

**Department of Mechanical Engineering**

Date:1-12-2022

**CIRCULAR**

It is here by informed to all the students of III-I B. Tech Mechanical engineering that GUEST LECTURE on "RECENT DEVALOPMENT ON MACHINE DESIGN" will be held on 3<sup>rd</sup> December 2022.

  
COORDINATOR

  
HOD

  
DEAN ACADEMICS

  
PRINCIPAL

DEPARTMENT OF MECHANICAL ENGINEERING  
NOMINAL LIST :2022-23 (ODD SEM)  
III B.Tech. M. E. (2020 BATCH)

Roll Number	Name of the Candidate	Signature
20ME1A0303	ATHUKURI VENKATESWARA RAO	Venkat Rao
20ME1A0304	BHUPATHIRAJU NAGA VENKATA RAJU	B. Naga Venkata Raju
20ME1A0305	BUDIDHA LOKESH	B. Lokesh
20ME1A0306	BURAPU BUVAN KUMAR	B. Buvan Kumar
20ME1A0307	CHEDUGUNDI DURGA PRASAD	Ch. Durga Prasad
20ME1A0308	CHERUKURI RICHU PRAKASH	Ch. Richu Prakash
20ME1A0309	DAYALA AJAY KUMAR	D. Ajay Kumar
20ME1A0310	GOLLA VARA PRASAD	G. Varaprasad
20ME1A0311	GORIPARTHI ANU VENKATA NAGA RAJU	G.V. Naga Raju
20ME1A0312	GULLA RAMBABU	G. Rambabu
20ME1A0313	GUNDA SAI	G. Sai
20ME1A0314	GUNDAPANENI NARASIMHA	G. Narasimha
20ME1A0316	KADIYALA BHANU PRASAD	K. Bhanu Prasad
20ME1A0317	KATTA SRI HARSHA	Katti Sri Harsha
20ME1A0318	KATRAPATY V N J RADHANGAPANI	K. V. N. J. Radhangapani
20ME1A0319	KOTHAPALLI YASWANTH SAI	K. Yaswanth Sai
20ME1A0320	KOTHURI SURESH KUMAR	K. Suresh Kumar
20ME1A0321	MALAGALAPALLI NARENDRA	M. Narendra
20ME1A0322	TIRUPATI SATYA RAJESH	T. Satya Rajesh
20ME1A0324	MEDIBOINA YUGANDHAR	M. Yugandhar
20ME1A0325	MEKALA SRINIVAS	M. Srinivas
20ME1A0326	MERAPALA MOHAN VENKATA KUMAR	M. Mohan Venkata Kumar
20ME1A0327	MOGASALA GOWTHAM VENKATA PHANINDRA SAI	M.G.V.P. Sai
20ME1A0328	MOKKAPATI VASU	M. Vasu
20ME1A0329	MUNAGANTI RAJA	M. Raja
20ME1A0330	NALLIBOYINA YESU RAJU	N. Yesu Raju
20ME1A0332	NANDA SAI CHARAN	N. Sai Charan
20ME1A0333	NELLI VENKATA SRI DATTA SAI KARTHIK	N. Venkata Sri Datta Sai Karthik
20ME1A0335	PAIDI KRISHNA VAMSI	P. Krishna Vamsi
20ME1A0336	PALANGI RAJESH	P. Rajesh
20ME1A0338	PAMIREDDY SAI SEKHAR REDDY	P. Sekhar Reddy
20ME1A0340	POLE JASHUVA	P. Jashuva
20ME1A0342	SALI HEMANTH	S. Hemanth
20ME1A0343	SHAIK ARIF	Shaik Arif
20ME1A0344	SHAIK IMRAN BASHA	Shaik Imran Basha
20ME1A0345	SHAIK SHAFIQ	Shaik Shafiq
20ME1A0346	TAGARAM VIJAY KUMAR	T. Vijay Kumar
20ME1A0347	TALARI SAI MANIKANTA	T. Sai Manikanta
20ME1A0348	TANGELLA VENKATA NAGA MANI KUMAR	T. Venkata Naga Mani Kumar
20ME1A0349	TEETLA CHANDU	T. Chandu
20ME1A0350	YALLAM MAHENDRA	Y. Mahendra





# RAMACHANDRA

## COLLEGE OF ENGINEERING

Plot No. 1, Bypass Road, Matluru (V), Eluru-534007, W.G Dt., A.P.

