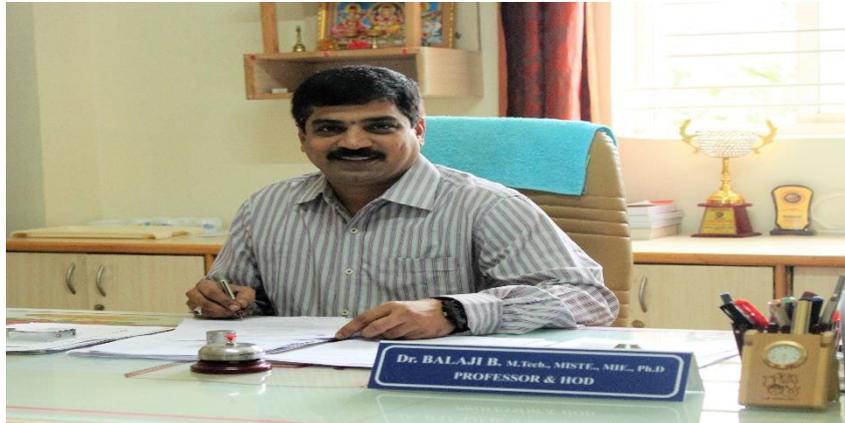


NEWS LETTER_MECHANICAL ENGINEERING_2019-20

About the Department



Mechanical Engineering Department at KSSEM activated with the initiation of the college in 2010 with a vision to deliver world-class under-graduate and graduate Engineering education to the society. The curriculum includes the courses like Thermodynamics, Fluid Mechanics, Strength of Materials, Heat Transfer, Manufacturing Processes, Mechanical and Thermal Design, Finite Element Analysis, and System Dynamics. Students also acquire knowledge through various engineering electives in advanced topics including, Theory of Elasticity, Non-Traditional Machining, Composite materials, Theory of Plasticity, Experimental Stress Analysis, Tool Design, and Agile Manufacturing. The structure of the program includes laboratory experiments with respect to the academic syllabus where students go through a live experience with advanced machining, manufacturing, and experimental techniques. The laboratory experience reinforces content presented in the courses and provides students with an opportunity to involve themselves individually with the support of faculty and technical support staff. The acquaintance of the students along with an exposure to industrial scenario is achieved by periodically organizing Conferences, Workshops, Seminars and Industrial visits. The faculty members have proved their competences by guiding students with live projects that were sponsored by Research Institutes. The Research and Development in the Department is well backed by research work done by faculty research scholars in coordination with Principal, Dr. K Ramanarasimha and Head of Department, Dr. B Balaji.

Department Activities

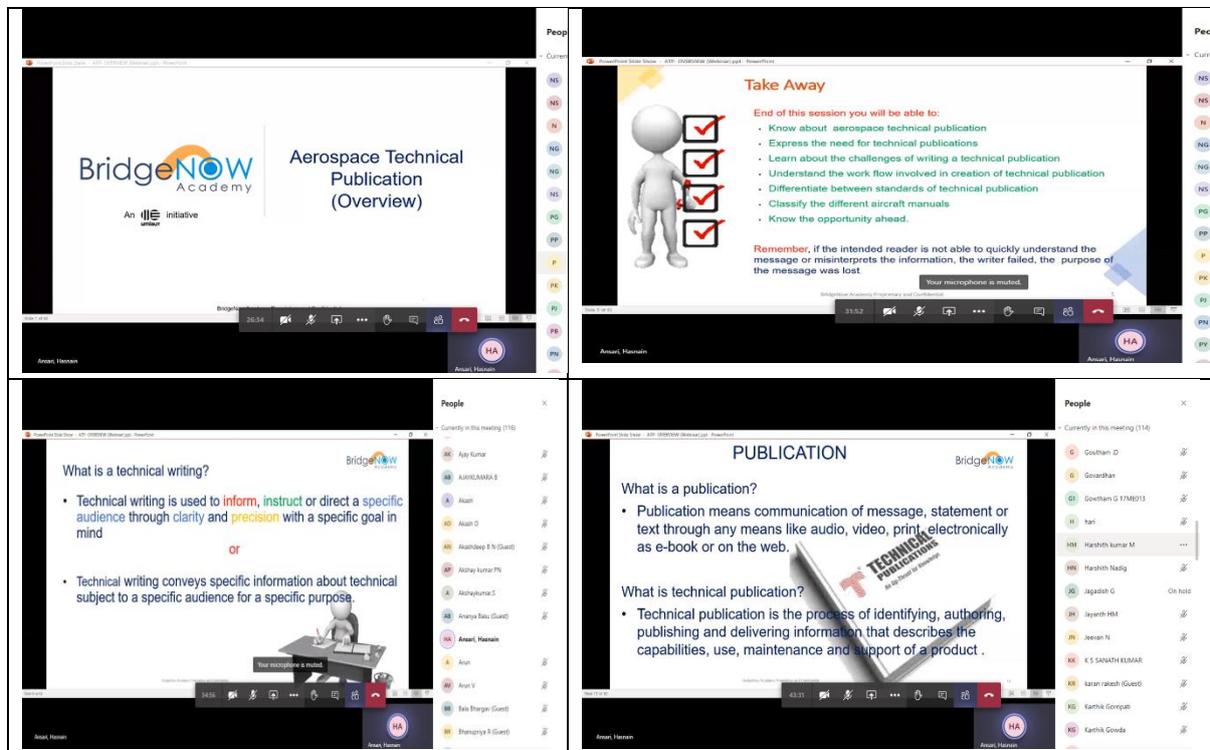
Webinar on ‘Aerospace Technical Publication Overview’.

