

## Guest lecturers organised by FE department in 2020-2021

S.No	Date of Programme	Title of the programme	Nature of the Programme	Name of the resource person
1	20-11-2020	Mental health	Guest lecture	Sri Balaji Sundaram, Civil Engineer, Entrepreneur
2	12-06-2021	Importance of Probability & Statistics in Engineering	Guest lecture	Dr. Satya Prakash Singh, Assistant Professor, Department of Mathematics, IIT Hyderabad
3	23-01-2021	Academic writing	Guest lecture	Dr. N. Satish Kumar Nainala, Assistant Professor, GITAM University.
4	02-02-2021	Internet of things: Mathematical Review	Guest lecture	Dr. Peddoju Sateesh Kumar, Associate Professor, Dept of Computer Science, IIT Roorke
5	19-02-2021 and 20-02-2021	Spectroscopy	Guest lecture	Prof. M. Thirumala Chary, Retd Professor, Dept Of Chemistry, JNTUH, Hyderabad
6	01-06-2021	Post COVID Fungi	Guest lecture	Dr. S. Parthasarathy, MD. General Medicine Consultant, Navodaya Hospitals, Secunderabad.
7	05-06-2021	Chit Chat on Life, B.Tech and Growth	Guest lecture	D. Sai Karthik and R. Raghuvamshi, Alumini-NIT Warangal.
8	05-06-2021	Use of Technology to Enhance Speaking Skills	Guest lecture	Dr. Deepesh Chandrashekar, Assistant Professor, Shiv Nadar University, Chennai.
9	11-06-2021	Organic Reaction Mechanism	Guest lecture	Prof Jagadeesh kumar Ega, Chaitanya Deemed University,, Warangal.
10	18-02-2021	Interaction of Electromagnetic Radiation with Matter	Guest lecture	R. Sai Santosh, Associate Professor, IIT, Hyderabad.

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E-Student Induction Programme  
Organized by Department of Freshman Engineering  
November-19<sup>th</sup> to 19<sup>th</sup> December, 2020

Platform-Zoom

Total Number of Participants: 845+

Date: 20-11-2020

Session: 1

Broad Area: Universal Human Values

Topic: Mental Health

Resource Person and affiliation: Sri Balaji Sundaram, Civil Engineer, Entrepreneur,  
Trainer-VIHE-R.K.Math, Hyderabad.

In-charge(s): All faculty of Freshman Engineering Department

Snippets of the session: After a formal introduction of the speaker, the session started. Students were motivated to know and understand the importance of coming to college. They also understand the need to need to analyze what is with them, within them and around them. Psychological Pressure, Emotions and Mental ill health is due to confusion. Facing the challenges with Right understanding helps a person to overcome any psychological pressure. With valuable insights, everyday examples, questions and activities the session was very interactive and inspiring.

Feedback: Majority of the students rated the facilitator as excellent, the delivery of the content was excellent and the facilitator's interaction with the students was also excellent.

Self-learning Assessment: Students' answers reflected that majority of the students' understood the session.

Photos:



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## Report on Guest lecture

**Topic: Importance of Probability and Statistics in Engineering**

**Speaker: Dr. Satya Prakash Singh,**  
Assistant Professor, IIT- Hyderabad

A guest lecture titled "**Importance of Probability and Statistics in Engineering**" was organized on 12<sup>th</sup> June, 2021 by Mathematics club of FE department. Eminent speaker **Dr. Satya Prakash Singh, Assistant Professor Department of Mathematics, IIT- Hyderabad**, delivered the guest lecture.

He started the session with the Basic examples of the topic Probability and posed certain logical questions to the students. he explained real life examples with the concept like Binomial Distribution, Normal Distribution, Hyper Distribution, and Poisson Distribution. Explain this distribution with the examples like evaluation of fishes in a pound, tigers in forest and so on. Explain as statistics is prerequisite for Machine Learning, Data Science and Artificial Intelligence. It plays a vital role in Big Data and Data Analysis with examples.

224 students from CSE, CSE-AIML, CSE-DS, CSE-IOT, CSE-CS and IT branches attended the session from 1.00 pm to 02.30 pm.

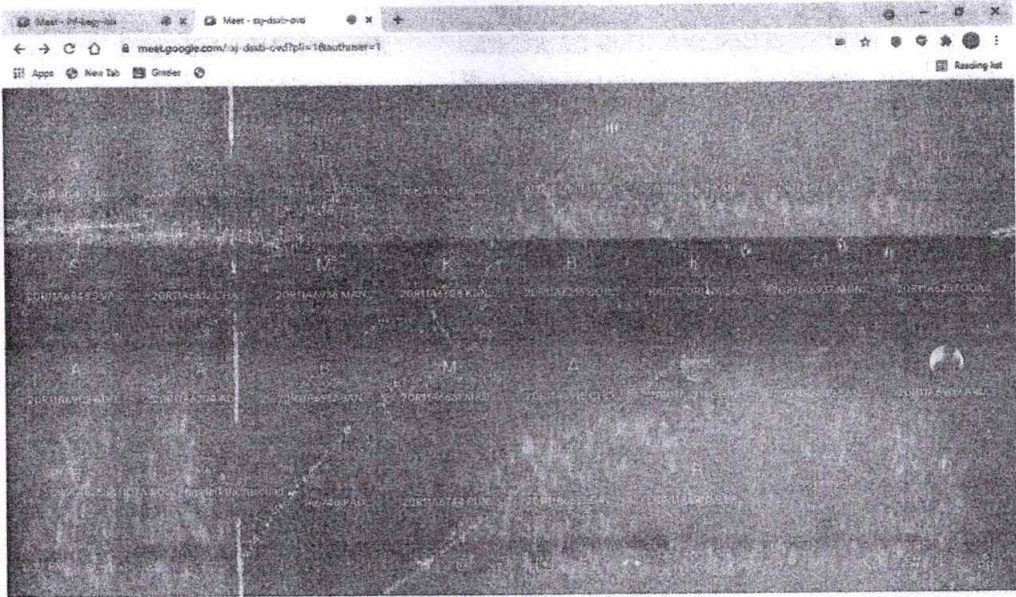
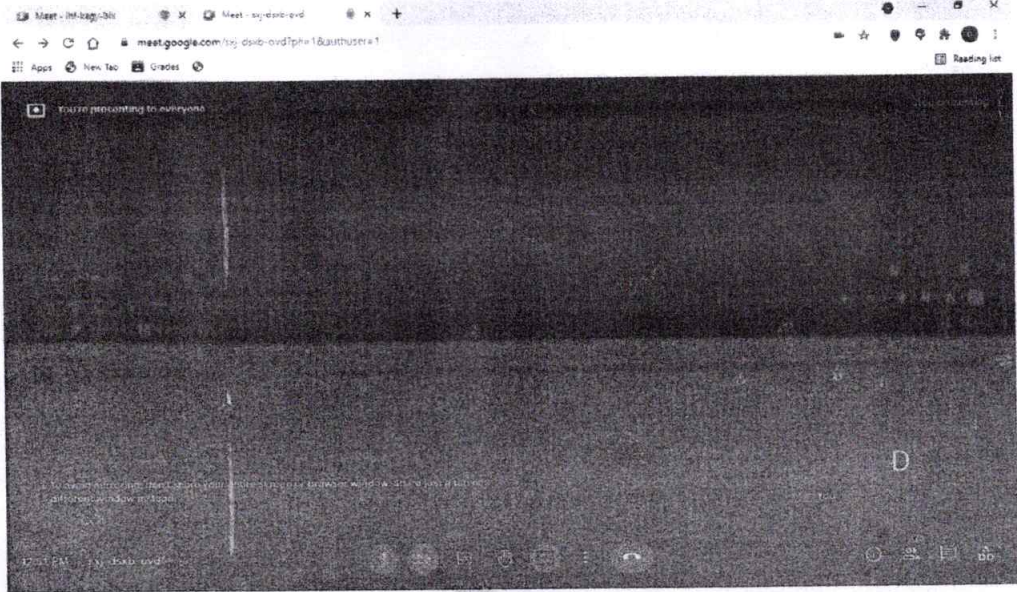
The feedback forms were also collected from the students who attended the guest lecture.

Co-Ordinator  
Dr. V.S. Triveni

✓

V.S. Triveni

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Date: 21/01/2021

Circular

The Literary Club in collaboration with Department of Freshman Engineering is organizing a Guest Lecture on the topic “**Intróduction to Academic Writing**” for the first-year (CSE-A, CSE-B, IOT and AIML) students through virtual mode. All students are informed to attend the lecture without fail.

Note: Attendance is mandatory.

**Date:** 23-01-2021

**Time:** 1.30 pm to 3.00 pm

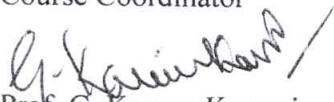
**Platform:** Google meet

**Resource Person:** Dr. Satish Nainala, Assistant Professor, GITAM University, Hyderabad

  
Dr. M. Upender, Faculty Coordinator

9676734242

Course Coordinator

  
Prof. G. Karuna Kumari

  
HoD, FE

Prof. G. Neeraja Rani

  
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Guest Lecture on "Introduction to Academic Writing".

23-02-21

Dr.N.Sateeshkumar

225

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### Literary Club and Department of Freshman Engineering

Welcome you all to the Guest lecture on

### 'Introduction to Academic Writing'

On Saturday, 23<sup>rd</sup> January 2021 (1:30 pm to 3.00 pm)

Invited Speaker

**Dr. Satish Kumar Nainala**

**Assistant Professor, GITAM University, Hyderabad**

REC SATISH KUMAR NAINALA is presenting

### What is academic writing?

- ❖ Academic writing is:
- ❖ Planned and focused: answers the question and demonstrates an understanding of the subject.
- ❖ Structured: is coherent, written in a logical order, and brings together related points and material.
- ❖ Evidenced: demonstrates knowledge of the subject area, supports opinions and arguments with evidence, and is referenced accurately.

Meeting details clos

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20K11A0016 DHANAL  
20K11A0017 EEDA VA  
20K11A0018 CARAMEL  
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20K11A0025 KATTA C  
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20K11A0030 KOTI TUR

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pan\_tool Rate hand closed\_caption\_off Turn on captions

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REC SATISH KUMAR NAINALA is presenting

- ❖ Ask the following questions to discover the purpose
- ❖ Am I trying to inform my audience about a subject they do not know much about but would be interested in knowing?
- ❖ Am I trying to show the audience a new way to look at this subject, a way they ay not have thought of before?
- ❖ Am I trying to persuade my audience to agree with my point of view on this subject?

Meeting details close

10:05

Show or hide controls

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Guest Lecture on Introdu... keyboard\_arrow\_up

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## Report on Guest lecture

A guest lecture titled “**Internet of Things: Mathematical Relevance**” was organized on 02<sup>nd</sup> February, 2021 by Mathematics club of FE department. Eminent speaker Dr. Peddoju Sateesh Kumar, Associate Professor, Department of Computer Science and Engineering, IIT Roorkee, delivered the guest lecture.

After the speaker's formal introduction, the session began; students grasped the importance of what IOT is. Detailed rundown of future smart phone and intelligent gadgets. Components, IOT negatives, and IOT work have also been clarified. Finally, the emphasis was on the IOT's mathematical significance.

210 students from CSE (all sections), CSE-CS, CSE-DS, CSE-AIML, CSE-IOT branches attended the session from 1.30 pm to 3.30 pm.

The feedback forms were also collected from the students who attended the guest lecture.

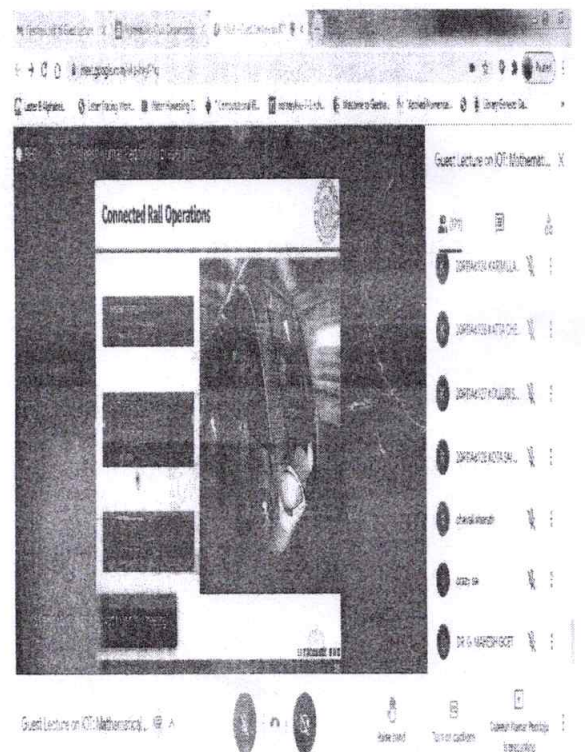
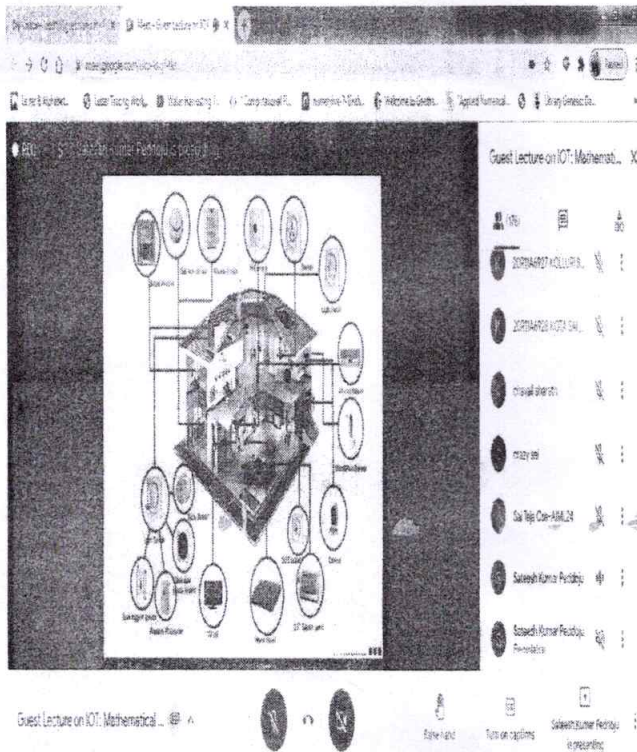
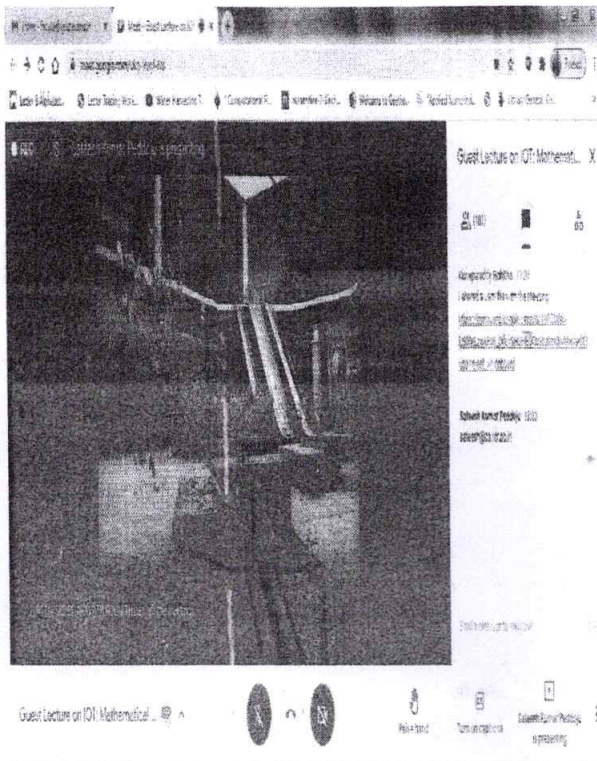
Co-Ordinator  
Dr. V. S. Triveni


*CVS*

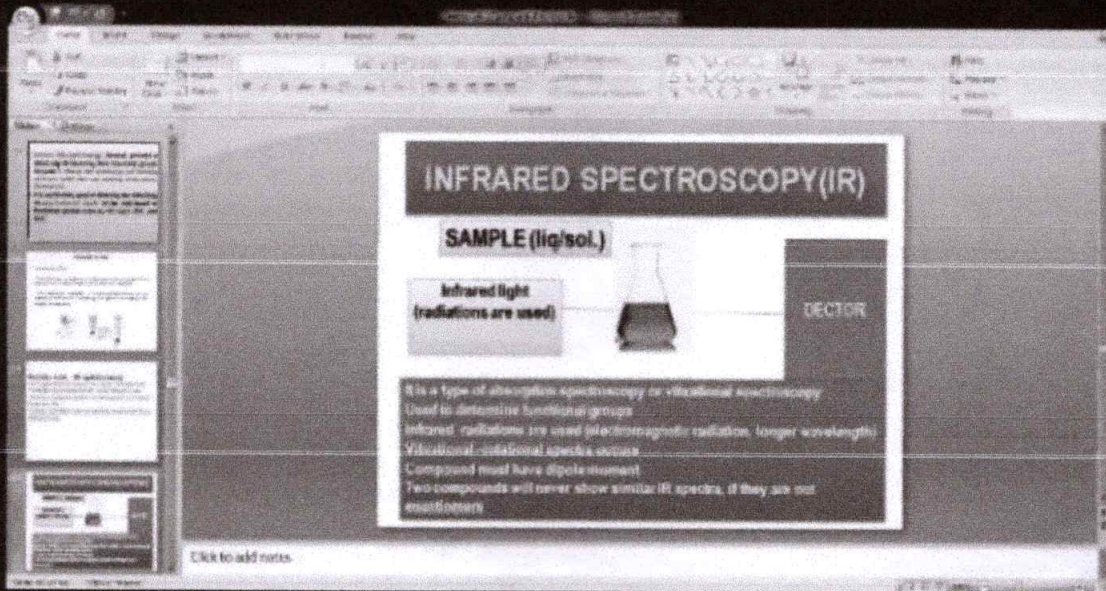
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# ~~/\$~~ Thirumala Charya Maringanti

Department of Surg. and Tech.  
Charya (V), Ayurveda, Medical Univ. (U.S.A) - 501 301



You



Dr.Sanjeev



Thirumala...

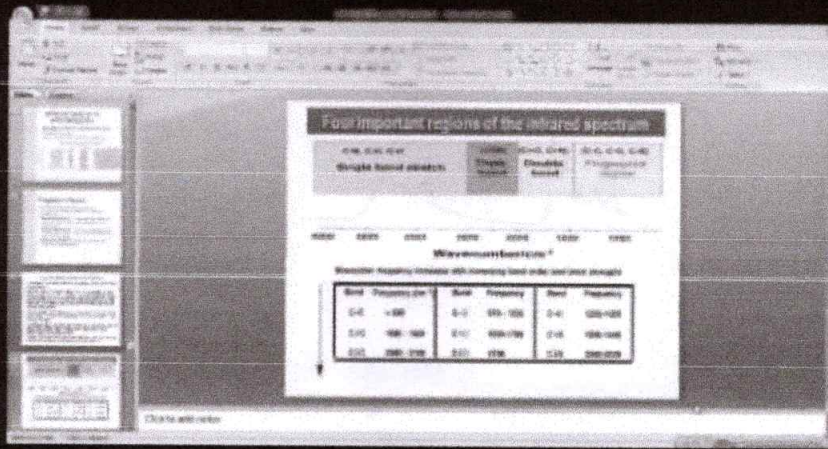


156 others

← amg-xiuj-hdc ▶



REC



20R11A6917 EEGA VAMSHI SAGAR joined

Participant list:

- P** You
- G** Geethanja...
- G B** 116 others



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 College of Engg. and Tech  
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## REPORT ON GUEST LECTURE "SPECTROSCOPIC TECHNIQUES- IR& NMR"

A guest lecture on "SPECTROSCOPIC TECHNIQUES- IR& NMR" was held on 19<sup>th</sup> and 20<sup>th</sup> February 2021 for the benefit of students, as the topic is included in curriculum.

Dr. Thirumala Chary, Retd. Professor from JNTUH, Hyderabad gave lecture on spectroscopy. He started with the fundamentals of spectroscopy. He touched all areas of spectroscopy that is required for freshman chemistry that is rotational spectra, vibrational spectra, UV-VIS spectra and NMR spectra. The application of rotational spectra to determine the moment inertia was extremely lucid and useful for the students. The commonality of selection rules of rotational and vibrational spectra was intriguing. The plausible transitions in UV-VIS spectra which he spoke about appeared in the examination many times. The fundamentals of NMR spectra and its applications in MRI was extremely useful.

At the end of the lecture, everyone thanked him profusely for his extremely comprehensive talk.

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### Report on Webinar

Department of Freshman Engineering, Mathematics Club and Outreach Cell organized a Webinar on **"Post COVID Fungi"** by eminent speaker **Dr S. Parthasarathy, MD, General Medicine, Consultant, Navodaya Hospitals, Secunderabad** on June 1<sup>st</sup>, 2021 (Tuesday) from 4.00 p.m. to 5.00 p. m through Online ( Microsoft Teams) for Students of B. Tech and MBA, Parents, Faculty. The link was shared in the respective whatsapp group.

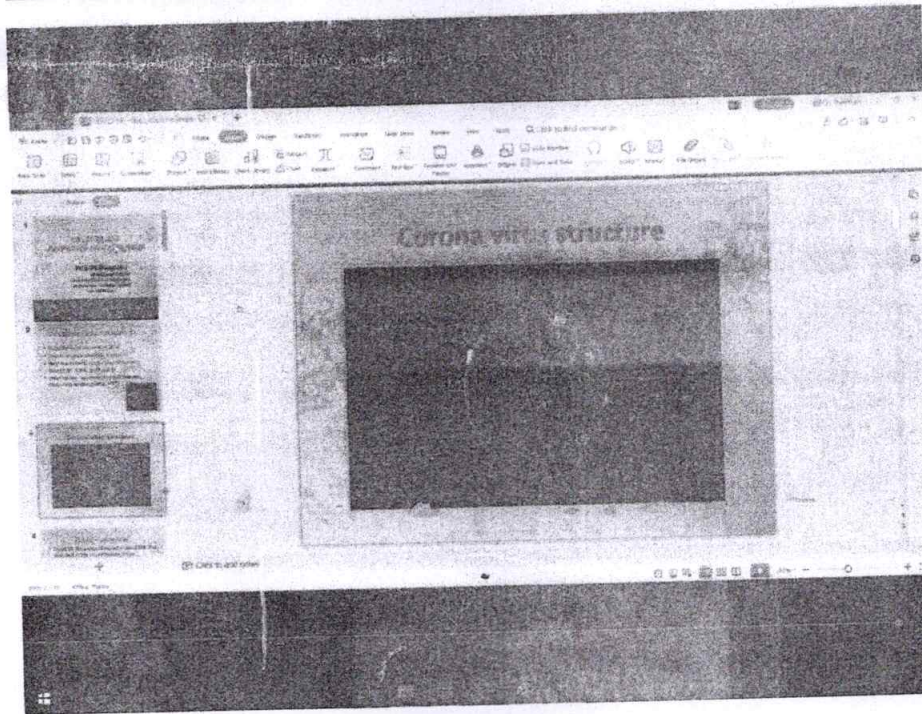
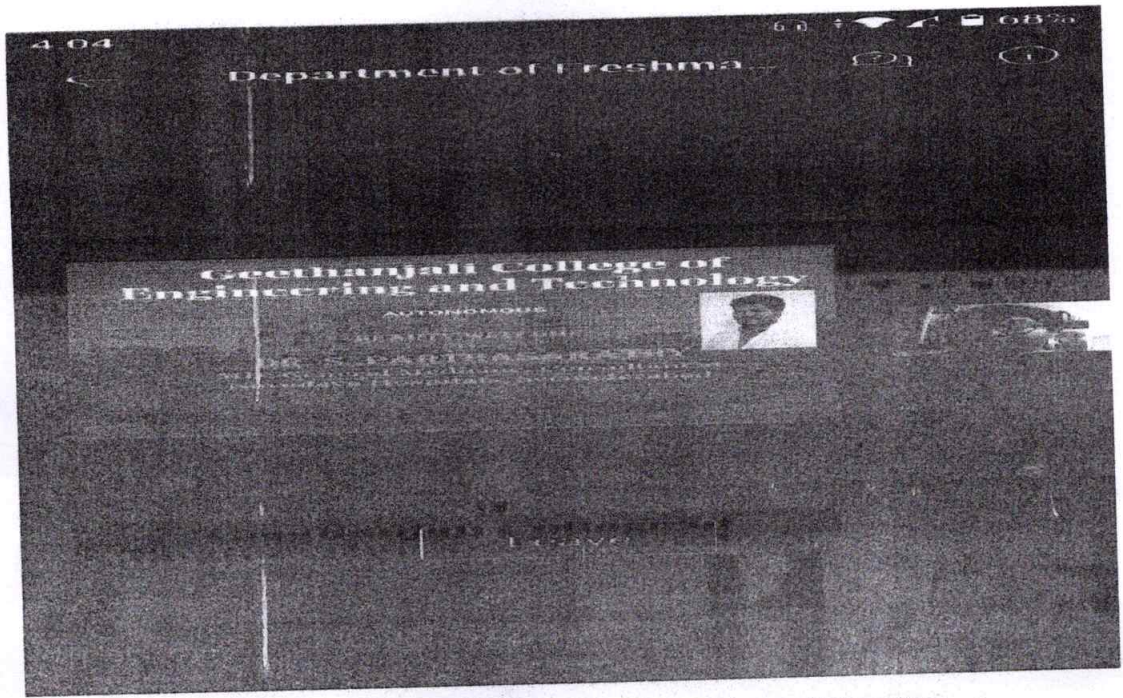
He started the session with the origin of COVID-19 i.e., what is Corona virus? Sir has explained COVID diagnosis and the risk group. Sir discussed various aspects of Post COVID complications such as fungal infections, Risk factors. Sir has explained the treatment procedure of COVID-19. Sir concluded the session with mentioning the precautions to be followed as the statement says: "prevention is better than cure".

105 participants have attended the session. The feedback link was posted in the chat box and responses were collected.

Co-Ordinator  
Dr.V.S.Triveni



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**Department of Freshman Engineering**

**Circular**

Dt: 01-06-2021

All ECE first B.Tech II Sem. students are invited for a **“Chi-Chat on Life, B. Tech and Growth”** with **Mr. Sai Karthik and Mr. Raghu Vamshi -Alumni of NIT (Warangal)**, Founder Members of IOT Club at **4 pm on 5<sup>th</sup> June 2021** via Google meet. All are informed to attend the same without fail.

Link will be shared in the respective class groups two hours before the program.

Coordinator



Dr. N. Subhadra

Associate Professor of Mathematics

Convener



Dr. G. Neeraja Rani

Head, Dep. of Freshman Engineering



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Medchal District  
Hyderabad, T.S  
Report on Chit-Chat on Life, B.Tech and Growth  
06-05-2021

Mr. D. Sai Karthik and Mr.R.Rafhu Vamsi, Alma mater of NIT Warangal interacted with I B.Tech students on the advantages of enhancing one's portfolio by completing projects, participation in workshops, completing projects and Internships.

120 students participated in the guest lecture. Speakers, with their real life examples made the session interactive and informative.

Coordinator  
Dr.N.Subhadra   
Associate Professor of Mathematics



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Date: 01/06/2021

Circular

The Literary Club in collaboration with Department of Freshman Engineering is organizing a Guest Lecture on the topic “**Use of Technology to Enhance Speaking Skills**” for the first-year (ECE-A, B, C &D) students through virtual mode. All students are informed to attend the lecture without fail.

**Note:** Attendance is mandatory.

**Date:** 05-06-2021

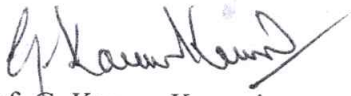
**Time:** 2.00 pm to 3.30 pm

**Platform:** Google meet

**Resource Person:** Dr. Deepesh Chandrasekharan, Assistant Professor, Shiv Nadar University, Chennai

Dr. M. Upendar, Coordinator, Guest Lecture

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Prof. G. Karuna Kumari

Course Coordinator

  
Prof. G. Neeraja Rani

HoD, FE

  
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Guest lecture organized by Literary Club in collaboration with Department of Freshman Engineering

**Date:** 05-06-2021

**Topic:** Use of Technology to Enhance Speaking Skills

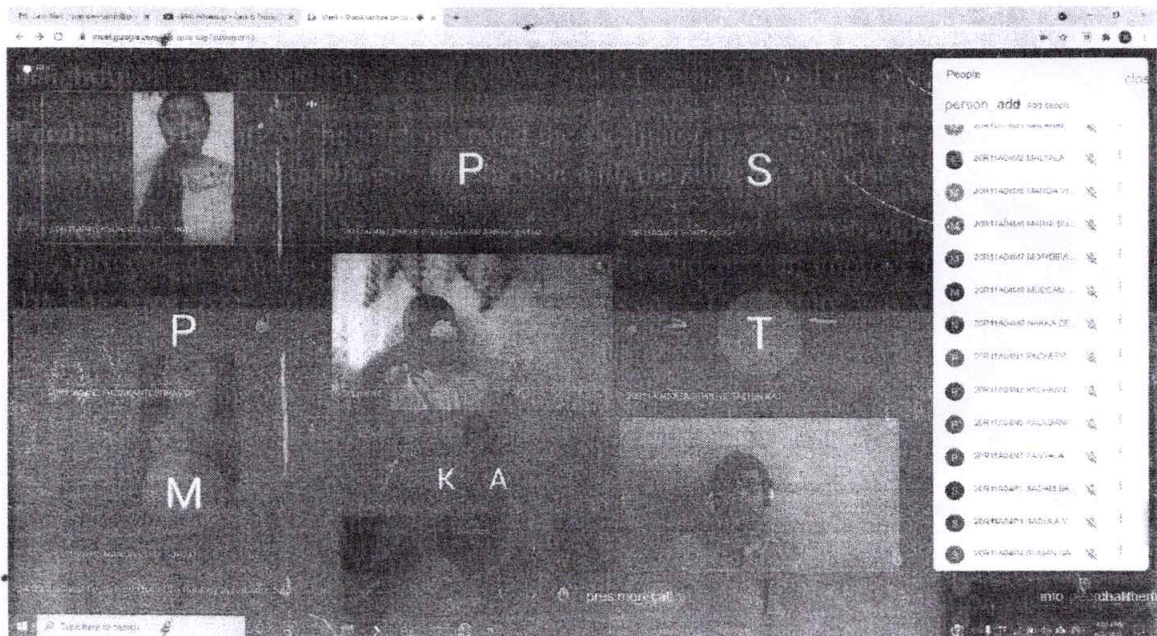
**Resource person and Affiliation:** Dr. Deepesh Chandrasekharan, Assistant Professor,  
Shiv Nadar University, Chennai.

**In charge:** Dr. M. Upender

**Snippets of the Session:** The guest lecture started with a formal introduction of the speaker. The students were introduced to the importance of English, historical background of English in India and preparation for speaking skills in general and enhancing speaking skills using technology in particular. He touched upon all major components of speaking skills such as listening as foundation to speaking, vocabulary, reading and speaking among peer groups. He has introduced various online platforms where the students can improve their speaking skills. He has also given inputs to neutralize one's accent. The lecture was very informative and insightful.

**Feedback:** Majority of the students rated the facilitator as excellent. The delivery of contents was excellent and the facilitator's interaction with the students was also excellent.

**Photos:**



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Guest Lecture on "Use of technologies to enhancespeaking skills".

05-06-2021

Dr. Deepesh Channdrashekaran

175

Day-3 Definition Essay PPT - ani x (1) Whatsapp x Meet - vdt-qsta-uxy x Bing x +

meet.google.com/vdt-qsta-uxy

REC Deepesh C is presenting

Enhancing Speaking Skills Online

Dr. Deepesh Chandrasekharan  
Shiv Nadar University, Chennai

People

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- 20R11A04P4 SUMAN NAY...
- 20R11A04P5 THATIFALLY...
- 20R11A04P9 YEJARLA BR...
- Deepesh C
- Deepesh C Presentation
- Geethanjali College Engin...
- P. MERCY KAVITHA GCET
- uma devi

2:05 PM | vdt-qsta-uxy

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Day-3 Definition Essay PPT - x (1) Whatsapp x Meet - vdt-qsta-uxy x Bing x Home - Unique Identification: x +

meet.google.com/vdt-qsta-uxy

REC Deepesh C is presenting

The Phonemic Chart

i:	ɪ	ʊ	u:	ɪə	eɪ	
ɛ	ə	ɜ:	ɔ:	ʊə	ɔɪ	oʊ
æ	ʌ	ɑ:	ɒ	ɛə	aɪ	aʊ
p	b	t	d	tʃ	dʒ	k
f	v	θ	ð	s	z	ʃ
m	n	ŋ	h	l	r	w

People

- 20R11A04P3 VUNNAVA K...
- B.VANAJA RANI GCET
- Deepesh C
- Deepesh C Presentation
- Dr. Nemani Subadra GCET
- Geethanjali College Engin...
- uma devi
- V. RAMAIAH CHARY GCET
- Yejarla Brahmani

2:33 PM | vdt-qsta-uxy

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**Cheeryal(V), Keesara(M), Medchal (Dist) -501301**

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**Circular**

Chemistry department is organizing a guest lecture on the topic “ Organic Reaction Mechanisms” for the I- B.Tech (ECE, EEE, ME and CE) students through online mode.

Date : 11-06-2021  
Time : 3 .00 to 4.00 PM  
Platform : Google meet  
Resource Person: Dr. Jagadeesh Kumar Ega  
Professor of Chemistry  
Chaitanya Deemed to be University, Hanamkonda.

Guest lecture Coordinators : Dr. P. Sreedhar and K. Satish

  
HoD- FE

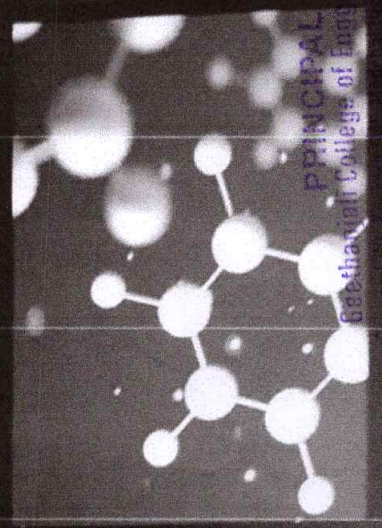
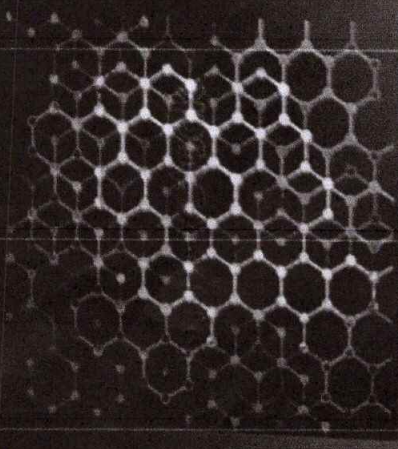
  
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S SHASHIKALA KETHIREDDY GCET is presenting

Welcome  
**Dr. E. Jagadeesh kumar**  
Professor, Department of Chemistry  
Chaitanya Deemed to be University  
Hanamakonda

to deliver a lecture on

# ORGANIC REACTION MECHANISMS



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SHASHIKALA KET

K  
KETHA SWARUP

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Prof. Jagadeesh Kumar is presenting

**Hydroboration of alkenes**

solvent (diethyl ether)

**Regiochemistry**  
 "anti-Markovnikov"  
 H adds to carbon with fewest attached hydrogens

**Stereochemistry**  
 "Syn"  
 H and B add to same face of alkene

- No rearrangements observed
- Never observe incorporation of solvent

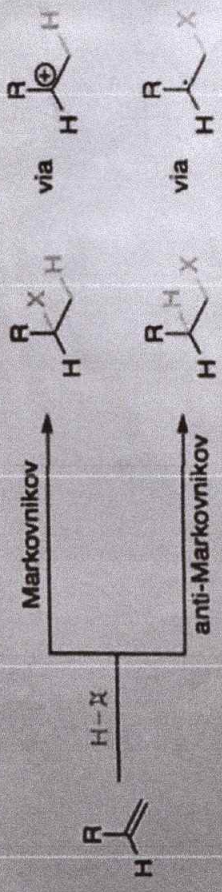
*Inconsistent with a free carbocation or with an intermediate 3-membered ring*

Participants:

- Prof. Jagadeesh K. (P)
- Dr. J V MADHURI G. (D)
- Dr. Sanjeev Rachuru (D)
- SHASHIKALA KET. (S)
- ZORHIAO303 B.SAL. (G)
- 51 others (YT)
- You (G)

Prof. Jagadeesh Kumar is presenting

### Markovnikov's and anti-Markovnikov's additions:



The rule states that, with the addition of a Protic acid HX (X=Cl, Br, I) to an asymmetric alkene, the acid hydrogen (H) gets attached to the carbon with more hydrogen substituent's and the halide (X) group gets attached to the carbon with more alkyl substituent's.

Meeting participants:

- Prof. jagadeesh K. (P)
- Dr. J V MADHURI G. (D)
- SHASHIKALA KET. (S)
- Dr. Sanjeev Rachuri (D)
- 20R1A04142 PAD. (P)
- 20R1A0330 MOB. (M)
- 72 others
- 20R1A0340 V SA. (V)
- You (G)

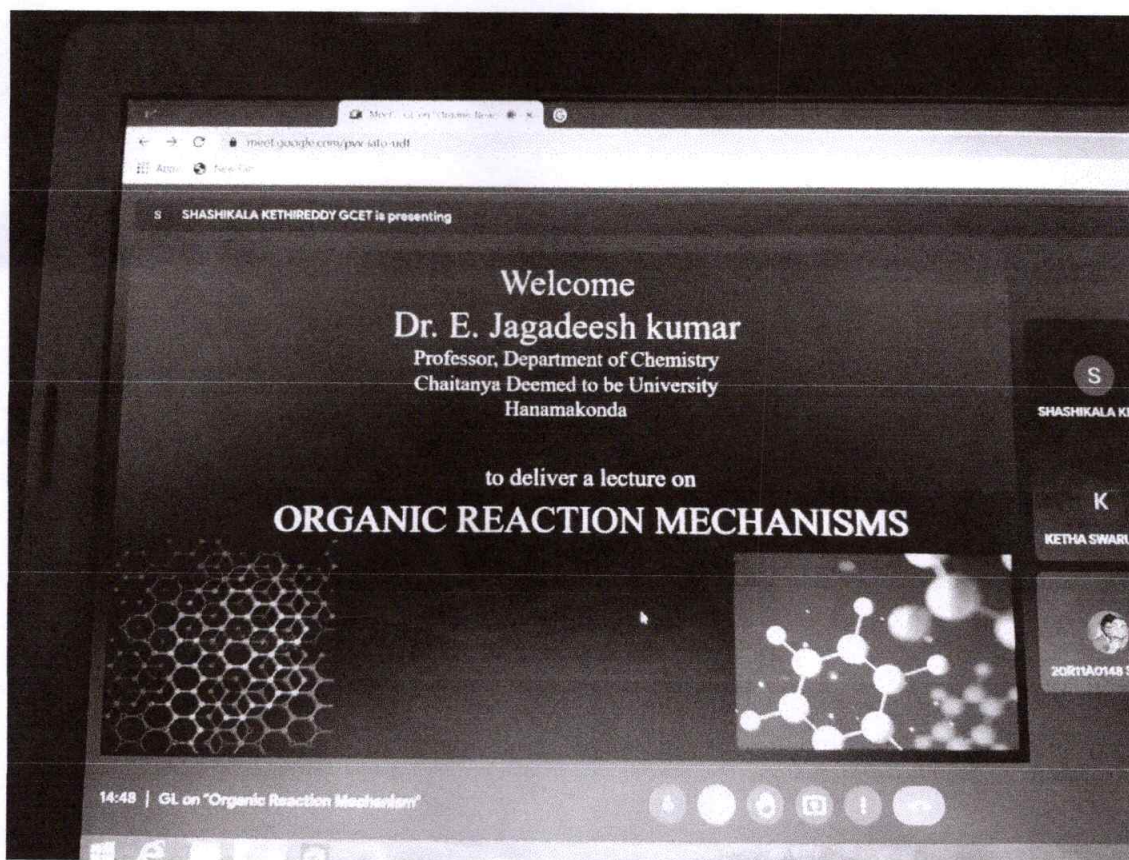
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## REPORT ON GUEST LECTURE "ORGANIC REACTION MECHANISM"

A guest lecture on "ORGANIC REACTION MECHANISM" was held on 11<sup>th</sup> June 2021 to the students imparting additional knowledge on various mechanisms, as the topic is included in curriculum. Lecture was given by Dr. E. Jagadeesh Kumar, Professor, Chaitanya Deemed to be University.

Dr. Jagadeesh gave lecture on various reaction mechanisms and their applications. He started with various types of reactions. He covered all types of reactions such as addition, substitution and elimination. The application of Markownikoff's and anti Markownikoff's rules addition reaction mechanisms was clearly explained and extremely useful for the students.

At the end of the lecture, everyone thanked him profusely for his extremely comprehensive talk.



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Chazhal (V), Keesara (M), Medchal Dist. (T.S.), T.



Meeting ID: 987 654 3210

WhatsApp: +91 98765 43210

Prof. Jagadeesh Kumar is presenting

decreasing basicity, increasing stability

$pK_b = 23$	$pK_b = 22$	$pK_b = 21$	$pK_b = 11$	$pK_b = -1.7$
$I^-$	$Br^-$	$Cl^-$	$F^-$	$HO^-$
30,000	10,000	200	1	0

The best leaving groups are the weakest bases.

The poorest leaving groups are the strongest bases.

increasing leaving ability

**2<sup>nd</sup> Order S<sub>N</sub>2 Nucleophilic Substitution Reactions:**

Transition state

Participants:

- Prof. Jagadeesh K.
- SHASHIKALA KET.
- ZORHAGAD PRO.
- ZORHAGAD LOK.
- ZORHAGAD SAI K.
- ZORHAGAD MO.
- ZORHAGAD V SA.
- 62 others
- G

18:26 | 01 on "Organic Reaction Mechanism"

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Cheeryal (V), Keesara (M), Medchal Dist. – 501301, Telangana

**Department of Freshman Engineering**

Date: 16/2/2021

**Circular**

Science club of Freshman Engineering Dept. is organizing online guest lecture for I B.Tech I Semester students.

**Title: “Interaction of Electromagnetic Radiation with Matter”**

**Resource Person: R. Sai Santhosh, Associate Professor, IIT Hyderabad**

**Mode: online Google Meet**

**Date: 18/2/2021**

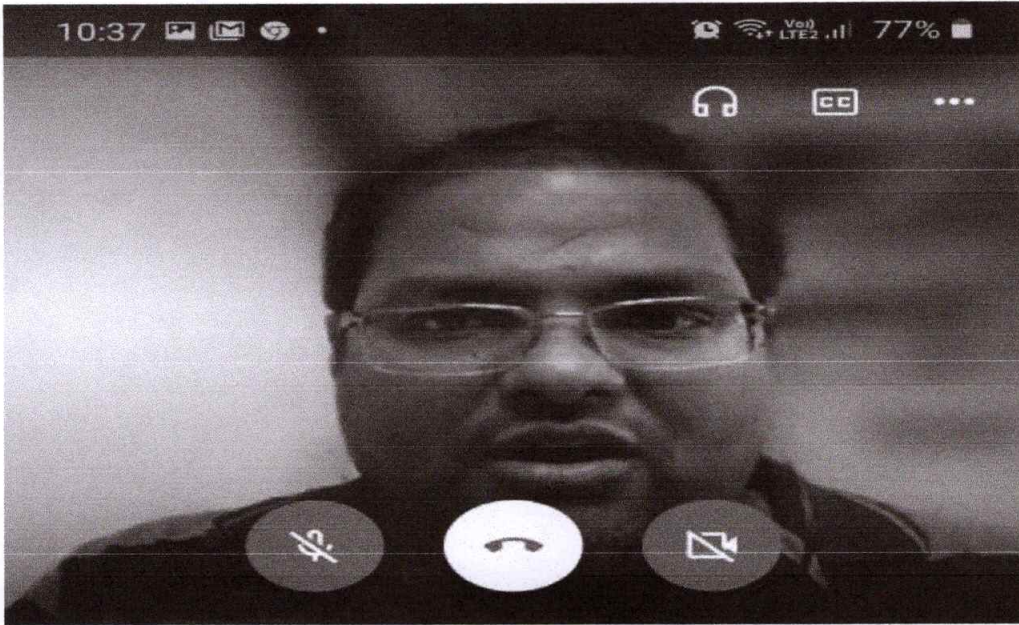
**Time: 10-11 am**

Google meet link will be posted in class WhatsApp groups at 9.30 am on 18/2/21.

*Circle*  
**HOD-FE**

**Dr. G. Neeraja Rani**

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**D** DR.SHANKAR JAKKULA GCET (You)

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**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**Cheeryl (V), Keesara (M), Medchal (Dist.) – 501301**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**Guest Lectures (AY:2020-2021)**

S.No.	Title	Resource Person	Designation and Organization	Date	Target Audience
1	Applications of power electronics in electric vehicles	Dr. Mahmadasraf A. Mulla	Associate Professor, S.V. National institute of technology, Surat	14/7/2021	III(A & B)
2	Power generation and trading	Mr. S. Madhukar	Sr. Engineer-Technical, Dans Energy Private Ltd	10/7/2021	II (A & B)
3	Electromechanical energy conversion in rotating machines	Dr. G. V. Nagesh Kumar	Professor, Head-EEE at JNTUA college of engineering, Pullivendula	18/06/2021	II, III(A & B)
4	Battery fundamentals and applications	Mr. K.V.V.K Chaitanya	Technical Specialist, M/s Robert Bosch Engineering and Business Solutions	17/06/2021	II,III,IV(A & B)
5	State space design for control systems	Dr. P. Bharani Chandra Kumar	Professor, Head-EEE and R&D coordinator at GMRIT, Rajam	10/06/2021	III (A & B)
6	Self motivation and how to achieve set goals	Smt. Revathi Turaga	International trainer and inspirational speaker	8/06/2021	II, III(A & B)
7	Hybrid Electric Vehicle-overview	Dr. Naveen Kumar Marati	Architect-Electrification , Wipro Bangalore	25/01/21	II, IV(A & B)
8	How to be Industry ready	Mrs. Usha Gorthy	Senior Manager- Dell India Pvt. Limited	19/01/21	III ( A & B)
9	Alternator construction-working, optimization and applications in power system	Dr. D.P. Kothari	Professor-IIT, Delhi	11/01/21	III (A & B)

  
**Guest Lecture Coordinator**

  
**HOD-EEE**

**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**


**CIRCULAR**


Date: 13-07-2021

A Guest lecture on “Applications of power electronics in electric vehicles” will be organized by the Department of EEE in association with IEEE, SB(Power & Energy Society) GCET. All III year (A & B section) students are recommended to attend this without fail.