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Accredited by NBA (Aut. 101, 150)  
ISO 9001 : 2015 Certified

39	20ME1A0348	TANGELLA VENKATA NAGA MANI KUMAR	
40	20ME1A0349	TEETLA CHANDU	T. CHANDE
41	20ME1A0350	YALLAM MAHENDRA	Y. MAHENDRA
42	20ME1A0351	THANGELLA JITHENDRA	T. JITHENDRA
43	20ME1A0353	UNDAVALLI YASWANTHI VENKAT KUMAR	Yaswanthi
44	20ME1A0354	VELUPURI VENKATA KRISHNA MOHAN	moham
45	20ME1A0355	NALLURI SRINIVAS	srinivas
46	20ME1A0356	YARLAGADDA LOKESH KUMAR GOWD	Lokesh
47	20ME1A0358	SIRUGUDI KISHORE	S. KISHORE
48	20ME1A0359	TONDEPU SAI VAMSI KRISHNA	Sai Vamsi
49	20ME1A0360	YERRAMSETTI DHANUSH	Dhanush
50	21ME5A0301	CHOUTAPALLI NAGA LINGESWARA RAO	Lingeswara Rao
51	21ME5A0302	DARLA NAGA VENKATA ARAVIND	D. N. V. Aravind
52	21ME5A0303	KONATHAM NAGA VENKATA SURESH KUMAR	K. N. Suresh
53	21ME5A0304	KOSURI CHARAN	K. Charan
54	21ME5A0305	PERUBOYINA NAGA VENKATA NARENDRA BABU	Narendra Babu
55	21ME5A0306	PALAPARTHI PRABHU KEERTHIN	P. Prabhu Keerthin
56	21ME5A0307	KAKI SANDEEP	K. Sandeep
57	21ME5A0308	YADLAPALLI PAVAN KUMAR	Pavan
58	20ME5A0306	GHANTASALA SAI SAMBA SIVA RAO	Absent
59	20ME5A0308	GUDIKANDULA SYAMALARAO	Absent

Coordinators

HOD

## GUEST LECTURE

### POST PROGRAMME REPORT (PPR)

1. Program Location : Ramachandra College of Engineering, Eluru.
2. Program date : 03/12/2022
3. Name of the Program : RECENT DEVELOPMENTS ON MACHINE DESIGN
3. Name of the Coordinators : Mr. J SRIKANTH
4. No. of Candidates attended the Program : 58
6. List of Participants : Annexure – I (attached)
7. Program Schedule : Annexure – II (attached)
8. Photographs of the Program : Annexure – III (attached)

  
Coordinators

  
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**COLLEGE OF ENGINEERING**

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ANNEXURE – II

PROGRAMME SCHEDULE

Date & Day	Session	Subject / Topic
1	2	3
02-12-2022	I 9:30-12:00	INTRODUCTION ON MACHINE DESIGN
	II 02:00-04:30	RECENT DEVELOPMENTS ON MACHINE DESIGN





### Details of Program

According to proposed plan, mechanical department of RCE organized GUEST LECTURE on “RECENT DEVELOPMENTS ON MACHINE DESIGN” which was held on Friday & Saturday, December 03, 2022 for the Mechanical students of B tech III<sup>rd</sup> year. The Theme was

Mechanical systems require an early design phase of machine development. Mechanical design helps companies develop systems, solve problems and test prototypes to ensure they create quality machines. Understanding more about mechanical design and the different types of design companies employ can help you determine whether this is the right career field for you. In this article, we define mechanical design, review different types of design and examine various skills that mechanical designers often have

Techniques for electrical machines design and optimization;

- FEM, BEM, and analytical methods;
- Multiphysics coupled simulation and optimization;
- Electromagnetic, thermal, and mechanical simulations;
- Application of new magnetic materials and soft magnetic materials;
- Novel machine configurations and topologies;
- Electrical machine design for aircraft and automotive applications;
- Alternatives for rare-earth electrical machines.