Date of Webinar: **10 June 2020 (Wednesday)**

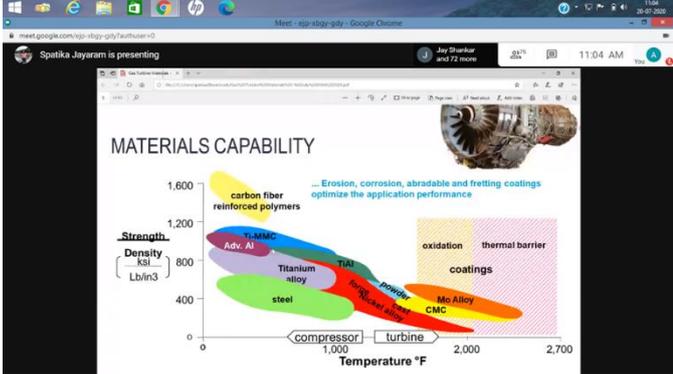
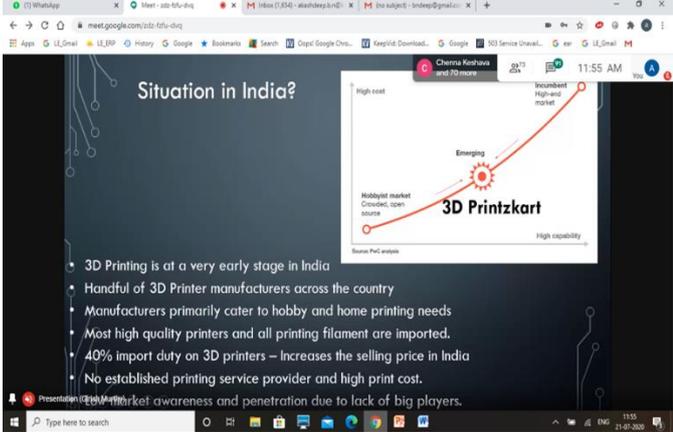
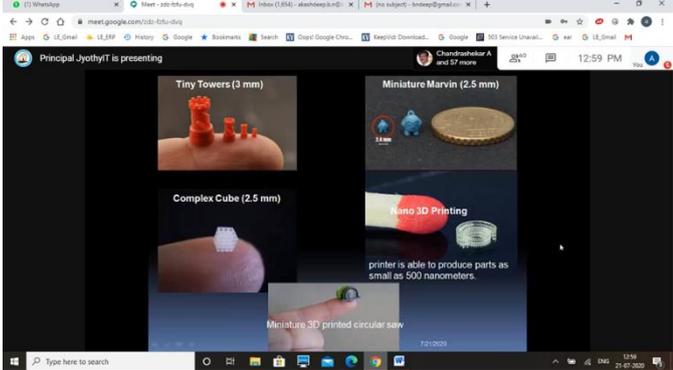
Platform for the Webinar: [Join Microsoft Teams Meeting](#)

