakateya Hills, Pragathi Nagar



Principal Prof.C.D.Naidu, Director Prof.B.Chennakeshava Rao, Dean Prof.B.Narendra Kumar, and Head of the Department Prof. A. Mallika along with faculty, staff and students at Vijetha super Market, Pragathi Nagar

Activity-5 (28th Sep, 2018):Awareness on Green School to VRS & VJ Residential School Children

An Awareness on Green School to the students of VRS and VJ Residential School, Bachupally was conducted by the student chapter of IGBC, VNRVJIET in association with IGBC, Hyderabad. The event was conducted to create an awareness among the school students about Green building and Green school. A presentation was given by the members of IGBC student chapter with the support of IGBC, Hyderabad for the school students about the importance and necessity of green building, green school, water consumption, energy conservation, green techniques to adapt and their significance. The students have interacted with the IGBC student chapter and have shared their opinions and ideas about Green schools (open platform to all students). The students have expressed good ideas and opinions on the topic. The student chapter of IGBC, VNRVJIET has listed three best talks among the school students and awarded them with prizes. The winners of the talk are 1) M.Yashwanth of 8th standard, 2) Bhuvaneshwari of 8th Standard and 3) Praneeth of 7th standard.



Presentation on Green School



Students sharing their views on Green School

Best talks being awarded



CEA Team with VRS & VJ Residential School students

Activity-6 (29th Sep, 2018): Guest Lecture on “Awareness on Green Building” & Signature Campaign

A guest lecture on “Awareness on Green Buildings” was conducted by the student chapter of IGBC, VNRVJIET on 29th Sep, 2018 as a part of WORLD GREEN BUILDING WEEK 2018, at VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad. The lecture was given by Mr. SundeepVullikanti, the counsellor of CII, Hyderabad. The lecture gave an insight on the importance of green buildings and also suggested various ways to convert an existing house into green building. The lecture also provoked the part a student should play in creating awareness regarding green buildings. This lecture was successful in creating impact on the notion of green buildings. This event was followed by signature campaign, where faculty and students took active part in writing their resolutions and signing on the banner.



Mr. SundeepVullikanti with the faculty coordinator Mr. G.A.V.S.S. Sandeep Kumar and Prof. B.D.V.C.M Rao, CED, VNRVJIET



Mr. SundeepVullikanti of CII with Head of the department and faculty members of Civil Engineering and student chapter of IGBC



Mr. SundeepVullikanti of CII and the faculty and students of Civil Engineering

Department of VNRVJIET



Students taking part in Signature Campaign

Events Organized by ICI & IGBC Student chapters in the Academic Year 2017-18

The students of I M.Tech.(Structural Engineering) were taken for a visit to VRS & VJ School. The main aim of the visit is to impart the practical knowledge in construction site and also to understand the importance of long span trusses in the construction of In-door auditoriums and also to witness erection procedure of long span trusses. The students were given an insight into the necessity of the type of members used in the fabrication of trusses, key features to be considered in the erection process, etc. The students have participated in the event with utmost enthusiasm and have interacted with various personnel at the site and got good insights.



**Students at VRS & VJ School along with the faculty of CED, VNRVJIET
on 24 – Nov – 2017**