



# Sri Venkateshwara College of Engineering

**Mechanical Department**

**LECTURE**

**BY**

**Dr. Gaurav Singh**

## INTRODUCTION:

On 3<sup>rd</sup> November 2023, The Society of Mechanical engineering with Training and placement cell of Sri Venkateswara College of Engineering has conducted a guest lecture on “Current trends In Mechanical And Robotics”. SME is a multidisciplinary technical club that aims to provide several opportunities to the student community of SVCE which include workshops, webinars, events for enrichment of skills & holistic development, helping them in an all-around profile development and enabling them to be future-ready engineers.

The programme was scheduled for 11:00 AM in the library seminar Hall. Nearly 100 students from the 2<sup>nd</sup> year of mechanical department were present at this auspicious occasion.

The programme started off with a melodious prayer song to seek the blessings of the Almighty. Then one of office bearer of SME , Ms.Chealoka. A delivered her welcome speech, followed by office bearers Mr. Havinesh,M , Mr. Sai Santhosh,J and introduced the chief guest



## ABOUT CHIEF GUEST:

The chief guest of the programme was Dr. Gaurav Singh, Assistant Professor –dept of mechanical, robotics and industrial engineering, Lawrence Technological University New Haven, Connecticut, United States.

Dr. Gaurav Singh is a postdoctoral researcher with interest and expertise in kinematics and mechanisms, soft robotics, structural analysis, and design optimization. Expertise in solving novel and challenging problems, especially on designing and fabricating devices. He has experience in teaching undergraduate courses on machine design, structural analysis, and material testing. His skillsets includes mechanical design including CAD and additive manufacturing techniques; experience in both writing Finite Element Analysis (FEA) solvers and using commercial FEA packages; structural and design optimization methods; design, characterization, and analysis of soft materials and actuators with a focus on soft robotics applications.



## MECHATRONICS & ROBOTICS:

Our honorable Chief Guest, Dr. Gaurav Singh interacted with the students and shared his in-depth knowledge about the various trends on mechanical & robotics. He discussed how several graduate programs, namely Mechanical, Electrical, Computer Science come together in the program called Mechatronics & robotics and other programs like Automotive, Mechanical, Industrial engineering. Further he explained about various latest laboratories available at Lawrence Technological University. Also added about their inspiring researches like soft robotics, shape morphing and various students projects Formula SAE, SAE Aero design, Baja SAE , IGVC.,



Talked about laboratories related to Mechatronics and Robotics

- ✓ Aerodynamics Lab
- ✓ Alternative Energy Lab
- ✓ Fabrication Lab

- ✓ Formula Electric
- ✓ Formula SAE
- ✓ Industrial Engineering Lab



#### CONCLUSION:

The ceremony ended with Vote of Thanks by one of our office bearer  
Mr. Naren Harsha.V .

It was an immense pleasure to interact with Dr. Gaurav Singh  
who holds vast expertise in his field.





**SVCE** | Sri Venkateswara  
College of  
Engineering



**DEPARTMENT OF  
MECHANICAL ENGINEERING**

SOCIETY OF MECHANICAL ENGINEERS

&

TRAINING AND PLACEMENT CELL

*We would like to invite you to the  
Guest Lecture on*

**CURRENT TRENDS IN MECHANICAL AND ROBOTICS**



**Dr. GAURAV SINGH**

Assistant Professor  
Department of mechanical,robotics and  
Industrial engineering  
Lawrence Technological University  
New Haven,Connecticut, United States.

CONVENOR

Dr.S.Ramesh Babu  
Prof & Head Of Department  
Mechanical Engineering

ORGANISING SECRETARY

Prof.S.Muraleedharan, MS,MBA  
Chief Placement Officer

COORDINATORS

Mr.R.Kaliyanasunder,Asst Prof  
Dr.S.Arumugam ,Asst Prof

STUDENT COORDINATORS

Mr.R.V. Saikumar President  
Mr.R.Aditya Vice-President

DATE-03 NOV 2023

TIME-11 AM (IST)



**VENUE : LIBRARY SEMINAR HALL**