Time of Webinar: **11:00 am (IST)**

Bridge now academy in Association with Mechanical Engineering Department of K.S. School of Engineering and Management had come forward to organize a webinar on “An Overview of Aerospace Technical Publications” . This webinar was conducted on 10th of June 2020 from 11:00 am to 12:00 pm. The incumbents of this webinar were the Final year, Pre-final year and Second year students of Mechanical Engineering and Electrical and Electronics Engineering Branches. The webinar motivated our students to select ‘content writing’ as one of their professions. This webinar was successful in imparting the key essentialities to the incumbents on technical content writing. It also was successful in spreading light on the work flow involved in the creation of simple and easily understandable technical Documents that are involved in the maintenance of not only Air craft but also automobile and other OEM’s.



Five-day FDP on Advances & Research in Mechanical Engineering
20th – 24th July 2020

DAY	SPEAKER & TOPIC	PHOTO
1	<p>Speaker: Dr. Deepa Srinivasan Topic: Advancement in Materials Technologies Date: 20/7/2020 Time: 10.30 AM to 12.30 AM Session link: https://meet.google.com/ejp-xbgv-gdy</p>	 <p>The slide shows a graph of Strength (ksi and Lb/in³) versus Temperature (°F). The y-axis ranges from 0 to 1,600 ksi, and the x-axis ranges from 0 to 2,700 °F. Materials plotted include carbon fiber reinforced polymers, Adv. Al, Titanium alloy, steel, Inconel, TiAl, Kovar, and Inconel CMC. Annotations include 'Erosion, corrosion, abrasion and fretting coatings optimize the application performance' and 'oxidation thermal barrier coatings'. A turbine engine is shown in the top right corner.</p>
2	<p>Speaker: Mr. Girish S Murthy Session:1 Topic: Trends and Recent Developments in Additive Manufacturing Date: 21/7/2020 Time: 10.30 AM to 12.30 AM) Session link: https://meet.google.com/zdz-fzfu-dvq</p>	 <p>The slide is titled 'Situation in India?' and features a graph showing market growth from 'Hobbyist market' to 'High cost' and 'High capacity'. A red arrow points upwards, labeled 'Emerging' and '3D Printzart'. Text on the slide includes: '3D Printing is at a very early stage in India', 'Handful of 3D Printer manufacturers across the country', 'Manufacturers primarily cater to hobby and home printing needs', 'Most high quality printers and all printing filament are imported.', '40% import duty on 3D printers – Increases the selling price in India', and 'No established printing service provider and high print cost.' It also mentions 'Market awareness and penetration due to lack of big players.'</p>
2	<p>Speaker: Dr. Gopalakrishna Keshava Narayana Session :2 Topic: Research Opportunities in Multidisciplinary/Emerging Technologies Date: 21/7/2020 Time: 12.30 PM to 1.45 PM Session link: https://meet.google.com/zdz-fzfu-dvq</p>	 <p>The slide displays four images of 3D printed parts: 'Tiny Towers (3 mm)', 'Miniature Marvin (2.5 mm)', 'Complex Cube (2.5 mm)', and 'Nano 3D Printing'. A text box states: 'printer is able to produce parts as small as 500 nanometers.' Another image shows a 'Miniature 3D printed circular saw'.</p>

