



**VASAVI COLLEGE OF ENGINEERING(AUTONOMOUS)
IBRAHIMBAGH, HYDERABAD-31**

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Activities carried out during COVID-19 Pandemic period

The COVID-19 pandemic has caused major disruption to people in various ways. During the prevailing pandemic situation with everyone staying at home to stay safe, the college has taken up a lot of initiatives towards training students.

1) Online classes

- Faculty members of the department took up the challenge of conducting online classes with a very positive spirit. They have been conducting online classes for students since April, 2020 very successfully.
- Students have also welcomed this change in teaching methodology and the aids used in conducting online classes. Attendance of the students has also been consistently good.
- Faculty members used CISCO Webex platform for conducting online classes for II, IV, VI and VIII Semester students for the academic year 2019-2020.
- For I, III, V and VII semesters of academic year 2020-2021, all faculty members started using Microsoft Teams, as it also had an integrated LMS along with other features for conducting online classes.
- Though some of the students faced certain challenges like network issues, low bandwidth, lack of a proper device to attend online classes, students ensured that they acquired the required resources to regularly attend the online sessions.
- For laboratories, online classes were conducted by live demonstration of the experiments.

2) Support to Socio-Economically Poor Students:

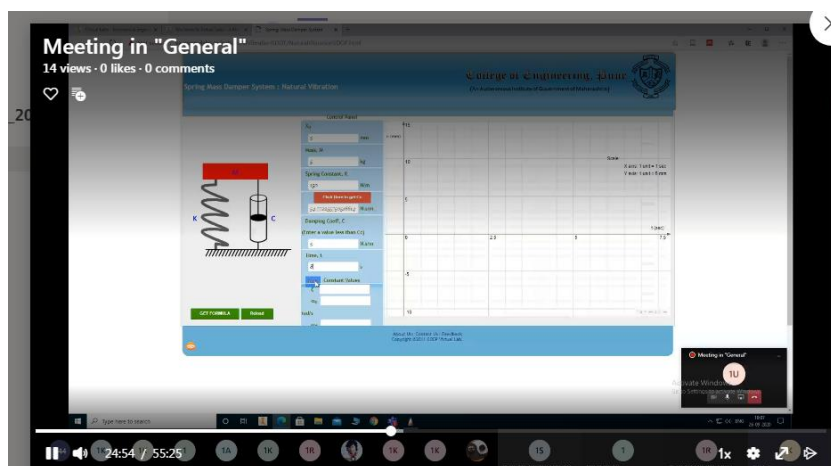
The Management has donated laptops to students who are from socio-economically poor backgrounds for attending online classes during the pandemic.

S. No.	H.T. No.	Name of the student
1	1602-19-736-078	RADHIKA AYYAGARI
2	1602-19-736-102	P. SRIKANTH



3) Virtual Laboratory Sessions

- Apart from conducting online theory classes, for some laboratories, sessions were also conducted using the concept of “Virtual Labs”.
- Virtual Laboratory sessions were conducted for students of V, VI, VII semesters in the following courses – Dynamics and Metrology and Thermal Engineering.



4) Online Campus Recruitment Training

- A 4-week online Campus Recruitment Training(CRT) was conducted for the students in two phases i.e., Phase-I from 10-04-2020 to 16-04-2020(1-week) and Phase-II from 26-05-2020 to 15-06-2020 (3-weeks), to prepare them for Campus Recruitments which started in August, 2020.
- The CRT sessions this year included:
 - Interactive live classes, hands-on practical sessions & mentoring support.
 - Top industry recruitment test papers and interview patterns.
 - Weekend tests to ensure sufficient practice.
 - Online Live Sessions for Employability assessments like Mettl, eLitmus, CoCubes, etc.
 - 24x7 Access to the LMS of our college training partner M/s. Talent Sprint Private Limited.
 - Access to Online Chat and Discussion Rooms.
 - Personalized and detailed individual student feedback after GD's, Mock Interviews and Tests.
 - Resume Preparation and LinkedIn profile creation session.
 - Recordings of the Sessions/Classes.
 - Weekly Instructor led LIVE Problem Solving Sessions.
 - Online Assessments.
 - Weekly Mock Tests.