Topic : “Applications of power electronics in electric vehicles”  
Target Audience : III year (EEE) students , A & B sections  
Resource Person : Dr. Mahmadasraf A. Mulla,  
Associate Professor, S.V.National institute of technology, Surat  
Date : 14-07-2021 (Wednesday)  
Time : 10:00 AM to 11:00 AM  
Mode of conduction : Online (Google meet)  
Link : will be provided on 14-07-2021.  
Coordinator : Mrs. Azra Zaineb, Assistant Professor, EEE Dept.

Note: All the students should join the meeting using GCET official mail ids only

  
Azra Zaineb  
Faculty Coordinator

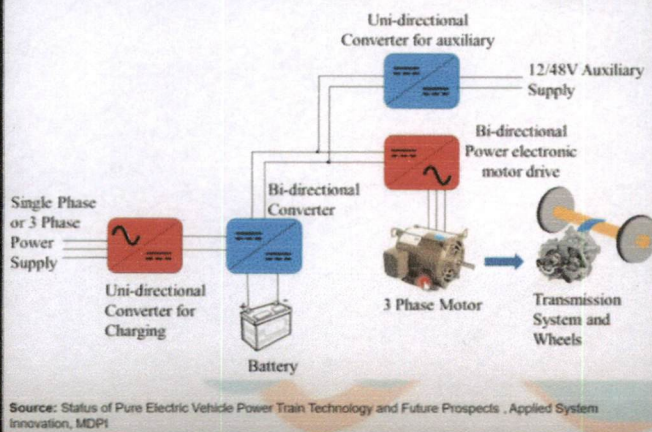
  
Dr. D. Radhika  
Prof and HOD, EEE

  
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Guest lecture on “**Applications of power electronics in electric vehicles**” by Dr. Mahmdasraf A. Mulla, Associate Professor, S.V. National institute of technology, Surat.

GL on "Applications of power electronics in electric vehicles" (2021-07-13 at 21:29 GMT-7)

**Typical Power Electronics System in EV**



10:57 / 1:03:47

Activate Windows  
Go to Settings to activate Windows.

**Outline**

- Typical Power Electronics System in EV
- Typical Electrical Drives System
  - Different Types of Electrical Motors
  - Motors used in EVs
- EV Batteries Charging System
- Developing BLDC Motor Drives



Activate Windows  
Go to Settings to activate Windows.

  
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**Geethanjali College of Engineering and Technology  
(Autonomous)**

**Department of Electrical and Electronics Engineering**

**GUEST LECTURE REPORT**

Topic : "Applications of power electronics in electric vehicles"  
Target Audience : III year (EEE) students , A & B sections  
Resource Person : Dr. Mahmadasraf A. Mulla,  
Associate Professor, S.V.National institute of technology, Surat  
Date : 14-07-2021 (Wednesday)  
Time : 10:00 AM to 11:00 AM  
Mode of conduction : Online (Google meet)  
Link : <https://meet.google.com/ieg-uoxp-xwy>

**Summary of the talk**

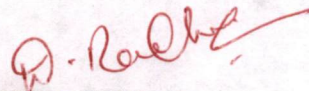
Dr.Mahmadasraf A. Mulla started the session with an introduction about the typical power electronics system in electric vehicles and layout of electric drive.

He explained about typical electrical drives system and different types of electrical motors. And motors which are used in electric vehicles and their applications.

He spoke about Electronically Commutated DC(BLDC) Motor Drives which are classified as Mechanically Commutated and Electronically Commutated. He showed a video on BLDC motor. He explained requirements of digital controller.

The whole session was informative and students gained knowledge about power electronic components and functionalities used in electric vehicle system.

  
**Faculty Coordinator**

  
**HOD-EEE**

  
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**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**


**CIRCULAR**

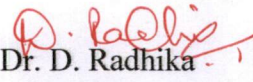
Date: 9-07-2021

A Guest lecture on “Power generation and trading” will be organized by the Department of EEE in association with IEEE, SB(Power & Energy Society) GCET. All II year (A & B section) students are recommended to attend this without fail.

Topic : “Power generation and trading”  
Target Audience : II year (EEE) students , A & B sections  
Resource Person : Mr. S. Madhukar  
Sr. Engineer-Technical, Dans Energy Private Ltd, Gurgaon  
Date : 10-07-2021 (Saturday)  
Time : 2:00 PM to 3:00 PM  
Mode of conduction : Online (Google meet)  
Link : will be provided on 10-07-2021.  
Coordinator : Mrs. Azra Zaineb, Assistant Professor, EEE Dept.

Note: All the students should join the meeting using GCET official mail ids only

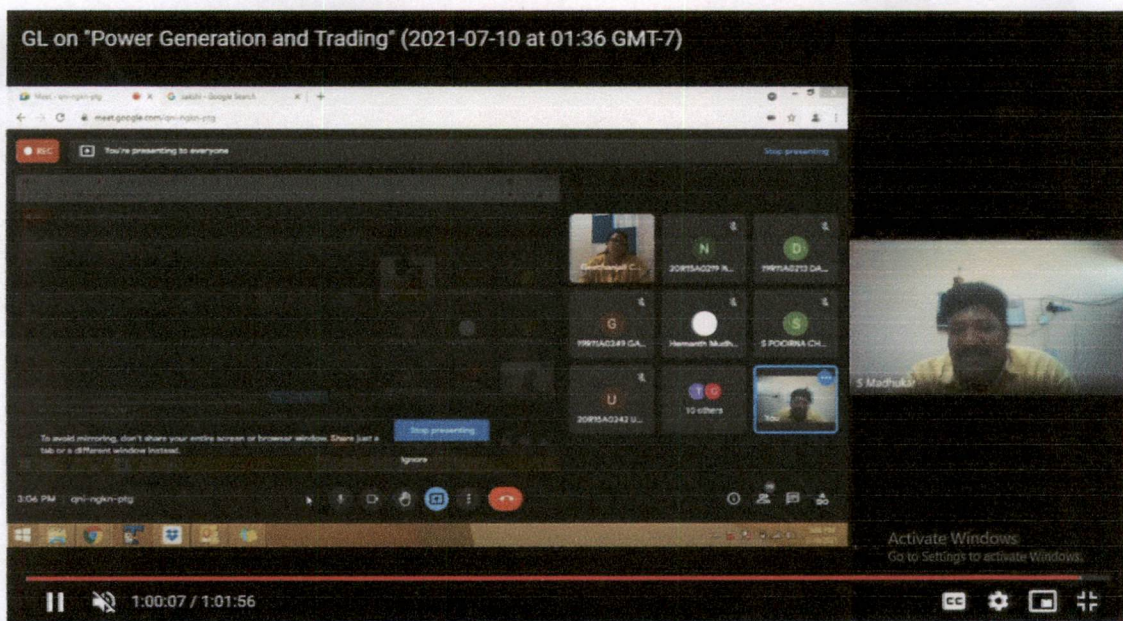
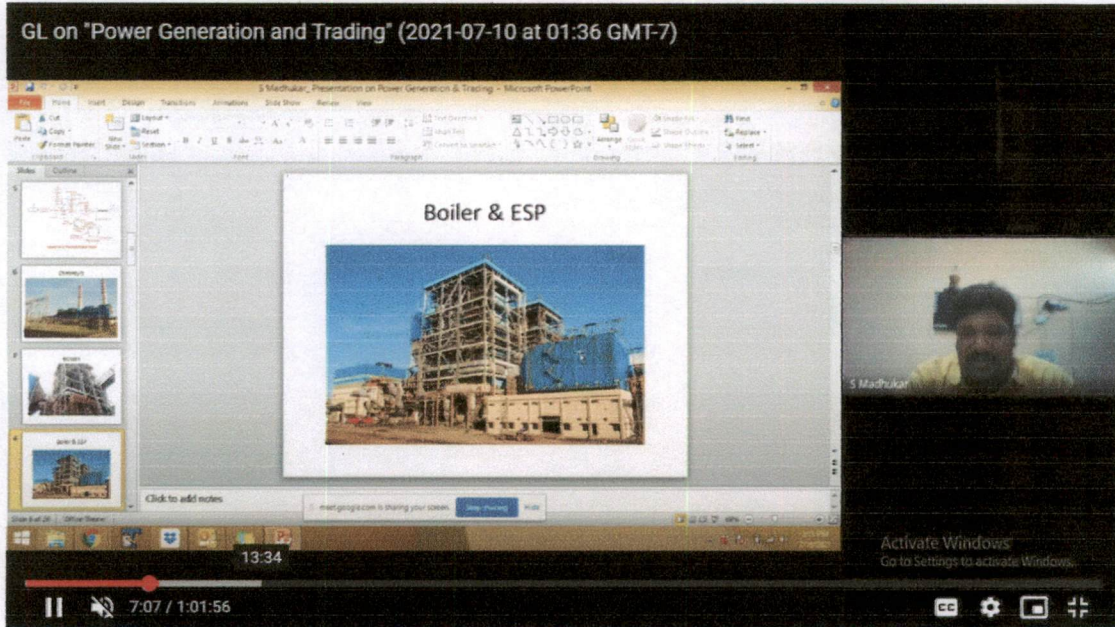
  
Azra Zaineb  
Faculty Coordinator


  
Dr. D. Radhika  
Prof and HOD, EEE

  
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Guest lecture on **“Power generation and trading”** by  
Mr. S. Madhukar, Sr. Engineer-Technical, Dans Energy Private  
Ltd



  
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**Geethanjali College of Engineering and Technology  
(Autonomous)**

**Department of Electrical and Electronics Engineering**

**GUEST LECTURE REPORT**

Topic : "Power generation and trading"  
Target Audience : II year (EEE) students , A & B sections  
Resource Person : Mr. S. Madhukar  
Sr. Engineer-Technical, Dans Energy Private Ltd, Gurgaon  
Date : 10-07-2021 (Saturday)  
Time : 2:00 PM to 3:00 PM  
Mode of conduction : Online (Google meet)  
Link : <https://meet.google.com/qni-ngkn-ptg>


**Summary of the talk**

S. Madhukar started the session with an introduction about the structure of power system and types of power generation Then he explained the layout of Thermal Power Plant. He showed images of the equipments used in the plant. He also explained boiler, chimney heights and where they are placed in plant. He

He talked about power sales, protection gears and electricity acts in power transmission and distribution and power generated per year. Also about the power grid purpose and the transformers used in grid, rules and regulation for building a power plant.

He spoke on power trading and its scope. He explained terms like Short Term Open Access (STOA) Mid Term Open Access (MTOA) and Long Term Open Access (LTOA). He said that there are number of job opportunities in this field.

At the end of the session students would be able to distinguish and analyse different types of power generation and trading.

  
**Faculty Coordinator**

  
**HOD-EEE**

  
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**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**CIRCULAR**

Date: 17-06-2021

A Guest lecture on “Electromechanical energy conversion in rotating machines” will be organized by the Department of EEE in association with IEEE, SB(Power & Energy Society) GCET. All II, III year (A & B section) students are recommended to attend this without fail.

Guest Lecture On : “Electromechanical energy conversion in rotating machines”

Target Audience : : II, III(EEE) students , A & B sections

Resource Person : Dr. G. V. Nagesh Kumar,  
Prof., Head-EEE at JNTUA college of engg, Pullivendula

Date : 18-06-2021 (Thursday)

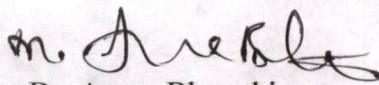
Time : 10:00 AM to 11:00 AM


Mode of conduction : Online (Google meet)


Link : will be provided on 18-06-2021.

Coordinator : Dr. Aruna Bharathi, Professor, EEE Dept.

Note: All the students should join the meeting using GCET official mail ids only

  
Dr. Aruna Bharathi  
Professor

  
Dr. D. Radhika  
Prof and HOD-EEE

  
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Guest lecture on “**Electromechanical energy conversion in rotating machines**” by


Dr. G. V. Nagesh Kumar, Professor, Head-EEE at JNTUA college of engineering, Pullivendula

The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide titled "Magnetic Field - Properties". The slide contains four numbered points:

- 1. Magnet has two poles** –These are the ends of a magnet where magnetic force is strongest. Below this text is a diagram of two bar magnets. The first is labeled 'S S' and the second is labeled 'N S', with magnetic field lines shown around them.
- 2. When a magnet is suspended freely, it comes to rest in the north-south direction.** Below this text is a diagram of a bar magnet suspended from a stand, with a compass needle below it.
- 3. Magnet always attracts objects made up of iron and steel.** Below this text is a diagram of a horseshoe magnet attracting small iron filings.
- 4. Poles always exist in pairs. They cannot be separated.** Below this text is a diagram showing a bar magnet being cut in half, resulting in two smaller bar magnets, each with its own north and south pole.

The Zoom interface includes a top bar with "Press Esc to exit full screen", a grid of participant thumbnails on the right, and a bottom toolbar with icons for mute, video, chat, and other functions. A Windows watermark for "Azra" is visible in the bottom right corner of the Zoom window.

This screenshot shows a Zoom meeting grid with several participants. The participants are represented by circular icons with letters: 'M', 'R', 'T', 'D', 'Y', and 'M'. One participant, 'Dr. Aruna Bhaskar M GCET', is highlighted with a blue border. The Zoom interface includes a top bar with "Press Esc to exit full screen", a bottom toolbar with icons for mute, video, chat, and other functions, and a Windows watermark for "Azra" in the bottom right corner.

  
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**Geethanjali College of Engineering and Technology  
(Autonomous)  
Department of Electrical and Electronics Engineering**

**GUEST LECTURE REPORT**

Topic : "Electromechanical energy conversion in rotating machines"  
Resource Person : Dr. G. V. Nagesh Kumar,  
Prof., Head-EEE at JNTUA college of engg, Pullivendula  
Target Audience : II, III(EEE) students , A & B sections  
Date : 18-06-2021 (Thursday)  
Time : 10:00 AM to 11:00 AM  
Mode of conduction : Online (Google meet)  
Link : <https://meet.google.com/igk-cyaz-s>

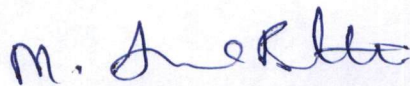
**Summary of the talk**

Dr.G.V. Nagesh Kumar started the session with an introduction about the magnetic circuit, magnetic field properties and magnetic force equation. He explained difference between electric and magnetic circuits and parameters of electric and magnetic circuits. Usage & applications of Kirchoff's law and Ampere's circuit law. He explained series and parallel circuits and how to solve numericals. He also explained B-H Curves of magnetic circuit and solved numericals on magnetic circuits.

He explained with a block diagram of mechanical system and electrical system inputs how to obtain output. Finding the type of magnetic field systems from the magnetic system and explained about magnetic coupling mediums in generating device and motoring device.

He explained about the types of Magnetic field systems which are (1)Single excited systems and (2)Multiple excited systems. Then spoke about energy stored in magnetic field. He solved an example problem on energy stored in magnetic field . He also showed students how to solve for reluctance & magnetic force.

At the end the of the session students were able to understand the concepts of electromechanical energy conversion in rotating machines



**Faculty Coordinator**



**HOD-EEE**



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**


**CIRCULAR**

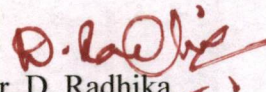
Date: 16-06-2021


A Guest lecture on “Battery fundamentals and applications” will be organized by the Department of EEE in association with IEEE, SB(Power & Energy Society) GCET. All II, III & IV year (A & B section) students are recommended to attend this without fail.

Guest Lecture On : “Battery fundamentals and applications”  
Target Audience : II,III,IV(EEE) students , A & B sections  
Resource Person : Mr. K.V.V.K Chaitanya,  
Prof, Head-EEE and R&D coordinator at GMRIT, Rajam  
Date : 17-06-2021 (Thursday)  
Time : 10:00 AM to 11:00 AM  
Mode of conduction : Online (Google meet)  
Link : will be provided on 17-06-2021.  
Coordinator : Dr.Madhuri Bayya, Associate Professor, EEE Dept.

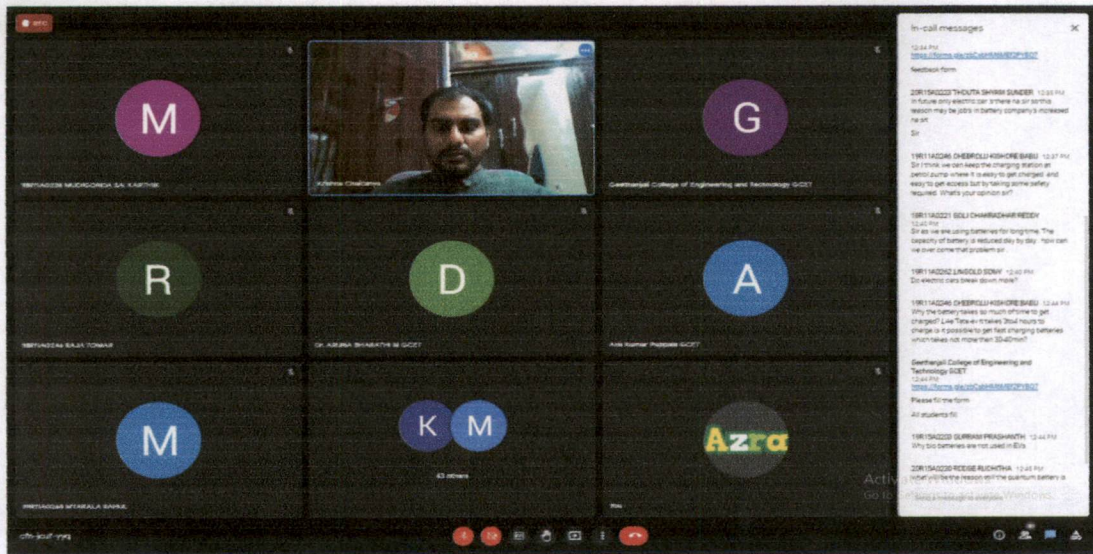
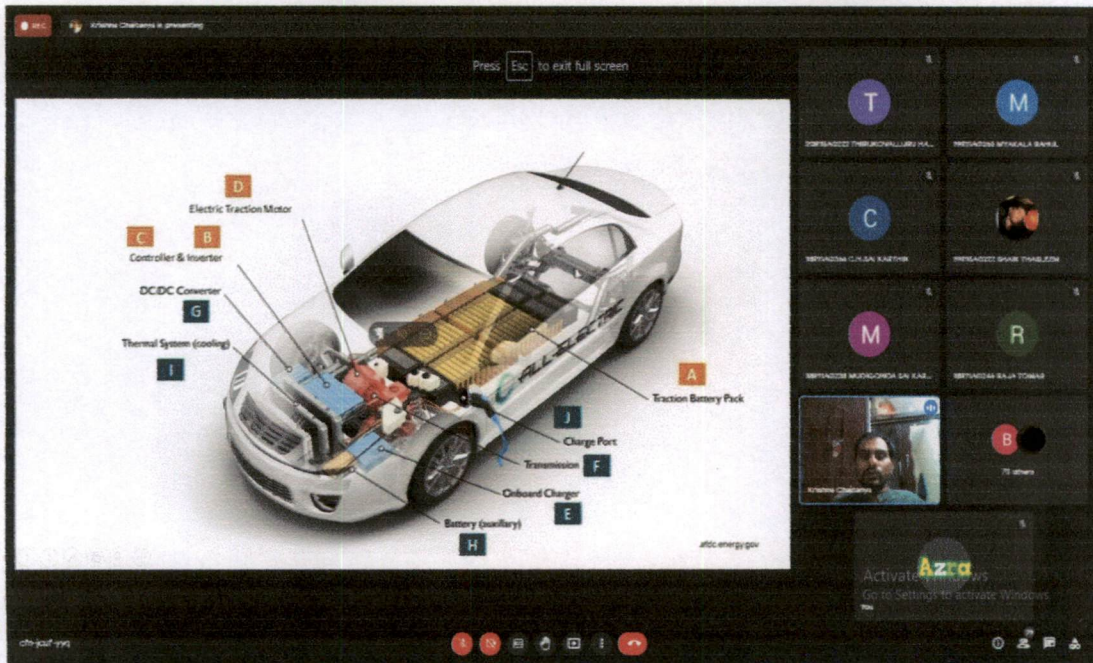
Note: All the students should join the meeting using GCET official mail ids only

  
Dr.Madhuri Bayya  
Associate Professor  
IEEE\_PES, SB, Coordinator

  
Dr. D. Radhika  
Prof and HOD, EEE

  
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# Guest lecture on “Battery fundamentals and applications” by Mr. K.V.V.K Chaitanya, Technical Specialist, M/s Robert Bosch Engineering and Business Solutions



*K.V.V.K*  
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**Geethanjali College of Engineering and Technology  
(Autonomous)**

Department of Electrical and Electronics Engineering

**GUEST LECTURE REPORT**

Topic : "Battery fundamentals and applications"  
Target Audience : II,III,IV(EEE) students , A & B sections  
Resource Person : Mr. K.V.V.K Chaitanya,  
Technical Specialist, M/s Robert Bosch Engineering and  
Business Solutions  
Date : 17-06-2021 (Thursday)  
Time : 11:00 AM to 12:00 PM  
Mode of conduction : Online (Google meet)  
Link : <https://meet.google.com/cfn-jcuf-yyq>

**Summary of the talk:**

The speaker for today's guest lecture is Mr.K.V.V.K Chaitanya from Robert Bosch India. He addressed the students on the topic batteries for Electric Vehicles.

The following is the summary report of the talk.

Battery is an electrochemical device invented by Allessandro Volta. It was a zinc and copper based battery. Lithium ion batteries were proposed by British chemist M.Stanley Whittingham for which he won the Nobel prize.

A cell is a single electrochemical unite and a battery is a combination of cells. There are three types of electrochemical sources: primary, secondary and fuel cells. Primary or non-rechargeable batteries are zinc, magnesium lithium sulfur dioxide, lithium thionyl chloride type of batteries. As the name indicates they cannot be recharged after use. Secondary batteries are of two types: acid based and alkaline based. Lead acid batteries are the most common type of secondary batteries. There two types of commercially available lead acid batteries namely: flooded and VRLA. The cells have a positive plate, a negative plate, a grid plate and electrolyte. They are basically acid based batteries.

Alkaline based batteries are lithium, silver zinc, nickel cadmium, NiMH to name a few. The nickel cadmium batteries are maintenance free batteries. Lithium ion batteries come as cylindrical, button or prismatic cells. The cylindrical and prismatic cells are predominantly used in electric vehicles.

Electrochemical cells work on the principle of redox reactions. The capacity of the battery is measured in ampere hour. For example, 100AH means that 100A in one hour. The power capacity of the battery is measured in watt hour. For electric vehicle applications, the watt hour is more important parameter than the ampere hour. Batteries undergo charge and discharge. The main types of charging are constant voltage and constant current. The discharge of a battery happens as constant current, constant voltage, constant power and constant resistance.

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The battery charge-discharge curves given by the manufacturer are a good indication of the performance of the battery. The discharge curves at different C-rates give us an idea about the performance of the battery. The different indicators of the battery are state of charge and state of health which give an indication of the state of the battery. The shelf life of the battery indicates the life of the battery when not in use. Lithium ion batteries have higher shelf life.

Battery modules are made of series and parallel combination of electrochemical cells. The batteries are connected in series to provide higher voltages and parallel for higher capacities.

The selection of a battery depends on the type of application: stationary or dynamic.

Depending on the application the type of chemistry of the battery is chosen. The voltage rating of the battery is selected to meet the high voltage requirements of the system. The load profile is an important indicator to select the battery type. The range of temperature for the application is predecided to enable the design of the cooling system. The space constraints of the battery module are the next parameter for decision. The service life and cost are the important parameters for the selection of the battery.

Secondary cells are used predominantly in electric vehicles. The initial batteries that were used were lead acid batteries. Nowadays lithium ion batteries are being used owing to their higher cycle life.


A typical electric vehicle battery power train has batteries as a primary source, alongwith the associated power electronics for power conversion to drive the motor. The selection of batteries for EV applications depends on the range and other operating conditions.



**Faculty Coordinator**



**HOD-EEE**



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**


**CIRCULAR**


Date: 09-06-2021

A Guest lecture on “State space design for control systems” will be organized by the Department of EEE in association with IEEE, SB(Power & Energy Society) GCET. All III year (A & B section) students are recommended to attend this without fail.

Topic : “State space design for control systems”  
Target Audience : III year (EEE) students , A & B sections  
Resource Person : Dr. P. Bharani Chandra Kumar,  
Prof, Head-EEE and R&D coordinator at GMRIT, Rajam  
Date : 10-06-2021 (Tuesday)  
Time : 10:00 AM to 11:30 AM  
Mode of conduction : Online (Google meet)  
Link : will be provided on 10-06-2021.

Note: All the students should join the meeting using GCET official mail ids only

  
Azra Zaineb  
Faculty Coordinator


  
Dr. D. Radhika  
Prof and HOD, EEE

  
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Guest lecture on “**State space design for control systems**”  
Dr. P. Bharani Chandra Kumar, Professor, Head-EEE and  
R&D coordinator at GMRIT, Rajam

The banner features the logos of Geethanjali College of Engineering and Technology and IEEE. The text reads: "Geethanjali College of Engineering and Technology (UGC Autonomous Institution Accredited by NBA & NAAC, Permanently Affiliated to JNTUH, ISO 9001:2015 certified). Department of Electrical and Electronics Engineering in association with IEEE PES SB cordially invites you to Guest Lecture By Dr. P. Bharani Chandra Kumar, Professor & Head-EEE, and R&D coordinator at GMRIT, Rajam On State Space Design for Control Systems 10<sup>th</sup> June 2021, 9am to 10:30am". A small video feed of a woman is visible on the right side of the banner.

The screenshot shows a Google Meet interface with a grid of participants. The top row includes participants with initials R, D, and C. The bottom row includes participants with initials C, B, and A/B. A whiteboard on the right displays mathematical equations for state space design, including  $\dot{x} = Ax + Bu$  and  $y = Cx + Du$ . The Windows taskbar at the bottom shows the time as 10:22 AM on 10-Jun-21.

  
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**Geethanjali College of Engineering and Technology  
(Autonomous)**

Department of Electrical and Electronics Engineering

**GUEST LECTURE REPORT**

Topic : “State space design for control systems”  
Resource Person : Dr. P. Bharani Chandra Kumar,  
Prof. Head-EEE and R&D coordinator at GMRIT, Rajam  
Target Audience : III year (EEE) students , A & B sections  
Technical subject : Control System Design  
Date : 10-06-2021 (Tuesday)  
Time : 10:00 AM to 11:30 AM  
Mode of conduction : Online (Google meet)  
Link : <https://meet.google.com/pnm-hbhd-uyu>.

**Summary of the talk**

Dr. P. Bharani Chandra Kumar started the session with an introduction about the state space equations and building of a block diagram. He explained with an example of brushless DC motor about writing its state space equation. Then formation of the matrix values.

He explained about Controllability. A system can be controlled by using appropriate input to get the desired state. A controllable matrix and a feedback controller is chosen then deciding the values of k such that eigen values are near to desired poles.

He explained about Observability. A block diagram containing plant, observer, inputs and outputs is considered. Then matrix values are found from state space equations and finally observer matrix(O). If  $|O|$  is not equal to zero, then it is completely observable.

Alternate approaches to control system design were explained. He explained two methods i.e. 1. Matching Coefficients. 2. Transformation. Students were made to solve an example problem on matching coefficients for both controllability and observability. The same was also solved by transformation method.

At the end of the session students understood the state space design for control systems.



**Faculty Coordinator**

  
**HOD-EEE**  
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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**


**CIRCULAR**

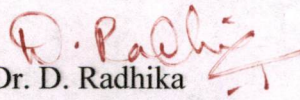
Date: 7-06-2021

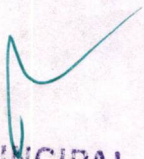
A Guest lecture on “Self motivation and how to achieve set goals” will be organized by the Department of EEE association with IEEE, SB(Power & Energy Society) . All II & III year (A & B section) students are recommended to attend this without fail.

Guest Lecture On : “Self motivation and how to achieve set goals”  
Target Audience : II & III year (EEE) students , A & B sections  
Resource Person : Smt. Revathi Turaga,  
International trainer and inspirational speaker  
Date : 8-06-2021 (Tuesday)  
Time : 10:00 AM to 11:00 AM  
Mode of conduction : Online (Google meet)  
Link : will be provided on 8-06-2021.  
Coordinator : Mrs. Azra Zaineab, Assistant Professor, EEE Dept.

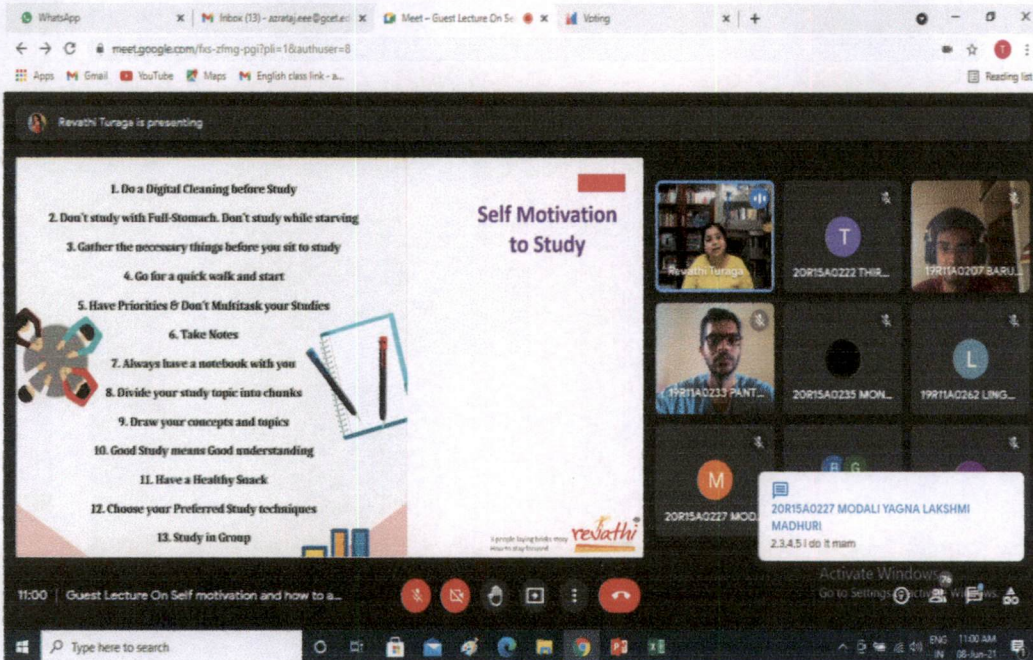
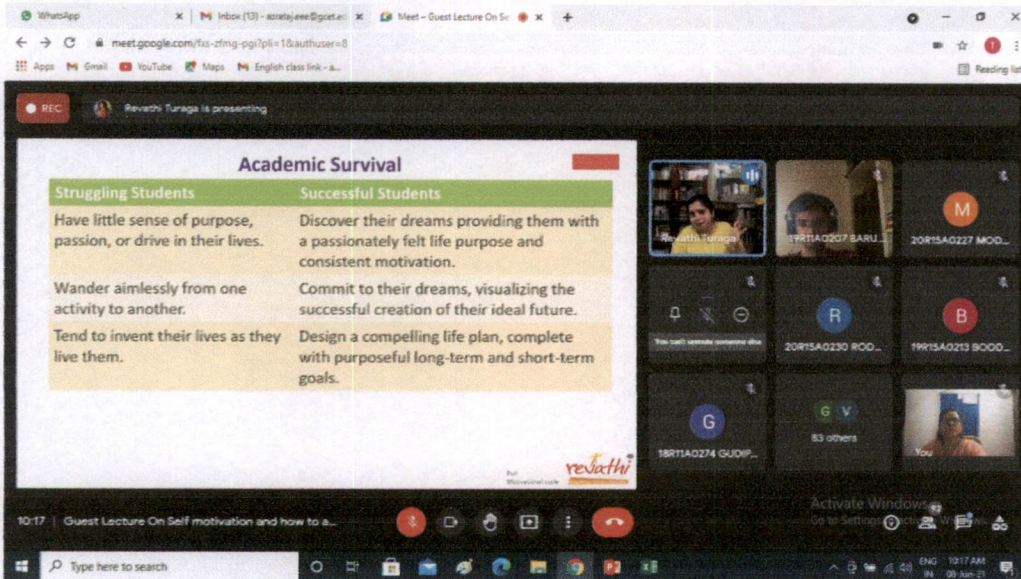
Note: All the students should join the meeting using GCET official mail ids only

  
Azra Zaineab  
Faculty coordinator

  
Dr. D. Radhika  
Prof and HOD, EEE

  
PRINCIPAL  
Geethanjali College of Engg. and Tech.  
Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

# Guest lecture on “Self motivation and how to achieve set goals” by Smt. Revathi Turaga, International trainer and inspirational speaker



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**Geethanjali College of Engineering and Technology**  
**(Autonomous)**  
Department of Electrical and Electronics Engineering

**GUEST LECTURE REPORT**

Topic : "Self motivation and how to achieve set goals"  
Resource Person : Smt. Revathi Turaga,  
International trainer and inspirational speaker  
Target Audience : II & III year (EEE) students , A & B sections  
Date : 8-06-2021 (Tuesday)  
Time : 10:00 AM to 11:00 AM  
Mode of conduction : Online  
Link : <https://meet.google.com/fxs-zfmg-pgi>

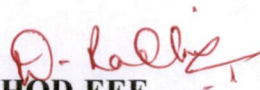
**Summary of the talk**

Smt. Revathi turaga started her lecture by introducing herself and formed a rapport with the students. She covered various topics which include communication skills, personality development, self motivation and goal setting.

She explained about the various career opportunities available and suggested strategies to achieve them. She boosted the confidence of students so as to help them achieve their goals in both personal and professional life. She made the session very interactive.

She gave her personal life experiences and inspired students to be self-motivated. She discussed the importance of positive thinking and positive attitude which brings constructive change in one's life. The session helped students to realize their long term goals.

  
**Faculty Coordinator**

  
**HOD-EEE**

  
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**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**CIRCULAR**

Date: 24-01-2021

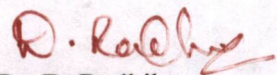
A Guest lecture on “Hybrid Electric Vehicle-overview” will be organized by the Department of EEE in association with IEEE, SB(Power & Energy Society) GCET. All II & IV year (A & B section) students are recommended to attend this without fail.

Guest Lecture On : “Hybrid Electric Vehicle-overview”  
Target Audience : : II & IV year (EEE) students , A & B sections  
Resource Person : Dr. Naveen Kumar Marati,  
Architect-Electrification, Wipro Bangalore  
Date : 25-01-21 (Monday)  
Time : 10:00 AM to 11:00 AM  
Mode of conduction : Online (Google meet)  
Link : will be provided on 25-01-2021.  
Coordinator : Mrs. Dr. Madhuri Bayya, Associate Professor, EEE Dept.

Note: All the students should join the meeting using GCET official mail ids only

  
Dr. Madhuri Bayya

Associate Professor  
IEEE\_PES, SB, Coordinator

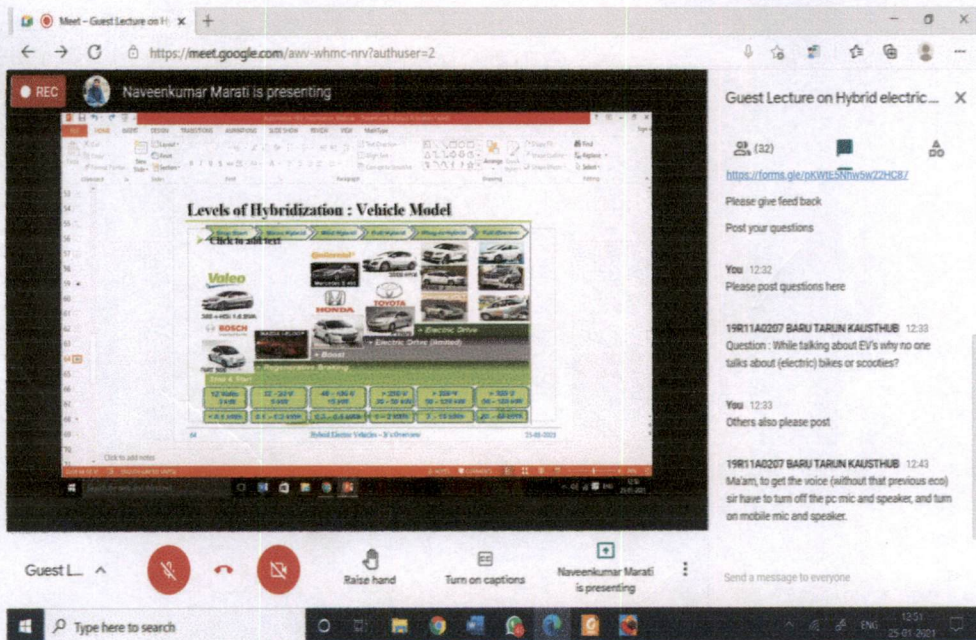
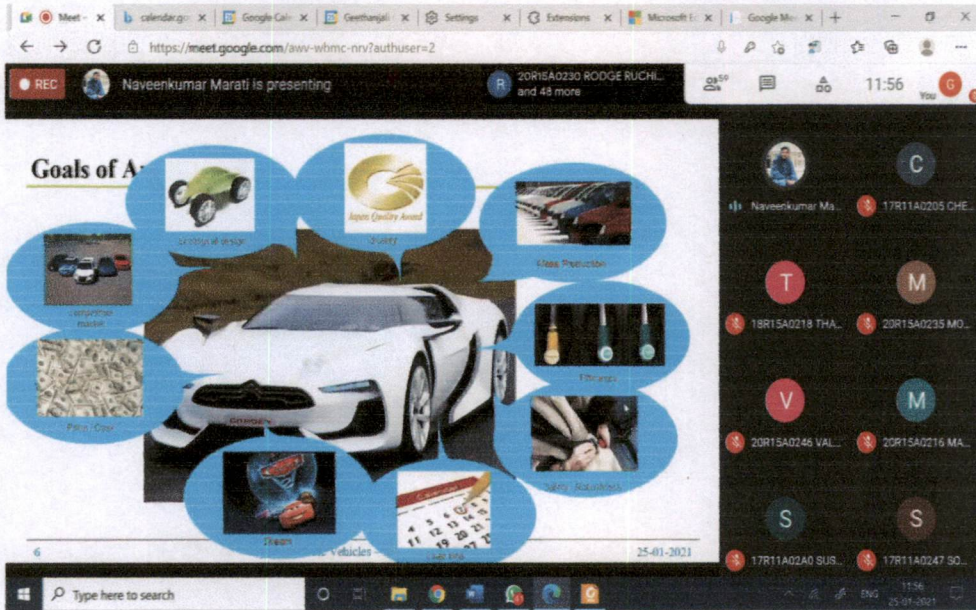
  
Dr. D. Radhika

Prof and HOD, EEE

  
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# Guest lecture on “Hybrid Electric Vehicle-overview” by Dr. Naveen Kumar Marati, Architect-Electrification, Wipro Bangalore



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**Geethanjali College of Engineering and Technology  
(Autonomous)**

Department of Electrical and Electronics Engineering

**GUEST LECTURE REPORT**

Guest Lecture On : "Hybrid Electric Vehicle-overview"  
Target Audience : II & IV year (EEE) students , A & B sections  
Resource Person : Naveen Kumar Marati,  
Architect-Electrification, Wipro Bangalore  
Date : 25-01-21 (Monday)  
Time : 10:00 AM to 12:00 PM  
Mode of conduction : Online (Google meet)  
Link : <https://meet.google.com/awv-whmc-nrv>

**Summary of the talk**

The talk on 'Hybrid Electric Vehicles – an overview' by Dr.Naveen Kumar Marati was organized for the department of EEE students. This session was aimed at giving the students an insight into the technologies for EVs.

Electric vehicles were first designed and implemented in the 1900s. Owing to their low range, they quickly vanished and the ICE vehicles took over. With the current responsibility of reducing emissions, the EVs have revived. All countries are aiming to move towards the electric vehicles to improve the quality of living.

Electric vehicles in India are being manufactured by TATA and Mahindra. But currently all other OEMs are migrating towards this space. The first car in India was the Mahindra Reva which used the lead acid batteries for traction.

The hybrid electric vehicles are vehicles with two or more sources used for traction. The current scenario is a combination of internal combustion engines and batteries. India has a lot of hybrid vehicles. Hybrid vehicles are classified as mini, micro, series and parallel types. The classification is based on the ratio of engine power and battery power. The current vehicles are not plug-in type. Plug-in type hybrid vehicles have the provision to charge the batteries from a charging infrastructure.

The electric vehicles sources are batteries, fuel cells and ultracapacitors. The electric vehicles are predominantly using lithium ion batteries. The sizing of the batteries is limited by the range and driving type. The increase batteries to increase the range increases the weight of the batteries.

The powertrain of the electric vehicles has a traction motor like induction motor, BLDC or PMSM motors. The induction motor is the most commonly used motor for traction. The field oriented control is the most commonly used method of speed control. The inverter block is used to control the speed.

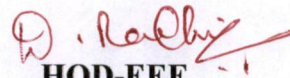
  
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Power Electronics controllers are used to achieve high voltage systems to achieve high power requirements of the vehicles. The boost chopper boosts the voltage from the battery and the same is fed to the inverter block.

The hybrid vehicles are used to reduce emissions and reduce the dependency on oil import. The reducing oil reserves are a cause of big concern. This has given a great momentum to the EV revolution in the world.



**Faculty Coordinator**

  
**HOD-EEE**

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GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY  
Cheeryal (V), Keesara (M), Medchal Dist. – 501301

No. GCET/098/2020-21

19.01.2021

**OFFICE OF THE PRINCIPAL**

**CIRCULAR**

One day Guest lecture for B.Tech – II and III Year Students of EEE department is scheduled as per the following details.

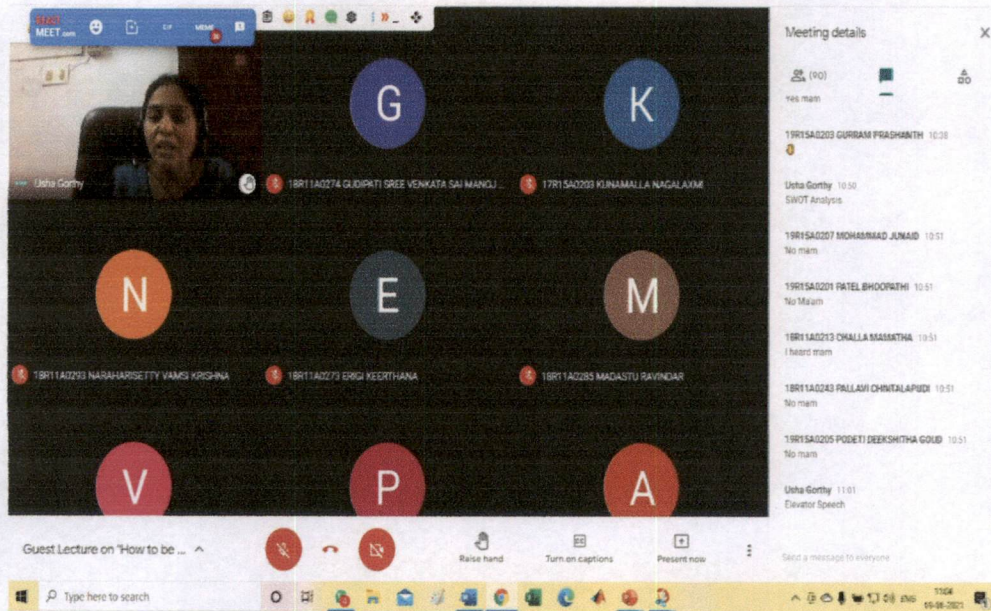
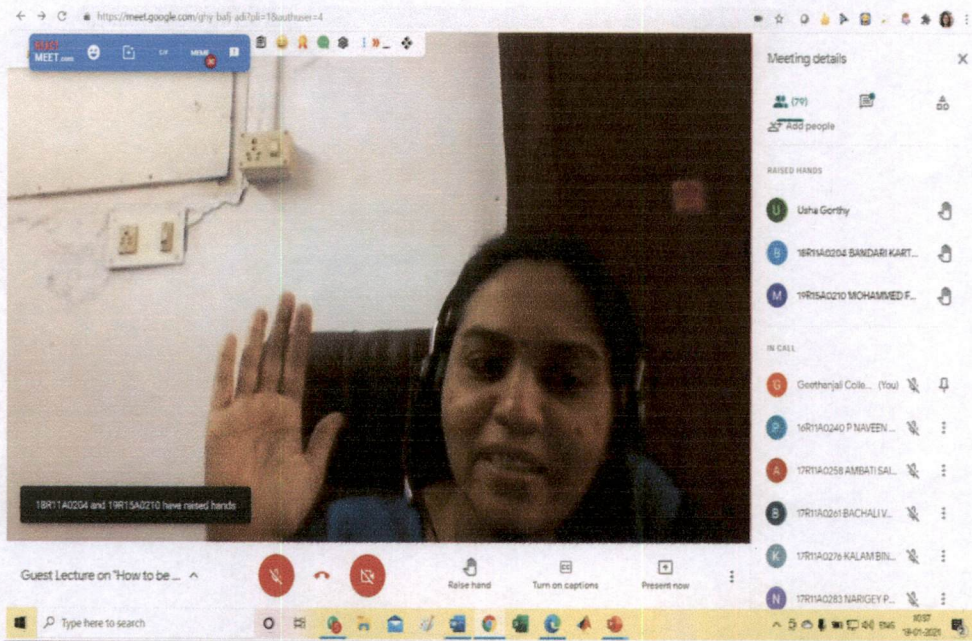
Date : 19.01.2021 (Tuesday)  
Time : 10.30am to 11.30am  
Venue : Online  
Topic : “ How to be Industry ready”  
Resource Person : Mrs. Usha Gorthy, Senior Manager,  
Den India Pvt. Ltd.,  
Coordinator : Mrs. Manjul Khare }  
Mrs. Azra Zaineb } Assistant Professors – EEE Dept.