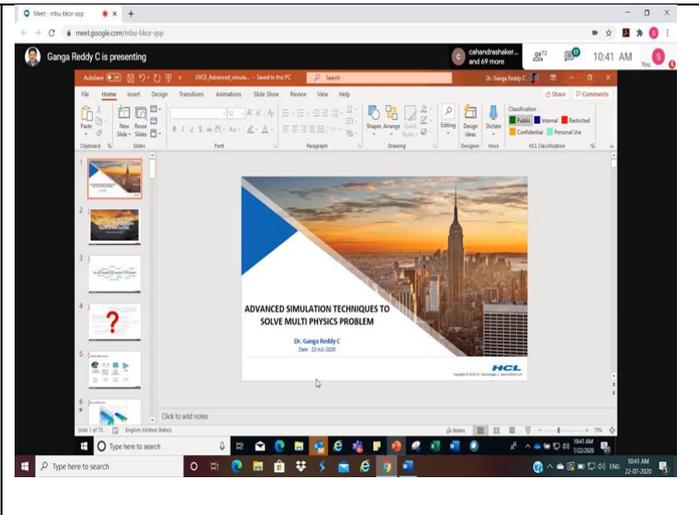
Speaker: Dr. Ganga Reddy C

Topic: Advanced and System level Co-Simulation

Date: 22/7/2020

Time: 10.30 AM to 12.30 PM

Session link:
<https://meet.google.com/mbu-bkor-qps>



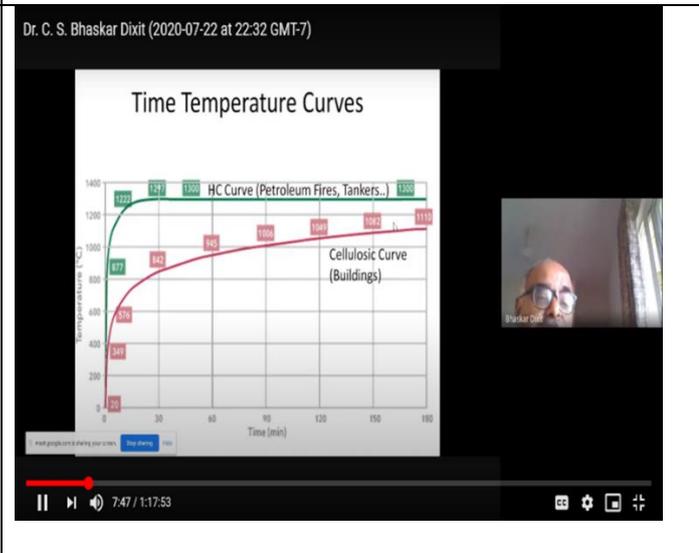
Speaker: Dr. C. S. Bhaskar Dixit

Topic: Relevance and Recent advances in Fire Suppression systems

Date: 23/7/2020

Time: 10.30 AM to 12.30 PM

Session link:
<https://meet.google.com/ebs-hrgc-uxv>



Session 1

Speaker: Dr. Charitha M Rao

Topic: Use of ANOVA in Research

Date: 24/7/2020

Time: 10.30 AM to 12.00 PM

Session link:
<https://meet.google.com/emf-eznx-ksy>

FORMULAE USED IN ANOVA

source	Df	SS	MSS	F
Between	$df_b = k - 1$	$SSB = \sum n_j (\bar{x}_j - \bar{x})^2$	$MSB = SSB / df_b$	$F = MSB / MSW$
Within	$df_w = n - k$	$SSW = \sum \sum (x_{ij} - \bar{x}_j)^2$	$MSW = SSW / df_w$	
Total	$df_t = n - 1$	$SST = SSB + SSW = \sum \sum (x_{ij} - \bar{x})^2$		

5	<p>Session 2</p> <p>Speaker: Dr. Vijayalakshmi Akella</p> <p>Topic: How to write Research Proposal</p> <p>Date: 24/7/2020</p> <p>Time: 10.30 AM to 12.00 PM</p> <p>Session link: https://meet.google.com/emf-eznx-ksy</p>	
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FUNDED PROJECTS

SL NO.	NAME OF THE FACULTY	KSCST 42 ND SERIES PROJECTS
1	Dr. K RAMANARASIMHA & Mr. NISHANTH NAG	A project on Optimization and synthesis of Nano catalyst and performance evaluation in di-diesel engine for different blend ratios has been selected with initial funding of Rs 6000
2	Dr. J PRASHANTH	A project on Design and fabrication of a device for post- operative knee joint recuperation has been selected with initial funding of Rs 6000

Faculty Achievers

SL NO.	NAME OF THE FACULTY	PHOTO	ACHIEVEMENTS
1	Dr. JYOTHI P N		100 % RESULT IN PROJECT MANAGEMNT (17ME564)
2	Mr. HARSHA.J		100 % RESULT IN NON-TRADITIONAL MACHINING (17ME554)
3	Mr. AKASHDEEP B N		100 % RESULT IN TRIBOLOGY (17ME742)