- Model Question Papers and solutions for top IT/ITES Company Selection Tests being provided to students.
- Preparation for Virtual Recruitment processes.
- In addition to the above, a 3-week online CRT Refresher Course was also conducted in July, 2020, to provide much needed practice to the students before the Campus Recruitment Season started.

CV & LinkedIn Profile Creation- 26th May

- Accomplish
- Coordinate
- Detail-oriented
- Effective
- Efficient
- Maintained
- Met the deadline
- On time
- Organize
- Practical
- Prepare
- Provide
- Reorganize
- Responsible
- Results, Results-oriented

ATTRACTIVE VERBS FOR RESUME

INTERVIEW PERSPECTIVE- DO YOU USE THEM??

talent sprint

6. Find the last two non-zero digits of $25!$

A. 75
B. 94
C. 84
D. 64

$5! = 120$
 $12 \times 10 = 5 \times 2 \times 12 \times 10$

$10! = 1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7 \times 8 \times 9 \times 10$

$5 \times 10 \times (1 \times 2 \times 3 \times 4) \times (6 \times 7 \times 8 \times 9)$
 $5 \times 1 \times 5 \times 2 \times 2 \times 3 \times 7 \times 4 \times 9$
 $5^2 \times 2! \times (2 \times 12) \times (2 \times 7)$

21
32
42
72
12

Speed 1.50x

Reading Comprehension- 27th May

Sections in Verbal Ability

- Fill in the Blanks
- Jumbled Sentences
- Para Jumbles
- Reading Comprehension
- Spot the error
- Direct & Indirect speech
- Active & Passive Voice
- Vocabulary Questions
- Essay Writing

talent sprint

Speed 1.50x

*** Online Campus Recruitment Training**



5) Online Technical Skills Training

- An online 16-day Technical Skills(Coding) training was conducted for the students from 01-05-2020 to 16-05-2020.
- Training sessions were conducted on the topics:
 - Industry standard coding practices using data structures
 - Industry standard coding practices using C
 - Industry standard coding practices using Java
 - FEA (HYPERWORKS) and Modeling (CATIA)
- The theory sessions were supplemented with online practice sessions provided to the students.
- During these two weeks, students were also provided with doubt clarification sessions on Saturday's to clarify their doubts, if any, in the concepts discussed that week.
- After the two weeks of training, a proctored online coding test was conducted for the students and the solutions of the test were put through a Plagiarism check.
- Starting from 23-05-2020, mock coding tests were conducted on every Saturday. These tests continued up to August 2020.
- During the first week of August 2020, students were provided with links of online resources for practicing.
- A one-week online Technical Skills training on Industry Standard Coding Practices in C, Basics of CATIA, SOLIDWORKS and Machine Learning and Artificial Intelligence were conducted for the V Semester students from 02nd Nov 2020 to 07th Nov 2020. During these training sessions, students went through 3 hours of online classes and 3 hours of online practice sessions.

6) Online Continuous Internal Evaluation(CIE)

- Continuous Internal Evaluation (CIE) involves assessing the students through 3 quiz examinations, 3 assignments and 2 internal examinations. Quiz and Internal assessments were conducted online for II, IV, VI and VIII semesters (2019-2020) using Google Forms. Students submitted their assignments by email to the respective faculty members.



7) Faculty Development Programs Conducted by the Department

- The Department of Mechanical Engineering conducted one week online faculty development program on **"Innovation in Product Design, Precision Engineering and Optimization"** during 10th to 14th August, 2020 with one session per day (2 hours).
- The Department of Mechanical Engineering conducted one week online faculty development program on **"Recent Trends in Turbo machines"** during 14th to 18th September, 2020 with one session per day (2 hours).

