

Courses Offered	
Programme at UG Level: ➤ B. Tech (Mechanical Engineering)	Programmes at PG Level: ➤ M. Tech (Industrial Engineering) ➤ M. Tech (Production Engineering)
Laboratories in the Department	
➤ Machine Tools & Automation Lab	➤ Manufacturing Process Lab
➤ Heat transfer Lab	➤ MAT LAB
➤ Fuels & IC Engines Lab	➤ CAD Lab
➤ Production Engineering Lab	➤ CAM Lab
➤ Industrial Engineering Lab	➤ Simulation Lab
Ph.D.'s Awarded : 14	Post doctorals : 01
Fellowships - Staff, Students : 04	Conferences/Seminars/Workshops/Webinars : 03
Extension out reach activities conducted by department - date /year activity name, with photograph.	
Swachh Bharat : 2019 - 2020	NSS : 2021 -2022
Blood Donation : 2021 -2022	Social Service : 2011 to Till DATE



Sri Venkateswara University, Tirupati

DEPARTMENT OF MECHANICAL ENGINEERING



VISION

- To be a globally renowned center for quality education and innovative research in Mechanical Engineering.

MISSION

- Prepare effective and responsible graduate engineers for global requirements.
- Continuously strive to improve pedagogical methods employed in delivering the academic programs.
- Respond dynamically to the changing requirements of the industry.
- Conduct basic and applied research to contribute to intellectual human capital.
- Inculcate the spirit of entrepreneurship and social responsibility.

ABOUT THE DEPARTMENT :

The Department of Mechanical Engineering at SVUCE Tirupati. It began its journey in the year 1959. Over the last six decades, the Department has its expertise and competence in the core Mechanical Engineering curriculum and research. The programs are designed to prepare our graduates for a rapidly changing world and to go well beyond being significant contributors. The Department has state of the art research facilities to support our academic programs and research. The faculties are renowned leaders in their fields, and our students-from undergraduates, postgraduates to doctoral scholars-have the opportunity to work with them one-on-one problems defining the state-of-the art.

The approach is highly interdisciplinary and collaborative, and its stress as the exploration of innovative and even unconventional ideas. The goal for undergraduate students is to give them a high-quality engineering education that includes hands-on experience. Each of the faculty members is ready and willing to work in research specialty with capable students on individual projects. The faculty to ensure that all the undergraduate students have a strong education with teaming and leadership skills, involvement in student activities, and the practical background of internship experience. The faculty believes that emphasizing these areas will make the students well qualified to take leadership roles in the future. Finally, it is a pleasure to work with such highly distinguished staff and to serve inquisitive and passionate student body in achieving the department mission and vision.

HEAD OF THE DEPARTMENT : Prof. V. Diwakar Reddy



V.D. REDDY is the faculty in the area of Machine Design and Tribology. His primary research is tribology & lubrication, composite materials, thin film sensors. where he focuses static and dynamic behavior of non-circular bearing of spiral Journal bearing. He analyzed the bearing characteristics under various preload factors and influence of preload factor on bearing stability In the area of Composite materials, his research is concentrated on fabrication of metal corrugated sheets and sandwich plates. These plates have wide application in the area of composite floors to with stand large loads. A special spot welding is developed for the fabrication of sandwich plates. In the present research, his contributions in development of thin film Nano particles of Hexagonal Yttrium Manganese Oxide (h- YMnO₃) material and evaluation of dielectric properties for mechanical and industrial applications. Further, expanding his research in the area of production engineering a tool is being designed for form drilling and controlling its petal length. In his career, he has handled many administrative positions such as Deputy Warden, Assistant Regional Coordinator for EAMCET - 2010, Co-ordinator for various committees, Dean (Evaluation), Board of Studies Chairman & Member, NAAC - Assessor, Head of the Department and Co-Ordinator (Siemen-CoE).

BOS : Dr. P. Venkata Ramaiah (PG)



Dr. P. Venkata Ramaiah obtained PhD in Mechanical Engineering from Sri Venkateswara University, Tirupati and carrying out research in all areas relating to production systems, Design optimization and characterization of materials. He has conducted extensive studies on parametric optimization in all areas of mechanical engineering. He has guided 09 Ph.D scholars and about 70 M.Tech project students, published about 100 research papers in journals/ conferences. He also serves as member of board of studies in reputed universities and as peer reviewer for reputed International Journals.