4	Mrs. AVILASHA B G		100 % RESULT IN MECHATRONICS (15ME753)
5	Mr. PRABHU K S		100 % RESULT IN ENERGY ENGINEERING (17ME71)
7	Mr. NISHANTH NAG		100 % RESULT IN ENERGY & ENVIRONMENT (17ME562)
8	Prof. NAGARAJ M		100 % RESULT IN MANAGEMENT & ENTREPRENEURSHIP (17ME51)

Short Term Training Programming @ IIT - MADRAS

Mr. Vinod A and Mr. Nishanth Nag H D, from Department of Mechanical Engineering had attended the QIP STTP on "Air Delivery Systems and Indoor Environment Quality" from 02/03/2020 to 07/03/2020. Conducted by CCE IIT Madras organized by the Departments of Mechanical and Civil Engineering.



Student Achievers

Class Toppers

SEMESTER	CLASS TOPPER	PHOTOS	NAME	USN	%
I	1		PRADEED A	1KG19ME016	85
	2		SHRAVAN N P	1KG19ME018	81
II	1		PRADEED A	1KG19ME016	88
	2		SHRAVAN N P	1KG19ME018	87
III	1		DHEERAJ P	1KG19ME403	72
	2		PAWAN PATIL	1KG18ME009	71
IV	1		MAHESH K M	1KG19ME406	71

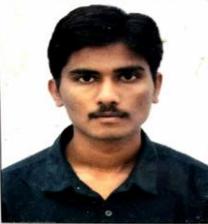
	2		PAWAN PATIL	1KG18ME009	81
V	1		R YASHWANTH	1KG17ME025	82
	2		PRAVEEN N	1KG17ME024	81
VI	1		PRAVEEN N	1KG17ME024	87
	2		R YASHWANTH	1KG17ME025	86
VII	1		SYED SHOAIBUL HUSSAIN	1KG16ME058	85
	2		MAHESH SHIVALINGA GAVADA	1KG16ME057	84
VIII	1		NITHYA M S	1KG16ME028	92

	2		PRATHEEK BABU J	1KG16ME032	91
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STUDENTS WHO GOT PLACEMENT

SL NO.	PHOTO	NAME & USN	COMPANY
1		AJAYKUMARA B	<ul style="list-style-type: none"> • ELEATION (INTERNSHIP & PLACEMENT) • GREEN WINDOW
2		AKSHAY V	ELEATION (INTERNSHIP & PLACEMENT)
3		PRATHEEK BABU J	<ul style="list-style-type: none"> • ELEATION (INTERNSHIP & PLACEMENT) • YOUNG MAN INDIA PVT LTD • ADVENT GLOBAL
4		K S SANATH KUMAR	ELEATION (INTERNSHIP & PLACEMENT)
5		ADITYA RANGASWAMY	<ul style="list-style-type: none"> • VERZEO (INTERNSHIP & PLACEMENT) • YOUNG MAN INDIA PVT LTD
6		DILLI BABU M S	VERZEO (INTERNSHIP & PLACEMENT)
7		AKASH D	<ul style="list-style-type: none"> • YOUNG MAN INDIA PVT LTD • 24[7].AI

8		GOWTHAM S	YOUNG MAN INDIA PVT LTD
9		CHANDRA SHEKAR M M	<ul style="list-style-type: none"> • YOUNG MAN INDIA PVT LTD • ADVENT GLOBAL
10		SACHETHANA S MANJA	YOUNG MAN INDIA PVT LTD
11		BHARGAV N	YOUNG MAN INDIA PVT LTD & 24[7].AI
12		SUDARSHANA K G	GREEN VIEW WINDOW
13		RITIK SINGH	GREEN VIEW WINDOW
14		SURESH	GREEN VIEW WINDOW
15		KARTHIK K J	GREEN VIEW WINDOW

16		SANJAY N	GREEN VIEW WINDOW
17		UMESH A	GREEN VIEW WINDOW
18		RAJU GADIGEPPA HANCHINAL	GREEN VIEW WINDOW
19		TEJAS RAJ G	HUDL
20		MAHESH SHIVALINGA GAVDA	HUDL
21		GOWTHAM G	HUDL
22		SYED SHOAIBUL HUSSAIN	HUDL
23		KUSHAL K SHETTY	HUDL