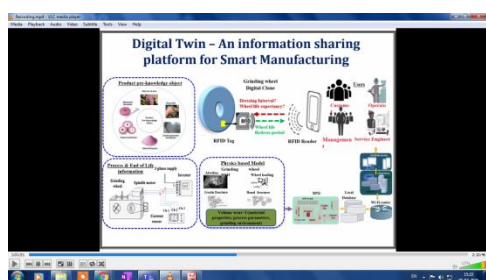
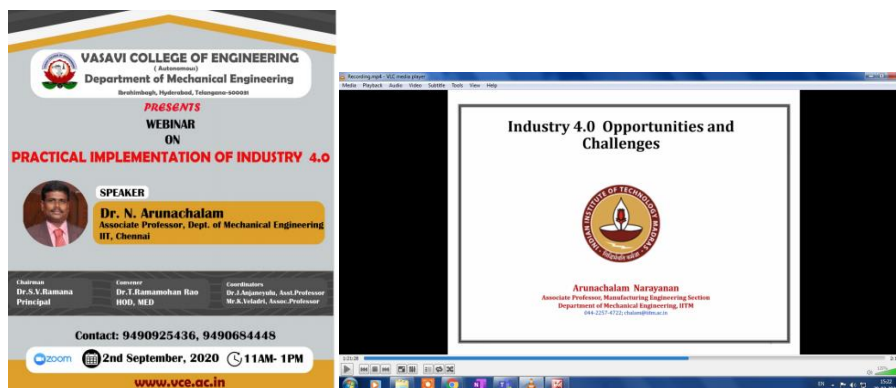


***FDP on 'Recent Trends in Turbo machines'**



8) Webinars Conducted by the Department:

i) The Department of Mechanical Engineering conducted one day webinar on **"Practical Implementation of Industry 4.0"** on 2nd September, 2020



ii) A webinar on **"Emerging Entrepreneurial Opportunities in the Age of Pandemic"** on 31-08-2020 by Institute Innovation Council of Vasavi College of Engineering for students, faculty and entrepreneurs.



REGISTRATION LINK:- <https://surveyheart.com/form/714782ae64a07851c424a2a0>

For any clarifications contact :

9704822207

Mr. K. I. Spurgeon, Asst. Prof., MED, VCE AC, IN






9) MOOCs Courses on Coursera







- Faculty members and students of the department enrolled and completed MOOCs(Massive Open Online Courses) through Coursera and NPTEL.
- 155 students of the department completed different courses offered by Coursera and NPTEL and 20 Faculty also finished the courses.

10) Alumni Contributions





- A few students of the department had challenges in attending online classes, due to lack of a computer system. In this context, Alumni of the department contributed by sponsoring laptops for needy students.

S.No.	H.T. No. and Name of the student	Alumni details	Remarks
1	1602-19-736-029 ESLAVATH RAMDAS	2015 batch 1) Srujana Kandukuri 2) Bhavani Teja 3) Kaushik Yanamandra 4) Abhiram Maddali 5) Kavya Perumbhudur 6) Ronit Kaza 7) Shiva Teja 8) Mounica Bolisetty 9) Swathi Earva 10) Manasa Jagarlapudi 11) Srujana Uppalapati	
2	1602-19-736-031 YELUGURI SAI KIRAN REDDY		
3	1602-19-736-054 LETHAKARI VIDHYA SAGAR		
4	1602-18-736-013 GOGULOTH GANESH		Direct delivered through courier
5	1602-17-736-016 YERRA MAHESH	2012 batch Mr. Naveen Kumar Reddy	Donated Rs. 24,000/- , the balance amount Rs. 20,000/- born by the student. The total cost of the laptop is Rs. 44,000/- Delivered
6	1602-17-736-028 NENAVATH RAHUL	2012 batch	Delivered through courier by the donor.