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To: Deans / HODs  
AO/Website Coordinator

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# Guest lecture on “How to be Industry ready” by Mrs. Usha Gorthy, Senior Manager- Dell India Pvt. Limited



  
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Department of Electrical and Electronics Engineering

**Guest Lecture Report**

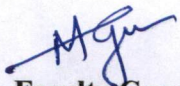
Topic : "How to be Industry ready"  
Resource Person : Mrs. Usha Gorthy,  
Senior Manager- Dell India  
Target Audience : III year (EEE) students , A & B sections  
Date : 19-01-21(Tuesday)  
Time : 10:30 AM to 1:30 AM  
Mode of conduction : Online  
Google meet link : <https://meet.google.com/ghy-bafj-adi>

**Summary of the talk**


Mrs Usha Gorthy started the session with detailed explanation about soft skills and preparation required for interviews. She suggested students to prepare important to-do list on paper priority wise and update it whenever they learn new skills.

She spoke about SWOT analysis. SWOT analysis is a strategic planning and strategic management technique used to help a person or organization identify Strengths, Weaknesses, Opportunities, and Threats related to business competition or project planning.

And concluded with an overview of how to face the interview, how to enhance soft skills, importance of body language while facing an interview. At the end of the session she clarified the doubts of students. And gave suggestions related to career and how it is very useful for the future.

  
Faculty Coordinator  
(Manjula Khare)

  
HOD-EEE

  
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No. GCET/096/2020-21

11.01.2021

**OFFICE OF THE PRINCIPAL**

**CIRCULAR**

One day Webinar for EEE-III Year Students is scheduled as per the following details.

Date : 11.01.2021 (Monday)  
Time : 11.00 am to 12.30 pm  
Venue : Online  
Topic : **“ Alternator construction, working, optimization and applications in power sector “**  
Resource Person : Dr.P.Kothari, Professor – IIT, Delhi  
Coordinator : Dr. M.Aruna Bharathi – Professor – EEE Dept.  
Ms.Azra Zaineab – Assistant Professor – EEE Dept.

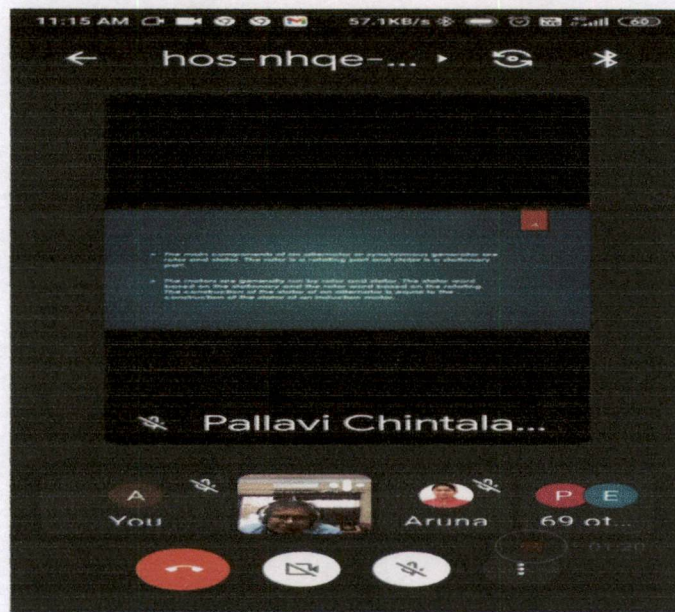
  
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To: Deans / HODs  
AO/Website Coordinator

  
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Guest lecture on “**Alternator construction-working, optimization and applications in power system**” by

Dr. D.P. Kothari, Professor-IIT, Delhi



  
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Department of Electrical and Electronics Engineering

**GUEST LECTURE REPORT**

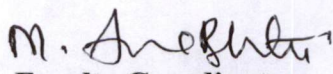
Topic : "Alternator construction, working, optimization and applications in power sector"  
Resource Person : Dr. P.Kothari  
Professor-IIT, Delhi  
Target Audience : III(EEE) students , A & B sections  
Date : 11-01-2021 (Monday)  
Time : 11:00 AM to 12:30 PM  
Mode of conduction : Online (Google meet)  
Link : [meet.google.com/hos-mhqe-ddy](https://meet.google.com/hos-mhqe-ddy)

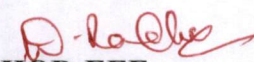
**Summary of the talk**


Dr. P. Kothari explained about

- Types of alternators
- Types of rotors
- Construction and working of alternator
- Armature reaction in alternator
- Applications of alternator

At the end of the session students got an overview of alternator. They were able to understand alternator construction, working, types, and its applications in power sector.

  
Faculty Coordinator


  
HOD-EEE

  
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**GETTHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**GUEST LECTURES CONDUCTED FOR THE ACADEMIC YEAR 2020-2021**

S.No	Date	Title of the Guest lecture	Name of the resource person	Organisation and Designation	Professional Body	Target Audience	Uses	Relevance to Pos/PSOs
1	4th Jan 2021	Architecture of IoT and it's Applications	Mrs N.Divya	Senior IoT Engineer Smart bridge Technologies, Hyderabad	IEEE CAS	3rd years	Application oriented	PO6,PO7
2	26th March 2021	How to Manifest Innovation and Entrepreneurship Ecosystem in the student Community and Protection of IP for Innovation	Dr.M.K.Kaushik	CEO-VISA	ISTE	Faculty and students	Industry skills	PO9,P10, P11
3	31st March 2021	Timing Analysis of Digital Circuits	Dr.Sakthival Ramchandran	Associate Professor, VIT University, Vellore	IEEE-CAS	3rd years	Advanced Topics	PO1,PO2, PO3
4	3rd April 2021	Digital Signal Processors-Hardware for Implementation	Dr.N.Babji	Professor & Director (IQAC)- JNTUK	IEEE RAS	3rd years	Advanced Topics	PO1,PO2, PO3
5	26th March 2021	Analog Design Flow	Mr.B.Chakraverthi	Senior Design Engineer, INTEL Bangalore	IEEE_CAS	3rd years	Advanced Topics	PO1,PO2, PO3

6	15th April 2021	Fundamentals of Digital Communication - Basics and Applications	Dr. Araritha Mishra	International Institute of Information Technology Bangalore	ISTE	11nd year	Knowledge Enhancement	PO1, PO2
7	23rd May 2021	Significance on Human Excellence and Values	Sri Dhanunjay Deshpandey	Senior Faculty from Vivekananda Institute of Human Excellence, R.K. Mutt.	IETE	All students	Human ethics	PO1, PO2, PO3

  
 co-ordinator  
 G. Sree Lakshmi

  
 Dr. S. Suryanarayana  
 HOD-ECE

  
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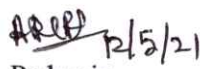
**Department of ECE**


Date: 12.05.2021.

**Circular**

All the class teachers/faculty and students of II B.Tech (ECE) are hereby informed that a guest lecture on “INDIAN CONSTITUTION” will be organized by group IV of Department of ECE on 15<sup>th</sup> May, 2021 at 9.00 AM - 03.30 P.M. All the II year students and concerned faculty are recommended to attend without fail.

Guest Lecture On : “INDIAN CONSTITUTION”  
Target Audience : II<sup>nd</sup> year (ECE) Students and Faculty.  
Date : 15-05-2021  
Time : 9.00 A.M - 03.30 P.M  
Mode of conduction : Online  
Link : <https://meet.google.com/kyq-wdqa-bqx>  
Organized by : Ms AR.L.Padmaja , Indian Constitution Course  
Coordinator.

  
A.R.L.Padmaja  
Assistant Professor  
Coordinator, ECE

  
Dr. S. Suryanarayana  
HoD, ECE

  
Prof. B. Hari Kumar  
Dean SE&CE

  
Geethanjali College of Engg. and Tech.  
Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

# Geethanjali College of Engineering & Technology

Department of ECE

## Report

### Guest Lecture on Indian Constitution

Date: 15/05/2021.

#### **Objective:**

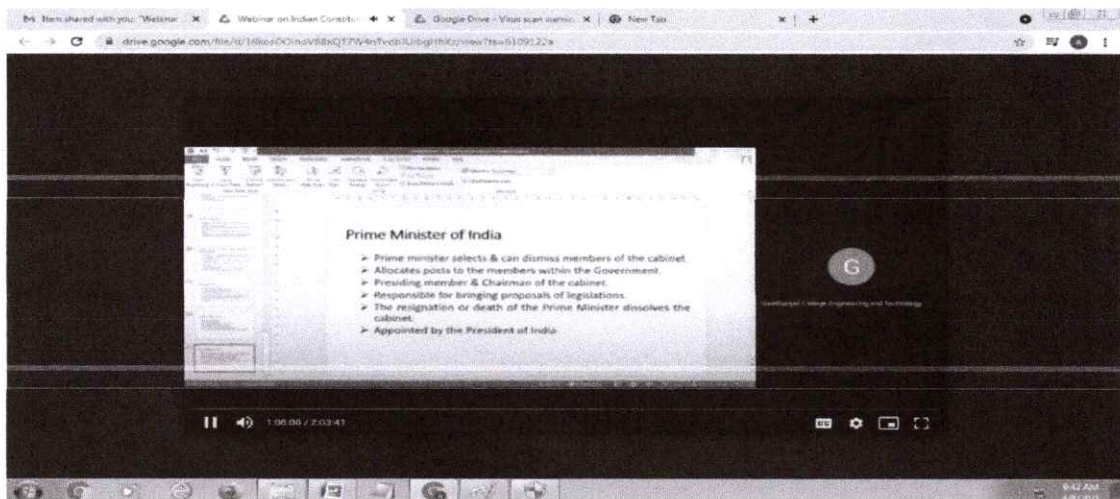
To understand the role of constitution in a democratic society

A Guest lecture has been conducted for II year B.Tech II semester students on "Indian Constitution" for all the sections of ECE on 15/05/2021 through online Google Meet. The resource person for the lectures was Dr. Manish Bigaye, Associate Professor, and Holy Mary Institute of Technology and Sciences.

#### **Schedule:**

Session	Time Duration	Topic covered
1	9:00 AM-10:30AM	Union Government , Union Legislature (Parliament) ,
2	11:00AM -12:30PM	Union Executive , President of India (with Powers and Functions) ,
3	I: 30PM-3:30PM	Union Judiciary (Supreme Court) , Jurisdiction of the Supreme Court.

#### **Screen Shots of the lecture:**



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**Department of ECE**

Date: 10.06.2021.

**Circular**

All the class teachers/faculty and students of II B.Tech (ECE) are hereby informed that a guest lecture on “INDIAN CONSTITUTION” will be organized by group IV of Department of ECE on 12<sup>th</sup> June, 2021 at 9.00 AM - 03.30 P.M. All the II year students and concerned faculty are recommended to attend without fail.

Guest Lecture On : “INDIAN CONSTITUTION”  
Target Audience : II<sup>nd</sup> year (ECE) Students and Faculty.  
Date : 12-06-2021  
Time : 9.00 A.M - 03.30 P.M  
Mode of conduction : Online  
Link : <https://meet.google.com/kyq-wdqa-bqx>  
Organized by : Ms AR.L.Padmaja , Indian Constitution Course  
Coordinator.

*ARL*  
A.R.L.Padmaja  
Assistant Professor  
Coordinator, ECE

*S. Suryanarayana*  
Dr. S. Suryanarayana  
HoD, ECE

*B. Hari Kumar*  
Prof. B. Hari Kumar  
Dean SE&CE

*S*  
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# Geethanjali College of Engineering & Technology

Department of ECE

Report

## Guest Lecture on Indian Constitution

Date: 12/06/2021.

### **Objective:**

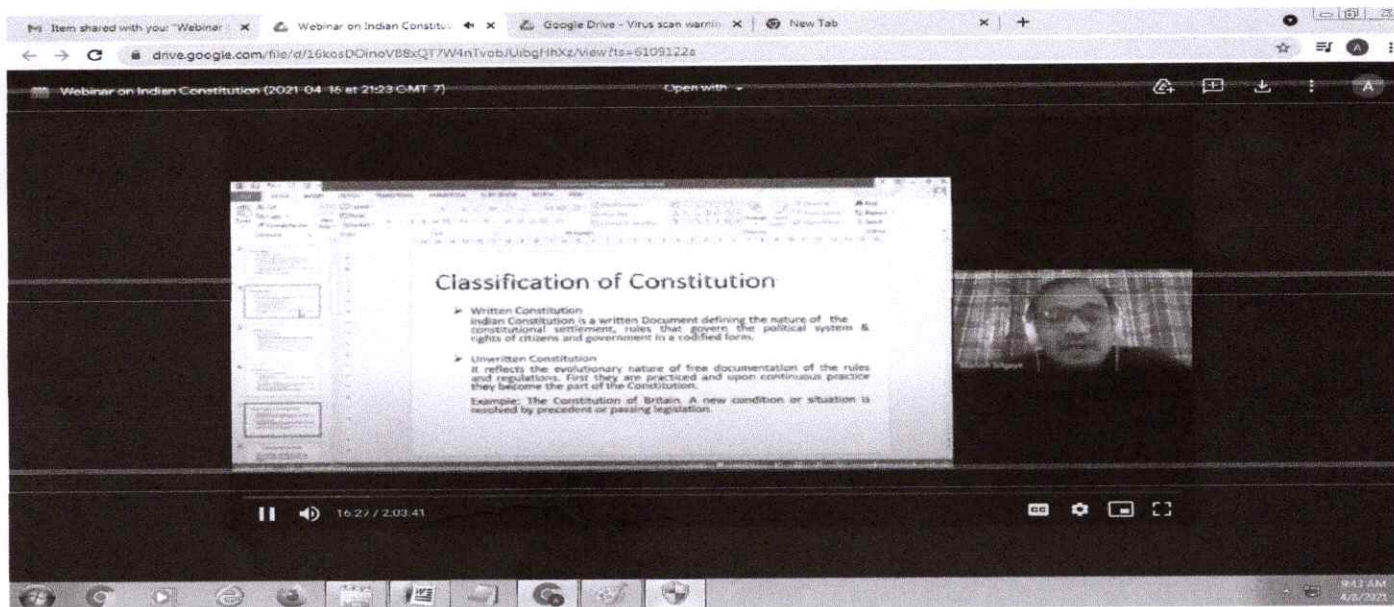
To describe the Directive Principles of State Policy and their significance. Also to list the key features of the constitution, Union Government, and State Governments.

A Guest lecture has been conducted for II year B.Tech II semester students on "Indian Constitution" for all the sections of ECE on 12/06/2021 through online Google Meet. The resource person for the lectures was Dr. Manish Bigaye, Associate Professor, and Holy Mary Institute of Technology and Sciences.


### **Schedule:**

Session	Time Duration	Topic covered
1	9:00 AM-10:30AM	State Legislature (Legislative Assembly / Vidhan Sabha, Legislative Council / Vidhan Parishad)
2	11:00AM -12:30PM	Powers and Functions of the State Legislature , State Executive
3	1: 30PM-3:30PM	The Union Public Service Commission (with Powers and Functions)

### **Screen Shots of the lecture:**



### **Attendance Proof:**

  
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(Approved by AICTE, Affiliated to JNTUH, Accredited by NAAC & NBA, New Delhi)  
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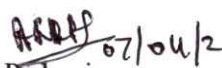
**Department of ECE**


Date: 07.04.2021

**Circular**


All the class teachers/faculty and students of II B.Tech (ECE) are hereby informed that a guest lecture on “INDIAN CONSTITUTION” will be organized by group IV of Department of ECE in association with IEEE SB,GCET on 10<sup>th</sup> April, 2021 at 9.00 AM - 03.30 P.M. All the II year students and concerned faculty are recommended to attend without fail.

Guest Lecture On : “INDIAN CONSTITUTION”  
Target Audience : II<sup>nd</sup> year (ECE) Students and Faculty.  
Date : 10-04-2021  
Time : 9.00 A.M - 03.30 P.M  
Mode of conduction : Online  
Link : <https://meet.google.com/kyq-wdqa-bqx>  
Organized by : Ms AR.L.Padmaja , Indian Constitution Course  
Coordinator.

  
A.R.L.Padmaja  
Assistant Professor  
Coordinator, ECE

  
Dr. S. Suryanarayana  
HoD, ECE

  
Prof. B. Hari Kumar  
Dean SE&CE

  
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Cheeryal (V), Keesara (M), Medchal Dist., (501-301)



# Geethanjali College of Engineering & Technology

Department of ECE

## Report

### Guest Lecture on Indian Constitution

Date: 11/04/2021.


A Guest lecture has been conducted for II year B.Tech II semester students on "Indian Constitution" for all the sections of ECE on 10/04/2021 through online Google Meet. The resource person for the lectures was Dr. Manish Bigaye, Associate Professor, and Holy Mary Institute of Technology and Sciences.

#### Objective:

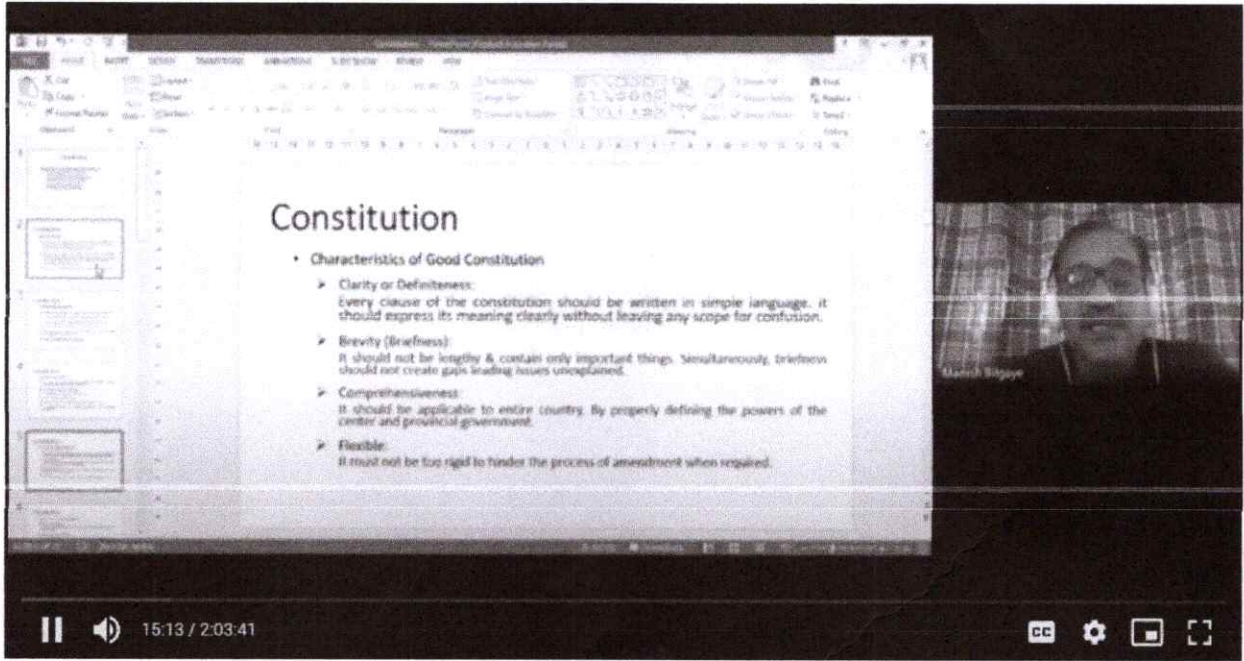
To understand the need for a constitution and appreciate the fundamental duties and rights of the citizens of India.

#### Schedule:

Session	Time Duration	Topic covered
1	9:00 AM-10:30AM	The Salient Features of Indian Constitution
2	11:00AM -12:30PM	Fundamental Rights of Citizen and Duties
3	I: 30PM-3:30PM	The Directive Principles of state Policy

  
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**Screen Shots of the lecture:**



**Attendance Proof:**

About this call			About this call		
People	Info	Activities	People	Info	Activities
19R11A0420 KURVA VENKA...			19R11A0437 POTHURAJU P...		
19R11A0421 LODUGU VENK...			19R11A0439 REKHA EJJAGL...		
19R11A0423 MADIREDDY B...			19R11A0440 SHAIK IBNEY A...		
19R11A0424 MEDARI DAYA...			19R11A0448 YARRABOINA...		
19R11A0425 MOSALI JYOTHI			19R11A0450 ANNE SAI ESH...		
19R11A0426 MUDDALA HA...			19R11A0451 ANUMULA SAL...		
19R11A0428 MUTHALAYA V...			19R11A0452 B SAI CHANDR...		
19R11A0431 PARISA ABHIN...			19R11A0453 BAYYA RACHA...		
19R11A0433 PEDDABOINA...			19R11A0455 BCGARAM KA...		
19R11A0434 PERAM BHAVY...			19R11A0458 CHEPURI LAVA...		
19R11A0435 PERI KAMESW...			19R11A0459 CHERLA VINEE...		
19R11A0436 POTHU SAI TEJA			19R11A0460 CHAVARTHI S...		

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**List of Student presentees for the Guest Lecture:**

S.No	Roll Number	S.No	Roll Number	S.No	Roll Number	S.No	Roll Number	S.No	Roll Number
1	19R11A0401	1	19R11A0450	1	19R11A0497	1	19R11A04E5	1	19R11A04K3
2	19R11A0402	2	19R11A0451	2	19R11A0498	2	19R11A04E7	2	19R11A04K4
3	19R11A0403	3	19R11A0452	3	19R11A0499	3	19R11A04E8	3	19R11A04K6
4	19R11A0405	4	19R11A0454	4	19R11A04A0	4	19R11A04E9	4	19R11A04K7
5	19R11A0407	5	19R11A0455	5	19R11A04A1	5	19R11A04F2	5	19R11A04L0
6	19R11A0408	6	19R11A0456	6	19R11A04A2	6	19R11A04F3	6	19R11A04L1
7	19R11A0409	7	19R11A0457	7	19R11A04A3	7	19R11A04F4	7	19R11A04L3
8	19R11A0410	8	19R11A0458	8	19R11A04A4	8	19R11A04F5	8	19R11A04L4
9	19R11A0411	9	19R11A0459	9	19R11A04A6	9	19R11A04F7	9	19R11A04L5
10	19R11A0412	10	19R11A0461	10	19R11A04A7	10	19R11A04F8	10	19R11A04L6
11	19R11A0413	11	19R11A0462	11	19R11A04A8	11	19R11A04G0	11	19R11A04L8
12	19R11A0415	12	19R11A0464	12	19R11A04A9	12	19R11A04G1	12	19R11A04L9
13	19R11A0416	13	19R11A0465	13	19R11A04B0	13	19R11A04G2	13	19R11A04M0
14	19R11A0417	14	19R11A0466	14	19R11A04B1	14	19R11A04G4	14	19R11A04M2
15	19R11A0418	15	19R11A0467	15	19R11A04B4	15	19R11A04G5	15	19R11A04M3
16	19R11A0419	16	19R11A0468	16	19R11A04B5	16	19R11A04G7	16	19R11A04M4
17	19R11A0420	17	19R11A0469	17	19R11A04B6	17	19R11A04G8	17	19R11A04M5
18	19R11A0421	18	19R11A0470	18	19R11A04B7	18	19R11A04G9	18	19R11A04M7
19	19R11A0423	19	19R11A0471	19	19R11A04B8	19	19R11A04H0	19	19R11A04M8
20	19R11A0424	20	19R11A0472	20	19R11A04B9	20	19R11A04H1	20	19R11A04M9
21	19R11A0425	21	19R11A0474	21	19R11A04C0	21	19R11A04H2	21	19R11A04N0
22	19R11A0426	22	19R11A0475	22	19R11A04C3	22	19R11A04H6	22	19R11A04N2
23	19R11A0427	23	19R11A0477	23	19R11A04C4	23	19R11A04H7	23	19R11A04N8
24	19R11A0428	24	19R11A0479	24	19R11A04C5	24	19R11A04H9	24	19R11A04N9
25	19R11A0429	25	19R11A0480	25	19R11A04C6	25	19R11A04J1	25	19R11A04P0
26	19R11A0430	26	19R11A0481	26	19R11A04C8	26	19R11A04J2	26	19R11A04P2
27	19R11A0431	27	19R11A0484	27	19R11A04C9	27	19R11A04J3	27	19R11A04P3
28	19R11A0433	28	19R11A0486	28	19R11A04D1	28	19R11A04J4	28	19R11A04P6
29	19R11A0434	29	19R11A0489	29	19R11A04D6	29	19R11A04J6	29	19R11A04P7
30	19R11A0436	30	19R11A0490	30	19R11A04D7	30	19R11A04J7	30	19R11A04P8
31	19R11A0439	31	19R11A0492	31	19R11A04D9	31	19R11A04J8	31	19R11A04Q0
32	19R11A0440	32	19R11A0494	32	19R11A04E0	32	19R11A04K0	32	20R15A0422
33	19R11A0441	33	19R11A0496	33	19R11A04E1	33	19R11A04K1	33	20R15A0423
34	19R11A0443	34	20R15A0406	34	19R11A04E4	34	20R15A0416		
35	19R11A0444	35	20R15A0409	35	20R15A0412	35	20R15A0417		
36	19R11A0445			36	20R15A0414	36	20R15A0419		
37	20R15A0401								

**Outcome:**

The students were made aware about the constitutional values and objectives written in the Indian constitution and the fundamental rights and fundamental duties of Indian citizens.

  
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# GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY

## DEPARTMENT OF ECE

Date: 15.04.2021

REPORT on GUEST LECTURE titled  
"Fundamentals of Digital Communication - Basics and Applications"  
Held on 15<sup>th</sup> April, 2021

The Department of ECE under ISTE, Geethanjali College of Engineering and Technology organized a guest lecture on "Fundamentals of Digital Communication - Basics and Applications"

**Date of Lecture** : 15-04-2021 (Thursday)

**Venue:** : Online –Google meet (<https://meet.google.com/qom-ikay-kyr>)

**Faculty Coordinator** : Mrs. M.Sowjanya, Associate. Professor, ECE Dept.

**Resource person** : Dr.Amrita Mishra  
Faculty member,  
International Institute of Information Technology Bangalore  
India


**Participants** : II year ECE students ( All sections).

**Faculty:**

- 1) Dr.S.Suryanarayana
- 2) Dr.P.Vijayi Bhasker
- 3) Dr. Md. Shoukath ali
- 4) Dr. R. V. Durga
- 5) Dr.S.Saritha
- 6) Mr.D.Venkata rami Reddy
- 7) Mrs.B.Sreelatha
- 8) Mr.RVNR.Suneel krishna
- 9) Mrs. M.Sowjanya
- 10) Mrs.Y.Nagalakshmi yarlagadda

**Objective of this program:** To develop an understanding of the fundamental concepts of analog and digital communication techniques , generation and detection of digital communication techniques and their applications, overview of advanced modulation techniques .

**Need of Guest lecture:** The ever-growing demand of modern communication-based applications such as live streaming of high definition (HD) videos, voice over Internet Protocol (VoIP)-based audio/video calls etc. has led to the development of several state-of-the-art communication technologies. Towards this end, digital communication forms the corner stone for design of

  
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present-day communication technologies

**About the Resource person:**

Dr. Amrita Mishra is currently a faculty member at International Institute of Information Technology Bangalore, India (IIITB). Her research focuses on the design and development of physical layer technologies for next generation wireless systems, signal processing for 5G and beyond communication technologies, Wireless Sensor Networks, Internet of Things (IoT) and Social Signal Processing. She received the M.Tech - PhD Dual degree from the Department of Electrical and Electronic Engineering, Indian Institute of Technology, Kanpur, Uttar Pradesh, India, in October 2018. She was awarded the gold medal for having secured the first rank at the university level in her B.Tech. Programme in electronics and communication engineering. She has served as a faculty member in the Dept. of ECE at the International Institute of Information and Technology, New Raipur, Chhattisgarh, India from January 2019-December 2020.

**Lecture Summary:**

The ever-growing demand of modern communication-based applications such as live streaming of high definition (HD) videos, voice over Internet Protocol (VoIP)-based audio/video calls etc. has led to the development of several state-of-the-art communication technologies. Towards this end, digital communication forms the corner stone for design of present-day communication technologies. In this guest lecture the following concepts are discussed

- The fundamentals of digital communication along with relevant real-life applications.
- Generation and detection of digital modulation techniques
- Advanced modulation techniques-Spread spectrum modulation and OFDM

The Vote of Thanks was delivered by M. Sowjanya On behalf of the department of Electronics and communication engineering. She extended her gratitude to the College Management and Principal.

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**Geethanjali College of Engineering and Technology**



(An UGC Autonomous Institution)

Cheeryal(V), Keesara(M), Medchal (Dist.), T.S. – 501301

**Department of ECE**

**Under ISTE**

**Hearty welcome to**

**An expert lecture on**

**“Fundamentals of Digital Communication - Basics and Applications “**

**on**

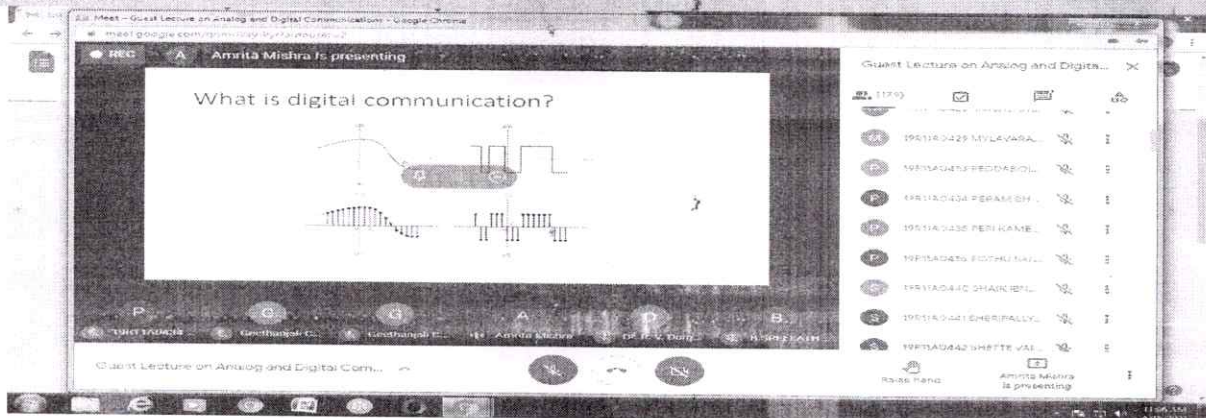
**15.04.2021**


**by**

**Dr.Amrita Mishra**

**Faculty member**

**International Institute of Information Technology Bangalore (IIITB)**



  
**PRINCIPAL**  
**Geethanjali College of Engg. and Tech.**  
**Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.**

Amrita Mishra is presenting

### Regenerative repeater in Digital Communication

- In digital communication, transmitted signals belong to a finite set of waveforms. The distorted signal can be regenerated to its ideal shape, hence removing all the noise.
- In analog communication, transmitted signals are analog waveforms, which can take infinite variety of shapes. Once the analog signal is distorted, the distortion cannot be removed.

Dr. B. V. Dhruv, Goethanji College, Warananagar, Amrita Mishra, Goethanji College, Warananagar

Guest Lecture on Analog and Digital Com...

Amrita Mishra is presenting

### Digital Communications

- The basic objective of a digital communication system is for transfer of information over a channel.
- Digital communication transmitted signals belong to a finite set of waveforms.
- Particular waveforms represent discrete values of information.
- Disturbance in digital communication is less than in analog communication.

Dr. B. V. Dhruv, Goethanji College, Warananagar, Amrita Mishra, Goethanji College, Warananagar

Guest Lecture on Analog and Digital Com...

Amrita Mishra is presenting

### Types of Pulse Modulation

Dr. B. V. Dhruv, Goethanji College, Warananagar, Amrita Mishra, Goethanji College, Warananagar

Guest Lecture on Analog and Digital Com...

Amrita Mishra is presenting

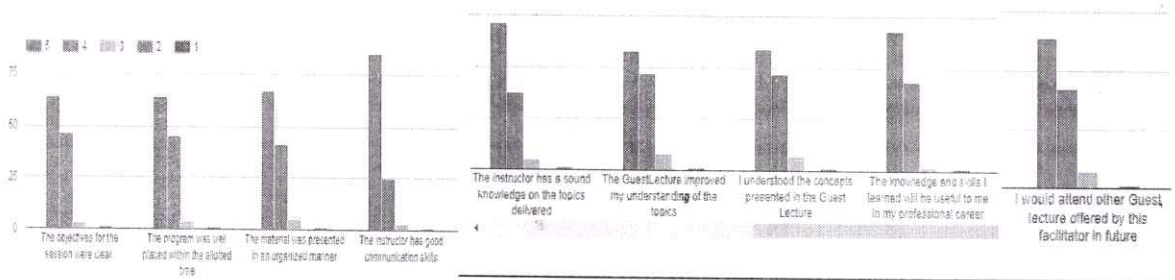
### What is PAM?

Dr. B. V. Dhruv, Goethanji College, Warananagar, Amrita Mishra, Goethanji College, Warananagar

Guest Lecture on Analog and Digital Com...

  
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**The feedback was received from the 114 participants and it is as follows.**



**Outcome :**

Students acquired enough practical knowledge on Analog and Digital communication theory concepts and its applications.

*Ms. M. Sowjanya*  
Coordinator

Ms.M.Sowjanya

*Dr. S. Suryanarayana*  
15/11/20

HoD-ECE

Dr.S.Suryanarayana

*Dr. S. Suryanarayana*  
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Cheerla (V), Keesara (M), Medchal Dist.(T.S.)-501 309.



## Detailed Report

# Webinar on “Implementation of National Education Policy - 2020”

by

**Dr. S. Vallisree**

*Coordinator - NEP*

*Associate Professor, ECE Dept., GCET*

**Dr. P. Vijai Bhaskar,**

*Convener - NEP,*

*Dean Academics and Professor in ECE Dept., GCET*



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## 1. About the college

Geethanjali College of Engineering and Technology (GCET) was established in the year 2005 with the sole objective of providing quality technical education accessible and affordable to youth. The college has excellent infrastructural facilities and modern laboratories. It also has highly competent and dedicated faculty. College has been recognized as an R&D centre by Scientific and Industrial Research Organization (SIRO). The college offers undergraduate programs in various engineering branches, namely, ECE, CSE, IT, EEE, ME and CE with a total intake of 900 students. AICTE recently has sanctioned four new programs in B.Tech (CSE) with specialization in Artificial Intelligence and Machine Learning, Data Science, IoT and Cyber Security. All the eligible B.Tech programs are accredited by NBA. The college is accredited by NAAC with a score of 3.36 in June 2017, which is the highest by any institution that has gone for accreditation for the first time in both states of TS and AP. The institution was conferred "Autonomous" status by UGC with effect from Academic Year 2016-17 for a period of six years. Institution has got ISO certification since 2011. GCET also offers postgraduate program in MBA with an intake of 60 students and M.Tech program in CSE discipline.

## 2. Overview of the NEP Webinar

The webinar received participation from faculty and students of all departments of our college and other colleges. The webinar is organized online using the 'google meet' through college google workspace account (facultyexam@gcet.edu.in). The inauguration of webinar has been held on 9th April 2021 at 9:30 AM. The inaugural session holds more than 125 people including college faculty, students and other participants of webinar. Mr. G. R. Ravinder Reddy, Chairman-GCET, Dr. Udaya Kumar Susarla, Principal addressed the participants. Dr.S.Vallisree, coordinator of NEP webinar elaborated the necessity for the implementation of National Education Policy - 2020 in the present era and said that this webinar aims to create awareness about the NEP-2020 among the faculty and students. She stated that given the 21st century requirements, quality education must aim to develop good, thoughtful, well-rounded, and creative individuals. A quality higher education must enable personal accomplishment and enlightenment, constructive public engagement, and productive contribution to the society. At the societal level, higher education must enable the development of an enlightened, socially

conscious, knowledgeable, and skilled nation that can find and implement robust solutions to its own problems. Higher education must form the basis for knowledge creation and innovation thereby contributing to a growing national economy. The purpose of quality education is, therefore, more than the creation of greater opportunities for individual employment. It represents the key to more vibrant, socially engaged, cooperative communities and a happier, cohesive, cultured, productive, innovative, progressive, and prosperous nation. This National Education Policy 2020 is the first education policy of the 21st century and aims to address the many growing developmental imperatives of our country. This webinar is organized by our college under the aegis of AICTE for creating awareness about the implementation of national education policy -2020 among the faculty and students.

The participants are provided with power point presentations of invited talks for further reference. Attendance has been noted for all the participants and feedback was also taken from the participants.

**Table 1** Details of NEP webinar resource persons

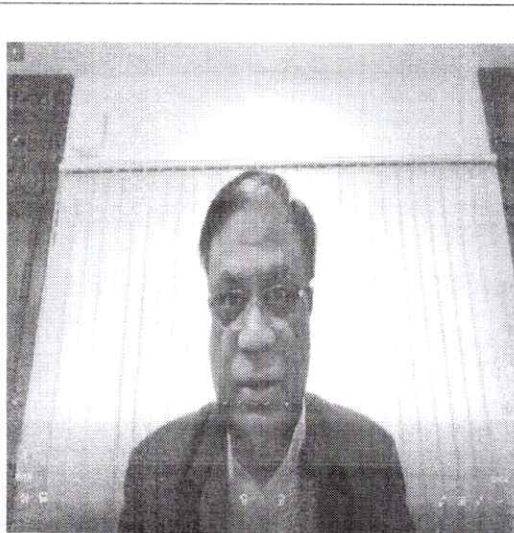
S. No.	Resource Person	Affiliation
1	Dr. M. Meenakshi	Professor, Dr. Ambedkar Institute of Technology
2	Dr. R. Rajammal	Retd. Dean, Shree Shanthi Anand Vidyala Group of Institutions. National Award Winner (Best Teacher), Educational Consultant, Teacher Trainer, Social Ambassador.
3	Dr. S. Ushakumari	Professor, College of Engineering, Trivandrum. Project Head, Centre of Excellence in Electric Vehicle, Trivandrum Engineering Science and Technology (TrEST) Research Park.

  
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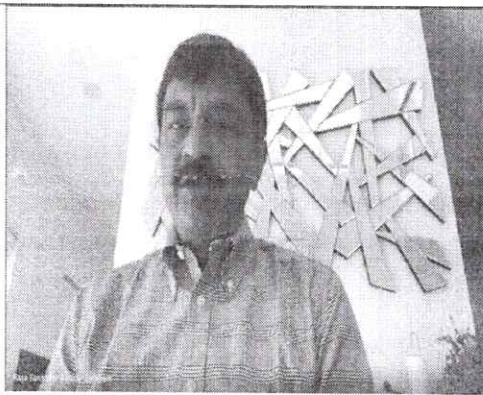
### 3. Details of Presentations given by Resource Persons

#### 3.1 Inaugural Session

The online webinar was inaugurated on 9<sup>th</sup> April 2021 at 9:30 AM. Mr. G. R. Ravinder Reddy, Chairman-GCET, Dr. Udaya Kumar Susarla, Principal addressed the participants. The inaugural session holds more than 150 people including college (GCET) staff and other colleges. Ms. Jyothirmaye, Associate professor of ECE department had given the welcome speech to start Inaugural session with warm welcome to all dignitaries and participants.



Dr. Udaya Kumar Susarla, Principal of Geethanjali College of Engineering and Technology welcomed all the dignitaries and the participants of the webinar. He expressed his deep sense of gratitude to all the resource persons Dr.M.Meenakshi, Dr.R.Rajammal and Dr.S. Ushakumari madam. He expressed his heartfelt appreciation and gratitude to AICTE for enabling us to conduct this webinar. He spoke about his views of NEP-2020 and appreciated some of the salient features which are beneficial for the students. He mentioned that more importance is given for practical training in NEP-2020. With a brief introduction to the college, he suggested the participants to be sincere and acquire the knowledge from the expert lectures of the NEP webinar.



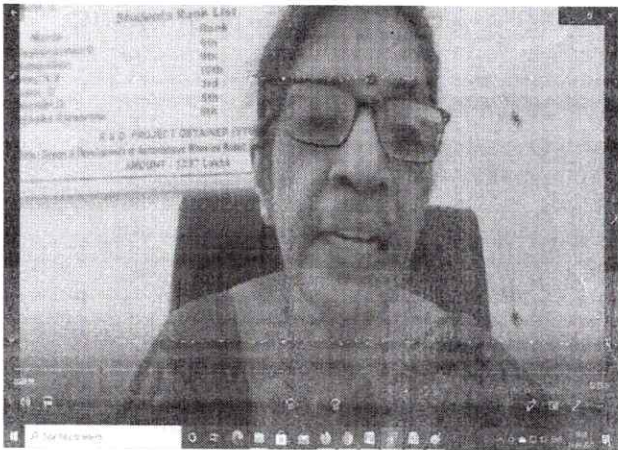
Mr. G. R. Ravinder Reddy, Chairman of Geethanjali College of Engineering and Technology thanked all the resource persons for accepting our invitation and sharing their knowledge with us. He expressed his happiness that Dept. of ECE has taken this initiative to conduct the NEP webinar. He said that there are lot of misconceptions about the National Education policy which would be clarified through this session. He also spoke about the various regulatory bodies involved in it for the implementation of NEP-2020.

The inaugural session is ended with vote of thanks by Ms. Jyothirmaye.

### 3.2 Details of Presentations of NEP Webinar

#### 3.2.1 Presentation by Resource Person Dr. M. Meenakshi

The coordinator of the webinar Dr.S.Vallisree gave an introduction about the first resource person Dr.M.Meenakshi madam and invited the speaker to deliver the lecture.

	Date	09/04/2021
	Time	10:00 to 11:00 AM
	Title	Highlights of National Education Policy - 2020
	Name of the Resource person	<b>Dr. M. Meenakshi</b> Professor, Head of IT, Dr. Ambedkar Institute of Technology

#### Summary of the Lecture

In this session, the speaker has given information about the evolution of national education policies. She explained education as 'training of the mind to think'. She explained about the key challenges in education sector and how these challenges are addressed in NEP-2020. Accessibility, Affordability and Quality are the 3 important factors in education section. The important vision of NEP-2020 is providing quality education to all. She also explained about the key principles and objectives of NEP-2020. The importance of designing curriculum on par with the societal needs and the mentoring system should identify the unique capabilities of the students was also covered in the session. She also spoke about the pillars of NEP policy such as 'access, equity, quality, affordability and accountability to transform India into a vibrant knowledge hub. Bringing in holistic education and NEP aims at 100% GER in school education by 2030 and the other modifications made in school education system was discussed by the speaker. The changes in the higher education structure were also covered by the speaker along with the Academic bank of credit system for maintaining the credit earned by the students. Institutional restructuring and consolidation as part of NEP-2020 was also explained. Focus on Multidisciplinary, Interdisciplinary or Cross disciplinary research activities along with effective governance in HEIs are also covered by the speaker. She stated that everyone should take the responsibility for the successful implementation of NEP-2020.

All the queries raised by the participants were clarified by the Resource Person. The coordinator of the webinar summarized the important points presented by the speaker and thanked her for the informative session delivered by the speaker.

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### 3.2.2 Presentation by Resource Person Dr. R. Rajammal

The coordinator of the webinar introduced the speaker Dr. R. Rajammal madam and invited the speaker to deliver the lecture.



Date	09/04/2021
Time	11:00 AM to 12:30 PM
Title	Role of NEP in Higher Education
Name of the Resource person	<b>Dr. R. Rajammal,</b> National Award Winner (Best Teacher) Educational Consultant Teacher Trainer Social Ambassador

#### Summary of the Lecture

In this session, the speaker gave presentation about the importance of education and stated that education is life itself. A nation can be destroyed by poor quality education. She delivered a motivational speech covering all the aspects of higher education. She has explained the four parts of NEP-2020. Ultimately our education should lead to produce good human beings and good society. Empowerment of motivated, energized and capable teachers by giving them rewards for their excellent services. Fundamental education should be given to all the children and the flexibility of choosing the subject of their choice and learning becomes joyful. Quizzes were conducted in the middle of the session to gain attention from the participants. Education should produce physically fit, mentally touch, morally straight, physiologically sound, socially uplifted, intellectually high and patriotically ignited youths. Moving towards multidisciplinary education, revamping the pedagogy etc. was also discussed. The complete education will be under one regulatory system. The undergraduate programme will have multiple entry and exit with their credit points stored in Academic Bank of Credit system. She also explained the different certificates which the students get in multiple entry and exit system. Manju madam explained about the Higher Education Commission of India (HECI) which interacts with different regulatory bodies involved in NEP-2020 such as NHERC, NAC, HGEC and GEC. National Research Foundation is an independent agency to promote interdisciplinary research. The objectives of NRF are to fund competitive, peer-reviewed grant proposals of all types and across all disciplines, acts as a liaison between researchers and relevant branches of government as well as industry, to facilitate research at academic institutions. For sustainable development of the country, interdisciplinary research plays a vital role for solutions to real-time problems. She also explained the Internationalization in NEP-2020. She also explained about the integration of technology in all levels of learning. Content creation using Animations was explained with an electric motor example along with virtual learning as part of Digital Education.

The coordinator of the webinar summarized the important points presented by the speaker and thanked her for interactive and motivational session delivered by the speaker.

### 3.2.2 Presentation by Resource Person Dr. S.Ushakumari

The coordinator of the webinar introduced the speaker Dr. S.Ushakumari madam and welcomed the speaker to deliver the lecture on 'Incorporating Human Values in Technical and Higher Education.



Date	09/04/2021
Time	02:00 to 03:00 PM
Title	Incorporating Human Values in Technical and Higher Education.
Name of the Resource person	<b>Dr. S. Ushakumari,</b> Project Head, Centre of Excellence in Electric Vehicle TrEST Research Park (Former Professor & Head, EEE department, CET)

#### Summary of the Lecture

In this session, the speaker explained about the value-guided higher education, the importance of values in education system. She explained about the self-realization of individuals, human aspirations and desires. She gave us a clear idea about differentiating happiness and prosperity and how to achieve harmony in life. The unhappiness in life is due to lack of fulfilment in relationship. Human beings spent more time on accumulating wealth and spoil the relationships. There is a conflict in thoughts because of not maintaining the relationships in personal and professional life. Right understanding is also necessary which will help in fulfilling the relationship in individuals. The priorities in the human life have to be decided based on their values. Mutual happiness and mutual relationship, mutual prosperity between individuals by having right understanding and right feeling. She explained the importance and necessity of the inclusion of the human values in higher education. Human beings living with human consciousness live in harmony. Harmony in family, society and harmony with nature are important in life. A state of situation, if there is harmony, it is naturally acceptable. Happiness is stated to be in harmony. She also explained about the difference between prosperity and happiness. Self-exploration is important to live in harmony with family, institution, society etc. She concluded that right education should be based on knowing, assuming, recognizing and fulfilling based on natural acceptance.

