

# **GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

(Autonomous)

**Department Of Civil Engineering**

**IEI Events Report**

**Academic year 2020-21**

## **ADVAITHA 2.0 (24/7/2020 - 30/07/2020)**

While lockdown was announced and everyone was at home spending time with families and binge watching their favorite shows/movies on Netflix & Amazon, the Team of IEI came up with an idea for ADVAITHA 2.0.

The event is about an individual explaining the scene/moment from the show/movies which they have watched in the lockdown which depicts the civil engineering aspects.

The main idea of choosing this idea for our event is that a person can share his knowledge, and interpretation of the scene/moment.

This helps in knowing about civil engineering aspects in movies/shows. Many of us have watched scenes/moments which have civil engineering content but haven't really noticed it deeply. So this event really helped students in looking into scenes which deal with civil engineering. We have got a few students who showed interest in making a video of them explaining the scene from the show. We have uploaded our videos on our Instagram page handle.

We have received videos from 5 students in total –

1. Sahithi Nalmas - 3rd Year civil engineering. - she spoke about how a team of intelligence deals with a dam breakthrough and helps in saving 100,00 people and stopping the dam from breaking which from the show called Scorpion which is available on prime.

2. Sathwik. G - 4th year civil engineering. He spoke about his fav game called Uncharted.

3. Nikhitha Kasuvojula - 3rd civil engineering.

She spoke about the movie Called Inside man.

The movie revolves around a bank heist and how building a fake wall helps the Hero to escape.

4. Srujith. G - 4th year civil engineering.

He spoke about the show called La Casa De Papel which means "Money Heist".

5. Shyni Sanjana - 4th year civil engineering.

She spoke about the show called The Rain.

The scene where people build Bunkers in order to save them from foreign materials. It shows the technology and civil engineering brilliance.



**GOKARAJU RANGARAJU**  
INSTITUTE OF ENGINEERING AND TECHNOLOGY  
(AUTONOMOUS)



# ADVAITHA 2.0

RECORD A VIDEO EXPLAINING A SCENE/ MOMENT FROM A TV SERIES OR A MOVIE YOU'VE WATCHED DURING THIS GLOBAL PANDEMIC LOCKDOWN WHICH MADE YOU MORE ENTHUSIASTIC ABOUT **CIVIL ENGINEERING**



*Send videos*



**S MURALI**  
9985892556

**FACULTY**  
CO-ORDINATOR

**I. CHANDANA**  
+91 95427 57909

**VIDEOS**  
WILL BE POSTED ON



IEI\_GRIET

## Teachings of Netaji Subhash Chandra Bose (23/01/2021)

Dr.Mohd.Hussain, Professor of Civil Engineering and coordinator for Center of Continuous Excellence in Life Skills, has presented a PPT on the topic " Selfless Leadership Qualities of Netaji Subhash Chandra Bose" on the occasion of his birthday. He has compared the global socio situational context then and now.He has defined the leadership qualities of Netaji by the acronym " L.E.A.D.E.R.S.H.I.P". The present scientifically advanced age is shown by the Hubble space telescope image of visible 10000 galaxies at billions of light years. He has shown the image of the Higgs Boson Elementary Particle that gives mass to the matter which is being produced in the CERN lab.He has quoted from Holy Gita and Katha Upanishad. Netaji was connected to the hearts of all people like internet wifi.



## Earthquake Safety of RC Tall Buildings in India- IS 16700 Provision Prof Pradeep Kumar Ramancharla (IITH)- (04/09/2021)

Due to rapid urbanization and development many tall buildings are becoming a norm in this day and age. About 56% of India's land mass is prone to moderate to severe earthquake events. Construction of tall buildings with discontinuous vertical elements, such as column and structural walls are quite common in India.

Design of high-rise buildings is not the same as the low-rise buildings and mid-rise. The Bureau of Indian standards has come up with special code IS16700 which gives provisions of this code for tall buildings sufficient experience and expertise is required. Three-dimensional finite element model of The Indian tall building code it's better to go for two different moments of Inertia of structural element for factored loads and unfactored loads. As per Is 16700 code the maximum height as per the code is 250m based on different structural systems.

Height size - 150m

Moderate size - 220m

Low size - 250m

Depending on the height, zone and structural analysis slenderness ratio is allowed up to 10. Finally, the building with a transfer slab found to be inappropriate for seismically active regions.