7	1602-17-736-056 KOTA SUNIL	1) B K K Anurag 2) ChintanGattu 3) Gopi Krishna 4) Murali Sai 5) Naveen Masuram 6) Nikhil Batti 7) PrajyulaPemmaraju 8) ShrutiDutt	Delivered through courier by the donor.
8	1602-17-736-116 RAI VAMSHI KRISHNA	9) Swati Reddy 10) Vindhya Reddy	Delivered through courier by the donor.
9	1602-17-736-316 NEERUDI RAKESH	2015 batch SrujanaKandukuri	
10	1602-17-736-306 SHAIK MUSTAQ AHMED	2016 Batch VenuVardhan Raju Adluru KotiAnjaneyuluVajja Harshini Shah Gaurav Kumar Sirohia RaagniMittukolu Yellamilli Sai Nithin	
11	1602-17-736-091 AJMEERA RAJA		
12	1602-17-736-323 VENUKATALA SANDHYARANI		
13	1602-17-736-015 LIKHITHA KUMMARI		
14	1602-17-736-308 G. BALAMURALI KRISHNA	2009 batch 1. DivyaAthreya 2. Shiva Sai Kiahore 3. Sai Shreshtha 4. Srikanth 5. Rajesh 6. Ruthvic 7. Chakradhar 8. Swathi 9. Gopal 10. Aditya 11. Deepika 12. Namratha 13. Kirthana 14. Sushil 15. Siddharth 16. Priya 17. Kalyan 18. Mahita	Laptops Delivered 
15	1602-17-736-318 TATTARI HARI KRISHNA		



16	1602-17-736-307 Mahesh Kumar	19. Venkatesh 20. Swapnika 21. Ramesh 22. KomalSiddharth 23. Upada 24. Sukumar 25. Ramakanth 26. Sunil 27. Sandeep	
17	1602-17-736-312 BITUKU HARIPRIYA	2012 batch Karthik Sai	
18	1602-17-736-069 D ARCHANA	2009 batch Bandaru Nagendra Sivateja	Delivered
19	1602-17-736-114 Swapna	Alumni	
20	1602-18-736-312 P. Srivani	Alumni	
21	1602-19-736-017 U. Manjunath	Alumni	Delivered
22	1602-19-736-069 J. Grishma	Alumni	

11) Mentor-Mentee Interactions

- Each Faculty member of the department is a mentor to about 20 students of the department.
- As part of the Mentor-Mentee interactions, faculty members interacted with students and parents, frequently, to ensure that the students attended the online classes regularly and were serious about their academics.



Mentor-Mentee Monthly Interaction Report (October 2020)