The coordinator of the webinar summarized the important points presented by and thanked her for interactive and motivational session delivered by the speaker.

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### 3.3 Valedictory Session

The valedictory session was scheduled and held at 3:00 PM after completion of last session of webinar. Ms. Jyothirmaye, Assistant professor of ECE department had given the vote of thanks speech. She thanked all the dignitaries of the webinar for providing opportunity for conducting this webinar. She thanked all the participants including faculty and students of our institution and other institutions for patiently listening and actively participating in the webinar. She also thanked Dr.Satya Srinivas sir for providing support in setting up the google forms for registration, collecting feedback from the participant and issuing the certificates to the participants.

The coordinator of the session Dr. S. Vallisree expressed her sincere thanks to the Convener of the program Dr. P. Vijai Bhaskar sir for his continuous guidance starting from beginning till the completion of webinar. She also thanked Ms.Jyothirmaye for anchoring the program the entire day. Participants were asked for feedback, they responded and felt the webinar is planned and conducted well and the sessions are really brainstorming.



**PRINCIPAL**  
Geethanjali College of Engg. and Tech.  
Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

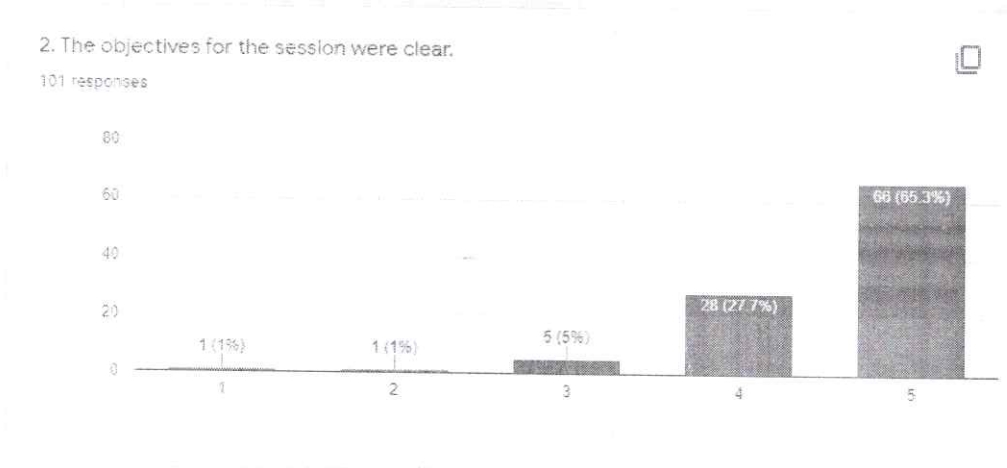
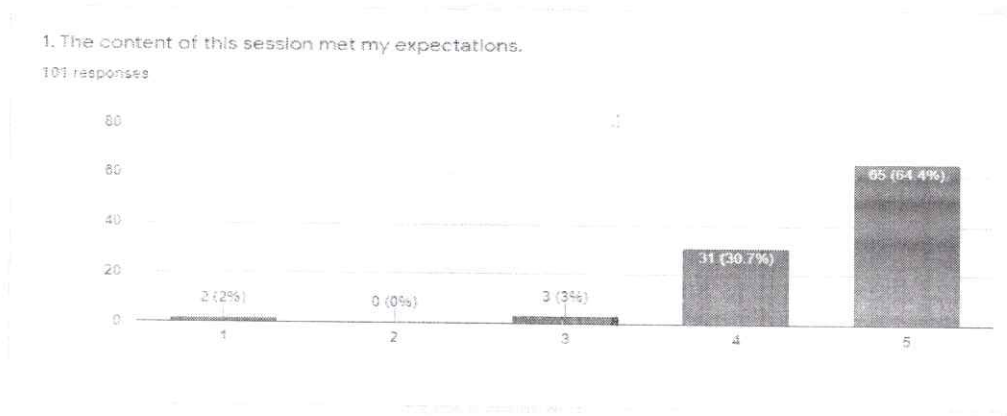
## 4. Participants' Feedback

The feedback of participants is positive; the following are the comments given by participants:

- The topics/sessions were well planned, structured and organized.
- We have obtained knowledge about the National Educational Policy-2020.
- The participants are happy with the discussion about the various aspects of NEP-2020 and the flexibility it provides to the students on higher education.

### 4.1 NEP webinar feedback

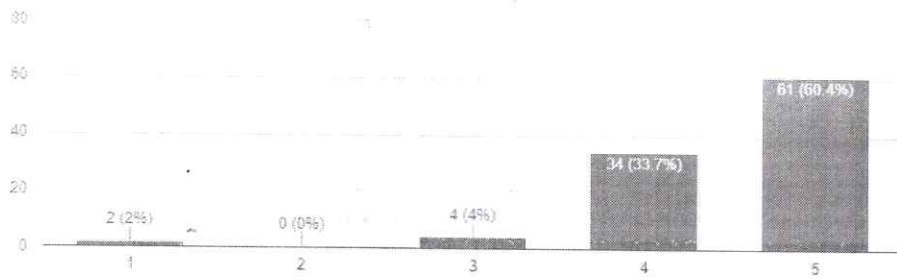
The feedback on the scale of 1 to 5, 5 being the highest for different aspects with regard to session are given below:



3. The method of instruction was appropriate.



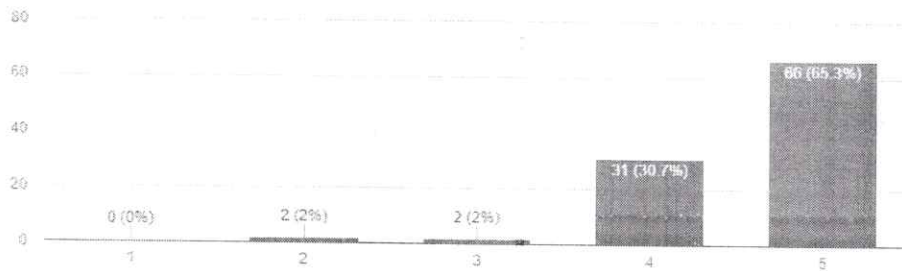
101 responses



4. The presentation was clear, understandable, and well organized.



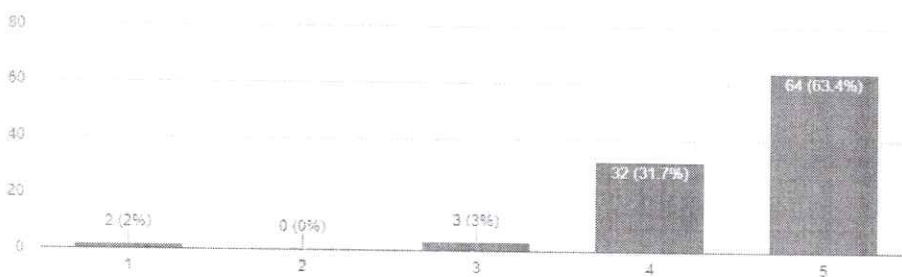
101 responses




5. Does this session helped in gaining awareness about the National Education Policy - 2020



101 responses

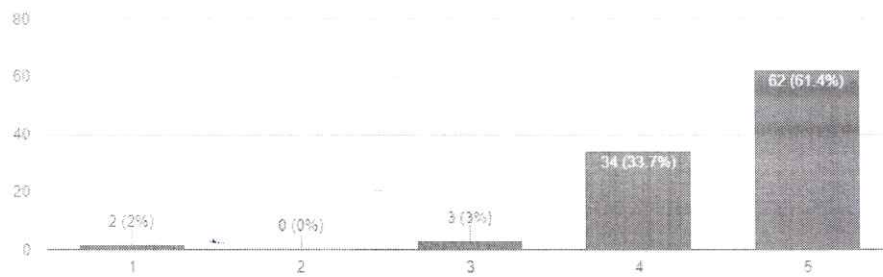


  
Geethanjali College of Engg. and Tech.  
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6. The session helps me to understand the policies which can be adopted in higher education

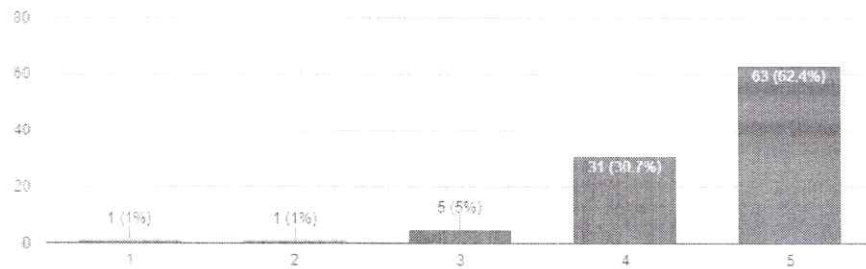


101 responses



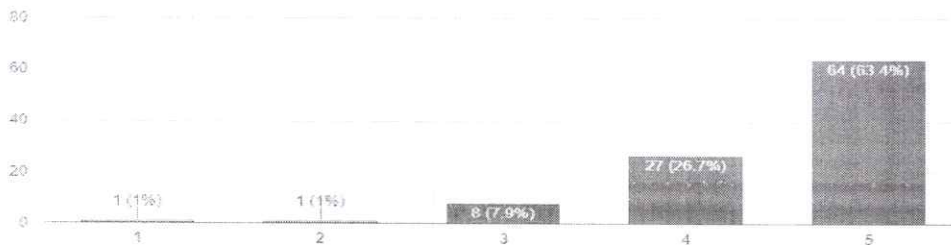
7. The session helps to deepen my understanding about the National Education Policy

101 responses



8. The session assists me to think creatively and innovatively that will enrich my professional career.

101 responses



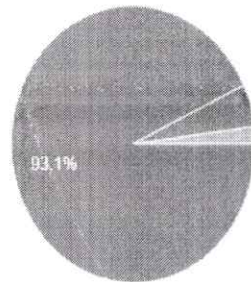
12

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9. This session length was:

101 responses



- aptly
- too long
- too short

10. Describe a specific aspect of this session that will be beneficial to you to become a successful professional.

Good

-  
good information on NPE-2020  
kindly share the proceedings  
about life

Creative Thinking in NEP  
YES

What to choose for career and what are the things that are considered for a happy and prosperous life

Human Values in NEP

Human values

Concept of Harmony and Happiness

Universal Human Values

National policy of education and relation importance  
about human values

Deep understanding of the vision of NEP 2020

Relationships and self happiness

OVERVIEW OF NATIONAL EDUCATION POLICY (NEP)

Human Values and Ethics

FIRST SESSION: AWARENESS ABOUT NATIONAL EDUCATION POLICY

Many

Human Relations

Nothing

Overview of NEP and Human value

I can put it into practice

Human aspiration

gaining some awareness on national education system

Right relationship

To know about NEP

OVERVIEW OF NATIONAL EDUCATION POLICY (NEP)

About NEP and human relationship

How NEP 2020 is going to change the Education System was interesting.

Human values and how to contribute to development of Happiness

NEW ACADEMIC STRUCTURE

Elaboration of NEP for understanding the need for future education

clear idea about national education policy and importance of human values.

highlights of NEN 2020

Good

Opinion on Education need to change by Students

Yes

NEP

They simply discussed the thing which already available.

Education policy

Dr. Meenakshi madam's session inputs are good.

RESPONSIBILITIES TOWARDS SOCIETY

Everything is nice

New academic structure

Human values

session was excellent

No comments

Education to all levels

NA

entire session is very useful

Future of education in India

Good one

Yes

Information

New ideas

NEP 2020

National Education scheme

Got information about NEP

Multi disciplinary awareness among students

Very useful

11. Please offer any specific suggestions to improve this session in the future.

No

-

no

NO

Nil

Nothing

NIL

Good

NA

  
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share the content

Good

It can be Branch specific for Engineering Courses

more information about NEP is reqd.

Please conduct more sessions like this.

Good session

satisfied

IT IS ONLY THEORITICAL CONCEPT

Need more sessions like this

UHV session can more interactive

Ntg

Time to be extent for understanding

yes

Sessions are so good, so no suggestions.

Good organization

They should discuss implementation part, merit and demerit of the policy. Is presently available teaching professionals are ready for this. Also discuss the technical challenges and government plan to improve skill of existing faculties.

No suggestions

EVERYTHING IS GOOD

We need more sessions

Continue the same

nothing

No comments

good session

All good

Yes

It was organized good

None

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Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

## 5. Annexures

### 5.1 Annexure-I: e-mails received from AICTE

4/20/2021

Gmail - Fwd: Conduction of webinar/seminar on "Implementation of National Education Policy (NEP) 2020"



Dr. Vallisree Sivathanu <vallisrees@gmail.com>

#### Fwd: Conduction of webinar/seminar on "Implementation of National Education Policy (NEP) 2020"

1 message

Dean Academics Goet <deanacademics.goet@gmail.com>  
To: "Dr. Vallisree Sivathanu" <vallisrees@gmail.com>

Tue, Mar 23, 2021 at 10:47 AM

with regards

Dr. Vijai Bhaskar Polapragada  
Dean Academics  
GCET, Cheeryal (V), Keesara (M)

----- Forwarded message -----

From: Udaya Susarla <uksusarla@gmail.com>  
Date: Sun, Feb 28, 2021 at 7:33 AM  
Subject: Fwd: Conduction of webinar/seminar on "Implementation of National Education Policy (NEP) 2020"  
To: goetbaco <goetbaco@googlegroups.com>

Dean, Academic is requested to arrange for the webinar/ seminar

----- Forwarded message -----

From: no-reply <admin@aicte-india.org>  
Date: Sat, 27 Feb 2021 at 3:59 PM  
Subject: Conduction of webinar/seminar on "Implementation of National Education Policy (NEP) 2020"  
To: <uksusarla@gmail.com>

Dear Director/Principal,  
AICTE Approved Institute

The National Education Policy 2020 (NEP 2020), outlines the vision of India's new education system. The new policy replaces the previous National Policy on Education. The policy is a comprehensive framework for elementary education to higher education as well as vocational training in both rural and urban India. The policy aims to transform India's education system.

As per directions of the Ministry of Education, Every institution should conduct one webinar/seminar on "Implementation of National Education Policy (NEP) 2020" within next two months i.e. March & April 2021.

Therefore, it is requested to organise one webinar/seminar in your institution for faculty & students. It is also possible that you might have already conducted webinar/seminar in your institute earlier but still you may conduct another one.

Hence, it is requested to please conduct one more webinar/seminar in your institution with your resources and share the date for webinar/seminar. You may also conduct more webinar/seminar if you wish and details may be furnished with following link:

<https://forms.gle/amuyaMsGjS8RiPcc6>

(Link for providing details)

For further details, you may contact at -

Email: [nepseminar@aicte-india.org](mailto:nepseminar@aicte-india.org)

Phone: 011-29581120, 295811

With warm regards,  
AICTE Training and Learning (ATAL) Academy,  
All India Council for Technical Education

<https://mail.google.com/mail/u/0/?ik=7a65c9763c&view=pt&search=all&permthid=thread-f%3A1694998504731545451&siml=msg-f%3A1694998...> 1/2

  
PRINCIPAL  
Geethanjali College of Engg. and Tech.  
Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.



4/15/2021

Gmail - Fwd: Conduction of webinar/seminar on "Implementation of National Education Policy (NEP) 2020"



Dr. Vallisree Sivathanu <vallisrees@gmail.com>

**Fwd: Conduction of webinar/seminar on "Implementation of National Education Policy (NEP) 2020"**

Dean Academics Goet <deanacademics.goet@gmail.com>  
To: "Dr. Vallisree Sivathanu" <vallisrees@gmail.com>

Tue, Mar 23, 2021 at 10:47 AM

with regards

Dr. Vijai Bhaskar Polapragada  
Dean Academics  
GCET, Cheeryal (V), Keesara (M)

----- Forwarded message -----

From: Udaya Susarla <uksusarla@gmail.com>  
Date: Thu, Mar 11, 2021 at 12:52 PM  
Subject: Fwd: Conduction of webinar/seminar on "Implementation of National Education Policy (NEP) 2020"  
To: Dean Academics Goet <deanacademics.goet@gmail.com>, Dr.P.Vijaya Bhaskar <pvjajbhaskar@gmail.com>

----- Forwarded message -----

From: no-reply <admin@aicte-india.org>  
Date: Thu, 11 Mar 2021 at 12:30 PM  
Subject: Conduction of webinar/seminar on "Implementation of National Education Policy (NEP) 2020"  
To: <uksusarla@gmail.com>

Dear Sir/Madam,

This is in continuation to our earlier mail regarding the Conduction of webinar/seminar on "Implementation of National Education Policy (NEP) 2020". Following points are being communicated to you for effective conduction of webinar/seminar: -

1. Institute may use the logo of AICTE for webinar/Seminar banner.
2. Institution those who organise seminar/webinar will be issued a digital certificate of Appreciation from AICTE provided the institution submit reports, photographs and more than 100 participants attended the seminar/webinar.
3. Please find attached herewith, List of Experts (Panelists), if you wish, you may also contact/invite them for webinar/seminar. You may also engage other experts.

Hence, it is again requested to conduct one webinar/seminar in your institution and share the date for webinar/seminar. You may also conduct more webinar/seminar if you wish and details may be furnished with following link:

<https://forms.gle/amuyAmsGjS8RiPco6>

(Link for providing details, Please ignore if shared already)

We will request a detailed report, photograph and no. of participants through separate link later.


For further details, you may contact at -

Email: [nepseminar@aicte-india.org](mailto:nepseminar@aicte-india.org)

Phone: 011-29581120, 295811

PFA:- <https://drive.google.com/file/d/1D9yGrHcyOnHk76ODVzKj2o9eE5qDixlI/view?usp=sharing>

<https://mail.google.com/mail/u/0?ik=7a65c9753d&view=pt&search=all&permmsgid=msg-f%3A1594998636313186103&siml=msg-f%3A1694998...> 1/2

  
**PRINCIPAL**  
Geethanjali College of Engg. and Tech.  
Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301,

5.2 Annexure-II: NEP Webinar Approval Letter

Conduction of webinar on Implementation of National Education Policy (NEP) 2020

Criteria for the conduction of webinar

- a) Institute may use the logo of AICTE for webinar/seminar
- b) Institutions those who organize seminar/webinar will be issued a digital certificate of Appreciation from AICTE, provided the institution submit reports, photographs and more than 100 participants attended the seminar/webinar
- c) List of experts (Panelists) provided by them and other experts can also be engaged.
- d) Webinar should be conducted within next two months i.e. March & April 2021.
- e) Google form should be submitted with all the details.

S. No.	Name of the Resource Person	Position & Achievements	Date of Acceptance	Timings	List of Panelists/Other experts
1.	Dr. M. Meenakshi	Associate Professor, Dr. Ambedkar Institute of Technology	9 <sup>th</sup> April 2021	10:00 AM to 11:00 AM	List of panelists
2.	Dr. R. Rajarajani	National Award Winner and Best Teacher, 28 years of Teaching Experience in Kendra Vidyalaya, Retd. Deas -three Sloughi Arund Vidhyala Group of Institutions	9 <sup>th</sup> April 2021	11:30 AM to 12:00 PM	Other experts
3.	Dr. S. Ushakumari	Chairperson, Mathematics, School of Arts and Sciences, Annirajapuram Associate Professor, Mathematics, School of Arts and Science, Annirajapuram	9 <sup>th</sup> April 2021	2:00 PM to 3:00 PM	List of Panelists

\*Probable date of webinar: 9<sup>th</sup> April, 2021

*S. Vallabha*  
Dr. S. Vallabha  
Coordinator

*Dr. S. Vallabha*  
Dr. S. Vallabha  
Dean Academics

*Handwritten notes:*  
 - The NEP is a...  
 - It is mandatory...  
 - Submitted to Secretary...  
 - 15/03/21  
 - 13/03/21

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*[Signature]*  
**PRINCIPAL**  
 Geethanjali College of Engg. and Tech.  
 Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

### Account details of Resource Persons – NEP Webinar

The following are the account details of the resource persons of the webinar conducted on 'Implementation of National Education Policy – 2020' on 9<sup>th</sup> April 2021.

1) Dr.M.Meenakshi

Account Name: Dr. Meenakshi, M  
Bank: Canara Bank  
Branch: Dr. AIT BRANCH  
Account No.: 04862010017987  
IFSC CODE: CNRB0000033

2) Dr.R.Rajammal

Account Name: R. Rajammal  
Bank: State Bank of India  
Branch: Setaiyur Branch  
Account No.: 30005533724  
IFSC Code: SBIN0007948

3) Dr.S. Ushakumari

Account Name: Ushakumari S  
Bank: State Bank of India  
Branch: THIRUVANANTHAP  
Account No.: 57006014380  
IFSC code: SBIN0070268

*S. Vallisree*  
Dr.S.Vallisree  
Coordinator

*P. Vijai Bhaskar*  
Dr.P.Vijai Bhaskar  
Dean-Academics

To  
A/c  
to  
Dr. S. Vallisree  
Each Person  
15/04/21

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*S*  
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Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

5.3 Annexure-III: NEP webinar invitation brochure\*

 **GEEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
(UGC Autonomous Institution Accredited by NBA & NAAC, Permanently  
Affiliated to JNTUH, ISO 9001:2015 certified)  
Cheeryal (V), Keesara (M), Medchal, Dist. 501301 

**Webinar on**  
**'Implementation of National Education Policy – 2020'**

**Resource Persons**

 <b>Dr. M. Meenakshi,</b> Professor Dr. Ambedkar Institute of Technology	 <b>Dr. R. Rajammal,</b> National Award Winner (Best Teacher) Educational Consultant Teacher Trainer Social Ambassador	 <b>Dr. S. Ushakumari,</b> Professor College of Engineering Trivandrum
---	--	---

**Target Audience: Faculty and Students are invited**

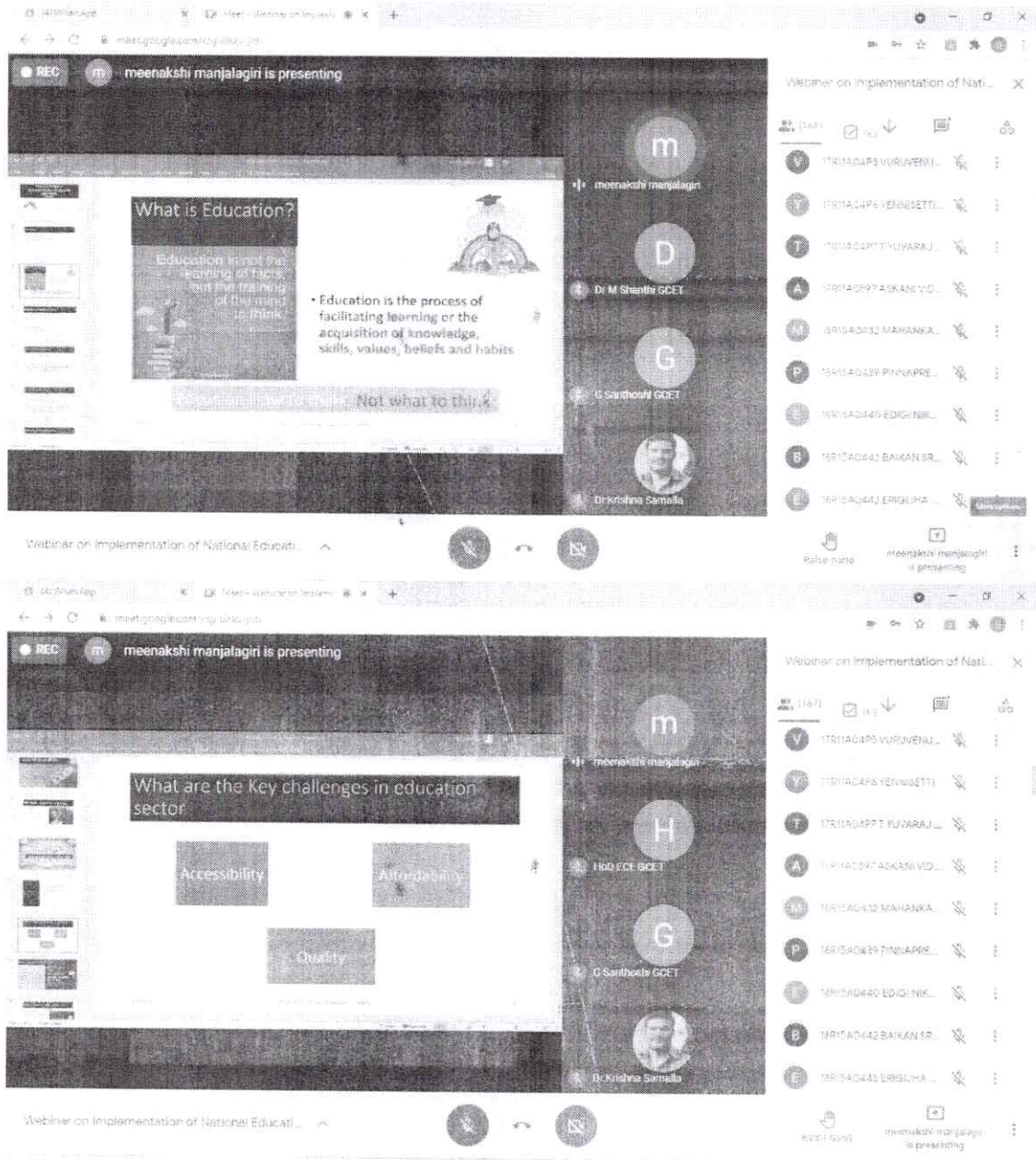
9<sup>th</sup> April 2021

09:30 AM – 11:00 AM      11:00 AM – 12:00 noon      2:00 PM – 3:00 PM

**Registration Link: <https://forms.gle/c7dZtzy7JU4UMVZ8>**  
*e-certificates will be provided to active participants*

  
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Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

5.4 Annexure-IV: NEP webinar photos



  
**PRINCIPAL**  
**Geethanjali College of Engg. and Tech.**  
**Cheerla (V), Keesara (M), Medchal Dist.(T.S.)-501 301.**

meet.google.com/... meenakshi manjalagiri is presenting

Webinar on implementation of National Educ...

meet.google.com/... VOILET.PADMAJA G... and 162 more

Primary and secondary education

Different mother tongues, common butter tongue!

Amul Speaks your language!

- Language is a medium of instruction issue: vernacular education as the primary medium of instruction till 5<sup>th</sup> grade "wherever possible".
- Teaching coding to kids (8<sup>th</sup> grade & above)
- The focus on vocational education from secondary school level.
- Exposure of grade 6-8 students to important vocational crafts such as carpentry, electric work, metal work etc.
- By 2025 at least 50% of learners through school and higher education system to have exposure to vocational education.

Webinar on Implementation of National Educ...

*[Handwritten Signature]*  
**PRINCIPAL**  
 Geethanjali College of Engg. and Tech.  
 Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

WinWithManju is presenting

The famous statement of Nelson Mandela is displayed at the entrance of the University of South Africa thus:

Destroying any nation does not require the use of atomic weapons or the use of long-range missiles. It only requires lowering the quality of education and allowing cheating in the examinations by the students.

Manju Sujith

Webinar on Implementation of Na...

11:01

Suraj E

SURAJPATHADIRI GCET

Shreeg

Sowmi

T.N. Nissak Manjhar

UDAYAKRISHNAN G...

UDHAYA SREEKANTH G...

WinWithManju is presenting

WinWithManju is presenting

**Higher Education - The Way Forward**

This policy envisions a complete overhaul and re-emergence of the higher education system to overcome these challenges and thereby deliver high-quality higher education, with equity and inclusion. The policy's vision includes the following key changes to the current system.

Manju Sujith

Webinar on Implementation of National Educ...

11:04

Karthi Viji Kumar GCET

KARTHORI NAGARAJU...

KRISHNANIRANJAN K...

Keerthi Manojkand GC...

KOLA PRAVEEN, GCET

KOLUBU VENKATESH G...

Lavanya Rajguru

WinWithManju is presenting

  
**PRINCIPAL**  
 Geethanjali College of Engg. and Tech.  
 Cheeryl (V), Neesara (M), Medchal Dist.(T.S.)-501 301.

WinWithManju is presenting

### Higher Education - The Way Forward

Examine 1 year, 2 year, 3-4 year Graduation and Master's Programs

PR11AD4K6 BANKA SHARDN BLESSY has left the meeting

Webinar on Implementation of National Education Policy

Participants: Rajama, Alphonsa Maria GCEET, Answathy Rajan, Manju Sajish

WinWithManju is presenting

### Higher Education - Quiz

How many years would a student (who has completed 4 year graduation) have to study to complete Post graduation?

A. 2 years  
B. 1 year

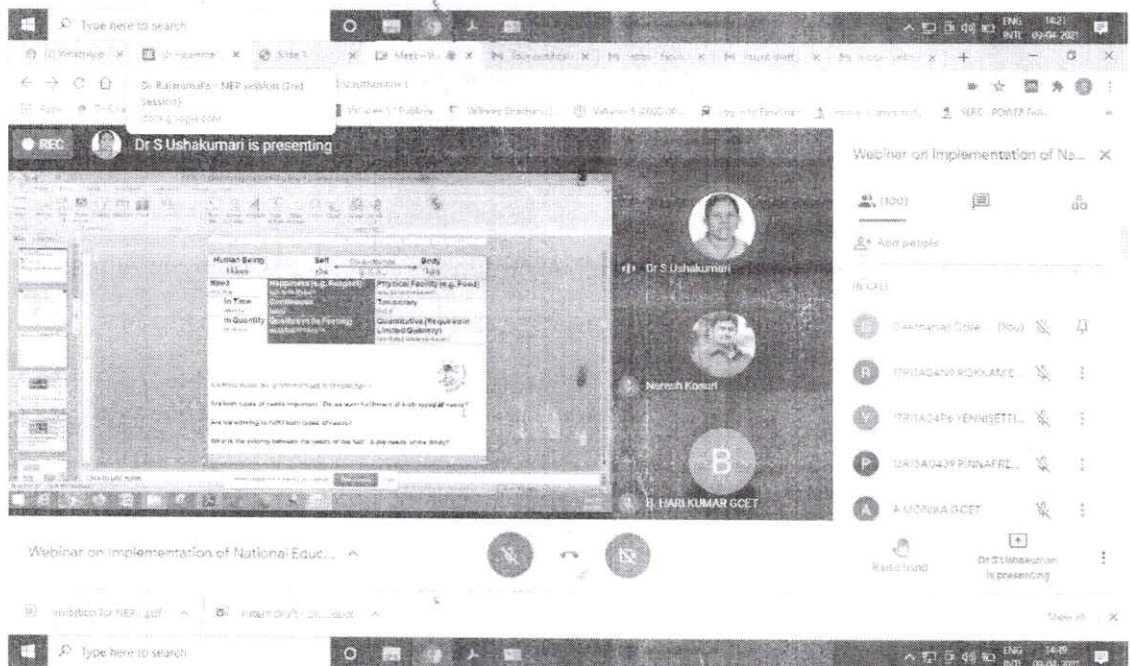
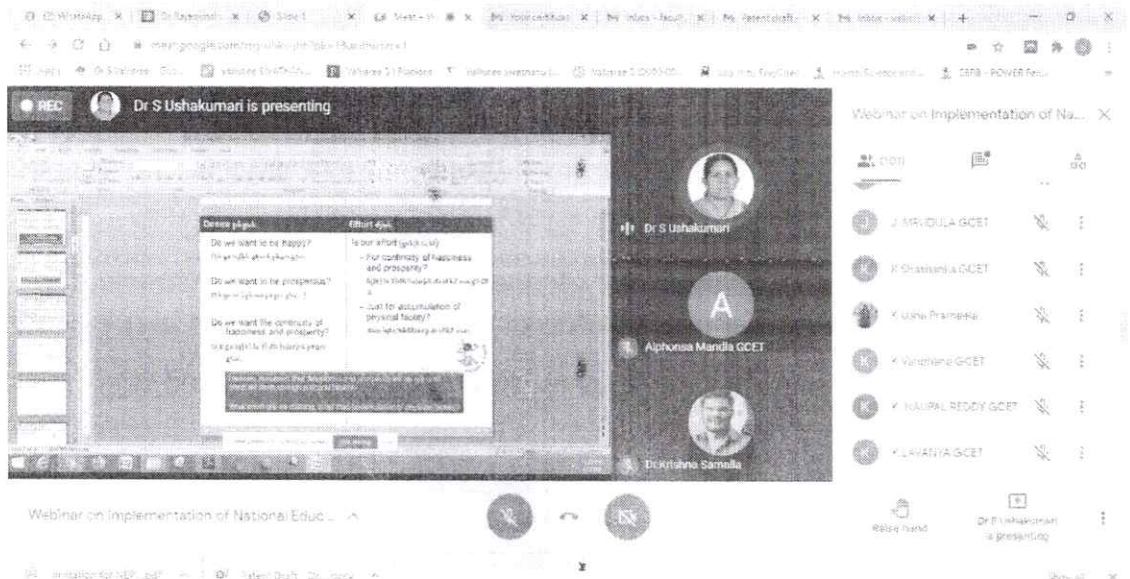
Webinar on implementation of National Education Policy

Participants: Rajama, Alphonsa Maria GCEET, Answathy Rajan, Manju Sajish

Participants: Dr DEVAIAH MALKAPURAM GCEET, M LAXMI GCEET, VIJAYA LAKSHMI GCEET, E Divyapriya GCEET, pradi kumar

**PRINCIPAL**  
**Geethanjali College of Engg. and Tech.**  
**Cheeryl (V), Keesara (M), Medchal Dist.(T.S.)-501 301.**





  
**PRINCIPAL**  
**Geethanjali College of Engg. and Tech.**  
**Cheeraj (V), Keesara (M), Medchal Dist, (T.S.)-501 301.**



# Geethanjali College of Engineering and Technology

(UGC Autonomous)

(Accredited by NAAC with 'A' Grade & NBA, Approved by AICTE and Permanently Affiliated to JNTUH)  
Cheeryal(V), Keesara(M), Medchal Dist., Telangana State – 501 301.

## Department of Electronics and Communication Engineering

Report Submitted to Principal:

Signal Processing and Control Systems Group, Department of Electronics and Communication Engineering in association with IEEE Robotics and Automation Society (IEEE RAS), IEEE SB GCET is planning to conduct a guest lecture for the benefit of III year students of B.Tech (ECE) which would enable the students to understand the practical hardware implementation of DSP algorithms.

**Dr. N. Balaji Professor & Director (IQAC)-JNTUK** was the resource person for the guest lecture. The topic was on “Digital Signal Processors-Hardware for Implementation of DSP algorithms”

**Google link:** <https://meet.google.com/yem-quqq-pnn>

- Session was started sharp at 9:30 AM on 3/04/ 2021.
- Participants are all IIIrd Btech ECE students
- 129 students and 4faculty have attended guest lecture.
  
- . During his session he focused on the following topics
  - Lecture started with evolution of IC's
  - Discussed about basics of microprocessor, microcontrollers and DSP procesors
  - Defined Digital signal processor and its uses in Audio,communications,image manipulation,other data aquisition and data control applications.
  - Discussed Architecture of Digital Signal Processor with real time analog signals.
  - Highlighted the advantages and limitations of Digital signal PRocessors
  - Requirements of a good Digital Signal Processors.
  - Basic Features of DSP Processor.
  - Working Principles of DSP processors
  - Harvard Architecture and Von Neumann Architecture
  - Comparisions of two architecture
  - Floating- and Fixed-point numbers in DSP processors
  - Over all Perspective of the Digital Signal Processing Problem

  
**PRINCIPAL**  
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Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

- General purpose Digital Signal Processors
- What are the addition features required for Digital Signal Processor
- Issues when DSP functions are implemented on IC chips
- Pipelining stages in TMS320C6x with number of cycles
- Addressing modes in DSP processor and its circular buffers
- Circular Addressing in DSP Processor

Dr. N. Balaji concluded the session by highlighting the significance of DSP Processor in real time. Session ended at 11 AM

**OUTCOME:** This guest lecture was very helpful to students as they are learning DSP in the present year. They have learned how the algorithms for filter design are implemented in real time and what are the real time issues that industry faces to implement DSP algorithms such as FFT, IIR and FIR filter on IC

Recorded session Link: <https://drive.google.com/file/d/1lgKgp092I3YDfueepx-KaDEXSEmrnML2/view?usp=sharing>



**Coordinator**  
(Dr.S.Spandana)



**Dean-SE&CE**



**HOD-ECE**

- Enclosures:
- 1) Need Analysis
  - 2) Principal Approval
  - 3) Circular
  - 4) Banner
  - 5) Participant feedback.
  - 6) Attendance
  - 7) Proof of honorarium paid
  - 8) Webinar Photos

  
**PRINCIPAL**  
 Geethanjali College of Engg. and Tech.  
 Cheerayal (V), Keesara (M), Medchal Dist.(T.S.)-501 301

Meet - yem-quap-pm - Google Chrome  
meet.google.com/yem-quap-pm?authuser=C

Geethanjali College Engineering and Technology is presenting

18R11A04P8 YADAVALLI S... and 8 more

9:27 AM

Geethanjali college of Engineering and Technology  
(UGC Autonomous Institution)  
(Approved by AICTE, Affiliated to JNTUH, Accredited by NAAC & NBA, New Delhi)  
Cheerl (V), Keesara (M), Medchal District, Telangana - 501 381

ECE DEPARTMENT  
GUEST LECTURE  
On  
"Digital Signal Processors-Hardware for Implementation  
of DSP Algorithms"  
By: Dr. N. Balaji, Professor & Director (IQAC)-JNTUK  
in association with:  
IEEE Robotics and Automation Society (IEEE RAS), IEEE SB GCET  
On 3<sup>rd</sup> April, 2021 (Saturday), 9:30AM to 11:00AM

Meeting details

18R11A04G1 GADILA...  
18R11A04L4 BHUMPA...  
18R11A04K1 VUMMA...  
18R11A04M1 GARLAPATI  
RADHA SAILEELA SRIVIDYA  
joined

9:27 AM

*8*  
**PRINCIPAL**  
Geethanjali College of Engg. and Tech.  
Cheerl (V), Keesara (M), Medchal Dist.(T.S.)-501 381.

Meet - ym-qzqt-gwt - Google Chrome

meet.google.com/ym-qzqt-gwt?authuser=1

REC Balaji Narayanam is presenting

**A perspective of the Digital Signal Processing problem**

Meeting details

(137)

- 18R11A04G1 GADILA NIDHI RED...
- 19R15A0421 KADAKAN...
- 19R15A0424 BOMMAR...
- APPALA RAJU UPPALA...
- Balaji Narayanam
- Balaji Narayanam Presentation
- BO'NDA LEELAPAM PRA...
- Dr. M. Shoukath Ali
- Geethanjali College Eng...

Meeting details

Meeting controls: Mute, Video, Chat, Raise hand, Turn on captions, Balaji Narayanam is presenting

Meet - ym-qzqt-gwt - Google Chrome

meet.google.com/yms-qzqt-gwt?authuser=1

REC Balaji Narayanam is presenting

18R11A04B9 KURAPATI KAVYA RE... and 124 more

10:56 AM

APDMGSG

Meeting details

- Geethanjali College Eng...
- Odalah GCET
- PIRATLA SRIHARI GCET
- Balaji Narayanam
- 18R11A04G1 GADILA...
- 18R11A04G0 DIVYA S...
- 18R11A04K7 ASHRAT
- 19R15A0409 MINALA...

Meeting details

Meeting controls: Mute, Video, Chat, Raise hand, Turn on captions, Balaji Narayanam is presenting

*[Signature]*

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 Cheerayal (V), Keesara (M), Medchal Dist.(T.S.)-501 381.



**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
(UGC Autonomous Institution)  
Department of Electronics and Communication Engineering

Approved by AICTE, Affiliated to JNTUH, Accredited by NAAC & NBA, New Delhi)  
Cheeryal (V), Keesara (M), Medchal District, Telangana – 501 301

Date: 25.03.2021

**CIRCULAR**

Under the aegis of Centre of Excellence in VLSI Design and IEEE CAS SB of our department, a guest lecture is scheduled for B.Tech (ECE) III year students to equip them with in-depth knowledge of designing high performance Digital Integrated Circuits. This will enable the students to understand the practical implications of VLSI Design.

Resource Person: **Dr. Sakthivel Ramachandran**  
Date and Time: **31<sup>st</sup> March, 2021 (Wednesday), 11 AM – 12:30PM**  
Title: **“Timing Analysis of Digital Circuits”**  
Designation: Associate Professor, VIT University, Vellore  
Google Meet Link: <https://meet.google.com/jpk-abjh-gno>

Prof. OVPR. Siva Kumar  
Group V Head  
Analog Electronics, VLSI and EIM

Dr. S. Vallisree  
Associate Professor and Coordinator

Dr. S. Suryanarayana  
Professor and HoD, ECE

Prof. B. Hari Kumar  
Professor and Dean, SE & CE

Copy to

- 1) Circulation to Faculty and III B.Tech Students Whatsapp
- 2) ECE Department File

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## Department of Electronics and Communication Engineering

### Report on

### Guest Lecture titled 'Timing Analysis of Digital Circuits'

Under the aegis of Centre of Excellence in VLSI Design and IEEE CAS SB of our Department of Electronics and Communication Engineering organized a guest lecture on the topic "*Timing Analysis of Digital Circuits*" on 31-03-2021 (Wednesday) from 11:00 AM to 12:30PM. Webinar invitation was circulated to all the III year students along with the google meet link to access the webinar: <http://meet.google.com/cnd-vdhk-cog>.

Dr. Sakthivel Ramachandran, Associate Professor, VIT University, Vellore was the resource person for the webinar.

- Session started sharp at 11:00 AM on 31-03-2021.
- Participants from all third year sections and some faculty members also joined the session.
- 28 participants attended the webinar session.
- Introduction to the webinar topic was given by Prof. OVPR Sivakumar.
- After introduction, Dr. Sakthivel Ramachandran started his session. During his session he focused on the following topics
  - Discussed about the importance of timing analysis with real-time analogies.
  - Discussed about different parameters involved in the timing analysis of digital circuits.
  - Defined the parameters like set up time, hold time and its practical implications in digital circuits.
  - Explained the various aspects of timing analysis with a sequential circuit example.
  - Discussed the transfer of data from register to register considering the timing aspects.
  - Also discussed about the software tools required for the timing analysis.
  - Research scope in the area of VLSI related fields.

  
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meet.google.com/jpk-abjh-gnc?authuser=2

REC sakhivel ramachandran is presenting

18R11A0429 KONDAMGARI SAISREE... and 16 more

11:20

A Guest Lecture on "Timing Analysis of Digit..."

Dr.Rajammal Profile.pdf WhatsApp image...jpeg I\_B\_Tech\_II Sem(20...xls WhatsApp image...jpeg Circular\_guest\_lect...doc

Type here to search

meet.google.com/jpk-abjh-gnc?authuser=2

REC sakhivel ramachandran is presenting

18R11A0429 KONDAMGARI SAISREE... and 16 more

11:20

A Guest Lecture on "Timing Analysis of Digit..."

Dr.Rajammal Profile.pdf WhatsApp image...jpeg I\_B\_Tech\_II Sem(20...xls WhatsApp image...jpeg Circular\_guest\_lect...doc

Type here to search

20

IN CALL

- Geethanjali Colle... (You)
- 18R11A0429 KONDAMG...
- 18R11A0441 UTHARA SU...
- 18R11A0442 V SHARUN...
- 18R11A0446 YAMA SAK...

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After the session by Dr. Sakthivel Ramachandra, concluding remarks were given by Dr. S. Vallisree and session was ended at 12:30PM

**OUTCOME:** This webinar was helpful to all the third year students and faculty members in terms of:

- Knowing the importance of design the digital circuits in an efficient manner
- Understanding the different parameters involved in the timing analysis
- Implications of delay in digital circuits
- Designing digital circuits by careful consideration of the timing of each and every element in the circuit.

Recorded session Link:

[https://drive.google.com/file/d/1Qe2RgdShCO40Q5zQgqo3fFTNVfEpnji\\_/view?usp=sharing](https://drive.google.com/file/d/1Qe2RgdShCO40Q5zQgqo3fFTNVfEpnji_/view?usp=sharing)



Coordinator

(Dr. S.Vallisree)



Group V Head

Prof. OVPR Sivakumar



Dean-SE&CE



HOD-ECE

- Enclosures:
- 1) Need Analysis
  - 2) Principal Approval
  - 3) Circular
  - 4) Participant feedback.
  - 5) Proof of honorarium paid
  - 6) Webinar Photos

  
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## Department of Electronics and Communication Engineering

### Circular

A webinar is scheduled on the topic *“How to Manifest Innovation & Entrepreneurship Ecosystem in the Student Community and Protection of IP for Innovations”*.

Faculty members of all the departments are invited to attend the webinar as per the schedule mentioned below:

#### Webinar Schedule:

Date: 26-03-2021(Friday)

Time: 2:00 PM to 3:30 PM

Resource person:

**Dr. M. K. Kaushik,**

CEO-VIBA (Vaagdevi Incubation and Business Accelerator)

Link to access webinar:

<https://meet.google.com/ava-yjsz-trf>

Dean-ECE

  
26/3/21

HOD-ECE

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Whats app sent on 24/3/21  
at 1:50pm



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## Department of Electronics and Communication Engineering

### Report Submitted to Principal on Webinar conducted on 26-03-2021:

Department of Electronics and Communication Engineering organized a webinar on the topic **“How to Manifest Innovation & Entrepreneurship Ecosystem in the Student Community and Protection of IP for Innovations”** on **26-03-2021 (Friday) from 2:00 PM to 3:30 PM**. The webinar invitation was circulated to all the departments and googlemmeet link to access the webinar is: <https://meet.google.com/ava-yjsz-trf>.

**Dr. M. K. Kaushik, CEO-VIBA** (Vaagdevi Incubation and Business Accelerator) was the resource person for the webinar.

- Session was started sharp at 2:00 PM on 26-03-2021.
- Participants from different departments joined the webinar session
- There were **52 participants** attended the webinar session.
- Introduction to the webinar topic was given by **Dr. R.S. Raju**, Dean R&D
- After introduction Dr. M. K. Kaushik started his session. During his session he focused on the following topics:
  - Discussed about the innovations in India and the position of India in global ranking w.r.t. innovations and start-ups
  - Discussed about aspiration of Indian innovations by 2024
  - Defined innovation and entrepreneurship.
  - Had a look on top-5 Eco-Systems in the world.
  - As an academicians what we should do? Discussed the role of teacher.
  - Focused on essentials to become entrepreneur.
  - Discussion on the requirement of start-ups.
  - Focused on IPR and its protection.
  - Explained various organizations in India and world, where one can file patents or search existing patents.
  - Patent application, various forms for applying and maintaining patents.
  - Also discussed about registration fees and time line for Patenting processes.