## Basic Requirement of Machine Elements

- Strength and Rigidity
- Wear Resistance
- Minimum Dimensions & Weight Manufacturability
- Safety Conformance to standards
  
- Toughness: Ability to absorb energy before fracture takes place
- Malleability: Ability to deform to a greater extent before the sign of crack, when it is subjected to compressive force  
Ductility: Ability to deform to a greater extent before the sign of crack, when subjected to tensile force
- Brittleness: Property of the material which shows negligible plastic deformation fracture takes place
- Hardness: Resistance to penetration or permanent deformation



ANNEXURE – III  
Photographs of the Program

Guest Lecture  
ON  
Recent Developments  
of Machine Design

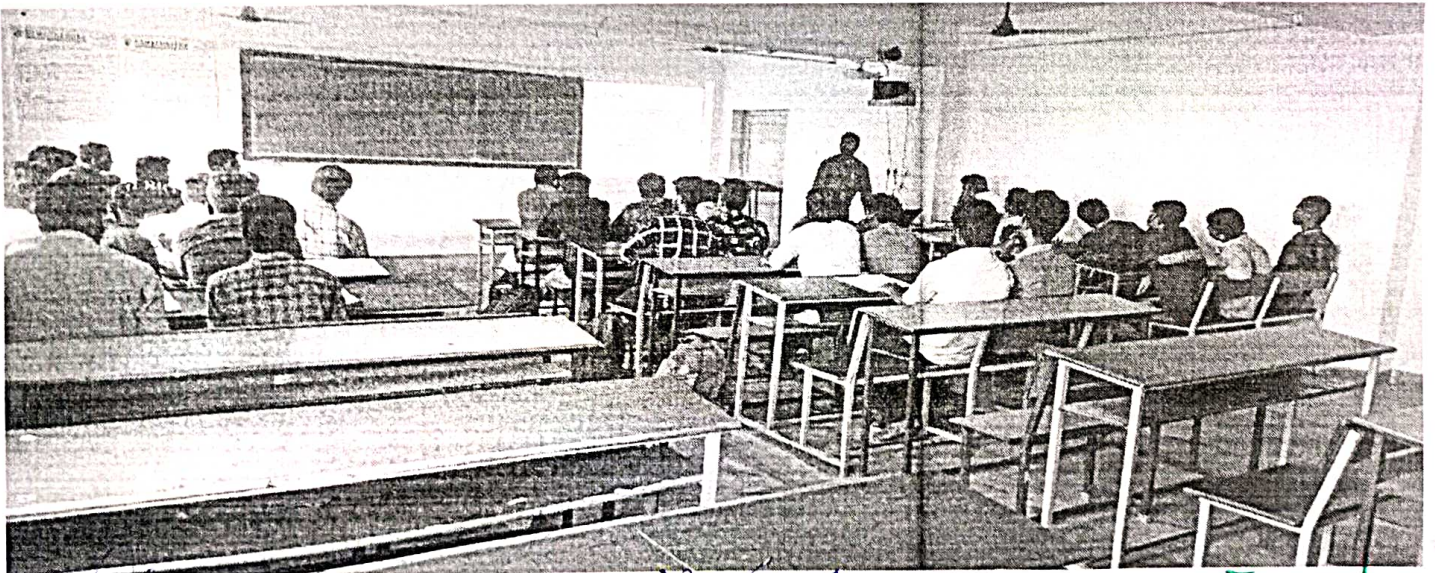
Resourse Person

**Mr.G.Suresh**

Date : 03-12-2022

Coordinator : Mr.J Srikanth

**Department of Mechanical Engineering**



CO-ORDINATOR

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PRINCIPAL