Name of the Mentor: NB Sambamurthy B.E. V Sem 2020-21

S. No	Roll Number	Student Name	Parent Name	Interaction Details
1	1602-18-736-041	DS Shashank	Sri D Satyanand	Classwork is going on great; Facing problems in a few Class lectures due to band width problems on the faculty side; Voice breaking and freeze in the PPTs at times; Request access to class notes for all the Courses;
2	1602-18-736-042	V Shiva Sai Kumar	Sri. V Ravinder	No issues; Class work is going on well except for the net Problems for a few Faculty;
3	1602-18-736-043	M Shreya	Sri. JitenderReddy	Attending the Classes regularly; No issues; Has to Appear for all the Courses of III Semester; Preparing well for the Supplementary Exams;
4	1602-18-736-044	T Sreekar Sai Pavan	Smt.Bhanu Nirmala	Classes are going on well; No problems in class work; Able to follow and understand all the concepts;
5	1602-18-736-045	M Srikar	Smt. Sridevi	Class work is normally going fine; But due to the cconnection issues at the teachers end We are losing out on time and topics occasionally; Request notes for all the Courses; Online Lab Courses are not as effective as the regular, physical lab classes;
6	1602-18-736-046	B Sumanth	Sri B Shankar	Advised to attend the classes regularly; Preparing for The Supplementary Exams; Has to clear all the I & II Semester Courses as they are critical to continue in the 3 rd year;
7	1602-18-736-047	A Sumith Chandra	Sri A Suraj Kumar	No issues regarding Online Classes; All the classes are going on well; Lab Classes are also going on fine; Facing net work issues in some Courses due to the connectivity problems on the Faculty side; Request for access to the video lectures and the class notes for all the Courses as taking down the running notes is difficult at times;
8	1602-18-736-048	E Suraj Varma	Smt. Jyothi	Attending the classes regularly; No difficulties;
9	1602-18-736-049	Sushma	Smt. Dayama	Classes are going on well; No issues; Advised to prepare well for the Supplementary Exams;
10	1602-18-736-050	N Swarna	Sri N Manga Rao	Everything is going on Well; No issues in the class work;
11	1602-18-736-051	S Tejaswi	Smt Jhansi	Attending the Classes well; No issues; Preparing for the Back log Exams; Advised to give special focus on Engineering Graphics-I Semester subject along with others;
12	1602-18-736-052	M Trinesh	Sri Janardhan	Facing problems in the connectivity; Changed the Network and there are no difficulties now; Classes are going on well;
13	1602-18-736-053	A Uday Kiran	Sri A Srinivas	Attending the classes regularly; No difficulties;
14	1602-18-736-054	M Uday Kiran Reddy	Sri M Sai Reddy	Classes going on well; Advised to clear the backlog exams; No issues;



15	1602-18-736-055	K Vamshi	Sri Rama Rao	Attending the classes regularly; No difficulties; Advised To clear the back log exams;
16	1602-18-736-056	Vijay Rama Rao	Sri P Srinivasa Rao	Everything is fine and there are no issues;
17	1602-18-736-057	Vijay Dev Reddy Ch.	Sri Ch Yugandhar	Experiencing connectivity issues in the Online classes of some Courses at times; Request for the class lecture material for those not provided;
18	1602-18-736-058	B Vikas	Sri B Vittal	Attending the classes regularly; Not facing any difficulties in the ongoing classes;
19	1602-18-736-059	A V Vipin	Smt. Pranathi	Facing a lot of network issues in the lectures of some Courses; Advised to prepare well for the backlog exams with special focus on the I-Sem & II-Sem Courses which are critical;
20	1602-18-736-305	Nikhil Tejkanth	Sri. Srikanth	No difficulties in classwork; Attending regularly; Preparing for the Supplementary Exams;
21	1602-18-736-306	U Sukanya	Sri U Lingaiah	Facing a lot of connectivity issues in attending the Online Classes on account of signal problem in the village; Losing few classes and also attendance due to this; Faced the same problem in submission of quiz exams for some courses;

12) Online Faculty Development Programs Attended by the Faculty

- Faculty members of the department attended online Faculty Development Programs conducted by reputed institutions across India, to update themselves on the latest concepts in their respective areas of interest and specialization.

S. No.	Name of the staff Member, Designation & Dept	Title of the event/ Seminar/ Workshop attended	Date(s) of event and venue
1.	B. Sandeep N.B. Sambamurthy	Online: 2 week course on "Digital Transformation in Teaching Learning Process". TEQIP Online Certification course.	6-22 April 2020 Course offered by IIT Bombay
2	T.Krishna Chaitanya	Faculty Development Program on "Advances in Mechanical Engineering & Manufacturing Processes"	11-13 May 2020 CMRIT, Hyderabad
3.	N.B. Sambamurthy	One day online Workshop on "Fundamentals of Heat Transfer and Fluid Mechanics"	20.05.2020, Chennai Institute of Technology, Chennai
4.	T.Krishna Chaitanya	Online AICTE Recognized Faculty Development Programme on "Recent Advances in Material Characterization"	23-28 May 2020 National Institute of Technical Teachers Training and Research, Chandigarh
5.	T.Krishna Chaitanya	FDP on recent trends in "Quality Control & Testing of Weldments"	26-27 May 2020 GIET, Rajamahendravaram, AP
6.	K.I. Spurgeon	5 days online FDP on "Innovative Trends in Data Analysis with AI"	26-30 May 2020 Malineni Lakshmaiah Women's Engineering College, Guntur
7.	T.Krishna Chaitanya	One week online International Faculty Development Programme on Research Challenges in Mechanical Engineering	22-27 June 2020 Sri Venkateswara College of Engineering and Technology, Tirupathi
8.	T.Krishna Chaitanya	One week online FDP on "Optimization techniques & tools for mechanical engineers"	22-27 June 2020 SNIST, Hyderabad