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- Finally, he shared his contact details for further discussions.

After the session by Dr. Kaushik, concluding remarks were given by Dr. R. S. Raju, Dean, R & D and session was ended at 3:30 PM

**OUTCOME:** This webinar was helpful to all the faculty members in the following terms:

- Knowing the importance of Innovation & Entrepreneurship
- Understanding the role of teacher in student innovations
- How to motivate students towards entrepreneurship
- Protection of innovation by patents
- Understanding the patent filing agencies and norms

Recorded session Link:

<https://drive.google.com/file/d/1lvuZktpRu5Ky6ytpVx2FGzmC2QQqJmCZ/view?usp=sharing>

  
Coordinator

(Dr. M. Shoukath Ali)

  
Dean-SE&CE

  
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**HOD-ECE**

- Enclosures:
- 1) Need Analysis
  - 2) Principal Approval
  - 3) Circular
  - 4) Banner
  - 5) Acceptance by resource person – email
  - 6) PPT – Handouts.
  - 7) Participant feedback.
  - 8) Proof of honorarium paid
  - 9) Webinar Photos
  - 10) Copy of appreciation letter given to resource person



Dr. M. Shoukath Ali &lt;drshoukathali.ece@gcet.edu.in&gt;

**Invitation to conduct a webinar (26-03-2021) - reg**

2 messages

Dr. M. Shoukath Ali <drshoukathali.ece@gcet.edu.in>  
To: kaushik\_mk@vaagdevi.edu.in

Wed, Mar 24, 2021 at 2:14 PM

Sir,

On behalf of Electronics and Communication Engineering Department, Geethanjali College of Engineering & Technology, Keesara, Hyderabad., I am inviting you to conduct a webinar on **26-03-2021(Friday) from 2:00 PM to 3:30 PM** on the topic ***"How to Manifest Innovation & Entrepreneurship Ecosystem in the Student Community and Protection of IP for Innovations"***.

Google meet link for the same is : <https://meet.google.com/ava-yjsz-trf>

Please freeze the date and time slot for us.

-- Thanks & Regards

**Dr. M. Shoukath Ali**

DECE.,B.E.,M.E.,Ph.D

Associate Professor/ECE

Geethanjali College of Engineering & Technology



**Circular-Webinar-26.03.2021.jpg**  
264K

Dr. K. Kaushik <kaushik\_mk@vaagdevi.edu.in>  
To: "Dr. M. Shoukath Ali" <drshoukathali.ece@gcet.edu.in>

Thu, Mar 25, 2021 at 12:06 PM

I accept the invitation and will be available for the same sir. Thank you

On Wed, 24 Mar 2021, 14:14 Dr. M. Shoukath Ali, <drshoukathali.ece@gcet.edu.in> wrote:

Sir,

On behalf of Electronics and Communication Engineering Department, Geethanjali College of Engineering & Technology, Keesara, Hyderabad., I am inviting you to conduct a webinar on **26-03-2021(Friday) from 2:00 PM to 3:30 PM** on the topic ***"How to Manifest Innovation & Entrepreneurship Ecosystem in the Student Community and Protection of IP for Innovations"***.

Google meet link for the same is : <https://meet.google.com/ava-yjsz-trf>

Please freeze the date and time slot for us.

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Department of Electronics and Communication Engineering**

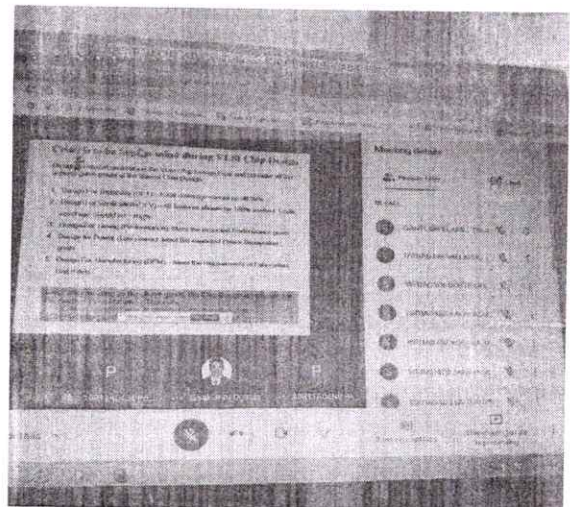
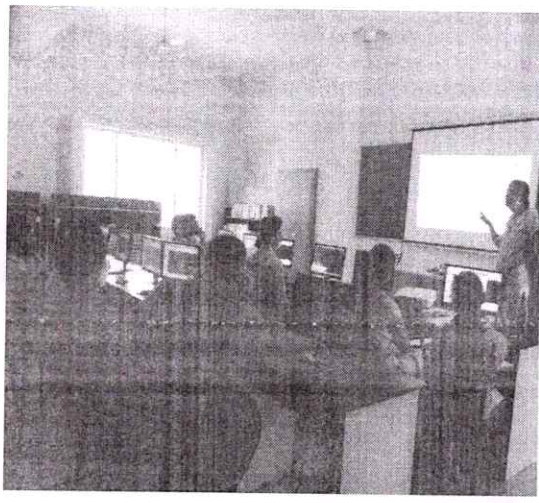
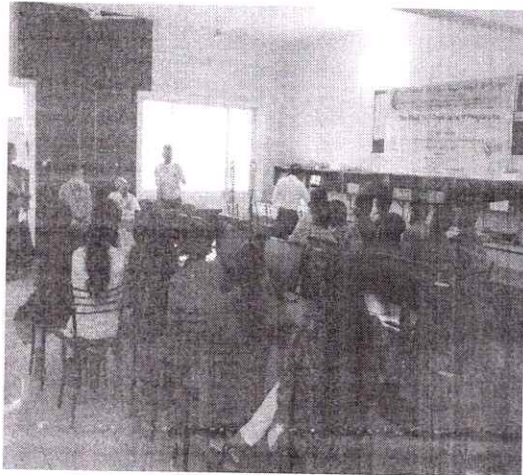
**Workshop Report**

Centre of Excellence in VLSI Design, Department of ECE, GCET organized One week Skill Development Programme on “VLSI Design Flow Using Cadence Software with Hands-On Experience” from 22nd to 27th March, 2021 in association with IEEE CAS/EDS Student Branch, GCET. The workshop invitation was circulated to all sections of 2<sup>nd</sup> and 3<sup>rd</sup> year students and conducted offline to access the hands-on experience of cadence tools. Few resource lectures were conducted through online based on the convenient

Date	9:15 – 10:00		10:15-11:30	11:30 to 12:45		13:15-14:30		14:45-15:30
Day-1 22/03/20 21	Inaugural Session Keynote address by Dr.R.S.Raju, Dean R & D GCET	T e a c h e r s B r e a k	Motivational talk by Dr.P.Sohad, Professor and Group Head Signal Processing and Control Systems GCET	Job Opportunities in VLSI Professor OPVR, Srikalahasti, GCET	L u n c h B r e a k	Design of CMOS Inverter by Mr. G.Sree Lakshmi, M.Krishna, Mr.Chaitanyu, M.Krishna Singh	T e a c h e r s B r e a k	Design of CMOS Inverter by Mr. G.Sree Lakshmi, M.Krishna, Mr.Chaitanyu Singh
Day-2 23/03/20 21	ASIC Design Flow Dr.S.Mallikarjuna Associate Professor GCET		ASIC Design Flow Dr.S.Mallikarjuna Associate professor GCET	Layout Design of CMOS Inverter by Mr.Chaitanyu Singh, G Sree Lakshmi, M.Krishna		Layout Design of CMOS Inverter by Mr.Chaitanyu Singh, G Sree Lakshmi, M.Krishna		Layout Design of CMOS Inverter by Mr.Chaitanyu Singh, G Sree Lakshmi, M.Krishna
Day-3 24/03/20 21	Design of High frequency CMOS Amplifiers Dr.S.Sudhanarayana Professor and HOD GCET		Design of High frequency CMOS Amplifiers Dr.S.Sudhanarayana Professor and HOD GCET	Opportunities to study at Abroad By Dr. P. Vijay Durga Associate Professor, GCET		Design of CMOS NAND gates by Mr. G. Sree Lakshmi, M.Krishna, Mr.Chaitanyu Singh		Design of CMOS NAND gates by Mr. G. Sree Lakshmi, M.Krishna, Mr.Chaitanyu Singh
Day-4 25/03/20 21	Complete ASIC Design flow by Prof.OPVR, Srikalahasti, Professor GCET		Complete ASIC Design flow by Prof.OPVR, Srikalahasti, Professor GCET	Lab Session, by Mr. G.Sree Lakshmi and team		Vedlog Design using HDL By Mr. E.Seealatha, Associate professor, GCET		Vedlog Design using HDL By Mr. E.Seealatha, Associate professor, GCET
Day-5 26/03/20 21	Analog Design flow by Mr.R.Chaitanyu Singh, Senior Design Engineer, INTEL, Bangalore		Analog Design flow by Mr.R.Chaitanyu Singh, Senior Design Engineer, INTEL, Bangalore	Lab Sessions on Sequential Circuit Design		Lab Sessions on Sequential Circuit Design		Lab Sessions on Sequential Circuit Design
Day-6 27/03/20 21	Lab session practice		Lab session practice	Lab session practice		Lab session practice		Valedictory Session

Day 1 session started on 22<sup>nd</sup> March 2021 with inaugural session by inviting Dr. R.S.Raju sir Dean R & D,GCET and Dr.P.Srihari group head of Signal processing and Control systems on to the dias. They motivated students and explained the importance of core area and shared their

  
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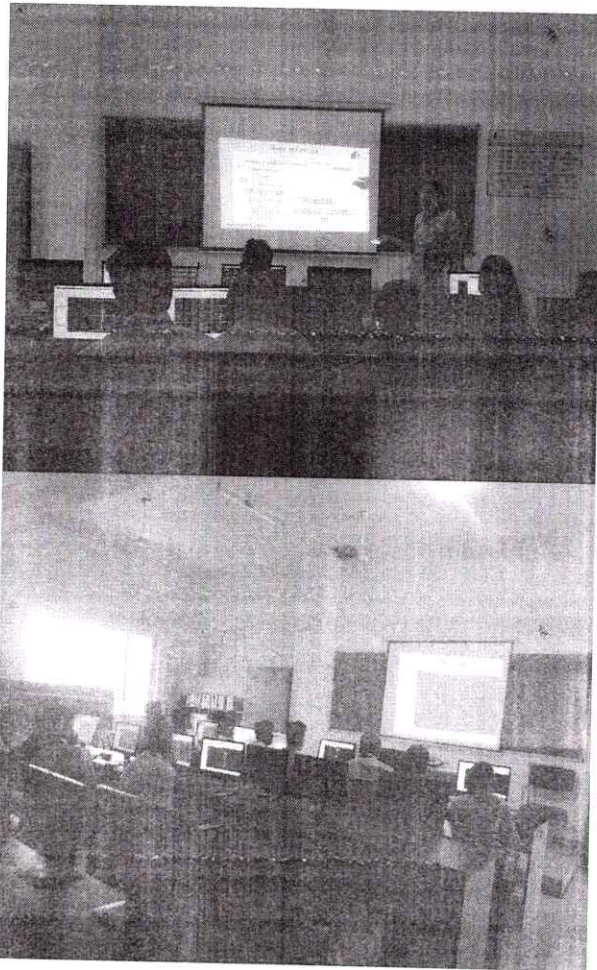


Afternoon session started with CMOS Inverter design using Cadence and its characteristics and its schematic design, symbolic representation and its characteristics. For this workshop students those who are passion to learn and expose to core area were joined and around 18 students and they were satisfied with EDA tools and lab.

  
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**Day 2: 23/03/2021**

Second day started with the session on “ASIC flow” by Dr.S.Vallisree, Associate Professor, GCET and later continued by lab session on Layout of Inverter by Mr.Chattar singh, Assistant Professor, GCET.



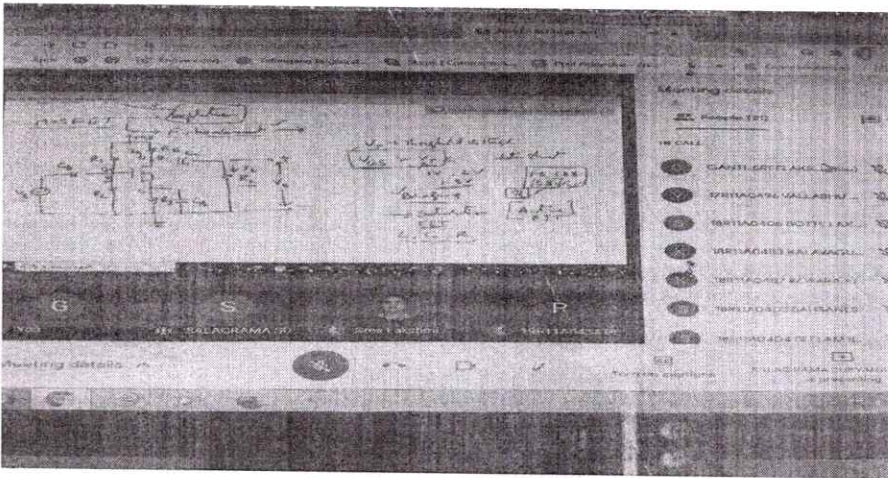
Afternoon session continued with Two-input Nand gate and Nor gate designs.

  
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**Day 3: 24/03/2021**

Third day session started with a session on “**High Frequency Amplifier Design**” by Dr.S.Suryanarayana, Professor and Head of Department on Amplifer designs. And the same is practiced by students through virtuoso cadence tools.



Later we had a session On “ Opportunities to study at abroad” by Dr.R.Vijaya Durga, Associate professor, GCET. She explained all requirements for selecting courses in Abroad. Students gained knowledge on this and they were shown gratitude to mam for knowing all documentation required for applying universities.

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## What are **Essay, SOP, LOR**

### Essay:

- Career aspirations
- Strengths and weaknesses
- Skills
- Experiences
- Reasons for considering a particular school.

### SOP:

- Your introduction to the college and admission officers.
- The reason for applying to a particular college.
- Highlight why you are a perfect fit for the college and why the college should accept you.

### LOR:


- A reference letter written by a third party describing the qualities, characteristics, and capabilities of the prospective student to recommend you to the college in terms of that individual's ability to perform a particular task or function.
- The third party could be a professor, direct manager etc.

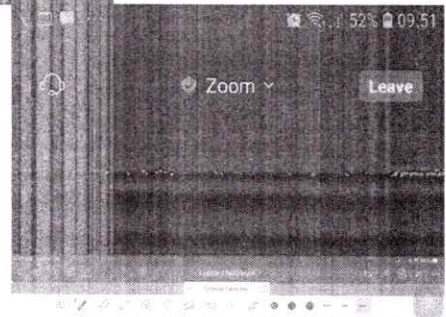
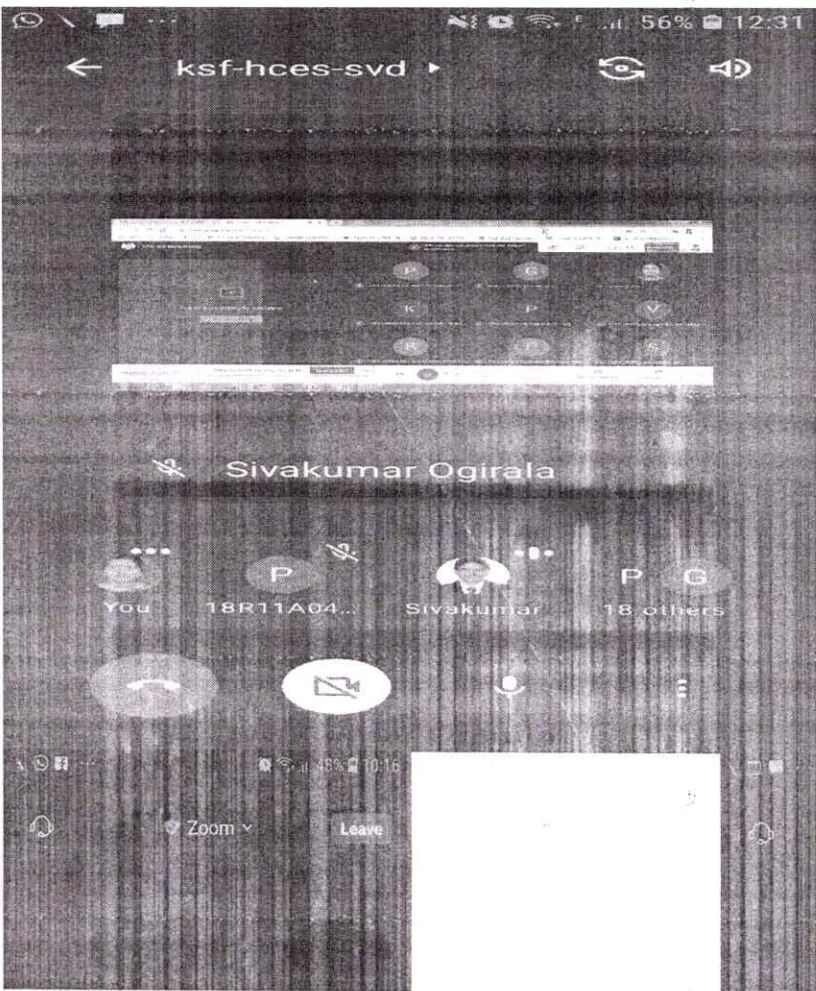
Dr. R. V. Durga GCET

G D P B M  
You Dr. R. V. D... 18R11A04... 22 others

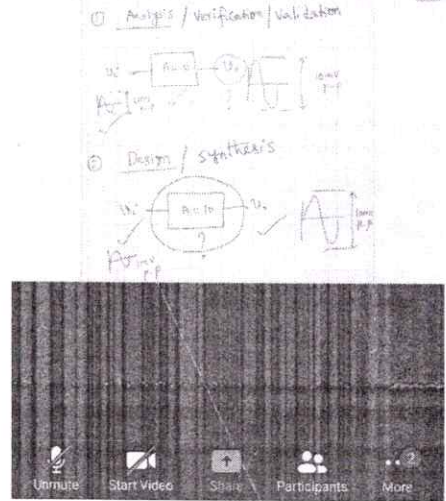
Day 4: 25/03/2021

Day started with the session by Professor QVPR Siva Kumar, GCET on "ASIC Design flow and Do's and Dont's in fabrication of chip design" He gave complete industrial design flow starting from defining of statement to tape out. Few videos were played to make sessions more interesting and interactive. Students expressed their satisfaction towards this workshop.

  
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- ✓  Analog/Verilog/FPGA
- ✓  Circuit/Analog Designer (Analog FrontEnd)
- ✓  Layout Engineer/Mask Designer (Analog BackEnd)
- ✓  RTL Engineer (Digital FrontEnd)
- ✓  Logic Verification/Validation Engineer (Digital FrontEnd)
- ✓  Physical Design-PD engineer (Digital BackEnd)
- ✓  Behavioral Modeling- BMOD Engineer (Digital FrontEnd)
- ✓  Mixed Signal Validation MSV Engineer (FrontEnd)

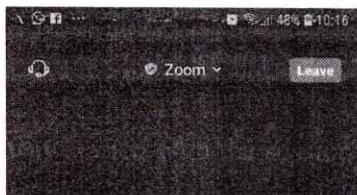


Day 5: 26/03/2021

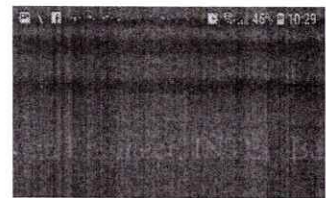
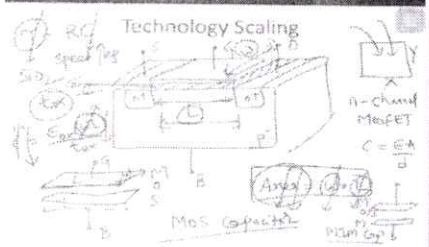
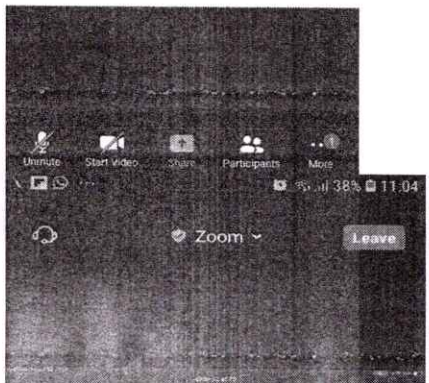
  
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Day started with the session by Mr.B.Chakravarthi, Senior Design Engineer, INTEL Bangalore,

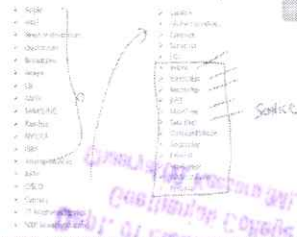
He explained the complete analog flow of VLSI .



- Frontend/Front-End
- Circuit/Analog Designer (Analog FrontEnd)
- Layout Engineer/Mask Designer (Analog BackEnd)
- RTL Engineer (Digital FrontEnd)
- Logic Verification/Validation Engineer (Digital FrontEnd)
- Physical Design- PD engineer (Digital BackEnd)
- Behavioral Modeling- BM/D Engineer (Digital FrontEnd)
- Mixed Signal Validation- MSV Engineer (FrontEnd)



Few Product/Service based VLSI companies

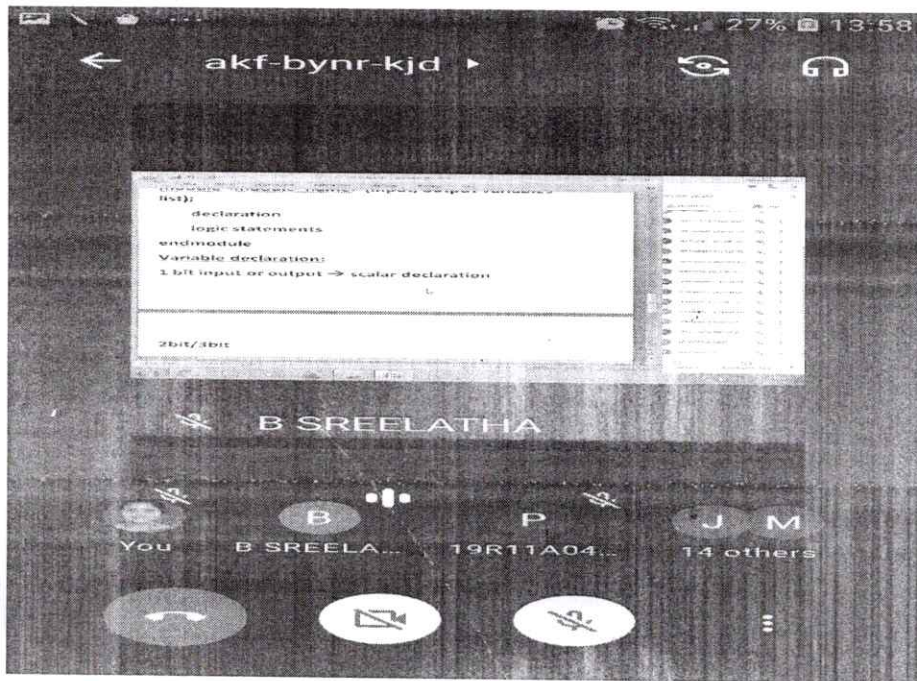


In-call volume



  
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Afternoon session went on Digital Design using Xilinx tools. Mrs.B.Sreelatha had session on “Verilog HDL”. During this session she explained all three different modules of verilog and programming concepts and its simulation and synthesis. They wrote the code for full adder, halfadder, multiplexers, and other combinational circuits using Xilinx 14.2i.




They continued practical session on 27/03/2021 and completed few tasks assigned to them.

This workshop ended by the valedictory session and feedback from the participants.18 students got benefited from this workshop.

OUTCOME: This workshop was helpful to all the students in the following terms:

- They are able to differentiate between Analog VLSI and Digital VLSI
- Understand the terms Synthesis, Simulation, Design flow, Front end Design and Backend Design.

  
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- Students are capable of drawing schematics and Layouts for various circuits.
- Learned new EDA design flow Cadence and Xilinx
- Motivated to do VLSI based projects

Participants of workshop:

1	M.Tanuja	18R11A04P9	III_Esec
2	Ch.Manoj	19R15A0408	III_Bsec
3	B.Vinay Goud	18R11A04L3	III_Esec
4	A.Anudeep	18R11A04K4	III_Esec
5	Yashwanth.P	18R11A04N9	III_Esec
6	B.Bhavani Yadav	18R11A0406	III_Asec
7	M.Nikhil chakavarthy	18R11A04D2	III_Csec
8	J.Sowjanya	19R11A0414	II_Asec
9	P.Vaishnavi	19R11A0433	II_Asec
10	M.Jyothi	19R11A0425	II_Asec
11	P.Bhavya Sai	19R11A0434	II_Asec
12	M.Vivek	19R15A0413	III_Csec
13	K.Sai Praneeth	18R11A04B3	III_Csec
14	S.Bala Satyanarayana	18R11A04D4	III_Csec
15	K.V.N.Sai Kiran	18R11A04B7	III_Csec
16	Sri Laasya	18R11A0429	II_Csec
17	Hima Viveka	17R11A0496	IV_Bsec
18	Sai Ganesh	18R11A04D3	III_Csec

Workshop Coordinator

(G.Sree Lakshmi)

Co-ordinator of COE VLSI Design

(Prof. OVPR. Siva Kumar)


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 Cheeryal (M), Keesara (M), Medchal Dist (T.S.)-501 301.

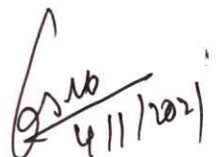
**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**CIRCULAR**


Date: 04-01-2021

All the students of III B.Tech (ECE) are here by informed that a guest lecture on “Architecture of IoT and its Applications” will be organized by group IV of Department of ECE on 7<sup>th</sup> January, 2021 from 11:00AM to 12:45PM. All the III year students are recommended to attend without fail.

Guest Lecture On : **“Architecture of IoT and its Applications”**  
Target Audience : III<sup>rd</sup> year ECE students  
Resource Person : Mrs.N.Divya, Senior IoT Engineer, Smart Bridge Technologies, Hyderabad.  
Date : 07-01-2021  
Time : 11:00 AM to 12:45 PM  
Venue : Online mode  
Organized by : G.Sreelakshmi, Associate Professor.

  
G.Sreelakshmi,  
Associate Professor

  
Prof. K.S.Rao,  
Dean SA and Group Head

  
Dr.S.Suryanarayana  
HOD, ECE

  
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**Geethanjali College of Engineering and Technology**  
**(Autonomous)**

Department of Electronics and Communication Engineering

Report on

Guest Lecture on

**“Architecture of IoT and it’s Applications”**

held on 7<sup>th</sup> January 2021

Department of Electronics and Communication Engineering under Circuits and Systems chapter IEEE Student Branch for 3<sup>rd</sup> year students organised a guest lecture on” Architecture of IoT and it’s Applications” through online mode.

**Faculty Co-ordinator:**

Mrs G.Sreelakshmi, Associate professor, IEEE-CAS-ECE

**Resource person:**

- Mrs N.Divya, Senior IoT Engineer ,Smart bridge Technologies, Hyderabad

**Objectives:**

- Understanding the importance of IoT and it’s architectures
- Knowing the need of industry in Embedded and IoT domain

**Need**

- Students were able to understand the important domains in their core field
- The use of Smart devices in daily life with examples were explained in a very detailed manner
- Similarly, the key aspects in the field of Embedded Systems and various sensors, with internet based is also explained very clearly with the help of video’s

  
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- Various IoT architectures, its software and its requirements to develop projects were explained in detail and how to get job in core area, skills required to get internship and job given suggestions

## Report

The session started at 11:00 AM by student coordinator Ms. G. Haasya by welcoming the participants. Mrs. G.SreeLakshmi, Associate Professor introduced guest speaker Ms.Nemuri Divya, Senior IoT engineer, Smart Bridge Educational Services Private limited, Hyderabad. Over 150 students participated in guest lecture from all sections of 3<sup>rd</sup> year and got benefited. The resource person clearly explained the use of IoT and future scope in this domain. Each and every application of IoT such as Health care, Agriculture etc., were explained in detailed way. Few live projects are discussed and one their company's ongoing project is also discussed. The session was very interactive. And many doubts of students regarding the sensors and automation were also discussed in detail. Connection between Machine learning and IoT is also discussed, which was very interesting

The screenshot shows a Zoom webinar interface. The main content is a presentation slide titled "APPLICATIONS IN DIFFERENT SECTORS" by Divya Nemuri. The slide features a central "Internet of Things" hub with various application sectors around it:

- HEALTH & LIFE STYLE:**
  - Wearable Devices
  - Health & Fitness Monitoring
- SMART CITIES:**
  - Smart Parking
  - Smart Waste
  - Emergency Response
- INDUSTRIES:**
  - Machine Learning
  - Robotics
  - Quality Monitoring
- LOGISTICS:**
  - Tracking
  - Supply Chain
  - Smart Navigation
  - Smart Warehouse
- HOME AUTOMATION:**
  - Smart Lighting
  - Smart Appliances
  - Smart Security Systems
- ENERGY:**
  - Smart Grids
  - Renewable energy systems
  - Programs
- ENVIRONMENT:**
  - Weather Monitoring
  - Smart Air Quality
  - Air Pollution
- AGRICULTURE:**
  - Smart Irrigation
  - Smart Harvest

Below the slide, there is a Zoom control bar with icons for chat, mute, video, and other functions. At the bottom, a list of participants is visible:

- Divya Nemuri
- 18R11A04E8 B T...
- 18R11A04M1 G...
- 18R11A04F1 CH...

On the right side of the screenshot, the Zoom meeting controls are visible, including a title "Webinar on Architecture of IoT an...", a participant count of 150, and a list of participants in the "IN CALL" section:

- Geethanjali Colle... (You)
- 18R11A04F5 BETHALA S...
- 18R11A04D1 AMADHAR...
- 18R11A0402 VALIVETI S...
- 18R11A0403 ASHIKA CH...
- 18R11A0404 BA3 REDD...

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REC D Divya Nemuri is presenting

### IOT TECHNOLOGY STACK

Webinar on Architecture of IoT an...

(143)

Add people

IN CALL

- G Geethanjali Colle... (You)
- B 17R11A0405 BETHALA S...
- A 18R11A0403 AMADHAP...
- A 18R11A0403 ASHIKA CH...
- B 18R11A0404 BASIREDD...
- B 18R11A0405 BHARATHA...

D G K G

### SOFTWARE

SMARTBRIDGE

**Feedback:**

How much do you rate the Session out of 5?  
61 responses



*[Signature]*  
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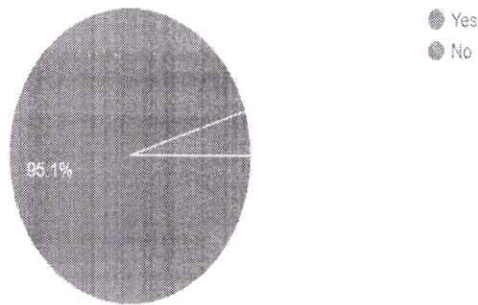
How much do you rate the Speaker out of 5?

61 responses



Did the webinar has reached your expectations?

61 responses



What was the best thing about the session?

61 responses

Clear explanation

To learn new things about webinar

About the applications of IoT

The speaker explained it very clearly and we got some basic knowledge about IoT

The details given by ma'am on IoT applications

Introduction

Knowing more about what the IOT is

Applications of IoT

IoT applications.

G.SreeLakshmi

Associate Professor

Prof.K.S.Rao

Group Head and Dean  
Student Affairs

Dr.S.Suryanarayana

Prof and HOD, ECE

PRINCIPAL

Geethanjali College of Engg. and Tech.  
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**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**CIRCULAR**

DATE: 19-12-2020

A Guest lecture on "**Circuit Theory and their Applications in Electronics and Communication Engineering**" will be organized by the Department of ECE under ISTE. All 2<sup>nd</sup> year students are recommended to attend this without fail.

**Guest Lecture On** : Circuit Theory and their Applications in Electronics and  
Communication Engineering

**Target Audience** : II B.Tech (ECE) students

**Resource Person** : Dr.V.Kumar Swamy  
Professor,  
Sreenidhi Institute of Science and Technology,  
Hyderabad

**Date** : 22-12-2020 (Tuesday)

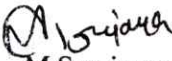
**Time** : 6:00PM to 8:00PM

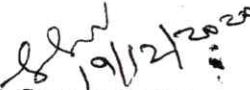
**Mode of Conduction** : online (Google meet)


**Link** : will be provided on 22-12-2020 at 10:00 AM


**Organized by** : coordinator, ISTE-ECE

Note: All the students should join the meeting using GCET official ids only.

  
M.Sowjanya  
Associate Professor  
ISTE- ECE Coordinator

  
Dr.S. Suryanarayana  
Professor and HoD, ECE

  
Prof.B. Hari Kumar  
Dean, SC&CE

  
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Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

# GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY

## DEPARTMENT OF ECE

Date: 22.12.2020

### REPORT on GUEST LECTURE titled

**“Circuit Theory and its Applications in Electronics and Communication Engineering”**

**Held on 22<sup>nd</sup> December, 2020**

The Department of ECE under **ISTE**, Geethanjali College of Engineering and Technology organized a guest lecture on **“Circuit Theory and its Applications in Electronics and Communication Engineering”**.

**Date of Lecture** : 22<sup>nd</sup> December, 2020.

**Venue:** : Online –Google meet(<https://meet.google.com/tac-ewyv-vim>)

**Faculty Coordinator** :Mrs. M.Sowjanya, Associate. Professor, ECE Dept.

**Resource person** :Dr.V.Kumara Swamy  
Professor,  
Sreenidhi Institute of Science and Technology,  
Hyderabad

**Participants** : II year ECE students ( All sections).

#### **Faculty:**

- 1) Dr.S.Suryanarayana
- 2) Prof.S.Bujanga Rao
- 3) Dr.P.Vijayi Bhasker
- 4) Prof.O.V.P.Shiva Kuamr
- 5) Dr.P.Sudhakar
- 6) Mrs.B.Sreelatha
- 7) Mrs. S.Yagna Sree
- 8) Mrs. M.Sowjanya

**Objective of this program:** To develop an understanding of the fundamental laws, elements of electric circuits, two-port networks and to analyze the behaviour of RLC circuits transient response.

**Need of Guest lecture:** The strong foundation in these topics will be helpful for the students, as the circuit analysis is a vital concept in many courses in their curriculum

#### **About the Resource person:**

Dr. V.Kumara Swamy is a associate Head of ECE department in Sreenidhi Institute of Science and Technology. He has 22 years of academia teaching and Industrial experience in India and Libya, North Africa and handled many funded research and consultancy projects. He has 24 international and national level paper publications and 5 international conference papers .He is reviewer for ICECE 2014 and ICITEC2014and also a scientific committee member for IJEC and IJIT



  
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## Lecture Summary:

A guest lecture was organized on "Circuit Theory and its Applications in Electronics and Communication Engineering" for the benefit of II year B.Tech (ECE) students on 22<sup>nd</sup> December 2020. The primary objective of the lecture was to make students understand the applications of linear circuit theory concepts in the more practical subjects such as electronic circuit analysis, pulse and digital circuits, filter analysis and design, feedback networks in oscillators, tuned circuits in amplifiers and so on.

Dr. V. Kumara Swamy, Associate professor, Sreenidhi Institute of Science and Technology has delivered an interesting talk covering both fundamental concepts as well as a large number of applications of circuit theory in electron circuits and communication engineering. The overall response of students was very encouraging.

The vote of thanks was given by Prof. S. Bujanga Rao. and Mrs. M. Sowjanya Associate Professor, ECE Department.



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**Department of ECE**  
**Under ISTE**

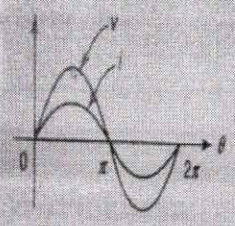
Hearty welcome to  
An expert lecture on  
**"Circuit Theory and its Applications in Electronics and Communication Engineering"**  
on  
22.12.2020  
by  
Dr. V. Kumar Swamy  
Professor  
Sreenidhi Institute of Science and Technology

  
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Cheeryal (V), Keesara (M), Medchal Dist. (T.S.)-501 301.

Dr. Kumara Swamy Varkuti is presenting

### 2.3 WAVE FORM & PHASOR DIAGRAM

#### Wave Form



#### Phasor Diagram




Fig. 4.43 Waveforms

Guest Lecture on 'CIRCUIT THEORY'

144 participants

Participants list:

- Geethanjali Cole
- HRITADJOS BEJANKI
- HRITADJOS AZE MAK
- HRITADJOS ARUNJAN
- HRITADJOS CHILLA KR
- HRITADJOS ELASAVAK
- HRITADJOS GANGAVAR
- HRITADJOS JALGAMP

Browser tabs: Gmail, guest lecture link - sowjanya.m...

Address bar: drive.google.com

Page title: Guest Lecture on 'CIRCUIT THEORY' By ... t. of ECF (2020-12-22 at 04:38 GMT-5)

Video player controls: 56:51 / 2:12:38

System tray: 3:19 PM, 28/11/2020

  
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Guest Lecture on "CIRCUIT T..."

drive.google.com

### Two Port Networks

**Notations used in transistor circuits:-**

- $h_{11} = h_i$  = Short circuit input impedance
- $h_{21} = h_f$  = Short circuit forward current Gain.
- $h_{12} = h_r$  = Open circuit reverse voltage transfer ratio
- $h_{22} = h_o$  = Open circuit output admittance

Dr. Munera Saeed Yarkut

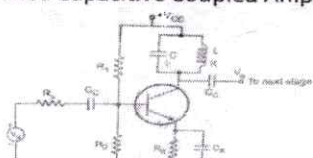
1:44:18 / 2:12:18

3:19 PM 25/12/2021

Guest Lecture on "CIRCUIT T..."

drive.google.com

### Single Tuned Capacitive Coupled Amplifier



- Single tuned multistage amplifier circuit uses one parallel tuned circuit as a load in each stage, tuned circuits in all the stages are tuned to the same frequency.
- The tuned circuit formed by L and C acts as collector load and resonates at frequency of operation.
- Resistors R1, R2 and RE along with capacitor Ce provides self bias for the circuit.

Dr. Munera Saeed Yarkut

2:08:56 / 2:12:18

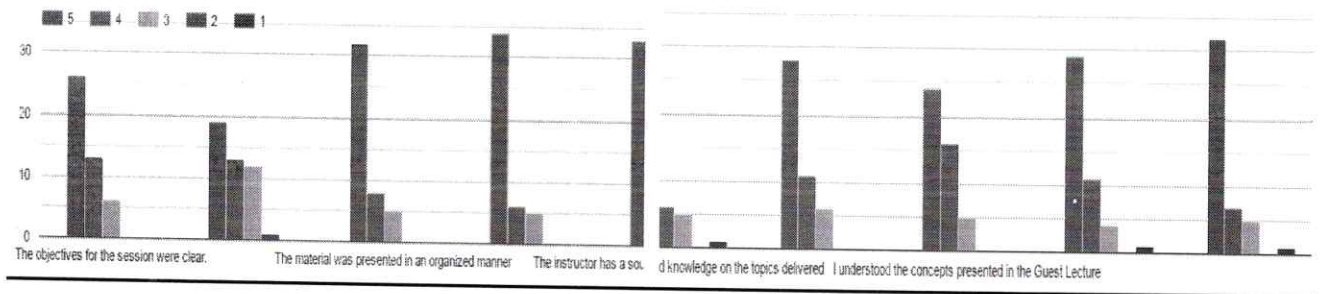
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As per the feedback received from the participants it was very good learning experience, the lecture helped them in understanding the concepts of circuit theory applications in ECE.

**The feedback was received from the 43 participants and it is as follows.**



Name of the participant	[The objectives for the session were clear.]	[The program was well placed within the allotted time]	[The material was presented in an organized manner]	[The instructor has good communication skills]	[The instructor has a sound knowledge on the topics delivered]	[The Guest Lecture improved my understanding of the topics]	[I understood the concepts presented in the Guest Lecture]	[The knowledge and skills I learned will be useful to me in my professional career]	[I would attend other Guest lectures offered by this facilitator in future]
S Ajay Kumar	5	5	5	5	5	5	5	5	5
A.karthikeya	4	3	4	5	4	4	4	5	5
K. Pavan Sai Teja	5	5	5	5	5	5	5	5	5
V.Shravani Reddy	5	4	5	5	5	5	4	5	5
Akshitha cheerla	5	4	5	5	5	5	5	5	5
Sangani Siddhartha	4	3	4	4	4	4	4	4	4
Bhavya sai	3	3	3	3	3	3	3	3	3
Lahari	3	3	3	3	3	3	3	3	3
Abhishek	4	3	5	5	5	5	5	4	5
S.deeraj yadav	5	5	5	5	5	5	5	5	5
4AO Harshini	4	4	5	4	4	4	5	5	5
kalyan	4	4	4	4	4	4	4	4	4
Reddypally vani	5	5	5	5	5	5	5	5	5

  
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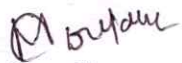
Vinay kumar	5	4	5	5	5	5	5	5	5
NANDIRAJU VISHNU	4	5	4	4	4	5	4	4	4
A.R.A.Prathyusha	4	4	5	5	5	5	5	5	5
A sai keerthana	3	3	3	3	3	3	3	3	3
20R15A0413 PR.Chaitanya	5	5	4	5	5	5	5	5	3
Samhitha	5	5	5	5	5	5	5	5	5
G. Sridhya	5	4	5	5	5	4	4	4	5
Viswanath sriram	5	5	5	5	5	5	5	5	5
Tanniru.sravani	4	3	5	5	5	3	4	4	5
Sandhyayenimired dy	5	4	4	5	5	5	5	5	5
Beeram Ankitha Manisri	5	5	5	5	5	5	5	5	5
Supreeth Avula	5	5	5	5	5	5	5	5	5
G.shirisha	3	4	4	3	3	3	3	4	4
Tejovani	4	4	5	4	5	4	5	4	5
V. Sumanth Kumar Reddy	5	5	5	5	5	5	5	5	5
C.Srivathsa	5	4	5	5	5	5	4	4	4
R.vaishnavi	5	3	5	5	5	5	5	3	5
NOORBASHA SALMAN VALI	5	5	5	5	5	5	5	5	5
Harsha kvk	3	3	3	3	3	3	3	5	3
Arutla sreevani	5	2	3	4	4	5	5	5	5
BAKI REDDYGARI MADHAVI	5	5	5	5	5	5	5	5	5
HEMANT KATTA	5	5	5	5	5	5	4	5	5
K v n sai krishna nikhil	5	5	5	5	5	5	5	5	5
KANAKARI AKASH	5	5	5	5	5	5	5	5	5
19R11A04J8 T. Rajeah	3	3	5	5	5	4	4	5	5
T.Vasavi sri lakshmi	4	4	5	5	5	4	4	4	4
REDDY RAJULA UDAY KIRAN	4	3	5	5	5	5	4	5	5
M.Harsha Vardhan	5	5	5	5	5	5	4	5	5
Harsha	4	4	5	5	5	4	4	5	4
Nanda Kishore	4	3	4	5	5	4	4	4	5

  
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BAKI REDDYGARI MADHAVI	5	5	5	5	5	5	5	5	5	5
HEMANT KATTA	5	5	5	5	5	5	5	4	5	5
K v n sai krishna nikhil	5	5	5	5	5	5	5	5	5	5
KANAKARI AKASH	5	5	5	5	5	5	5	5	5	5
19R11A04J8 T. Rajeah	3	3	5	5	5	4	4	4	5	5
T.Vasavi sri lakshmi	4	4	5	5	5	4	4	4	4	4
REDDY RAJULA UDAY KIRAN	4	3	5	5	5	5	4	4	5	5
M.Harsha Vardhan	5	5	5	5	5	5	4	4	5	5
Harsha	4	4	5	5	5	4	4	4	5	4
Nanda Kishore	4	3	4	5	5	4	4	4	4	5

**Outcome :**

Students acquired enough practical knowledge on linear circuit theory concepts and its applications.

  
Coordinator

Ms.M.Sowjanya

  
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HoD-ECE

Dr.S.Suryanarayana

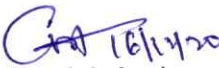
**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**CIRCULAR**

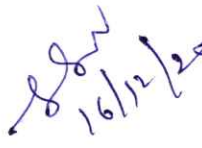
Date: 16-12-2020

All the students of III & IV B.Tech (ECE) are here by informed that a guest lecture on "ASIC Verification-Role of System Verilog and UVM" will be organized by IEEE-CAS Student Chapter-GCET, Department of ECE on 18<sup>th</sup> Dec, 2020 from 6:00PM to 8:00PM. All the III & IV year students are recommended to attend guest lecture.

Guest Lecture On : "ASIC Verification-Role of System Verilog and UVM"  
Target Audience : III<sup>rd</sup> year & IV year ECE students  
Resource Person : Mr. Damodara Sambashiva, Business Head, Entuple Technologies Private Limited, Bangalore.  
Date : 18-12-2020  
Time : 6:00PM to 8:00PM  
Mode : Online mode  
Organized by : G.Sreelakshmi, Associate Professor.

  
G.Sreelakshmi  
Associate Professor

  
Prof. O.V.P.R.Sivakumar  
Group Head

  
Dr.S.Suryanarayana  
HOD, ECE

  
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Cheeryal (V), Keesara (TA), Medchal Dist.(T.S.)-501 301.



**Report**  
**of**  
**"ASIC Verification-Role of System Verilog and UVM "**

Organized by IEEE CAS Student Branch Chapter-GCET

**Dates: 18th Dec 2020. From 6:00 PM to 8:00 PM**

- No. of Student Participants: 69
- Total No. of IEEE Student Member Participants: 25
- Registration Fee: Nil

IEEE CAS Student chapter-GCET SB organized a 'Guest Lecture on **ASIC Verification-Role of System Verilog and UVM**' on 18<sup>th</sup> December 2020. Mr Damodara M S is invited as the chief guest/resource person for the Guest Lecture on ASIC Verification.