BOS : K. Rajesh Babu (UG)



K. Rajesh Babu obtained his B.Tech in Mechanical Engineering from S.V. University College of Engineering, Tirupati and Master in Production Engineering from Anna University, Chennai in the year 1989 & 1992 respectively. He joined as a Lecturer in the Department of Mechanical Engineering, S.V. University College of Engineering, Tirupati in the year 1992. He also won YSF (Young Scientist Fellow) Award by the Government of Andhra Pradesh in the year 1999 which was awarded by AP State Council of Science and Technology (APCOST), Hyderabad. Under this program he carried out research activities at Center for Artificial Intelligence and Robotics CAIR, Bangalore from 01-1-1999 to 30-6-1999. Subsequently he also got Japanese Government Fellowship plan 2001 in October of the same year. Under this fellowship program he visited Tohoku University, Sendai, Japan from October 2001 to December 2004. He also invited by LARM (Laboratory of Robotics and Mechatronics) of Cassino University, Italy, in the year 2007. This program was aided by TEQIP Project, a World Bank Agency. He also joined for Ph.D program at IIT, Madras in the year 2010 under QIP Scheme. He published 4 International Journals and 1 Book Chapter during the course of his research activity. In addition 4 National Conference papers and 8 International Conference papers got published by him. He also visited Quanzhou Institute of Technology (QIT), China in the year 2018 as part of Academic Corporation. Currently he is pursuing research and teaching activity in the area of Manufacturing Science and Technology.

Prof. G. Bhanodaya Reddy obtained PhD in Mechanical Engineering from Sri Venkateswara University, Tirupati and carrying out research in all areas relating to Automobile & Thermal Engineering. He has guided 04 Ph.D scholars and about 25 M.Tech project students, published about 40 research papers in journals/ conferences. He also serves as member of board of studies in reputed universities and as peer reviewer for reputed International Journals.



Dr. K. Dharmareddy working as Assistant Professor in the Department of Mechanical Engineering, S.V.U. College of Engineering, Tirupati. He is a graduate in Mechanical Engineering from Madras University, Chennai and M. Tech in Energy Systems from JNTU, Anathapuram. He joined SVU College of Engineering in the year 2007 and has been involved in the domain of Thermal Engineering and Renewable Energy Sources. He obtained PhD in the year 2016 from S V University, Tirupati. His specialization includes Thermal Engineering, Renewable Energy Sources, Automobile Engineering. He carried out research in the Department, guiding one PhD student, MTech students and published many research papers in National and International journals. He is also a Member of Board of Studies both UG and PG programmes. His PG students are well placed and working all over the world. He served as Addl. Chief Superintendent of Exams, Deputy Warden, NCC Officer, Officer In-charge of Workshop and Mechanical Engineering Laboratories and Officer in charge -Transport Section, S.V. University.

Dr. P. Hema working as Sr. Assistant Professor, Department of Mechanical Engineering, S.V.U College of Engineering, Tirupati. She is a graduate in Mechanical Engineering from S.V.U College of Engineering, Tirupati and M. Tech in Production Engineering from S.V.U College of Engineering, Tirupati. She joined SVU College of Engineering in the year 2007 and has been involved in the domain area of welding. She obtained Ph. D in the year 2014 by S.V. University, Tirupati. Her specialization includes Production Engineering, Welding, Solar Energy, Machining and Manufacturing of composites. Carried out research in the Department, guided one PhD student and published 70 research papers in National and International journals. Also published several review articles, book chapters and attended conferences at National and International level. Received award Adarsh vidya Saraswati Rashtriya Puraskar on 2nd Nov 2021. She is also a Member of Board of Studies both UG and PG programmes. Her PhD and PG students are well placed and working all over the world. She is also Reviewer for springer nature Journal of Bio- and Tribo-Corrosion. Editorial board member of Glacier Journal of Scientific Research.



K. Aruna is presently working as Assistant Professor in the Department of Mechanical Engineering at the S.V.U College of Engineering in Tirupati. She holds a Bachelor's degree (B.Tech) in Mechanical Engineering from Sri Kalahsthi Institute of Technology in Sri Kalahasthi, Master's Degree (M.Tech) in Manufacturing Engineering from IIT Madras, Chennai and is currently pursuing her doctoral degree course at the same institute under the QIP programme. She has published 19 publications at the National and International levels. She also guided 10 M.Tech students and conducted a number of guest lectures, workshops, and symposiums on current research topics. Her current research interests include manufacturing engineering, micromachining of holes, and precision components production. Her experience also encompasses R&D to Production and Development of Advanced Manufacturing Technology.

Dr. A. SREENIVASULU REDDY obtained B.E. (Prod Engg) Osmania University and M.Tech. (Prod Engg) JNT university Hyderabad, MBA Annamalai University, PhD in Mechanical Engineering from Sri Venkateswara University, Tirupati and carrying out research in all areas relating to Production Engg and Operations Management, Industrial Engg and Management, CAD/CAM, CIM, CAPP, Design for Manufacturing, AI and Expert Systems for Manufacturing Systems, Design features extraction and Recognition, Lean Manufacturing and Agile Manufacturing, Application of Optimization Techniques for Manufacturing Problems; Composite Materials, Plant layout Design and Facility Planning and production systems in areas of Mechanical Engineering. He is guiding 2 Ph.D scholars and about 45 M.Tech project students. Published about 50 research papers in journals/ conferences. He is also serving as member of board of studies in the S.V. University.