9.	Dr. P.V. Gopal Krishna	One week online FDP on "Optimization Techniques and Tools for Mechanical Engineers"	22-27 June 2020 SNIST, Hyderabad
10.	Dr. P.V. S. Subhashini	One week online FDP on "Optimization Techniques and Tools for Mechanical Engineers"	22-27 June 2020 SNIST, Hyderabad
11.	Dr. P. Venkateswara Rao	One week online FDP on "Optimization Techniques and Tools for Mechanical Engineers"	22-27 June 2020 SNIST, Hyderabad
12.	Dr. P.V.S. Subhashini	One week online FDP on "Optimization Techniques and Tools for Mechanical Engineers"	22-27 June 2020 SNIST, Hyderabad
13.	Dr. J. Anjaneyulu	One week online FDP on "Disruptive Technologies in Mechanical Engineering"	8-13 June 2020 SNIST, Hyderabad
14.	K.I. Spurgeon	Online FDP on "Applications of CAD Tools in Drawing Courses".	9-16 June 2020 Geetanjali College of Engineering and Technology, Cheeriyal (V), Keesara (M), RR Dist.
15.	N.B. Sambamurthy	One week online certification course on "Digital Teaching Techniques"	29 June to 4 July 2020 ICT Academy
16.	Dr. P.V. Gopal Krishna	One week online FDP on "Lost foam castings (LFC-2020)".	20-25 July 2020 Department of Mechanical Engineering, Sree Chaitanya College of Engineering, Karimnagar, TS
17.	Dr. S. Venkataiah	3-day online Webinar on "Advances in Thermal Sciences and Fluid Flows"	24-26 July 2020 Department of Mechanical Engineering, MVSREC
18.	Dr. P. Venkateswara Rao	One Day Online Webinar on "A Practical Approach on Industry 4.0 & its Implementation in Smart Factories" in association with MTAB Technology Centre, Chennai.	26.07.2020 MGIT, Hyderabad
19.	Dr. J. Anjaneyulu	One Day Online Webinar on "A Practical Approach on Industry 4.0 & its Implementation in Smart Factories" in association with MTAB Technology Centre, Chennai.	26.07.2020 MGIT, Hyderabad
20.	Dr. J. Anjaneyulu	10 Hours of FDP on "Product Simulation using Fusion 360 (Online Live FDP)"	27-31 July 2020 ICT ACADEMY
21.	Dr. J. Anjaneyulu	One week FDP on "Latest advancements in Mechanical Engineering (LAME-2020)"	13-17 July 2020 CMRIT, Hyderabad
22.	B.N. Manohar	AICTE Sponsored Online Short-Term Training Programme (STTP) on "Advances in Finite Element Method for Industry & Research Applications".	3-8 August 2020 CED, VCE
23.	Dr. P. Venkateswara Rao Dr. P.V. Gopal Krishna Mr. K. Veladri Dr. J. Anjaneyulu Mr. B. Sandeep M. Venugopal Reddy	One week FDP on "Innovative Product Design, Precision Engineering and Optimization (IPDPEO-2020)"	10-14 August 2020 MED, VCE
24.	Dr. S. Venkataiah Dr. P. Venkateswara Rao Dr. P.V. Gopal Krishna Mr. K. Veladri Dr. J. Anjaneyulu Mr. M. Sudhakar	One week online faculty development program on "Recent trends in turbo machines (RTTM-2020).".	14 th to 19 th September 2020 MED, VCE
25.	Dr. S. Venkataiah	National Level Webinar on "Practical Implementation of Industry 4.0" by Dr. N. Arunachalam, Associate Professor, MED, IITM	2.09.2020 MED, VCE
26.	Dr. T. Ramamohan Rao	One week Online FDP on Outcome Based Education and Accreditation	5-9 Oct. 2020 ISTE & JNTUH
27.	Dr. P. Venkateswara Rao	Lecture on "Turbulence Modelling" for the FDP "Seismic and Wind Loads on Buildings and Applications of ETABS and ANSYS Fluent".	26.12.2020 CED, CBIT