**About Speaker:**

Damodara is Business Head at Entuple Technologies based out of Bangalore, India. He is primarily responsible for application engineering and consultation for customers across India from Defense, aerospace and Corporate sectors. Before joining Entuple Technologies, he was with IEEE as Product Manager. At IEEE he was contributing as an industry liaison to the semiconductor industry. He was actively involved in IEEE Standards Association activities supporting SystemVerilog and UVM workgroups. He also supported a new learning initiative from IEEE - IEEE Blended Learning Program. Received appreciation award from IEEE president for his contribution to the proliferation of standards and learning activity.

  
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IEEE Circuits and Systems Society Student Branch Chapter

Geethanjali College of Engineering and Technology

Under "2020 IEEE CAS Society Outreach for Student Branch Chapters"

Presents

WEBINAR ON

Topic

ASIC Verification - Role of  
System Verilog and UVM

18 December 2020

06:00 PM to 08:00 PM



Speaker

**Mr. Damodara M S**

Business Head,  
Entupie Technologies,  
Bangalore

Registration link:

<https://bit.ly/ieeecasgcetweb>

@/ieee\_gcetsb

f /IEEE-GCETSB

### About the Lecture:

Mr Damodara started with an Introduction on ASIC(Application Specific Integrated Circuit) verification and gave a brief explanation of the RTL design process. He then told about Verification in the ASIC Flow chart and explained how to build Testbench and has also shown and explained some Testbench code and the continued with steps/process of Verification in Detail. He then explained about regression and coverage of code and then gave a brief about SystemVerilog and UVM.

**PRINCIPAL**  
Geethanjali College of Engg. and Tech.  
Cheeryal (V), Keerasa (M), Medchal Dist.(T.S.)-501 301

**EXCEL VLSI** **Digital Design Process** **ENTUPLE TECHNOLOGIES**

Required Product	⇒	End product application, Interfaces required, environment to be operated in.
Architectural Specification	⇒	High Level architecture – design components required, protocols, specification to the designers and verification engineers, performance goals, tools to be used
Micro Design	⇒	Design partitions, blocks, intermediate block interactions (block/chip level), Design guidelines, timing, gate count, power considerations

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**Event Coordinators:**

1. G. Nitish  
Chair, IEEE SB GCET
2. Chinakota Sai Yeshwanth Reddy  
Chair, IEEE CAS SBC GCET

**Report prepared and drafted by:**

Chinakota Sai Yeshwanth Reddy  
Chair, IEEE CAS SBC GCET

*[Handwritten Signature]*  
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 Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

meet.google.com/mfocfp-fg-jz/nahusars186lsm

Sai Yeshwanth Reddy Chinakota is presenting

IEEE Circuits and Systems Society Student Branch Chapter  
Geethanjali College of Engineering and Technology  
Under "2020 IEEE CAS Society Outreach for Student Branch Chapters"

WEBINAR ON

Topic  
ASIC Verification - Role of System Verilog and UVM

14 December 2020  
11:00 AM - 12:00 PM

Registration link  
<https://bit.ly/ieecascgctweb>

Mr. Damodara M S  
Business Head  
ENTUPLE Technologies

Webinar on ASIC Verification - Role...

People (60)

- E17R-4N8 Keerthana
- E17R-4N9 Eswarsai
- Events Connect
- GANJISHALINI 19RISA...
- Haasya Godavathy
- Hari Kumar Budhavarapu
- Jagadeeshwari Yanamala
- KANCHARLAN SHREVA...
- KOTA VISHWESH 18R1...
- LD 419 Mohammed Adhil
- M.LAXMI GCET

Turn on captions

Sai Yeshwanth Reddy Chinako... is presenting

meet.google.com/nfvc-fg-jz/nahusars186lsm

Sai Yeshwanth Reddy Chinakota is presenting

EXCEL VLSI

ENTUPLE Technologies

RTL DESIGN PROCESS

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Webinar on ASIC Verification - Ro...

People (63)

Add people

IN CALL

- Nitish Gummedav... (You)
- 411Mr. ARMULLA NIKHIL
- 459 Vineetha
- 477-3B Spandana
- 492 SANGOJU SRIRAM...
- 497-C PRATHYUSHA
- 4A1 Praveen bhukya
- 4A8 Ajay
- 4B9 K.Manochar

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Sai Yeshwanth Reddy Chinako... is presenting

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# Dr. Kala Venkata Uday

Assistant Professor, IIT Mandi



### ABOUT SPEAKER

He was awarded Ph.D from IIT Bombay in 2013. He has 18 international publications and conference papers and received early career research award from SERB-DST.

## Webinar on "Multi disciplinary approach for problems related to Geotechnical Engineering"

on  
15<sup>th</sup> September 2020,  
Time: 1.30PM-3.30PM

### Patrons



G. R. Ravinder Reddy,  
Chairman



Dr. S. Udaya Kumar,  
Principal



Dr. R. Prasanna Kumar,  
HoD



9492213263, 9441113196



## GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY

UGC Autonomous, permanently affiliated to JNTUH, Approved by AICTE, Accredited by NAAC  
Cheeryal (V), Keesara (M), Medchal Dist. 501301

### About Geethanjali

Education is, without doubt, the single largest factor that shapes the destiny of a nation. It is the bringing together of the head, the heart and the mind, thereby developing an all-round personality.

Geethanjali College of Engineering and Technology is equipped and geared to take on the responsibility of providing the student community with technical education on par with the latest advances in the field in a committed academic ambience and as we understand that acquiring a competency is not a onetime event, but rather an ongoing process, the focus is on developing competencies in students for the future. What goes into making a great institution, Geethanjali has it all.

### About Department

The Department of Civil Engineering started functioning from the year 2014 with a B. Tech program of 120 students. The department is presently headed by Dr. R. Prasanna Kumar, Who has more than 25 years of teaching experience, 10 years of research experience.

The department has well qualified, experienced and committed faculty for teaching, research and consultancy works. Four of the faculty members are PhD degree holders in their fields of specialization from prestigious institutions and six faculty members are pursuing PhD in different areas of specializations in civil engineering.

### About Webinar

This program enables students and faculty of civil engineering to understand the various approaches in finding solutions for problems related to Geotechnical Engineering and enhances their ability to disseminate the knowledge through projects and research.

### Registration and other details

Registration Link: <https://forms.gle/RoQtST1rSf5BPmuK9>

Last date for Registration: 14th September 2020

Registration Fee: Nil

Certification: E-Certificate will issued for all external participants.

Platform: Google meet

Target Audience: Students and Faculty of Civil Engineering

### Co-ordinators

D. Ramachander, Assistant Professor, CED  
G. Raju, Assistant Professor, CED

Organized by

**Department of Civil Engineering**  
[Civil Engineering Technical Association]

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Cheeryal (V), Keesara (M), R.R. Dist. M

11-09-2020

To,

The principal,  
Geethanjali College of Engineering and Technology,  
Cheeryal(V), Keesara (M).

Sub; Permission for organizing a one day Webinar on "Multi-disciplinary approach for problems related to Geotechnical Engineering" on 15<sup>th</sup> September-2020 - Reg.

Respected sir,

The Department of Civil Engineering is planning to conduct a one day Webinar on "Multi-disciplinary approach for problems related to Geotechnical Engineering" by Dr. K. V. Uday, Assistant Professor, IIT-Mandi

As we are planning to keep this webinar open for faculty of other colleges nationwide and for Civil Engineering students of IV year, kindly permit us to conduct this Webinar on 15<sup>th</sup> September-2020 from 1.30pm to 3.30pm.

Thanking you,

Regards

  
D. Ramachander, Asst. Prof., CED

  
G. Raju, Asst. Prof., CED

Submitted to the Principal for approval

  
21/09/20

  
9/14/09/20

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# Geethanjali College of Engineering and Technology

One Day Webinar

on

"Post Tensioned Slabs"

Organized by

Department of Civil Engineering

[Civil Engineering Technical Association]

Date: 24.12.2020 & Time: 1.30PM-3.00PM

**Er. Lokeswar Reddy,**

Deputy General Manager, Uitracon Structural Solutions Pvt Ltd.

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Cheeryal (V), Keesara (M), Medchal Dist. – 501301

No. GCET/090/2020-21

24.12.2020

**OFFICE OF THE PRINCIPAL**

**CIRCULAR**

One day Webinar for Civil department III & IV year Students is scheduled as per the following details.

Date : 24.12.2020 (Thursday)

Time : 1.30 pm to 3.00 pm

Venue : Online

Topic : “ Post Tensioned Slab “

Resource Person : Mr. Lokeshwara Reddy, Deputy General Manager,  
Ultracon Structural Systems Pvt. Ltd.

Coordinator : Mr. D.Ramchander – Assistant Professor – CE Dept.  
Mr. D.Varun Kumar – Assistant Professor – CE Dept.

To: Deans / HODs  
AO/Website Coordinator

  
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**GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY**

**DEPARTMENT OF CIVIL ENGINEERING**

**Report on Expert Lecture Conducted on 17/03/2021 FN**

By

**Mr.Y.Sai Charan**

20

DATE: 17/03/2021

Department of Civil Engineering conducted a expert lecture on "Applications of Software's in Civil Engineering - ETABS" dated 17/03/2021 for B.Tech (CIVIL-III year Students) as per the approval of HoD.

Mr. D.Ramachander, Assistant Professor has introduced the invited speaker Mr.Y.Sai Charan to the participants by citing his profile and he was presented a flower bouquet.

Mr.Y.Sai Charan addressed the gathering on the following concepts.

- i. Introduction to Design Softwares.
- ii. Codal Provisions to be taken for Design softwares.
- iii. RCC & Steel design elements.
- iv. How to Model a structure using ETABS.
- v. Reading the output file through ETABS.

He also addressed the students about the application of Design Software's in Civil engineering profession.

**The lecture strengthen the following POs & PSOs of the department:**

**PO 1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO 2: Problem analysis:** Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO 3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO 5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

**PO 8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO 10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and

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write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO 12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**PROGRAM SPECIFIC OUTCOMES (PSOs):**

**PSO 1:** Apply knowledge in core areas of Civil Engineering such as Structural, Geotechnical, Water Resources, Transportation and Environmental Engineering to Civil Engineering practice.

**PSO 2:** Utilize Civil Engineering principles that are appropriate to produce detailed drawings, design reports, quantity and cost estimates, specifications, contracts and other documents appropriate for the design, construction, operations and maintenance of Civil Engineering projects.

**PSO 3:** Shall interact and collaborate with stakeholders; execute quality construction works applying Civil Engineering tools namely, Total Station, Global Positioning System (GPS), ArcGIS, AutoCAD, STAAD and other necessary tools.

**Expert Lecture Coordinators**

G.Raju, Asst.Prof, CED

D.Ramachander, Asst.Prof, CED

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**HOD/CE**

Expert Lecture Photos



  
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Expert Lecture Photos



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**GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY**

**DEPARTMENT OF CIVIL ENGINEERING**

**Report on Expert Lecture Conducted on 17/03/2021 AN**

**By**

**Mr.B.Santhosh**

DATE: 17/03/2021

Department of Civil Engineering conducted a expert lecture on "Applications of Software's in Civil Engineering - REVIT" dated 17/03/2021 for B.Tech (CIVIL III year Students) as per the approval of HoD.

Mr. D.Ramachander, Assistant Professor has introduced the invited speaker **Mr.B.Santhosh, General Manager, CANTER CADD, ECIL, Hyderabad**, to the participants by citing his profile and he was presented a flower bouquet.

**Mr.B.Santhosh** addressed the gathering on the following concepts.

- i. Introduction to REVIT Software.
- ii. How to Model a building using Revit.
- iii. Insertion of interiors in the plans.
- iv. Elevation designs.

He also addressed the students about the application of Design Software's in Civil engineering profession.

**The lecture strengthen the following POs & PSOs of the department:**

**PO 1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO 2: Problem analysis:** Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO 3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO 5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

**PO 8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO 10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.



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**PO 12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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**PSO 1:** Apply knowledge in core areas of Civil Engineering such as Structural, Geotechnical, Water Resources, Transportation and Environmental Engineering to Civil Engineering practice.

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**Expert Lecture Coordinators**

G.Raju, Asst.Prof, CED

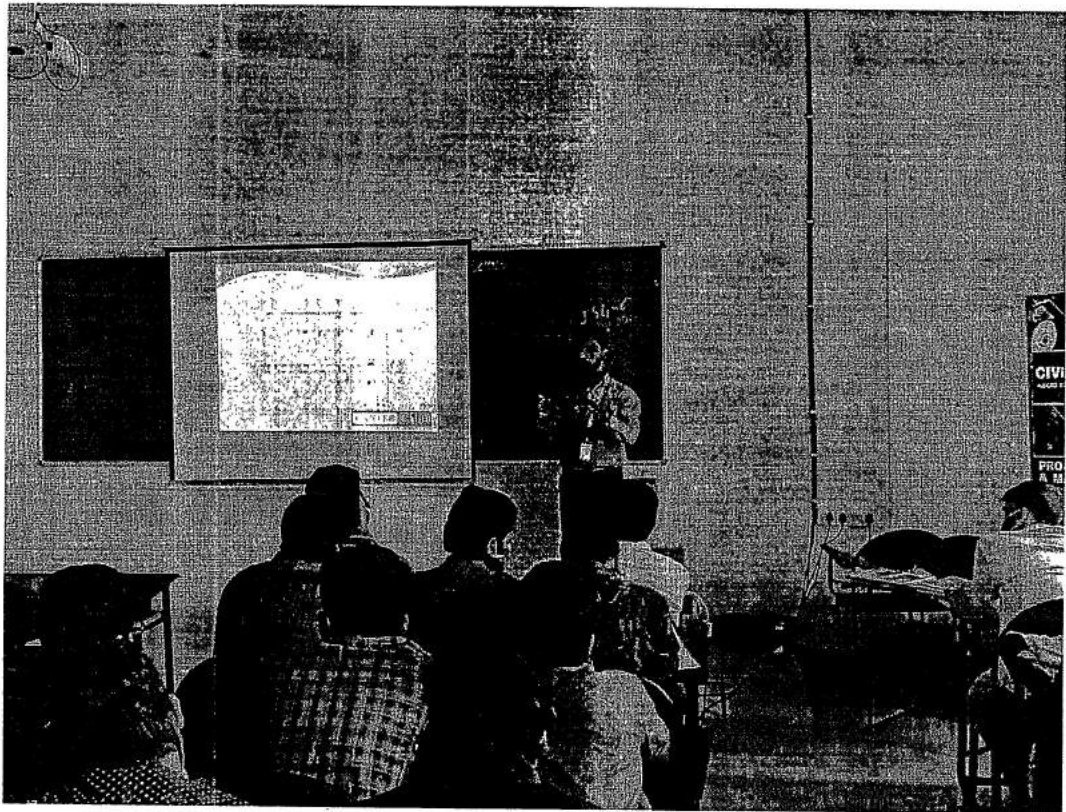
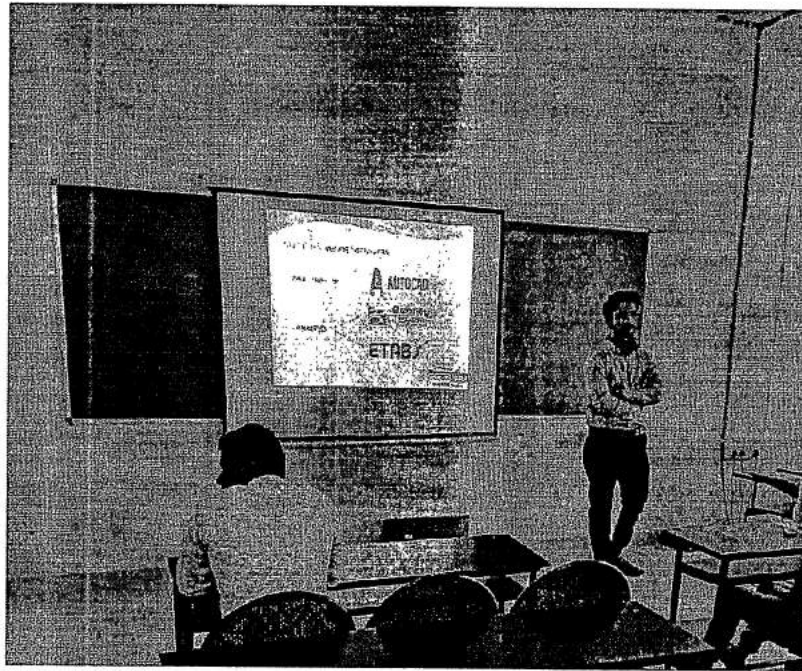
D.Ramachander, Asst.Prof, CED

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# Expert Lecture Photos



*[Signature]*  
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Department of Civil Engineering

Expert lecture

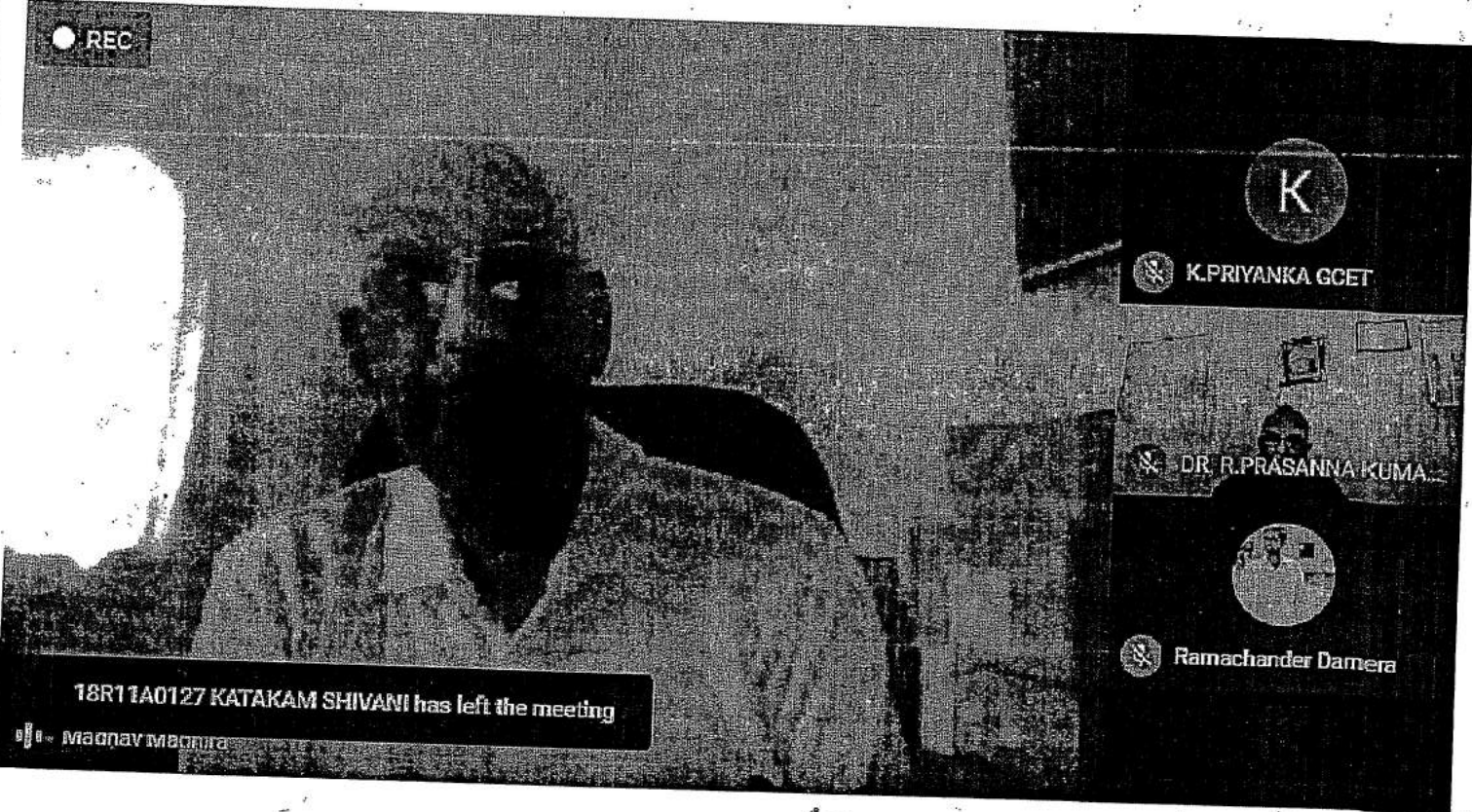
## on "Geotechnical Challenges-Case Histories"

Date: 24.03.2021 & Time: 2.30PM-4.00PM



**Prof. M.R. Madhav,**  
IIT Kanpur.

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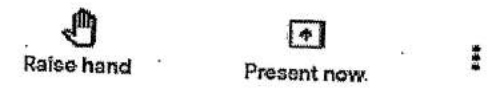
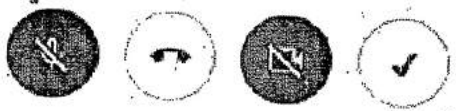


Guest Lecture Organized by CE ...

- (95)
- 18R11A01B5 VELLOR JAL...
- 18R11A01B6 VUSIKE PAL...
- 18R11A01B7 YARANAGU...
- 18R15A0102 KUNDARAP...
- 18R15A0104 MANGALA...
- 18R15A0113 BATHULA S...

18R11A0127 KATAKAM SHIVANI has left the meeting

Guest Lecture Organized by CE Dept



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REC M Madhav Madhira is presenting

- ### Topics
- Slope Protection in Lower Himalayas
  - Gabions for Coastal Protection
  - High Reinforced Soil Walls
  - Reinf. Found. Bed on Soft Ground
  - Gabion Faced Wall and Slope
  - OB Dump Reclamation – Sustainable Solution
  - Kaleshwaram & Polavaram Projects

DR. R.PRASANNA KUMA...

Madhav Madhira

Ramachander Damera

Guest Lecture Organized by CE ...

- | (10/6) |                             |  |
|--------|-----------------------------|--|
| K      | KASTURI DIVYA GCET          |  |
| K      | Kogileru Raghavendhar ...   |  |
| M      | Madhav Madhira              |  |
| M      | Madhav Madhira Presentation |  |
| N      | Navaneetha GCET             |  |
|        | Praneeth                    |  |
| P      | PURUMANI SUPRIYA GC...      |  |

Guest Lecture Organized by CE Dept

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Raise hand
 Madhav Madhira is presenting

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## REPORT ON

# “Geotechnical Challenges-Case Histories”

Seminar on 24 March 2021

Geethanjali College of Engineering and Technology, Civil Engineering Department, organized a seminar for inaugurating “Indian Geotechnical Society - Student Chapter” by an expert lecture on Geotechnical Challenges - Case Histories. The seminar started at 2.30pm with an introductory speech by **Dr. R.Prasanna Kumar (Prof, Head of Department)** followed by a welcome speech by **Mrs.K.Priyanka (Asst.Prof)**. The session was taken over by **Prof.M.R.Madhav, IIT Kanpur.**

Topics covered are :-

- 1) Gabions for coastal protection
- 2) Slope protection in lower Himalayas
- 3) Highly reinforced soil walls
- 4) Reinforced foundation bed on soft ground
- 5) Gabion faced wall and slope
- 6) Overburden dump reclamation-sustainable development
- 7) Development in Kaleshwaram and Polavaram projects

1. Slope protection in Lower himalayas

->Slope failure at a industrial site in Sikkim along the banks of Rishi Ganga river

->Height of slope at the sites=75m

Reason for failure:

A drain coming out of the industry was leaking water and destabilizing the rock beds generally lower himalayas consisting of sedimentary and metamorphic formations unlike igneous they are not very hard strats and are susceptible to water. The drain coming out of the factory was the reason for slope failure.  
Solution to stop this slope failure:  
Reinforced earth walls

2. Gabions for coastal protection:

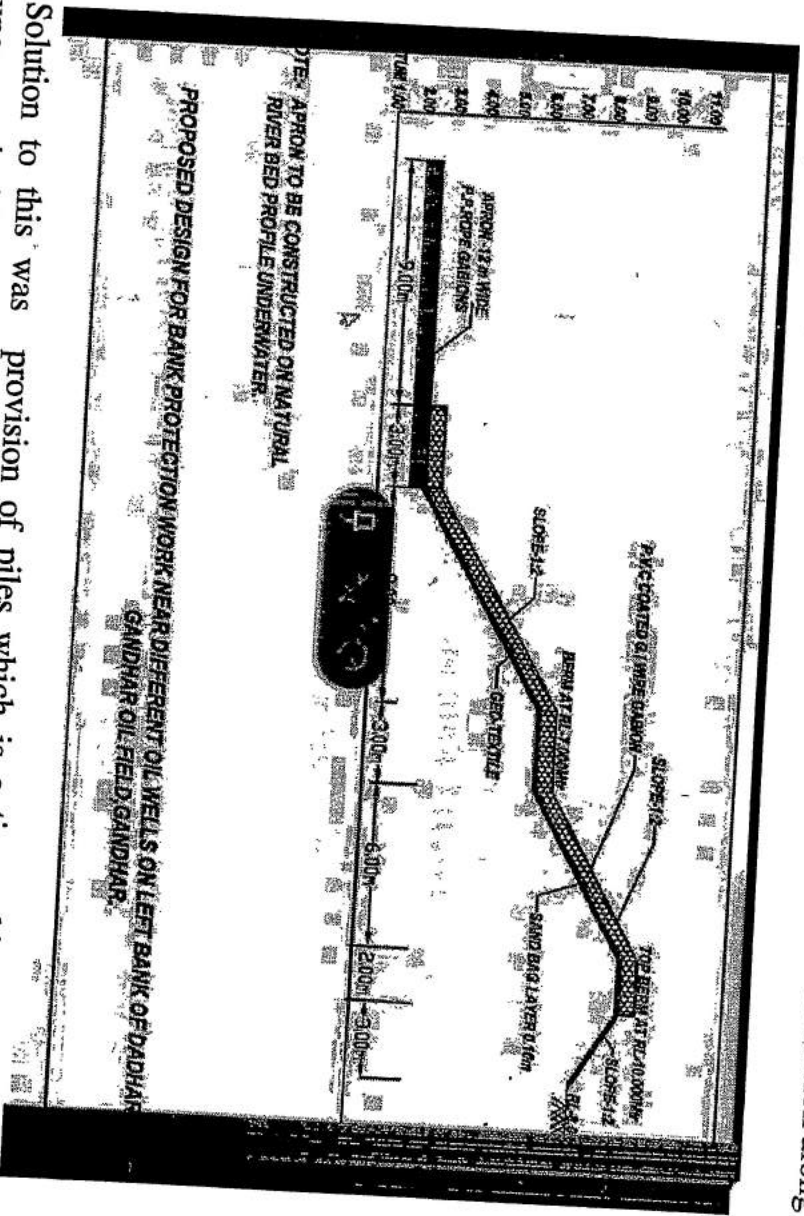
Case study about Coastal bank protection at Gandhar oil fields, Gujarat

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->Soil erosion is a major problem at the sites of coastal areas and these fields are a major source of oil.

->Sea bank was rising up to 10-15m per year along the coast due to erosion along the coast



Solution to this was provision of piles which is a time taking process and uneconomical. Temporary solutions like piles and sheet piles were provided to stop erosion but none on them have succeeded in stopping erosion

Solution:

Permanent solution were proposed as follows:  
To provide P.V.C coated G.I wire mesh Gabions with sand bags

12m wide apron as shown in figure above  
This method is proposed to introduce the factor of accretion.

3. Widening of ghat road at SDMS Temple with 24m width and 42m highly reinforced walls :

->Widening of road is done by constructing high reinforced soil walls.  
->The widening of roads at lower levels is done by constructing two tier walls, each wall extending upto a height of 10m.

->Construction of ghat roads at higher levels are done by four tier construction methods extending upto a height of 40m.

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->Construction process adapted for this is as follows :-

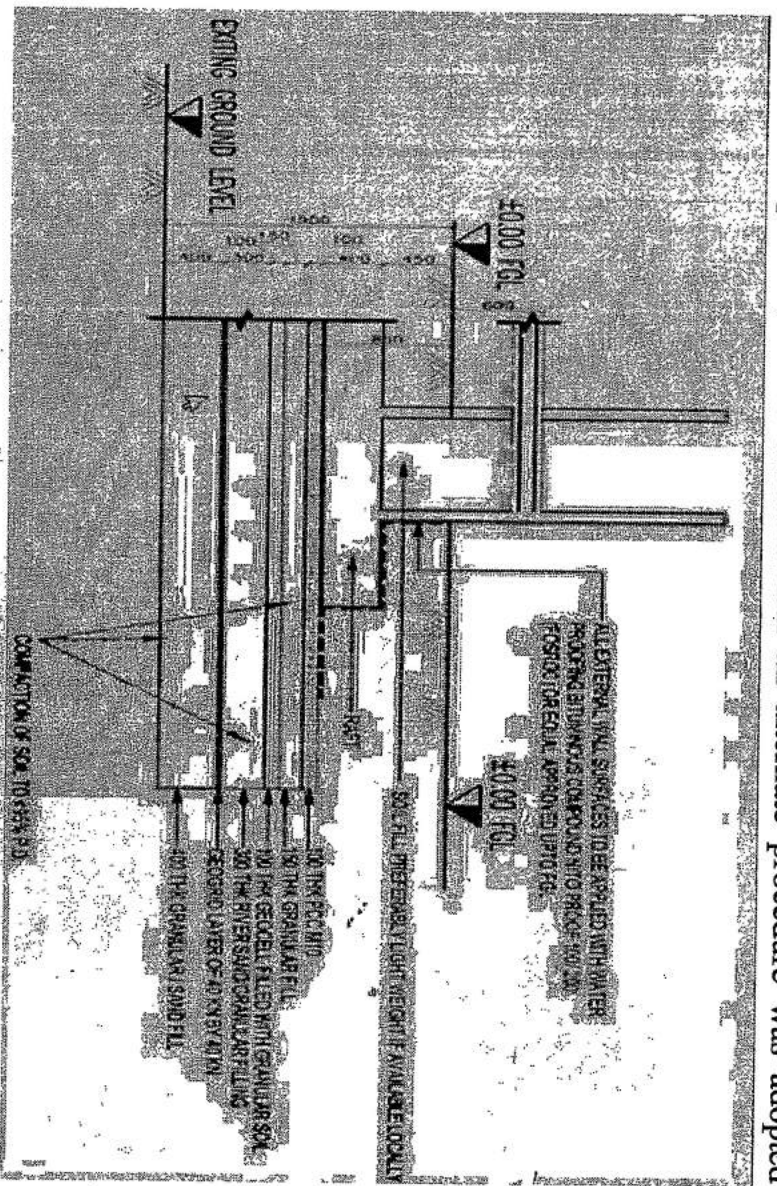
- \*Removal of loose pockets
- \*Excavation
- \*Horizontal Drainage Blanket
- \*Geocomposite Reinforcement
- \*Placing of fill soil over it
- \*Field Density checks
- \*Placing of steel strip Reinforcement
- \*Steel strip reinforcement at interface
- \*Unloading the construction material

4.Reinforced Foundation bed on Soft ground :

->The Rudravaram site dewatering took place on 10th and 11th June, 2018.

->The construction of piles should be done according to IS :2911-1984 specifications.

->Since the procedure was uneconomical an alternate procedure was adopted



5. Development of New Airport at Pakyong, Sikkim, India.

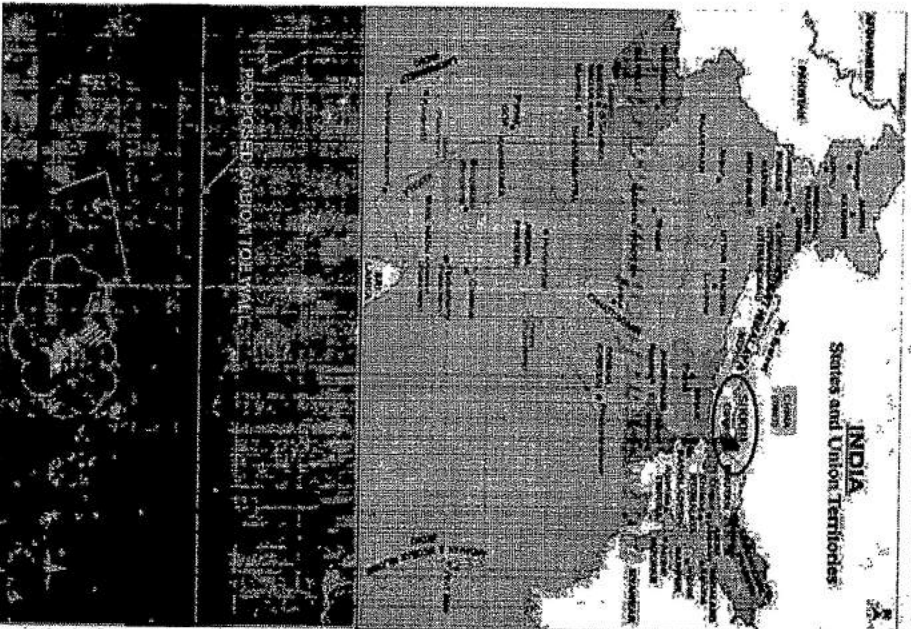
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- >A runway was planned along the N-S direction and the hill is having a natural slope from uphill cutting portion(west) to downhill cutting portion(east).
- >The main challenging task here was, the volume of the cut portion should be equal to the volume of the filling portion.
- >Since a plane surface is required for this purpose, cutting of the uphill portion was supposed to be done and the same material was filled at the downhill portion.
- >Jhoras - Natural streams where water from the hill flows down.
- >Proper drainage system has to be provided along with the conveying structures of the existing jhoras.

Solution proposed was :

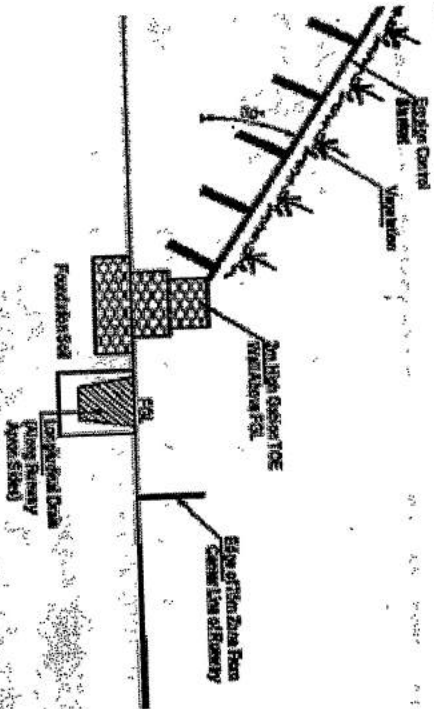
- >Gabion toe walls at bottom of cutting along west side.
- >Slope protection along the cutting side using erosion control blanket.
- >Vegetation growth on facia and intermediate berms.



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## Scheme diagram for uphill cutting slope protection works



## 6. Overburden dump reclamation-sustainable development



->India comprises many open cast coal mines which produce large quantities of waste through mining activities every year.

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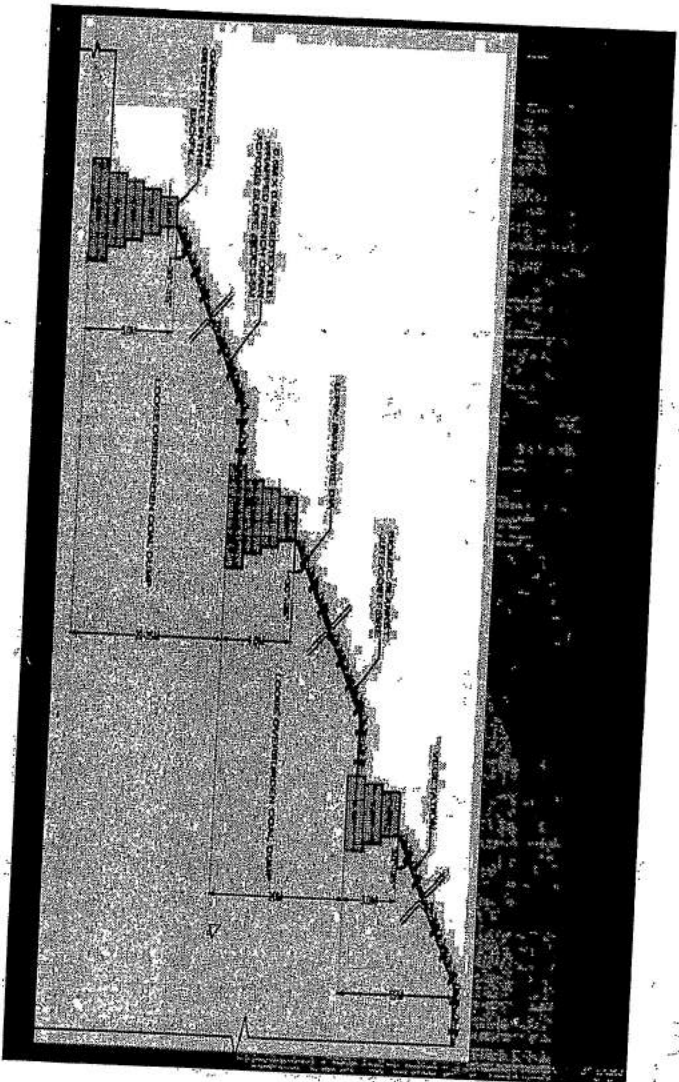
->Continuous deposition of waste materials resulted in the creation of large unstable dumps. The dumps lead to excessive space consumption and cause environment hazards of great concern to mining operators: these dumps are high, steep and unstable.

->During monsoon,the unstable slope along the way to mines subsides causing poor access to mines thus affecting mining activities.

**Solution:**

->The restoration of the overburden dumps have been carried out by providing Gabion walls, placed at the toe of overburden dumps. These Gabion toe walls help against local slip and erosion ranging from 30-100m. The protection of the slope surface (biodegradable fibers coir etc).

->The excellent drainage by Gabions and subsequent growth of vegetation on slopes has guaranteed stable and eco friendly structure with a pleasing look.



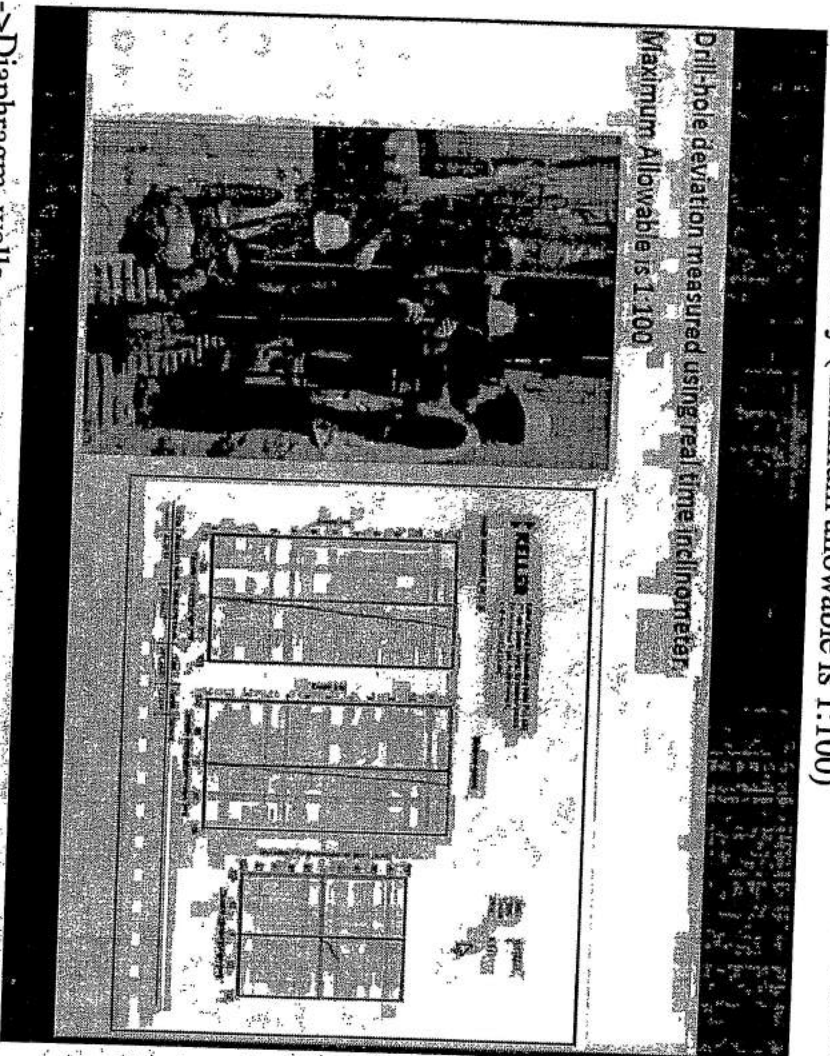
7. Development in Kaleshwaram and Polavaram Projects:-

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->In Polavaram dam jet grouting application is chosen as a cut-off wall to reduce the seepage

->Check for verticality (maximum allowable is 1:100)



->Diaphragm walls are constructed at sites as groundwater barriers to stop the seepage of water, maximum depth of diaphragm constructed at this site is 113m.

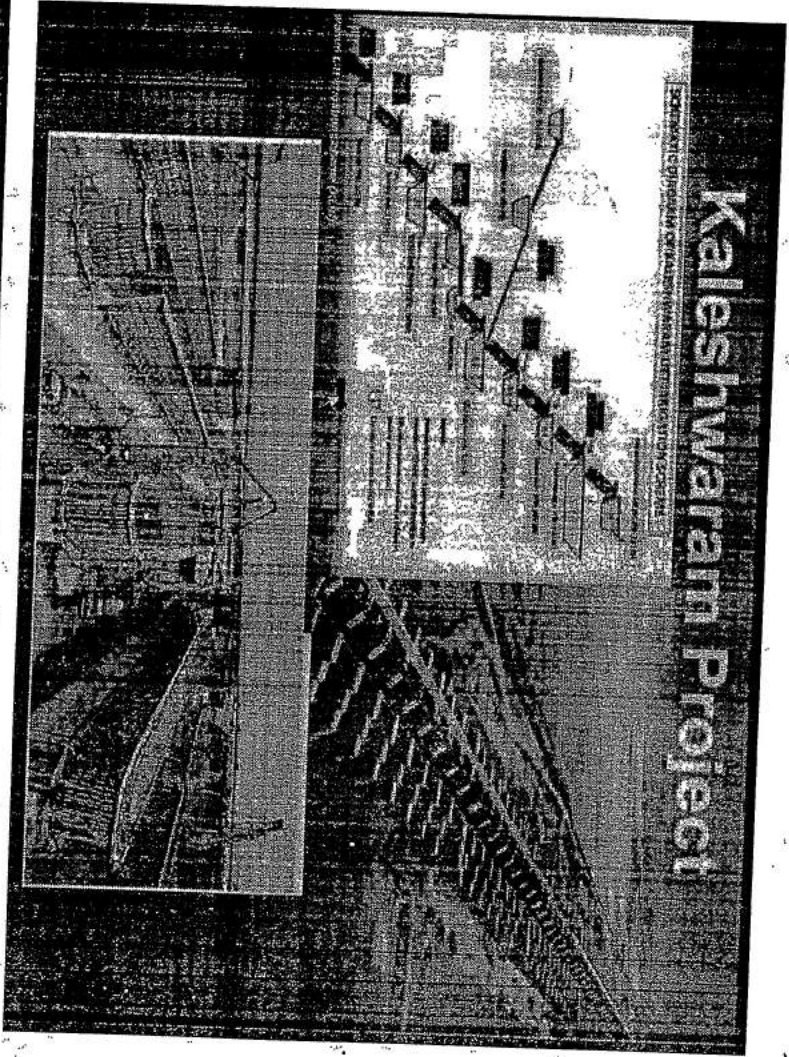
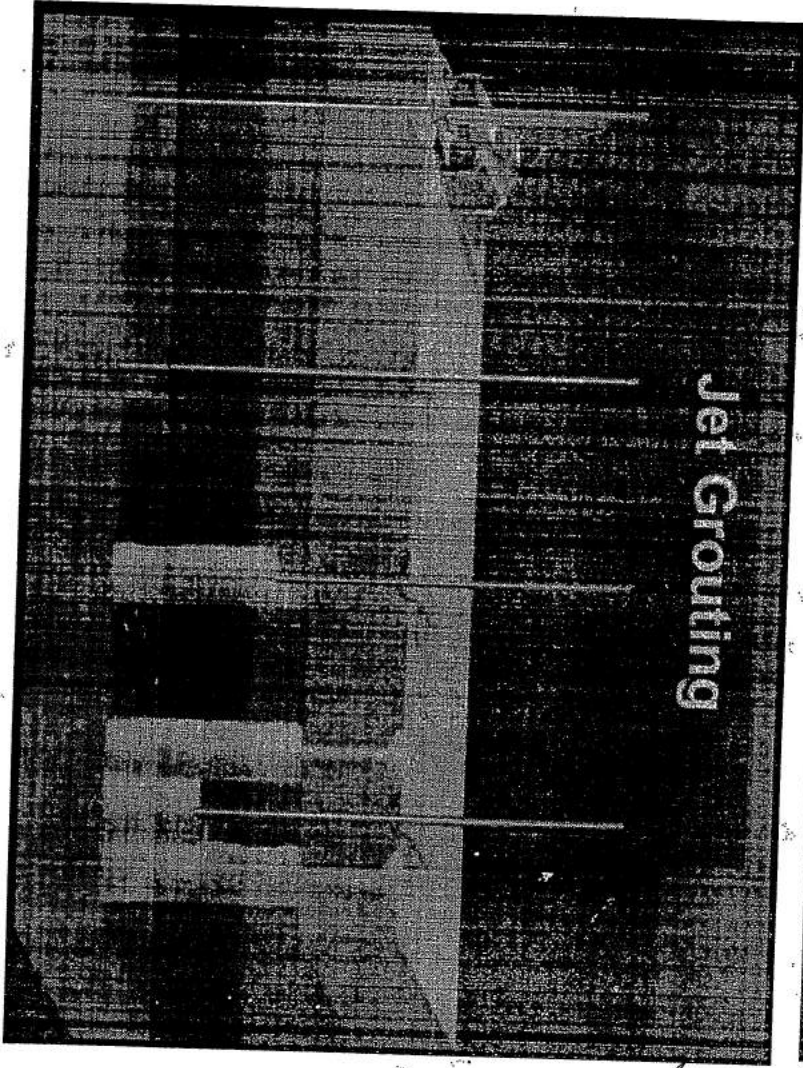
->Polavaram project is one of the first projects to be visited by Karl terzaghi and he suggested the boring techniques for soil testing.

