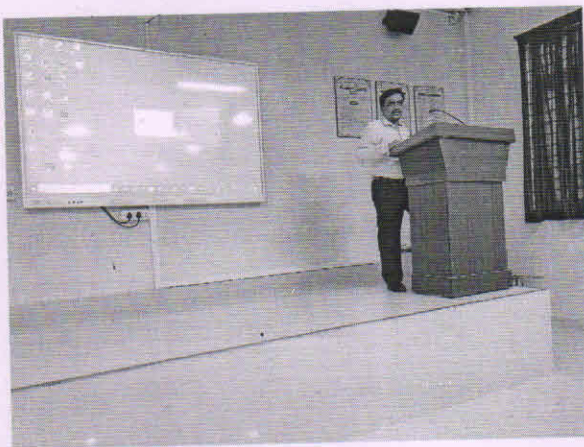


Date: 04<sup>th</sup> May, 2023

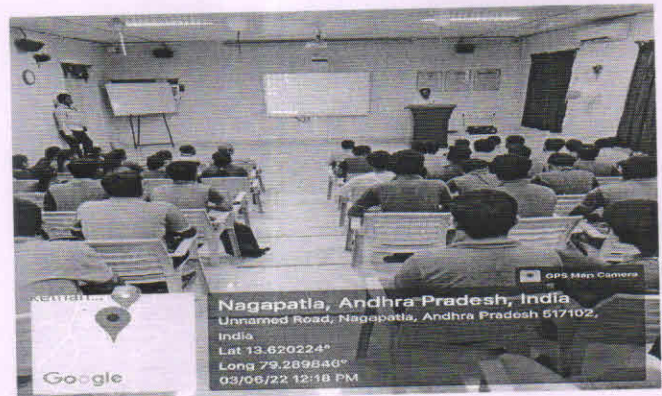
**A Guest Lecture  
on  
"Advances in Manufacturing"**

The guest lecture on "Advances in Manufacturing" was conducted at SVU College of Engineering, Tirupati, featuring Dr. P. Venkataramaiah, a distinguished professor from the Department of Mechanical Engineering. The lecture aimed to provide insights into the latest developments and trends in the field of manufacturing, shedding light on the transformative advancements that are shaping the industry.

Dr. P Venkataramaiah began by elucidating the profound impact of Industry 4.0, highlighting the convergence of automation, data analytics, and IoT in driving the evolution of smart manufacturing. The discourse seamlessly transitioned to the realm of additive manufacturing, underscoring its revolutionary potential in enabling intricate design geometries, rapid prototyping, and material efficiency. Emphasis was also placed on the role of advanced materials and nanotechnology in elevating product performance and durability.



**Dr. P Venkataramaiah delivering the lecture**



**Students listening to lecture**

Dr. Venkataramaiah highlighted the pivotal role of robotics and automation in streamlining production and improving precision. The lecture emphasized sustainable manufacturing, stressing eco-friendly methods for environmental preservation. Additionally, the concept of digital twins was introduced, emphasizing real-time analysis, predictive modeling, and process optimization.



The lecture culminated in a vibrant interactive session, where attendees engaged in a stimulating exchange of ideas, seeking insights into challenges, benefits, and ethical considerations associated with the ongoing manufacturing revolution. Dr. P. Venkataramaiah's lecture profoundly enriched the audience's understanding of the dynamic advancements unfolding in the manufacturing landscape, inspiring them to explore and contribute to this ever-evolving field.

More than 70 students participated in the guest lecture and gained awareness on *Career development in Mechanical Engineering*.

**HOD**



(Dr. R. Satya Meher)

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