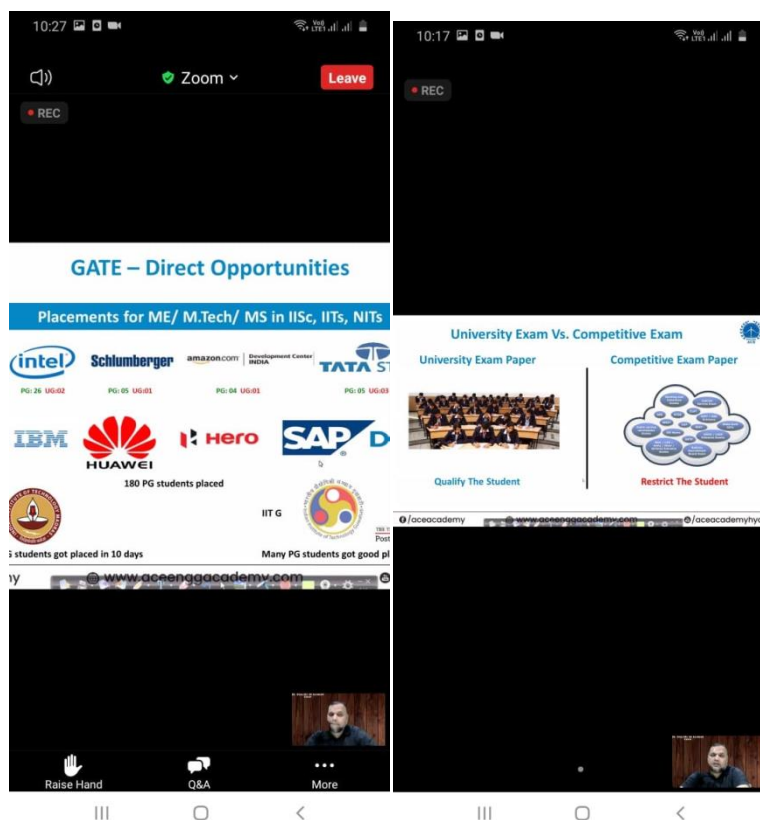
13) Online BoS meeting



- The Board of Studies (BoS) meeting for the academic year 2020-2021 was conducted online on 29-07-2020, from 3:00PM onwards using the Zoom platform.
- Subject experts from Osmania University, JNTUH, IIT Hyderabad, BITS Hyderabad, industry expert and alumnus of the department attended the meeting.
- Subject experts discussed about curricular aspects of the department and gave their valuable suggestions.

14) Online Career Counseling sessions

- Career Guidance sessions were conducted for the III and V Semester(2020-2021) students. The session were conducted in the following areas :
 - Post Graduation in India and Abroad
 - GATE examination coaching, prospects in PSUs and admissions in higher education institutes of repute
 - Job opportunities in IT
 - Prospects and preparation for job opportunities in IT product companies
 - Prospects and preparation for MBA



***Career Counseling session on Higher Studies Opportunities through GATE examination**