->Before that boring techniques were never used in India for soil testing.

->Kaleshwaram is a lift irrigation project built to lift from downstream and is lifted to the upstream side.

->Jet grouting uses high velocity fluid jets to construct cemented soil of varying geometries in the ground.

->Jet grouting creates in situ columns of soilcrete (grouted soil), using a grouting monitor attached to the end of a drill stem.



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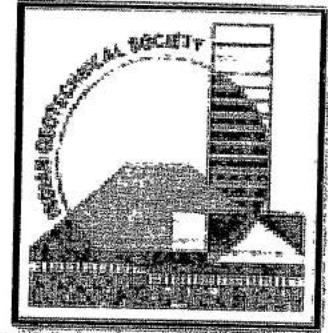
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Organized by  
Department of Civil Engineering

Expert lecture  
on

"Ground Improvement by Geosynthetic Encased Stone Columns"



Date: 31.03.2021 & Time: 10:30AM - 11:00AM



Dr. Rajesh Sathiyamoorthy  
IIT Kanpur.

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Report on the Webinar -

**"GROUND IMPROVEMENT BY GEO SYNTHETIC ENCASED STONE COLUMNS "**

*March 31st, 2021*

Geethanjali College of Engineering and Technology, Civil Engineering Department, organized an expert lecture for the students in collaboration with "Indian Geotechnical Society - Student Chapter" on **Ground Improvement by Geo synthetic Encased Stone Columns**. The webinar started at 10:30AM with an introductory speech by Mr.V.Abdul Raffi (Associate Professor) followed by a welcome speech by Mrs.K.Priyanka (Assistant Professor). The session was taken over by **Dr.Rajesh Sathiyamoorthy, IIT Kanpur**.

Topics covered in the session :

- 1) Soft Clays
- 2) Need for improving the deformation behaviour of soft clay
- 3) Various options available for improving soft clays
- 4) Stone Columns - Failure modes and mechanism
- 5) Performance enhancement by encasing stone columns
- 6) Various modelling approaches
- 7) Summary and Conclusions.

→ **Soft Clay:**

Soil behaves differently with the application of water in it. Soft clays are generally the soils with a large fraction of fine particles which have high moisture content and very high plasticity.

→ **Problems in soft clay were discussed as mentioned below:**

- Low Bearing Capacity
- Excessive Settlement
- Low permeability leading to very slow dissipation of excess pore pressure.

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→ Few Ground improvement techniques suggested are as follows:

- Vacuum consolidation
- Stone Columns
- Prefabricated Vertical Drains
- Preloading
- Sand drains

→ **STONE COLUMN, PVD** is an important GIT for Soft clay. Stone columns can expel out the water. Also the stone column acts as a load bearer.

**Basic Functions:**

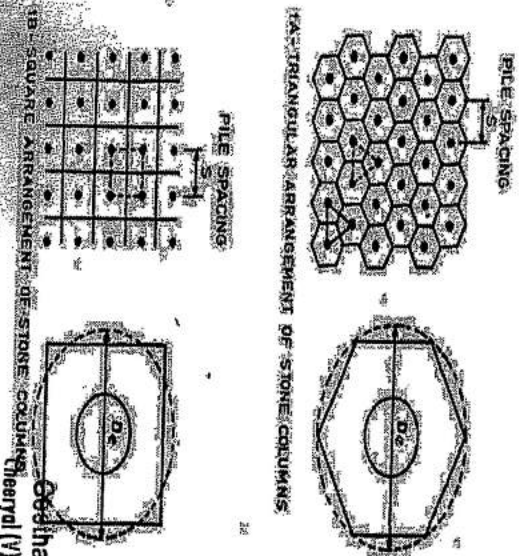
1. Increases density.
2. Accelerates consolidation.
3. Increases shear and tensile resistance.
4. Stone column transfers load to deeper strata.
5. Increases bending resistance.
6. Increases preconsolidation stress of surrounding soil.

**How to design, design parameters:**

Acc. to IS 15284(PART 1),

The design parameters include: Stone Column Diameter, Layout, Area replacement ratio, Spacing, Properties of soil and stones and Equivalent Diameter.

Various patterns of stone columns are shown below in the figure

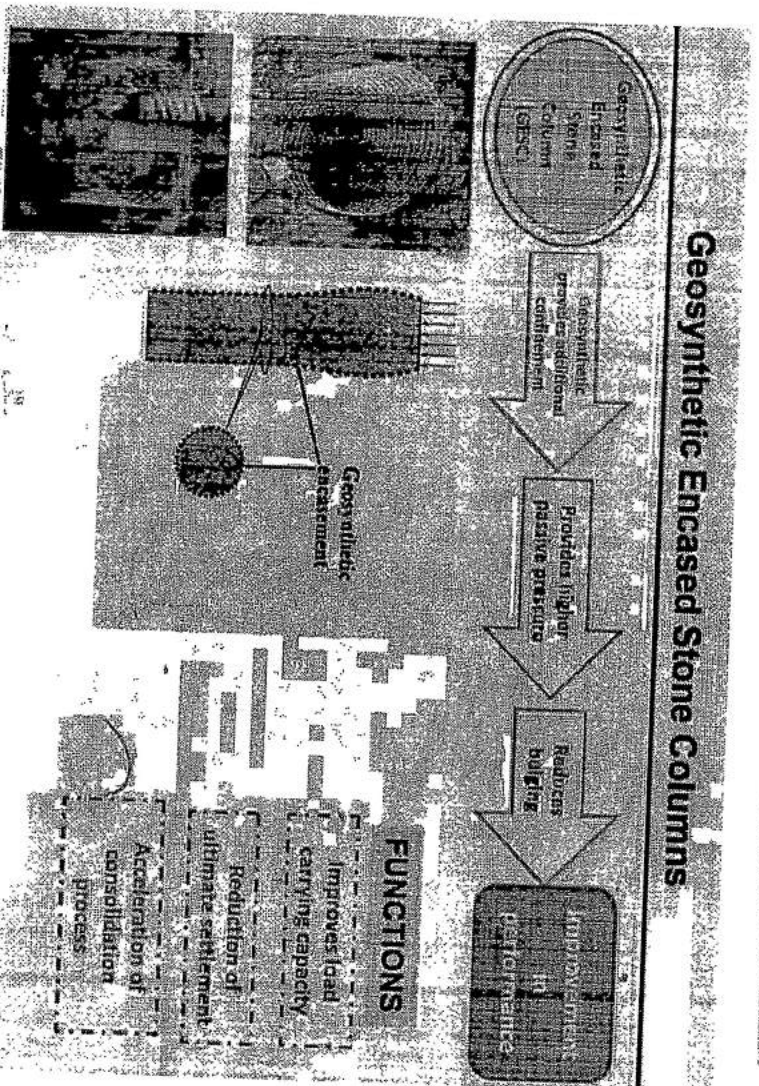
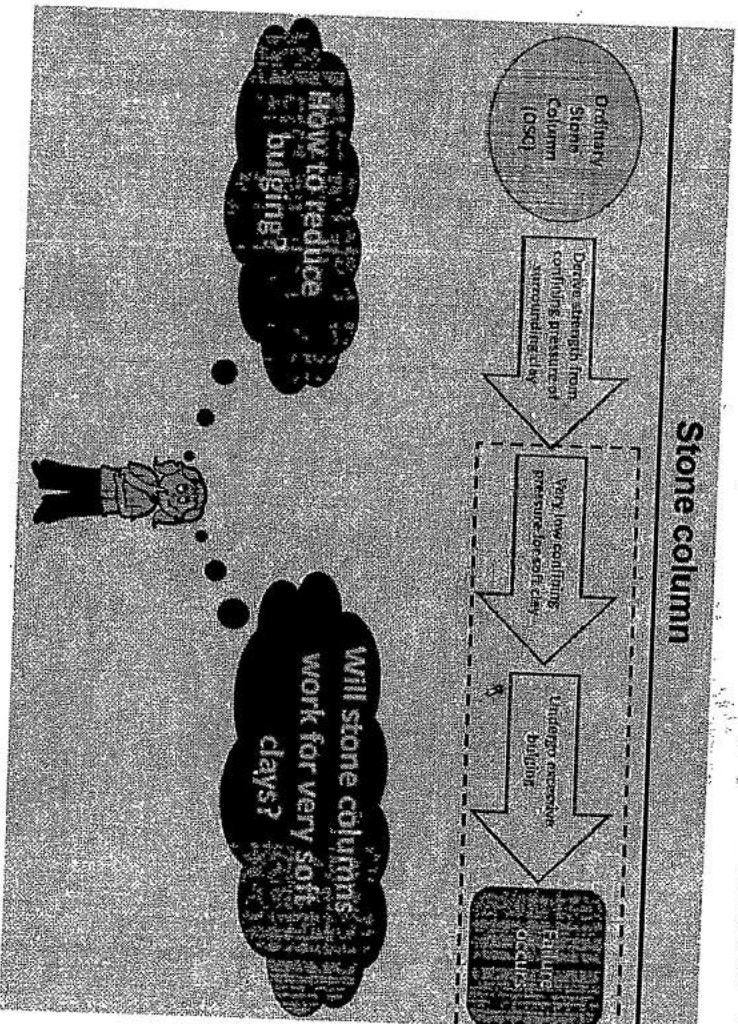


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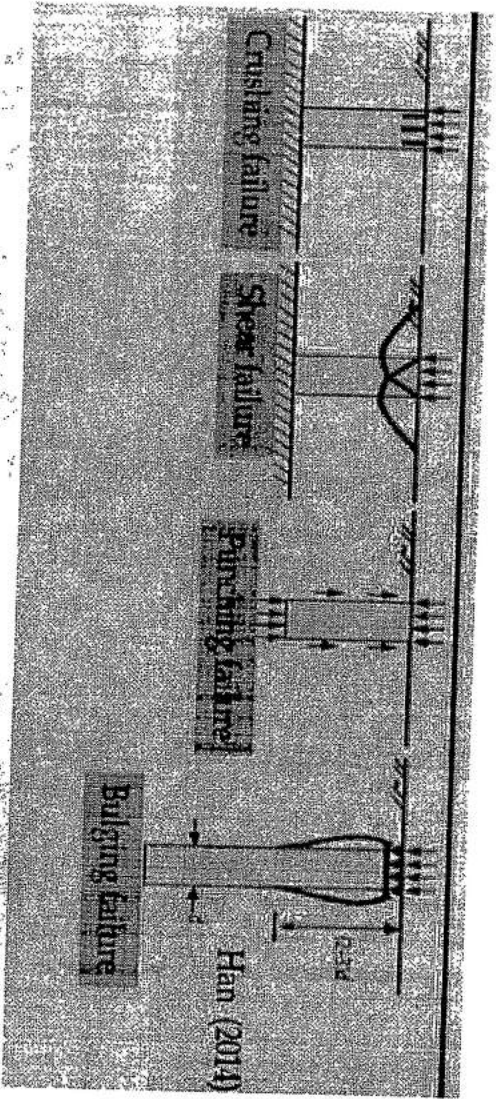
The load transfer mechanism leading to the enhanced performance of OSC and GESC when compared to untreated soft clay was been discussed:



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To design, the considerations to be kept in mind include: Load transfer, Bearing capacity, Settlement and consolidation, Slope stability.

→ Failure mode of column can be by:

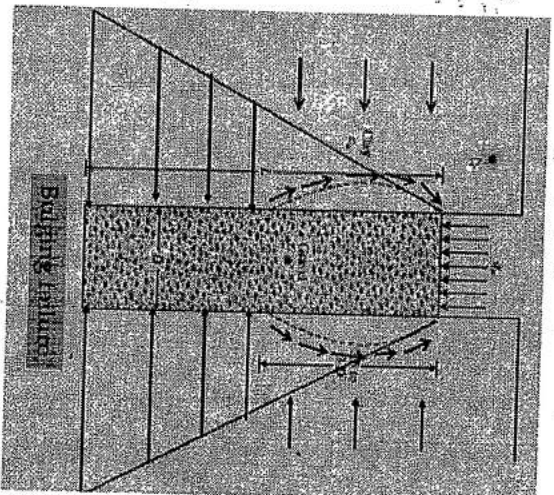


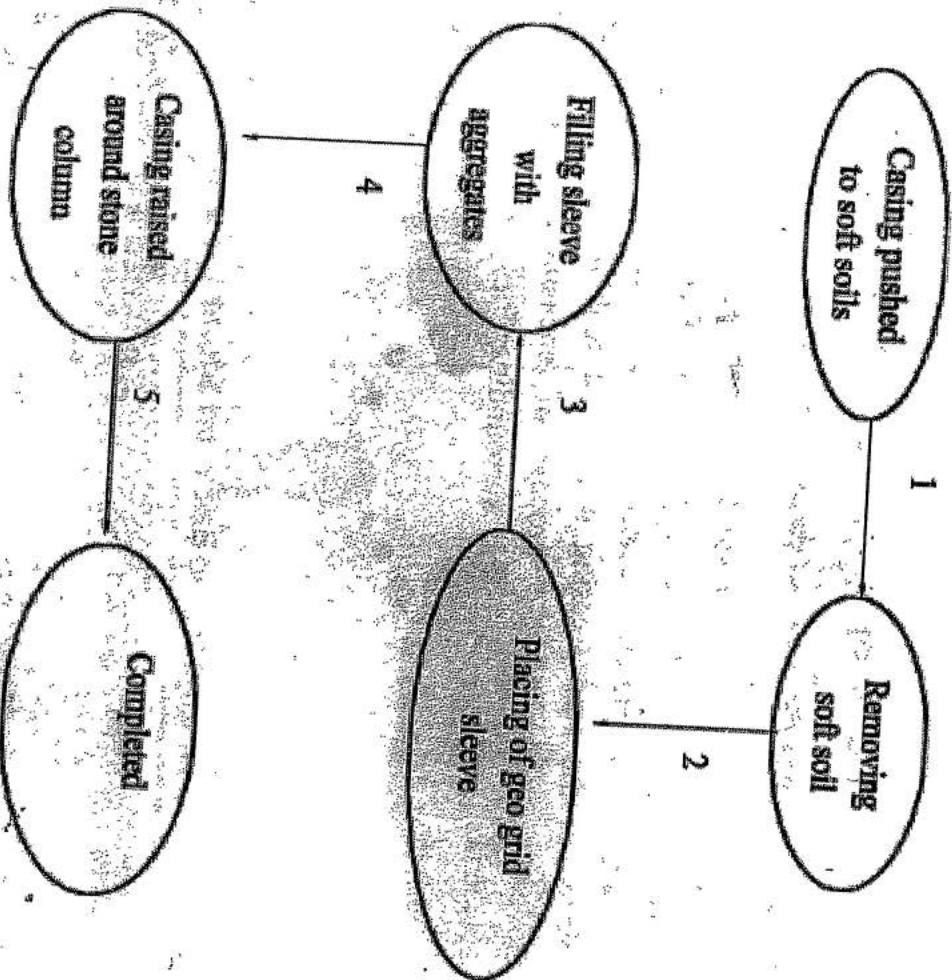
→ Load transfer mechanism:

Lateral earth pressure

Development of frictional resistance between column materials surrounding weak soil

Resistance mobilized by column material.





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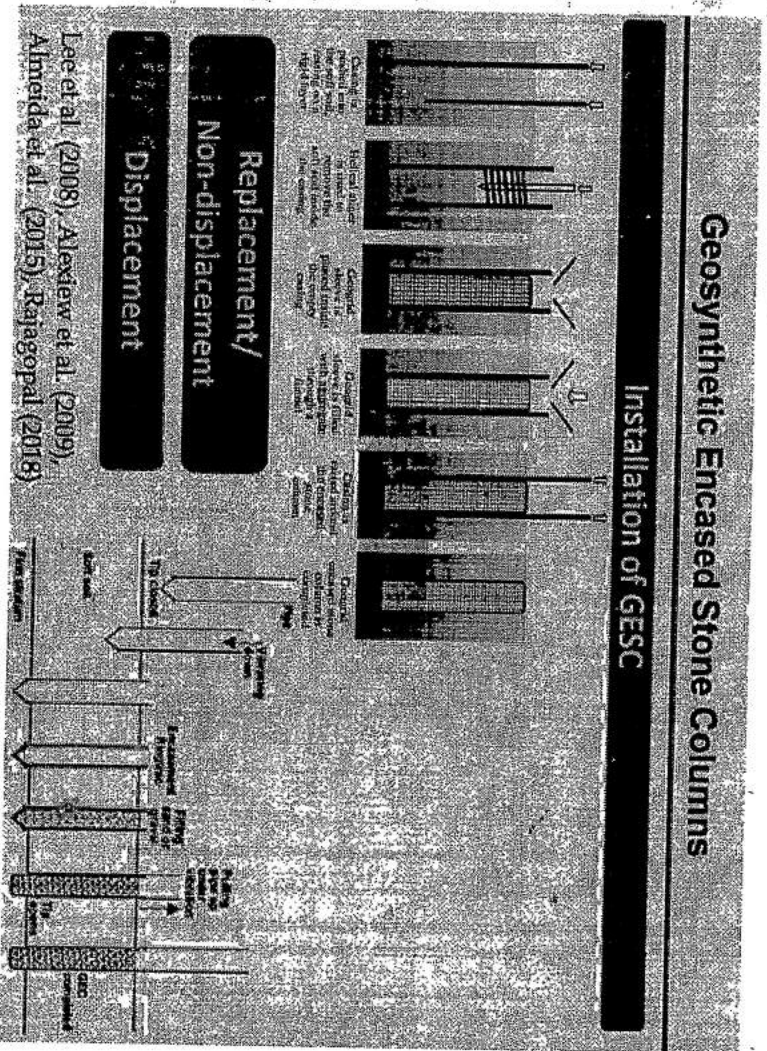
→ Which Modelling approach to be opted depending upon the data available:

Theoretical Modelling - If the theory and analysis is well-defined and well proven.

Physical Modelling - When there is a distrust of theory and analysis.

### Installation of geo synthetic encased stone columns:

→ There are two methods of installing encased stone columns namely by displacement method and replacement methods. In replacement method helical auger is used to remove soft soil inside the casing and geogrid sleeve is placed in the empty casing it is filled with aggregate and casing is removed to complete the process of encasing the stone columns. Displacement method soft soil surrounding the casing is removed and encasing is done.



K.PRIYANKA GCET is presenting



### Geethanjali College of Engineering and Technology

UGC Autonomous Institution  
Accredited by NAAC, Approved by AICTE and affiliated to JNTUH

Organized by  
Department of Civil Engineering

Expert lecture  
on

"Ground Improvement by Geosynthetic Encased Stone Columns"

Date: 31.03.2021 & Time: 10.30AM-11.30AM



Dr. Rajesh Sathiyamoorthy  
IIT Kanpur.



K.PRIYANKA GCET



Rajesh Sathiyamoorthy



ABDUL RAFFI V. GCET

Webinar organized by CE Dept

(53)

Add people

IN CALL

- Geethanjali Colle... (You)
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- 17R11A0121 KORUKOND...
- 17R11A0140 SANKASAN...
- 17R11A0152 ATTILI S V S...

Raise hand

K.PRIYANKA GCET  
is presenting

Webinar organized by CE Dept

Webinar organized by CE Dept

57 (57)

Add people

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- 17R11A0140 SANKASAN...
- 17R11A0152 ATILIS V S...

Rafesh Sathiyamoorthy is presenting

Raise hand

**Rafesh Sathiyamoorthy is presenting**

**Geethanjali College of Engineering and Technology, Telangana, March 2021**

**Dr. Rajesh Sathiyamoorthy**  
Associate Professor  
Department of Civil Engineering  
Indian Institute of Technology Kanpur, India  
TSPF Fellow, Tongji University  
hsrajesh@iitk.ac.in; http://home.iitk.ac.in/~hsrajesh/

**Ground Improvement by Geosynthetic Encased Stone Columns**

**K.PRIYANKA GCET**

**ABDU RAHIL V GCET**

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GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF CIVIL ENGINEERING

Report on Expert Lecture Conducted on 29/05/2021

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## “IMPROVEMENT OF SITE INVESTIGATION IN CIVIL ENGINEERING”

Department of Civil Engineering, GCET has organized an expert lecture in collaboration with “Indian Geotechnical Society - Student Chapter” on “Improvement of Site Investigation in Civil Engineering” by Dr.K.Madhusudan Reddy (Professor, Anurag University) on 29-05-2021.

The topics covered in this Expert lecture are:

- Importance of Site investigation
- Introduction to Site exploration
- Methodology
- Samples and Types of Foundations
- Tests
- Results and recommendations

### Importance of Site investigation:

Site Investigation is an important aspect in the Civil Engineering field. They are very important to recommend. One should analyse the ground through conducting boreholes, collecting various soil samples, lab tests and various engineering properties. Site investigation for Low-rise buildings recommends that site investigation expenditure should be 0.2% of the total project cost.

Risks inherent within the ground are attributed to significant cost and time overruns on construction projects. Instead of addressing such risks by comprehensive site investigation, they are often ignored as unnecessary costs.

### Introduction to Site exploration:

Soil exploration happens to be one of the most important parts of Foundation Engineering and also at the same time the most neglected part of it. The success or failure of a foundation depends essentially on the reliability of the various soil parameters from the field testing and laboratory testing and is used as an input into the design of foundations.

Soil exploration is a must in design of foundations and should provide the following:

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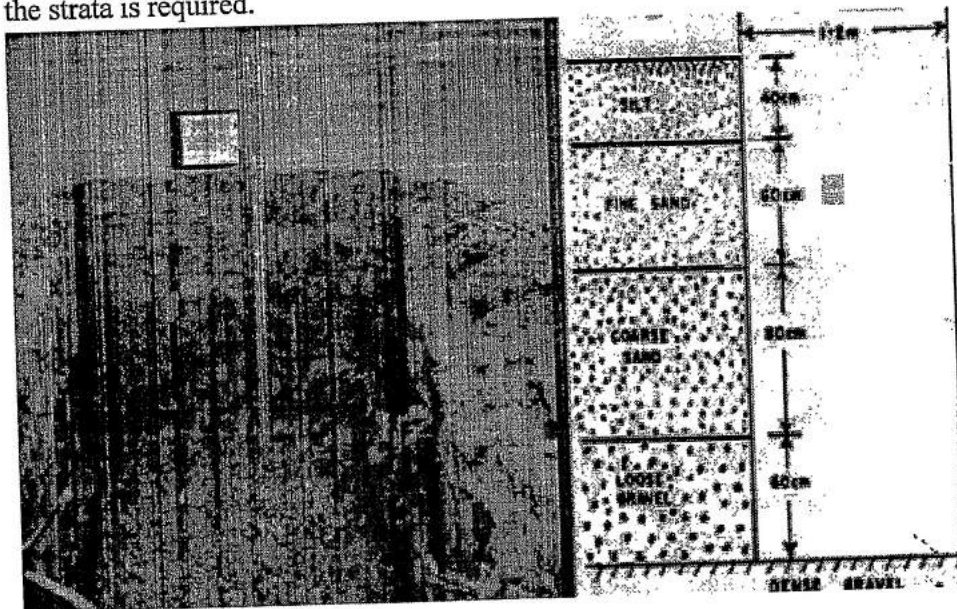
1. Information to determine the type of foundation required such as shallow or deep foundations.
2. Necessary information with regards to the strength and compressibility characteristics of the subsoil to allow the design consultant to make recommendations on the safe bearing pressure or pile load capacity.

**Methodology:**

The methods available for site investigation are:

1. Trial pits

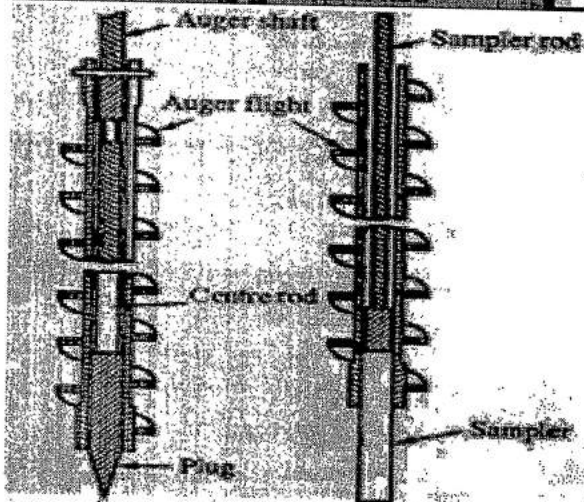
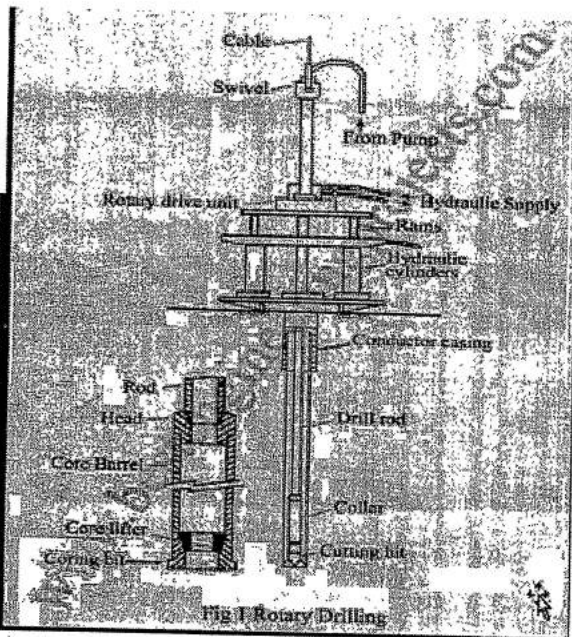
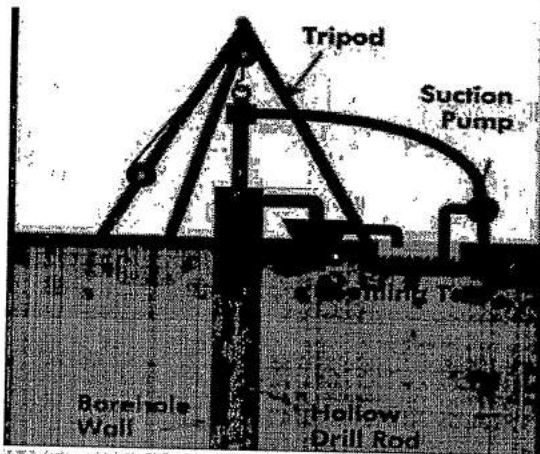
Trial pits are used to recover large bulk samples of soil or where thorough visual examination of the strata is required.



2. Boring

Various boring methods are auger boring, wash boring, rotary drilling as depicted below in the pictures.

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### Samples and types of foundations:

Types of soil samples are

- 1) Disturbed soil samples
- 2) Undisturbed soil samples

Generally the soil samples which are obtained from boring is disturbed samples. The sample obtained from auger boring is used for field tests and it isn't useful for laboratory analysis.

For proper identification and classification of soil samples representative samples are to be collected at regular intervals from SPT tests.

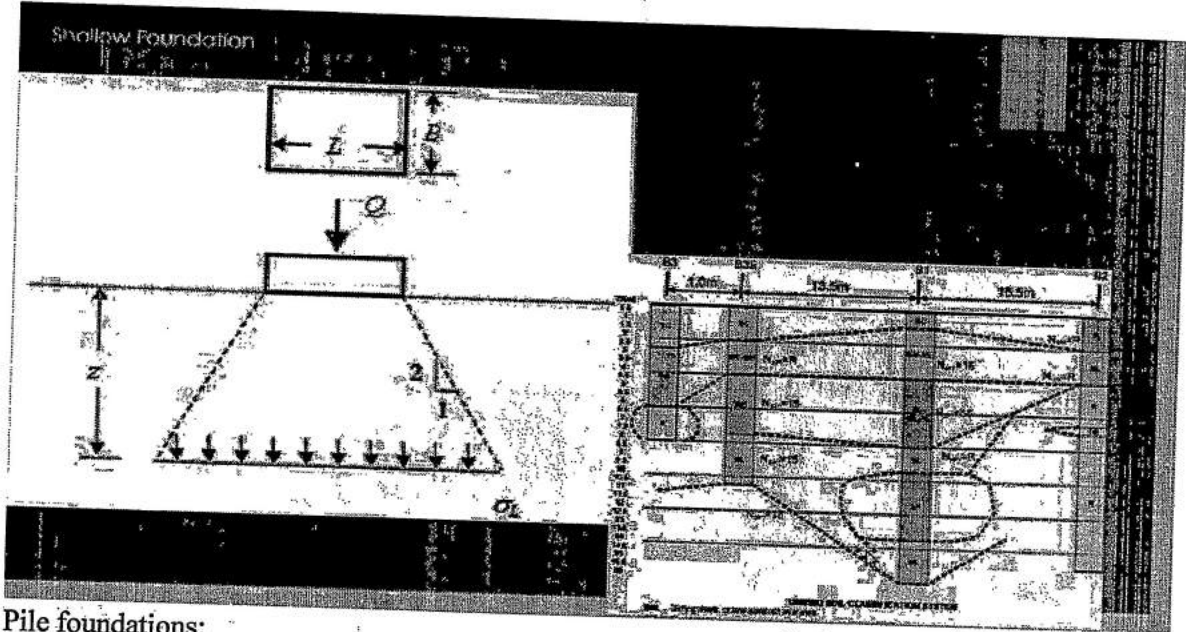
Types of foundation:

1. Shallow foundation : Strip footing, Raft foundation, Isolated footing, Combined footing etc
2. Deep foundation - Well foundations, Pile foundations, Pier foundation etc

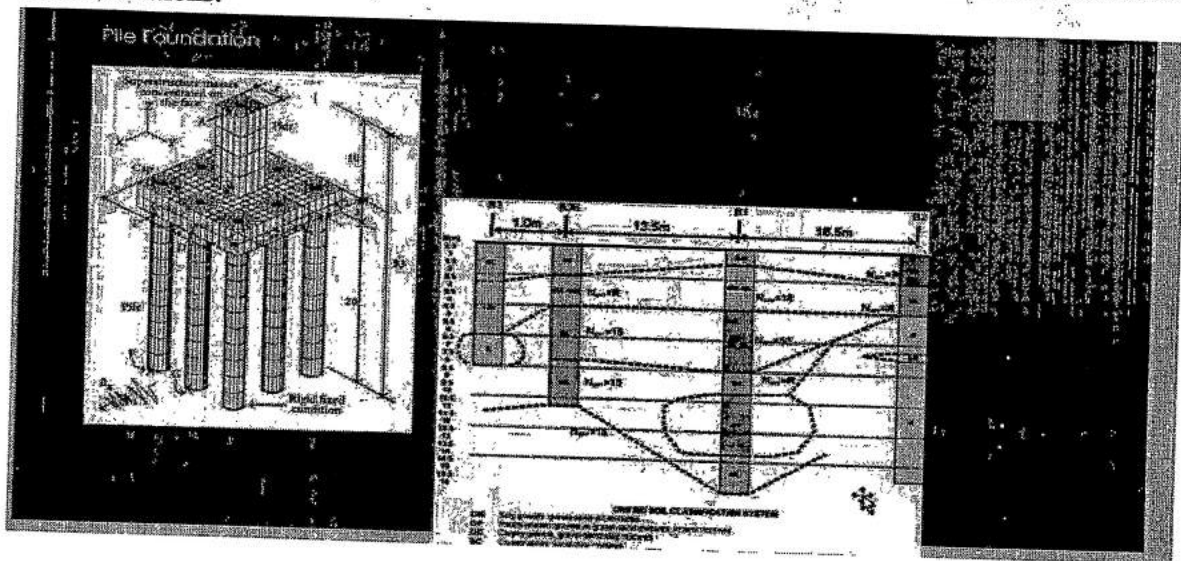
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**Shallow Foundation:**



**Pile foundations:**



**Tests and Recommendations:**

Laboratory Tests which are done generally to prepare a borehole log or field investigation reports are:

1. Direct Shear Test
2. Triaxial Compression
3. UCS test
4. Vane shear test

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5. Grain size analysis
6. Atterberg limits
7. Specific Gravity
8. Standard Proctor Test

Field tests:

General field tests which are used to calculate ultimate bearing capacity of the soil are

1. SPT
2. Plateload Test

SPT: No of blows required to 30cm penetration into soil is known as SPT value.

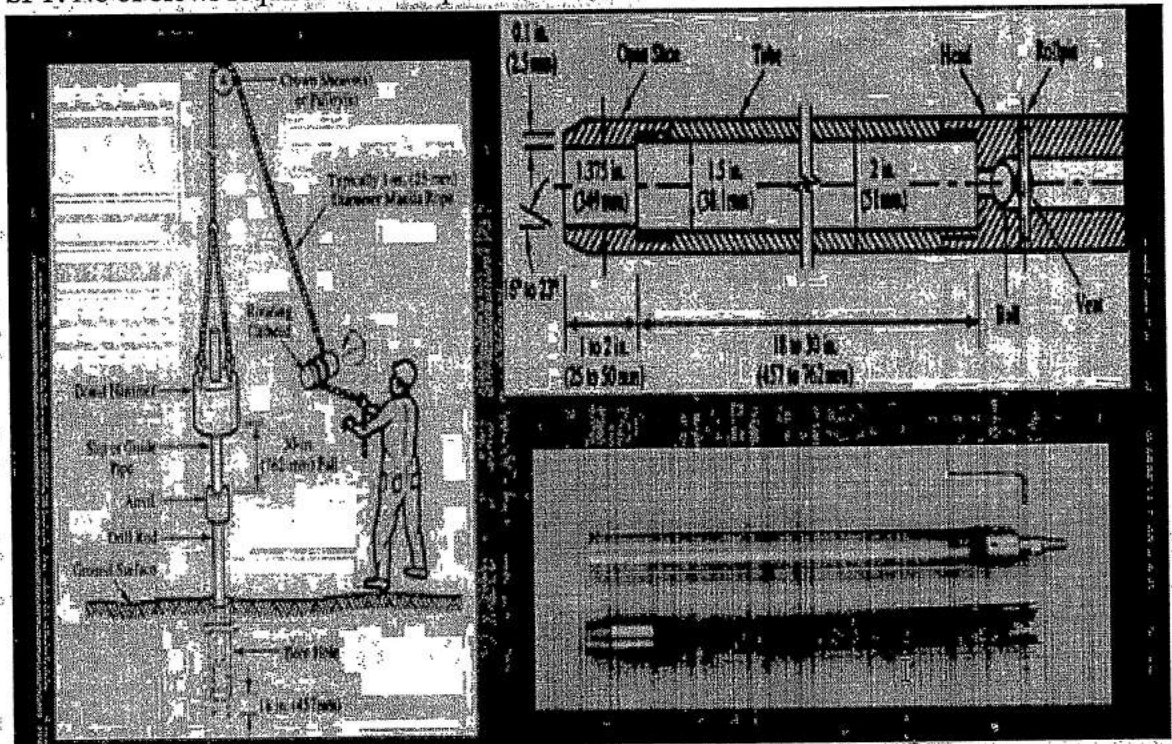
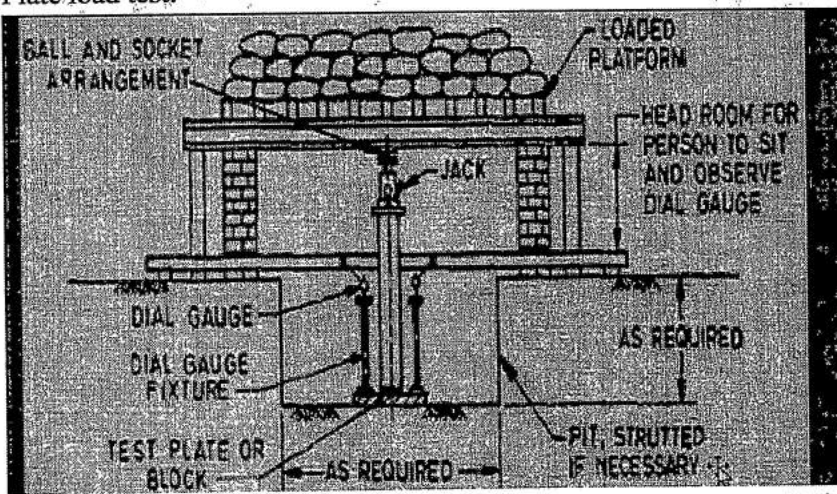


Plate load test:



**Results and Recommendations:**

Results obtained from Soil investigations are generally represented in the form of Borehole logs and Soil profile diagrams.

Borehole logs are used to represent the soil strata at a particular location.

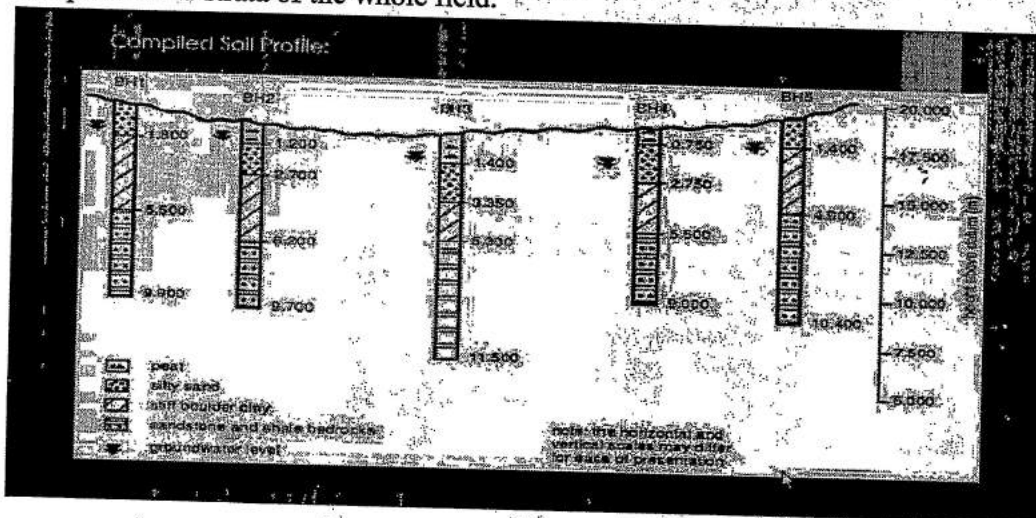
Borehole Log						
BH No. B-6		Date of Commencement 21.11.2005			Date of completion 22.11.2005	
Ground Water Table 1.4m						
Depth Below GL (m)	Soil Description	Thickness of Strata (m)	Legend	Details of Sampling		SPT N Value
				Type	Depth (m)	
0.0	Filled Up Soil	0.5	[Pattern]	SPT		None
2.0						
3.0	Reddish Clayey sand	1.5	[Pattern]	UDS	3.0	N=25
4.5				SPT	3.5	
5.0	Yellowish Silty sand	1.5	[Pattern]	UDS	5.0	N=23
6.5				SPT	5.5	
7.0	Grayish Yellowish Silty sand with mica	1.5	[Pattern]	UDS	7.0	N=22
8.5				SPT	7.5	
12.0	[Pattern]	1.5	[Pattern]	SPT	12.0	N=52
13.5				SPT	13.5	
14.0	[Pattern]	1.5	[Pattern]	SPT	14.0	N=100
15.5				SPT	15.5	
16.5	Weathered Rock	0.5	[Pattern]	75R for SPT Penetration		
17.0				75R for SPT Penetration		

Bore hole terminated at 17.0m  
 Sample not retrieved  
 CR-Cross Recovery  
 RQC-Rock Quality Description

Note  
 SPT  
 UDS  
 75R

Standard Penetration Test  
 Undisturbed Sample  
 Retained

Soil profile diagrams are used to represent the number of borehole logs in a field representing the soil profile and strata of the whole field.



**Recommendations:**

Following recommendations are provided based on the soil investigation report.

1. Suitable Foundation type
2. Depth and Size of footing
3. Provision of additional structural members such as tie beams for safety.

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# Geethanjali College of Engineering and Technology

One Day Webinar  
on  
"Post Tensioned Slabs"

Organized by  
Department of Civil Engineering  
*[Civil Engineering Technical Association]*

Date:05.08.2021 & Time:10.30PM-12.30PM

**Dr. C. Lavanya,**  
Professor and Deán, GRIET, Hyderabad

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GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF CIVIL ENGINEERING

Report on Expert Lecture Conducted on 5/08/2021

## “OVERVIEW OF GROUND IMPROVEMENT TECHNIQUES IN CIVIL ENGINEERING”

Geethanjali College of Engineering and Technology, Civil Engineering Department, organized an expert lecture for the students in collaboration with “Indian Geotechnical Society - Student Chapter” on “Overview of Ground Improvement Techniques in Civil Engineering”. The webinar started at 10:00AM with an introductory speech by Mrs.K.Priyanka (Assistant Professor). The session was taken over by Dr. C. Lavanya (Professor & Dean, GRIET).

The topics covered in the session are:

- Necessity of Ground Improvement
- Objectives of improving soils
- Methods of Ground Improvement
- Stabilization of soil
- Choice of method of Ground Improvement



### Necessity of Ground Improvement:

Improving the ground results in the reduction of settlement; increase in the density which results in the increase of bearing capacity.

When a soil observed has less bearing capacity then it is advised to:

1. Avoid the site
2. Bypass poor soil
3. Select a suitable foundation

  
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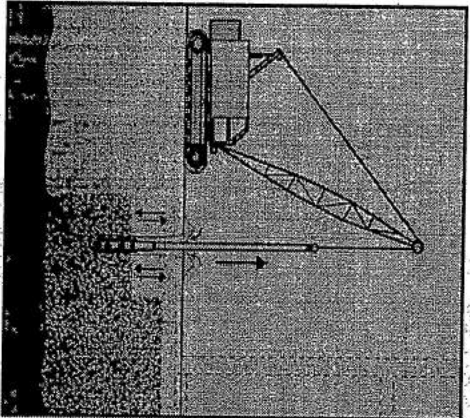
4. Improve ground conditions

#### Objectives of improving soils:

1. To increase the bearing capacity
2. Reduce compressibility
3. To control permeability
4. Reduce settlement
5. Eliminate Liquefaction

#### Classification of Ground Modification Techniques - Four groups of Ground Improvement Techniques are distinguished:

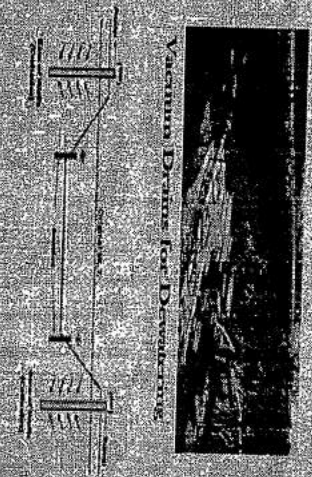
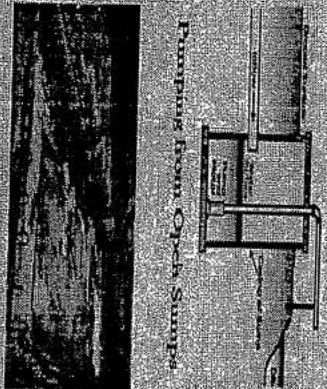
1. Mechanical Modification
  2. Hydraulic Modification
  3. Physical and Chemical Modification
  4. Modification by Inclusion and Confinement
- In Mechanical Modification - Soil density is increased by the application of mechanical force, including compaction of surface layers by static vibratory such as compact roller and plate vibrators.



- Hydraulic Modification - pore water is forced out of the soil via (by means of) drains of wells. In coarse grained soils, this is achieved by lowering the ground water level through pumping from boreholes or trenches. In fine-grained soils, The long term application of

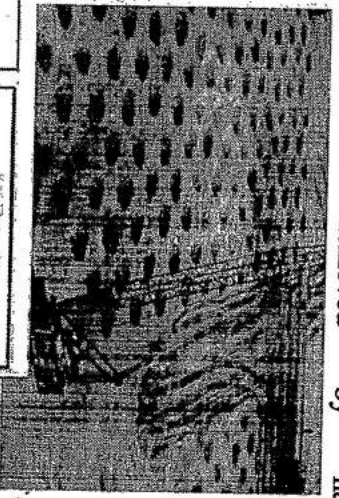
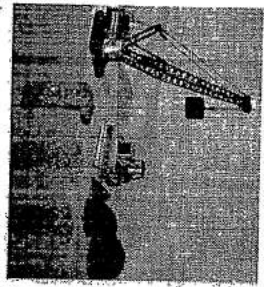


external loads (preloading) or electrical forces (electro kinetic stabilization) is required.



- > Physical and chemical modification - Additives include: natural soils, industrial by-products or waste materials (fly ash, slag), Cementations and other chemicals (lime, cement) which react with each other and the ground.
- > Modification by inclusion and Confinement. Reinforcement by -
  - Fibers
  - Strips
  - Bars
  - Meshes and Fabrics

In situ reinforcement is achieved by nails and anchors.



### General Stabilization Methods:

- > Mechanical Stabilization – Compaction.
- > Chemical Treatment – Soil Modification (low doses) – Soil Stabilization (high doses).

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One Day Webinar  
on  
"Post Tensioned Slabs"

Organized by  
Department of Civil Engineering  
*[Civil Engineering Technical Association]*

Date: 11.10.2021 & Time: 1.30PM-3.30PM

**Mr. NVL Krishna Prakash,**  
Star Educator, South Indai Ltd., Unacademy.

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11.10.2021

**BRIEF REPORT ON EXPERT LECTURE**

The Expert lecture on **career opportunities after B.Tech Civil Engineering** was organized by the department of Civil Engineering under the guidance of head of the department Dr R Prasanna Kumar and coordinator V. Abdul Raffi. Program was started by online mode at 2 pm sharp. Initially head of the department was welcomed the speaker **Mr. N.V.L. Krishna Prakash**, Star Educator, South India Civil Engineering Head, Unacademy, and handed over the class to take over.

Speaker after greeting the audience of department, staff and college started the presentation. He covered the topics like what are different jobs students can get after completing the B.Tech degree like, surveyor, site engineer, quantity surveyor, CAD engineer, design engineer, interior designer, material engineer etc. He also highlighted the required qualities for fresh students to get job like minimum experience, civil software experience, good internships, good project works, communication skills, etc

The program was concluded, with some interaction with students.

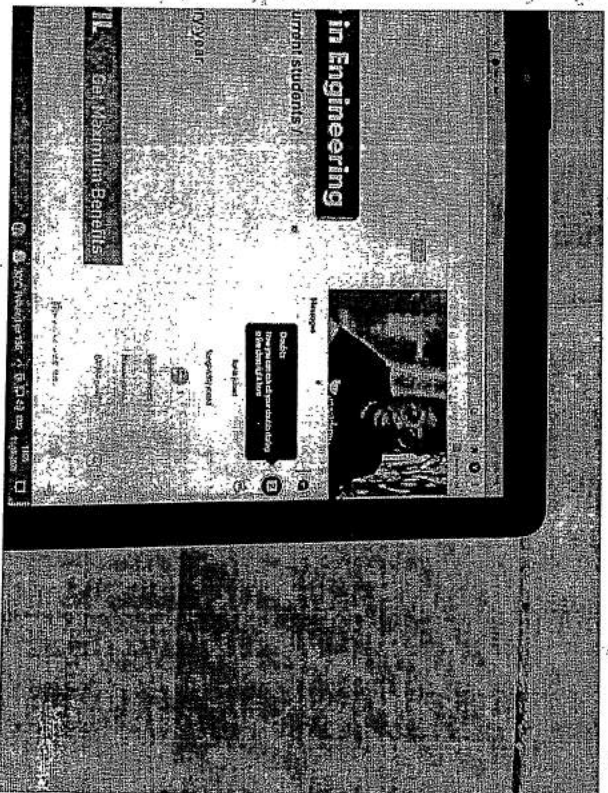
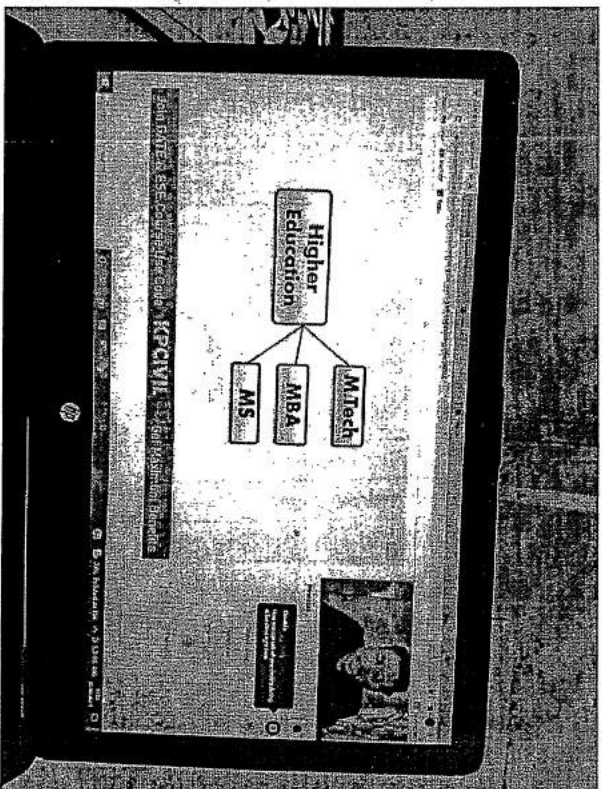
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Screen shots of the Event held on 11.10.2021 at 2.00 pm



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# Geethanjali College of Engineering and Technology

CHEERYAL (V), KEESARA (M), Medchal (Dist), Telangana

## Department of Computer Science & Engineering

### CIRCULAR

Date: 24-08-2020

A Workshop on “ML with Python “(6 series workshops) is organized by CSE Dept.as per the details given below

Date : 27/08/2020,03/09/2020,10/09/2020,17/09/2020,24/09/2020,01/10/2020

Time : 9:00 pm to 3:30 pm

Mode of conduction: online(Google meet link will be provided on 27/08/2020)

Target Audience: III B.Tech,CSE Students

Resource-Persons: Mr.C.Yuktesh,Developer Eco-systems and Start-ups,IBM

Coordinator: J.Uma Mahesh,Asst.Prof,CSE Dept.

All students are strictly instructed to attend the Session.

Note: All the students should join the meeting using GCET official mail ids only

*Atishi*  
24/8/20  
HOD-CSE

*S*  
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## A Report on

### Workshop on ML with Python

#### Objectives:

The Workshop is designed to provide Basic knowledge in ML with Python

**Outcomes:** Students able to understand how to analyze data using standard ML algorithms

ML with Python six-series Workshop organized for Students of GCET. The Resource Person for this workshop was Mr.C.Yuktesh, Developer Eco-systems and Start-ups, IBM

Workshop focused on Supervised vs Unsupervised Learning, look into how Statistical Modeling relates to Machine Learning, and do a comparison of each.

#### The topics covered

Python for ML : Python basics, Functions , OOps

Data Analysis & Visualizaiton: NumPy, Pandas, Matplotlib

Supervised Learning: Linear Regression , Model Building steps, Error Metrics, Accuracy

Supervised Learning: Logistic Regression , Sigmoid Curve, Confusion Matrix

Unsupervised Learning: Clustering , K Means Clustering, Interpreting the Clusters

Decision Tree and Random Forest

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*[Handwritten Initials]*

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**Geethanjali College of Engineering and Technology**

CHEERYAL (V), KEESARA (M), Medchal (Dist), Telangana

**Department of Computer Science & Engineering**

**CIRCULAR**

**Date: 31-12-2020**

A Guest Lecture on “**Data structures - Advanced Concepts**” is organized by CSE Dept.as per the details given below

Date : 04/01/2021  
Time : 10:30 am to 12:30 pm  
Mode of conduction: online(Google meet link will be provided on 04/01/2021)  
Target Audience: II B.Tech,CSE Students  
Resource-Persons: Dr.K.Muthukumar,Asst.Professor,VIT,Chennai  
Coordinator: Mr.M.Srinivas,Assoc.Prof,CSE Dept.

All students are strictly instructed to attend the Session.

Note: All the students should join the meeting using GCET official mail ids only

  
31/12/20  
HOD-CSE

  
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Resource person Dr. K Muthukumaran is delivering a talk on Advanced Data Structures

Media Playback Audio Video Tools View Help

DSA-Questions.pdf

### Balanced BST and AVL Trees

- A binary search tree is an AVL tree if the difference in heights between left and right subtrees is at most 1, and Both sub-trees are AVL trees

Figure 17: Right Rotation

To fix this, we will perform a single right rotation, rooted at 2. This is done in the following steps:

- 2 becomes the new root.
- 3 takes ownership of 2's right child, as its left child. In this case, that value is null.
- 2 takes ownership of 1, as it's right child.

VIT

41:51 1:52:18

Media Playback Audio Video Tools View Help


DSA-Questions.pdf

### The Growth Rate of the Six Popular functions

n	log n	n	n log n	n <sup>2</sup>	n <sup>3</sup>	2 <sup>n</sup>
4	2	4	8	16	64	16
8	3	8	24	64	512	256
16	4	16	64	256	4,096	65,536
32	5	32	160	1,024	32,768	4,294,967,296
64	6	64	384	4,096	262,144	1.84 * 10 <sup>18</sup>
128	7	128	896	16,384	2,097,152	3.40 * 10 <sup>38</sup>
256	8	256	2,048	65,536	16,777,216	1.15 * 10 <sup>77</sup>
512	9	512	4,608	262,144	134,217,728	1.34 * 10 <sup>154</sup>
1024	10	1,024	10,240	1,048,576	1,073,741,824	1.75 * 10 <sup>308</sup>

VIT

00:07 1:52:19

  
**PRINCIPAL**  
 Geethanjali College of Engg. Tech.  
 Cheeryal (V), Keesara (M), R.R. Dist. (A.P.) - 501 301



**A Report on**  
**Guest Lecture on Data Structures**

**Objective:** To enhance the problem solving skills among students

**Outcome:** To gain sufficient knowledge on various algorithms

Department of Computer Science & Engineering organized guest lecture for the 2nd year students of CSE topic "Data Structures" on 04.01.2021. The guest lecture was delivered by Dr.K.Muthukumaran, Asst.Professor,VIT,Chennai

The session started with the basics of AVL Trees and Search trees.Mr.K.Muthukumaran told that IT industry basically tests the thought process in interviews and your thought process will be sound if you are good at data structures. He provided an insight into the topic of hashing data structures which is not the core part of syllabus but is very much required in the companies.

Session was very interactive as students also participated with enthusiasm. Overall it proved to be a two way interaction in which students were very comfortable with the speaker and asked their queries without hesitation. The speaker answered all the queries . He encouraged the students to focus on the data structures as it will strengthen their conceptual knowledge.

The Lecture was attended by more than 124 students.

*K. Muthukumaran*

N

*K. Muthukumaran*

**PRINCIPAL**  
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Cheeryal (V), Keesara (M), R.R. Dist. (A.P.) - 501 301

**Geethanjali College of Engineering and Technology**

CHEERYAL (V), KEESARA (M), Medchal (Dist), Telangana

**Department of Computer Science & Engineering**

**CIRCULAR**

**Date: 04-01-2021**

A Guest Lecture on “**Artificial Intelligence - Research Trends**” is organized by CSE Dept.as per the details given below

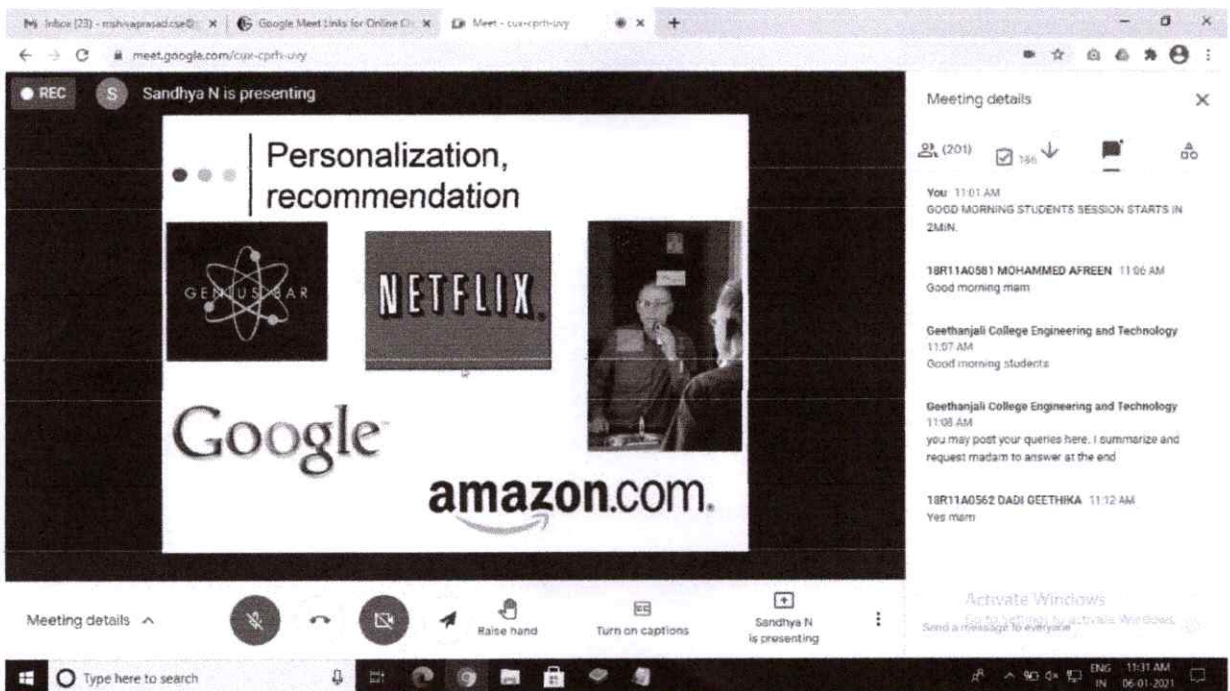
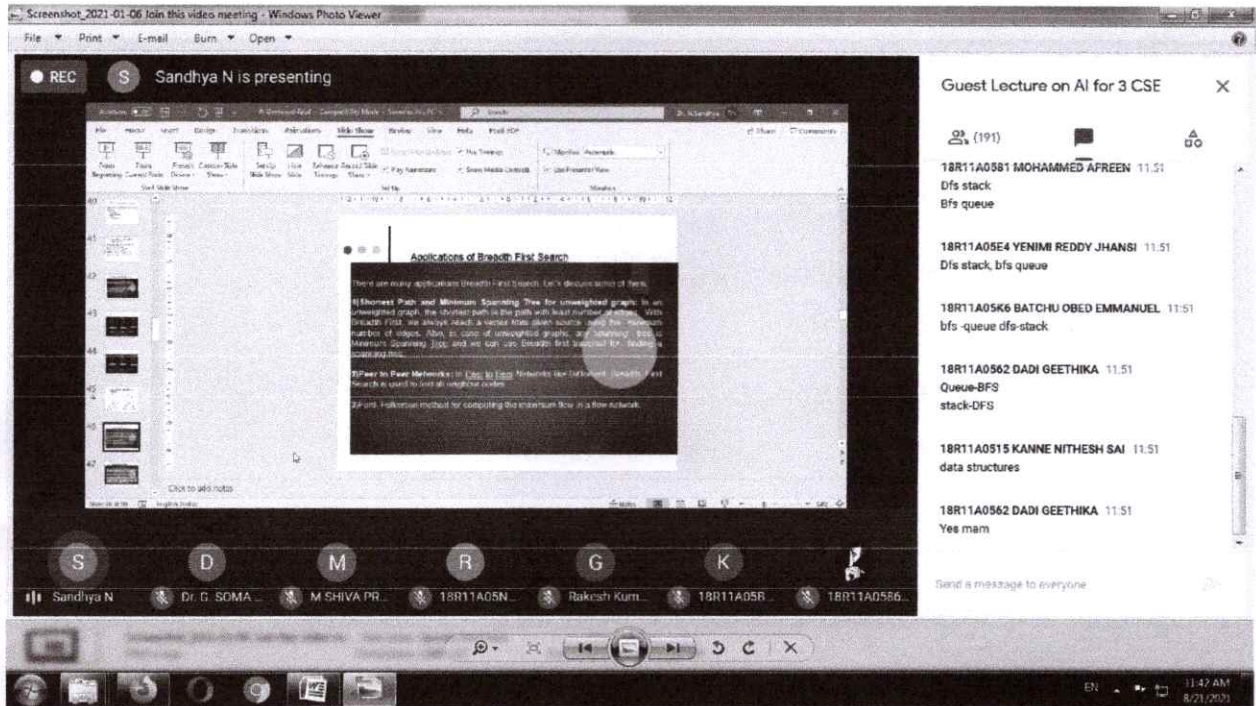
Date : 06/01/2021  
Time : 1:30 pm to 3:30 pm  
Mode of conduction: online(Google meet link will be provided on 06/01/2021)  
Target Audience: III B.Tech,CSE Students  
Resource-Persons: Dr.N.Sandhya,Professor,VNRVJIET,Hyderabad  
Coordinator: Mr.M.Srinivas,Assoc.Prof,CSE Dept.

All students are strictly instructed to attend the Session.

Note: All the students should join the meeting using GCET official mail ids only

  
HOD-CSE

  
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Resource Person Dr. N Sandhya is demonstrating Artificial Intelligence Topics

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**PRINCIPAL**  
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 (Chervyal (V), Kessara (M), R.R. Dist. (A.P.) - 501 301)

A Report on  
Guest Lecture on Artificial Intelligence

**Objective:** To make the students to get familiarize, how AI and its Applications are ruling the world.

**Outcome:** Understanding the concepts of Machine Learning, Artificial Intelligence and its applications to students.

Department of Computer Science and Engineering conducted a Guest Lecture on 'Artificial Intelligence' on 06.01.2021. The Guest speaker was Dr.N.Sandhya, Professor, VNRVJIT, Hyderabad. The event coordinators were Mr. M.Srinivas & Venkateswarlu, CSE Dept.

The Guest Lecture started with an introduction on what is artificial intelligence and its importance in the present times. Ms Sandya discussed the evolution of five generations of computer languages. she told us that at present, artificial intelligence is part of the fifth generation of computer programming languages. He also discussed concepts like Heuristics, Natural Language Processing, Knowledge representation, Automated reasoning, Machine Learning and Expert Systems. While explaining the important applications of Artificial Intelligence, she informed the enthusiastic audience that in the coming days, AI will become an important part of our lives. It is already being used in voice recognition, speech recognition, Image processing, computer vision and robotics.

*Srinivas*

*h*

*Sandhya*

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**Geethanjali College of Engineering and Technology**

CHEERYAL (V), KEESARA (M), Medchal (Dist), Telangana

**Department of Computer Science & Engineering**

**CIRCULAR**

**Date: 04-01-2021**

A Guest Lecture on “**Cloud Computing - Research Trends**” is organized by CSE Dept.as per the details given below

Date : 06/01/2021

Time : 10:30 pm to 12 pm

Mode of conduction: online(Google meet link will be provided on 06/01/2021)

Target Audience: IV B.Tech,CSE Students

Resource-Persons: Dr.V.Dinesh Reddy, Asst.Professor, SRM University, Amaravathi

Coordinator: Mr.M.Srinivas, Assoc.Prof, CSE Dept.

All students are strictly instructed to attend the Session.

Note: All the students should join the meeting using GCET official mail ids only

  
04/01/21  
HOD-CSE

  
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Resource Person Dr. V Dinesh Reddy is delivering a talk on Cloud Computing

Media Playback Audio Video Tools View Help

### What is next for Cloud Computing?

- **More implementation of OpenStack:** OpenStack software delivers a massively scalable cloud open source infrastructure as a service (IaaS) initiative for creating and managing large groups of virtual private environment. The goals of the OpenStack initiative are to support interoperability between cloud services and allow businesses to build cloud services in their own data centers.
- **Big data as a service (BDaaS)** is a term typically used to refer to services that offer analysis of large or complex data sets, using the cloud-hosted services computing system available through the cloud.
- **Platform as a service continues to grow:** More companies will be looking to adopt PaaS solutions in the upcoming years. PaaS allows businesses to lower IT costs while speeding up application development through more efficient testing and deployment.

53:55 1:15:09

Media Playback Audio Video Tools View Help

Introduction ppt - PowerPoint (Product Activation Failed)

### Cloud Computing - What Next?

by  
Dr. V. Dinesh Reddy

00:08 1:15:19

PRINCIPAL  
Geethanjali College of Engg. Tech.  
(Cheerthol (V), Keesara (M), R.R. Dist. (K.S. 571 301)  
Dr. V. Dinesh Reddy

A Report on  
Guest Lecture on Cloud Computing - Research Trends

A Guest Lecture on "Cloud Computing - Research Trends" was organized by the Department of Computer Science and Engineering, GCET, for the students on 6th January, 2021.

The Expert Speaker of the lecture was , Dr.V.Dinesh Reddy,Asst.Professor,SRM University,Amaravathi

His specialization is in the field of Cloud Computing and has more than 13 years of experience in academics.

In his lecture, Dr.Dinesh discussed the basic concepts regarding cloud as well as the advancements in this field. He also introduced the participants to many exclusive examples and challenges which are often faced by the researcher while working on cloud computing.

He shared his own experiences on how and why he started working in this field, he also discussed the enabling technologies, features of cloud providers and different deployment models of cloud. In the concluding part he extended his warm wishes to Dr.A.Sree Lakshmi (Head- Department of Computer Science and Engineering) and his team and expressed his hope for more such interactions in future.

*Signature*

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Cheerla (V), Keesara (M), R.A. Dist. (A.P.) - 501 301

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**Geethanjali College of Engineering and Technology**  
CHEERYAL (V), KEESARA (M), Medchal (Dist), Telangana  
**Department of Computer Science & Engineering**

**CIRCULAR**



**Date: 08-02-2021**

A Guest Lecture on “**Big Data Analytics**” is organized by CSE Dept.as per the details given below

Date : 10/02/2021  
Time : 10:30 pm to 12 pm  
Mode of conduction: online(Google meet link will be provided on 10/02/2021)  
Target Audience: IV B.Tech,CSE Students  
Resource-Persons: Dr.Hemath Kumar Gianey ,Asst.Professor,  
Thaper Institute of Engineering & Technology, Patiala  
Coordinator: Mr.M.Srinivas, Assoc.Prof, CSE Dept.

All students are strictly instructed to attend the Session.

Note: All the students should join the meeting using GCET official mail ids only

  
  
**HOD-CSE**  
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**Geethanjali College of Engg. Tech.**  
Cheeryal (V), Keesara (M), R. R. Dist. (A.P.) - 501 301



# Guest Lecture on Big Data Analytics

**Meeting details**

- (54)
- 17R11A05P5 VELLANKIL
- 17R11A05Q0 GOLI KE...
- 18-508 Chandini-CSE
- 18R15A0513 SANDEVE...
- 18R15A0515 KONDOJL...
- 18R15A0520 MOPIDE...
- 18R15A0521 POTTABA...
- 18R15A0522 DARABOL...

```
REC Hemant Gianey is presenting
```

```
start_Introduction - Notepad
File Edit Format View Help
In order to limit the maximum number of reducers:
set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
set mapred.reduce.tasks=<number>
Starting Job = job_201607230417_0001, Tracking URL = http://localhost
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=
2016-07-23 05:29:00,126 Stage-1 map = 0%, reduce = 0%
2016-07-23 05:29:27,070 Stage-1 map = 100%, reduce = 0%
2016-07-23 05:29:46,669 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201607230417_0001
OK
F      9000
M      6000
Time taken: 83.795 seconds
```

**Meeting details**

- (59)
- Add people
- IN CALL
- Geethanjali Coll... (You)
- 16R11A05J9 RAMELLA...
- 17R11A0502 BANOTH...
- 17R11A0508 DARAVAT...
- 17R11A0510 G KEERTH...
- 17R11A0516 JULAKAN...

```
REC Hemant Gianey is presenting
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```
Notepad
File Edit Format View Help
105, 'rakesh', 27000

[training@localhost ~]$ pig -x local
2018-12-26 04:32:43,111 [main] INFO org.apache.pig.Main - Logging er
2018-12-26 04:32:43,450 [main] INFO org.apache.pig.backend.hadoop.ex

grunt> emp = load 'emp.txt' using PigStorage(',') as
(emp_id:int,emp_name:chararray,emp_sal:int,emp_depto:int,emp_gender:c
>>);

grunt> dump emp;

(101, 'hemant', 35000,,)
(102, 'jaya', 40000,,)
(103, 'neelima', 25000,,)
(25000,,,)
(105, 'rakesh', 27000,,)
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Cheeryal (V), Kasarsa (M), R.R. Dist. (A.P.) - 501 301

A Report on  
Guest Lecture on Big Data Analytics

The Department of Computer Science & Engineering, GCET, organized a Guest Lecture on 'Big Data Analytics', on 10th Feb 2021. 63 students from the CSE Department attended the Guest Lecture.

The main focus of this Guest Lecture was to create an awareness on the 'Big Data Analytics' domain, which is popular in all academia, business sectors, and research and development, to make effective decisions in day to day activities.

Lecture was started with introduction about the BIG DATA and its opportunities. BIG DATA revolves around because of huge volume of online data transmission. This technology has been used to seek out the major problems in data mining. Data Analytics and Data Science concepts have been explained briefly. Many techniques like "Hadoop", "Hive", "Pig" etc has been explained. Usage of these techniques in Big data related problems has been discussed This lecture was very useful for students to know about the current leading trends in IT industry.

There was an interactive Question and Answer session following the presentation, and the programme came to an end with the proposal of Vote of Thanks.

*Srivastava*

*J. J. J.*

*h*

**PRINCIPAL**  
Geethanjali College of Engg. Techno  
Cheerel (V), Kasarola (M), R.R. Dist. (A.P.) - 561001

A Report on  
Workshop on Robotics

The main objective of this Workshop was to make students aware with the new technology in robotics & AI. The resource Person was Mr. B. Durga Prasad, Sr. Robotics Engineer, Smart Bridge Solutions

The topic he delivered was Robotics & Artificial Intelligence, a prominent research area in recent times. He started with the robotics fundamentals. He discussed the evolution of robotics and the need of it in the industries as well as in our daily life. He further elaborated the different types of robots starting from under water vehicles to MARS rover. He added the current research scenario of the robotics through various real world applications. He also explained how human robot interaction takes place.

The speaker explained all the points with the real time applications & videos of robots made by him & the students working under them.

The lecture was really fruitful to the students.

He ended the session saying the huge career opportunity this field can create and motivated the students to pursue their career further.

  
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Cheruvu (V), Keesara (M), R.R. Dist. (A.P.) - 501 301

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# Geethanjali College of Engineering and Technology

CHEERYAL (V), KEESARA (M), Medchal (Dist), Telangana

## Department of Computer Science & Engineering

### CIRCULAR

Date: 23-03-2021

A Five Day Training Program on "IBM Analytics Tools" is organized by CSE Dept.as per the details given below

Date : 26-03-2021 to 30-03-2021

Time : 10 am to 3pm

Mode of Conduction: online (Link will be provided on 26-03-2021)

Topics: IBM Congo's analytics dashboard, SSPS Modeller and Tableau, Clustering Analysis, Regression Analysis

Resource-Persons: Mr.P.Mohan, Sr.Data Scientist, Tech.Mahindra  
Mr.Pradeep, Sr.Data Scientist, Tech.Mahindra  
Mr.Venkatesh, Sr.Data Scientist, Tech.Mahindra

Coordinator: Mr RaviKanth Varma, Assoc.Profesor, CSE Dept, GCET

All faculty members have to attend the same positively except on essential duties.  
Students are also invited to attend the session.

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Cheeryal (V), Keesara (M), R.R. Dist. (A.P.) - 501 202  
HOD-CSE

## Training Program on IBM Analytics Tools

26-03-2021 to 30-03-2021

Organized by



### Geethanjali College of Engineering and Technology

Chief Patron

**Sri. G. R. Ravinder Reddy, Secretary**

Patron

**Dr. S. Udaya Kumar, Principal**

Convener

**Prof V. Madhusudan Rao  
Dean, School of Computer Science and Informatics**

Cocconvener

**Dr. A. Sree Lakshmi  
Professor & Head, Department of CST**



#### About The Institution

Geethanjali College of Engineering & Technology has been structured to take a quantum leap on the changing trends of technology. The need of setting up the college emerged when no other college could fulfill the aspirations of a student in his/her endeavor to acquire what essence education. The college has its strength lying in its principles of providing the right learning environment for the student. The campus epitomizes the Geethanjali motto,

"Striving towards Perfection", in providing the best of infrastructure, ambience and quality faculty. The college is recognized as Scientific and Industrial Research Organization (SIRO) by the Directorate of Scientific and Industrial Research (DSIR) - New Delhi. It is NAAC accredited with 'A' grade. Three programs, B.Tech (CSE), B.Tech (ECE) & B.Tech (EEE) of DSIR are accredited by NQA, New Delhi. A. Geethanjali, perfection is a passion.

#### About The Department

The Department of Computer Science and Engineering was established in the year 2005 and currently the department offers an Under Graduate program B.Tech in Computer Science and Engineering with an annual intake of 240 students and 1 Post-Graduate program M.Tech in Computer Science and Engineering with an annual intake of 30 students.

The Department is headed by Dr. A. Sri Lakshmi having a total experience of 19 years in Teaching and Research. Accomplished career demonstrating consistent success as an administrator and educator at the graduate and post-graduate education levels. She is an effective communicator with excellent planning, organizational, and negotiation strengths as well as the ability to lead, reach consensus, establish goals and attain results.

There are 7 Professors, 12 Associate Professors, and 43 Assistant Professors and 12 doctorates in the department.

The department has a Programmer and 5 System Administrators to assist and maintain the computer laboratories. All the faculty members are encouraged to participate in Faculty Development Programmes, Conferences, Workshops, Publication of Research Papers and active involvement in R & D activity.

#### Program Overview

##### Training program on IBM Analytics Tools

The intent of these Program is to provide in-depth understanding of analytics tools. Audience will be able to create Amazing Dashboards using Congo's Analytics / Tableau and see how to reap useful information by combining variety of data. We will cover topics such as IBM Congo's analytics dashboard, SPSS, Modeller and Tableau.

#### Program Out comes

- Learn to build stunning Dashboards with Congo's Analytics and Tableau
- Acquaint with new unified interface of Congo's Analytics and tableau desktop, to consume, modify and author reports and dashboards
- Learn about the Visualization available to you: How and when to use them, how to interact with them, how to customize them
- Work with SPSS SPSS Modeller for predictive Analysis

#### Training Course Content

##### Day 1 - Business Intelligence Overview

- Introduction to Business Analytics
- Types of Business Analytics-
- Introduction to Congo's Analytics
- platform Experience
- Exploratory Data Analysis with Cognos Analytics
- Dashboard Case Study: Analysing sales data of a company

##### Day 2 - Predictive Analytics- Regression Analysis

Introduction to IBM Cloud and SPSS Modeller workflow  
Linear Regression Analysis for Forecasting  
- Regression Analysis  
Building a predictive model for regression analysis  
Case Study: Risk Analysis of Space Shuttle  
Multiple Linear Regression Analysis Hands on practice with SPSS Modeller on Regression Analysis

##### Day 3 - Predictive Analytics - Classification Analysis

Introduction to IBM Cloud and SPSS Modeller Workflow  
Linear Regression Analysis for Forecasting  
Building a predictive model for regression analysis  
Case Study: Risk Analysis of Space Shuttle  
Multiple Linear Regression Analysis Hands-on practice with SPSS Modeller on Regression Analysis  
Classification Analysis  
Building a predictive model for classification  
Case Study: Classification of term

##### Day 4 - Predictive Analytics - Clustering Analysis

- Prescriptive Analytics  
Clustering Analysis
- Case Study:  
Segmentation of Mail Customers
- Case Study:  
Analysis of medical premium charges for Insurers
- Hands-on Practice session

##### Day 5 - Data Analysis With Tableau

- Getting started with Tableau
- Working with Tableau charts
- Working with Tableau Filters
- Working with Tableau Maps and Calculations
- Creating dashboards.
- Creating Stories
- Usecase : Analyse the sales of a super store.

#### Prerequisites:

- Laptops/Computer (Min 8GB RAM)
- Tableau Desktop Account
- IBM Cloud Account
- Good internet Facility

#### Registration Is Mandatory.


Register at:

<https://forms.gle/tPUcjhPjVnjGKKq6>

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5. Photographs of Training



  
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Geethanjali College of Engg. Tech  
Cheeryal (V), Keesara (M), R.R. Dist. (A.P.) - 501 301

## A Report on

### Training program on IBM Analytics Tools

#### Objectives:

To provide in depth understanding of analytics tools.

#### Outcomes:

Acquaint with new unified interface of Congo's Analytics and tableau desktop to consume, modify and author reports and dashboards. Work with SSPS SPSS Modeller for predictive Analysis

Training program on "on IBM Analytics Tools" was conducted by the Department of Computer Science and Engineering from 26-03-2021 to 30-03-2021.

The topic was selected so as to promote awareness in the contemporary technologies in the IT Industry. The Training program aimed to provide opportunities to faculty members and research scholars so as to enrich their teaching skills and research ideas in Data Analytics and their applications. The program also intended to develop the knowledge of participants in simulation with advanced software in the relevant fields of computer science.

Topics covered on five days

#### Day 1 Business Intelligence

Introduction to Business Analytics, Types of Business Analytics-Introduction to Congo's Analytics platform Experience.

#### Day 2 Predictive Analytics

Regression Analysis, Introduction to IBM Cloud and SPSS, Modeller workflow.

#### Day 3 Predictive Analytics

Classification Analysis, Building a predictive model for classification  
Case Study: Classification of term deposit

#### Day 4 Predictive Analytics

-Clustering Analysis

#### Day 5 Data Analysis With Tableau

Getting started with Tableau charts, maps and filters

The Training Program was concluded by taking feedback about the programme from the participants.

  
**PRINCIPAL**  
Goethanjali College of Engg. Tech  
Cheerla (V), Keesara (M), R.R. Dist. (A.P.) - 501 501

**Geethanjali College of Engineering and Technology**  
CHEERYAL (V), KEESARA (M), Medchal (Dist), Telangana  
**Department of Computer Science & Engineering**

**CIRCULAR**

**Date: 15-05-2021**

A Webinar on “**Building a successful Startup**” is organized by CSE Dept.as per the details given below

Date : 18/05/2021  
Time : 2 pm to 4pm  
Mode of conduction: online(Google meet link will be provided on 18/05/2021)  
Target Audience: IV B.Tech,CSE Students  
Resource-Persons: Mr.Lakka Raju Charan,CEO,STUMAGZ  
Coordinator: Ms Preeti Prasada, Asst.Prof, CSE Dept.

All students are strictly instructed to attend the Session.

Note: All the students should join the meeting using GCET official mail ids only

  
**PRINCIPAL**  
Geethanjali College of Engg. Tech.  
(Cheeryal (V), Keesara (M), R.R. Dist. (A.P.) - 501 301)

  
**HOD-CSE**  
15/05/21





# Geethanjali College Of Engineering and Technology

(UGC AUTONOMOUS)  
Accredited By NAAC with 'A' Grade and NBA Approved by AICTE, Affiliated to JNTUH  
Cheerla(V), Keesara(M), Medchal(Dist), Telangana-501301

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



**NEN**  
NATIONAL  
ENTREPRENEURSHIP NETWORK

**WEBINAR  
ON  
BUILDING A SUCCESSFUL STARTUP  
ORGANIZED BY DEPARTMENT OF CSE  
IN COLLABORATION WITH  
E.D.C (NEN)**



**LAKKARAJU CHARAN  
CEO (STUMAGZ)**



**18<sup>TH</sup> MAY  
TUESDAY**

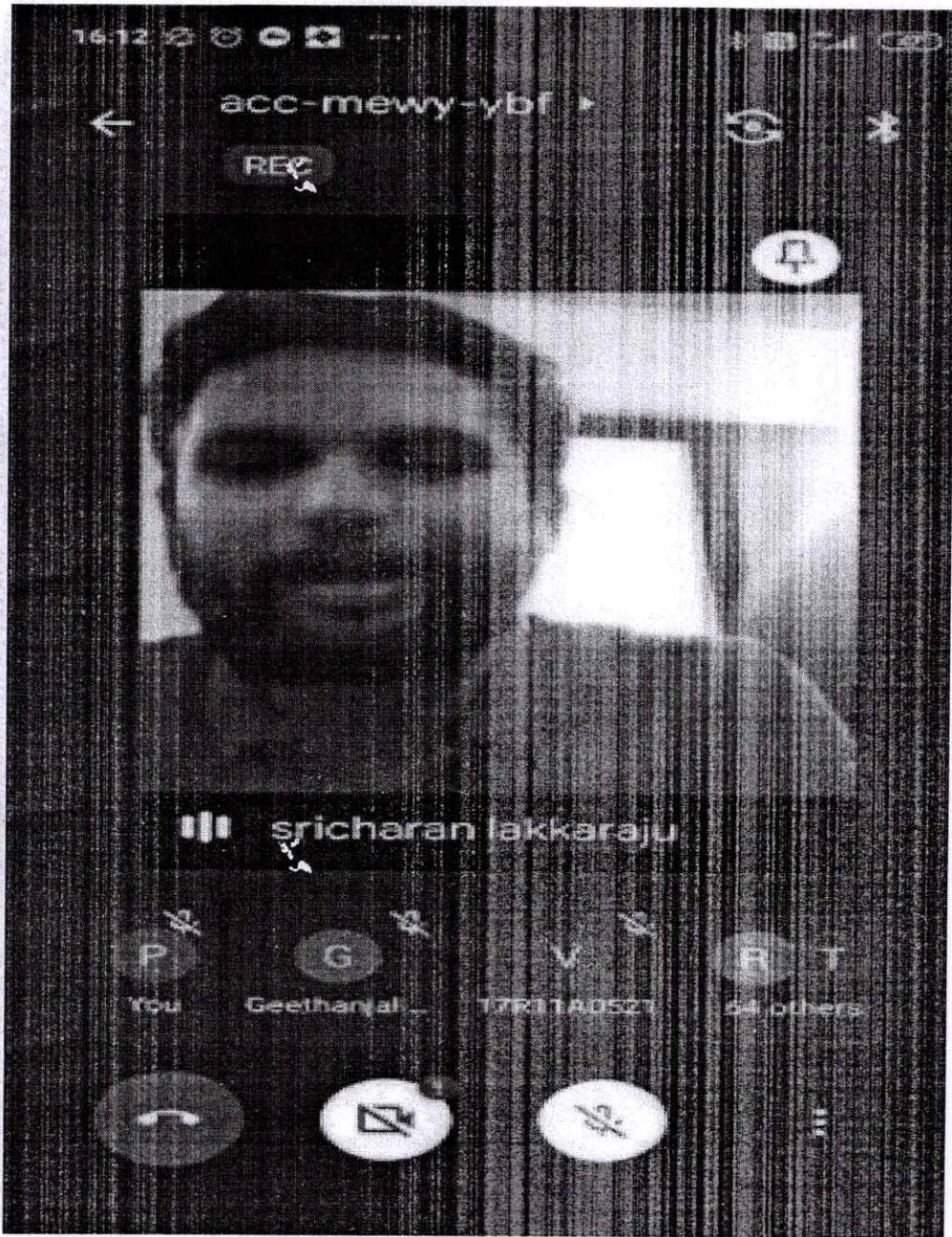
**TIMINGS :-  
4:00PM TO 5:30 PM**

**FACULTY COORDINATOR:  
PREETI PRASADA :-  
9959833844  
CSE DEPT**

**STUDENT COORDINATOR:  
REAZ DASHA SHAIKH :-  
7032235227  
CIVIL DEPT**

  
**PRINCIPAL**  
Geethanjali College of Engg. Techn.  
Cheerla (V), Keesara (M), R.R. Dist. (A.P.) - 501301

webinar on "Building Successful Startups"



P. Preethi


  
**PRINCIPAL**  
Geethanjali College of Engg. Tech.  
Cheerpal (V), Keesara (M), R.R. Dist. (A.P.) - 501 304

A Report on  
Webinar on Building a successful Startup

**Objective:** Major focus was given on ways to help the students know about entrepreneurship opportunities in the market and help them to start up their business.

**Name and details of the resource person :** Mr.Lakka Raju Charan,CEO,STUMAGZ ,who is a successful Entrepreneur whose passion is to help students with career building and also contribute to the Start Up culture.

Mr.Raju interacted with the students and got to know their various ideas in starting up a new business. In his interaction, Mr.Raju spoke about the Skills required by a successful Entrepreneur and the desire to improve their world, ability to raise money, relieve stress, to be reproductive, to make entrepreneur friends, ability to spot new trends and to deal with failure. He also mentioned about the various things a person can do to become an Entrepreneur. He further encouraged the students to follow their passion according to their skills. The students were really inspired and took part in the activities organized by Mr.Raju in which they had to come up with their own start up ideas and present it in front of everyone.

  
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Cheruvu (V), Kessera (M), R.R. Dist. (A.P.) - 501 301





# Geethanjali College of Engineering and Technology

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Cheerla (V), Keesara (M), Medchal (Dist), Telangana - 501 301.

## Department of Information Technology

**A.Y. 2020-2021**

S.NO	Resource Person	Designation	Training Program Details	Dates	Time	Target Audience/No. Attended
1	Dr. Anjaneya Swami Kare, HCU, Hyderabad	Associate Professor	Disjoint Union Data Structures	27.01.2021	11:00- 12:30pm	II Year IT(65)

**PRINCIPAL**

Geethanjali College of Engg. Techn.  
Cheerla (V), Keesara (M), R.R. Dist. (A.P.) - 501 301

**Head**

Department of Information Technology  
Geethanjali College of Engineering & Technology  
An Autonomous Institution  
Cheerla (V), Keesara (M), Medchal (Dist.), TS-501301

# Geethanjali College of Engineering and Technology

CHEERYAL (V), KEESARA (M), Medchal (Dist), Telangana

## Department of Information Technology

### CIRCULAR

Date: 24-01-2021

A Guest Lecture on “**Disjoint Union Data Structures**” is organized by IT Dept.as per the details given below

Date : 27-01-2021  
Time : 11:00 am to 12:30 pm  
Venue : Online  
Target Audience: II B.Tech, IT Students  
Resource-Persons: Dr. Anjaneya Swami Kare, Associate Professor.  
Coordinator: Mr.K.Naresh Babu,Assoc.Prof,IT Dept.

All students are strictly instructed to attend the Session.



HOD-IT

**Head**

Department of Information Technology  
Geethanjali College of Engineering & Technology  
Cheeryal (V), Keesara (M), R.R. Medchal, Medchal (Dist), Telangana-501301



CIRCULAR  
Geethanjali College of Engineering & Technology  
Cheeryal (V), Keesara (M), R.R. Medchal, Medchal (Dist), Telangana-501301

**A Report on**  
**Guest Lecture on Disjoint Union Data Structures**

**Objective:** To enhance the problem solving skills among students.

**Outcome:** To gain sufficient knowledge on various algorithms.

Department of Information Technology organized guest lecture for the 2nd year students of IT topic "**Disjoint Union Data Structures**" on 27.01.2021. The guest lecture was delivered by Dr. Anjaneya Swami Kare, Associate Professor.

The session started with the basics of Disjoint set. Mr. Anjaneya Swami Kare told that IT industry basically tests the thought process in interviews and your thought process will be sound if you are good at data structures. He provided an insight into the topic of Disjoint-set data structures play a key role in Kruskal's algorithm for finding the minimum spanning tree.

Session was very interactive as students also participated with enthusiasm. Overall it proved to be a two way interaction in which students were very comfortable with the speaker and asked their queries without hesitation. The speaker answered all the queries . He encouraged the students to focus on the data structures as it will strengthen their conceptual knowledge.

The Lecture was attended by 65 students.



**Head**  
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Geethanjali College of Engineering & Technology  
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Inbox (5) - knarashbabu x Meet - IT 2A IT 2A (gde-fypn-kar - 27 x WhatsApp feedback google form

jamboard.google.com/d/1yVtFQc1B9zG8M6vNjFcsWfgrVq4KXkWTL360skGg4/viewer?f=0

Apps Meet GCET IT Departmen... IT Fortnight Atten... M.Tech Google Forms Cisco Webex Meeti...

IT 2A (gde-fypn-kar - 27 Jan 2021)

Set background Clear frame Anonymous Kangaroo joined

$S_1 = \{1, 2, 3\}$   $S_2 = \{6, 7, 8\}$   
make-set (10)  $S_3 = \{10\}$   
 $\rightarrow$  UNION (3, 8)  $\rightarrow S_1 \cup S_2$   
 $\{1, 2, 3, \dots\}$

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Anjeneya Swami Kare is presenting

### Application: Connected Components Algorithm

#### CONNECTED-COMPONENTS( $G$ )

- 1 for each vertex  $v \in V[G]$
- 2   do MAKE-SET( $v$ )
- 3 for each edge  $(u, v) \in E[G]$
- 4   do if FIND-SET( $u$ )  $\neq$  FIND-SET( $v$ )
- 5       then UNION( $u, v$ )

#### SAME-COMPONENT( $u, v$ )

- 1 if FIND-SET( $u$ ) = FIND-SET( $v$ )
- 2   then return TRUE
- 3   else return FALSE

Department of  
Geethanjali

K

You

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K NARESH BABU GCE



Anjeneya Swami Kare

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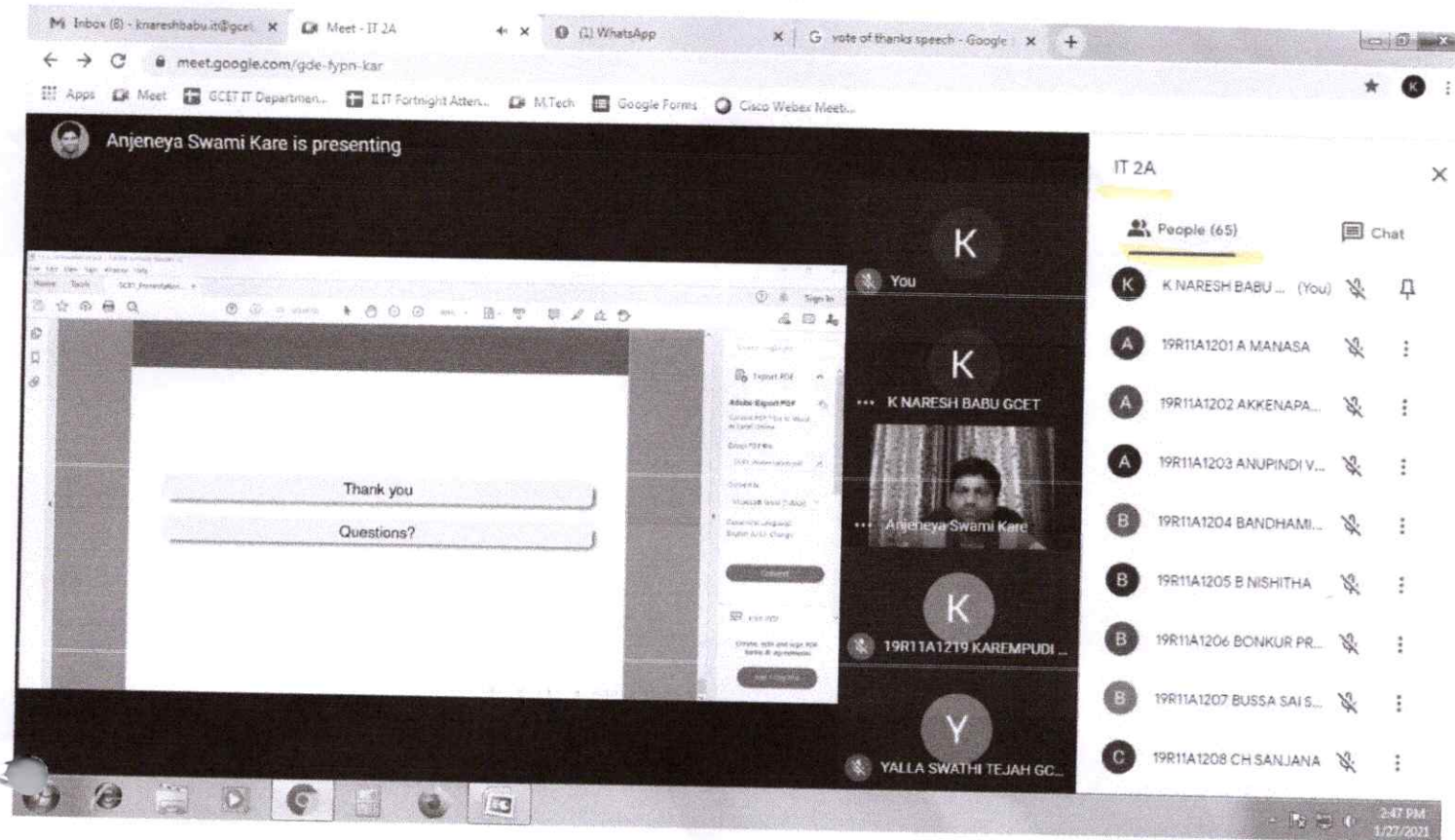
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YALLA SWATHI TEJAH

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