

## WHO WE ARE

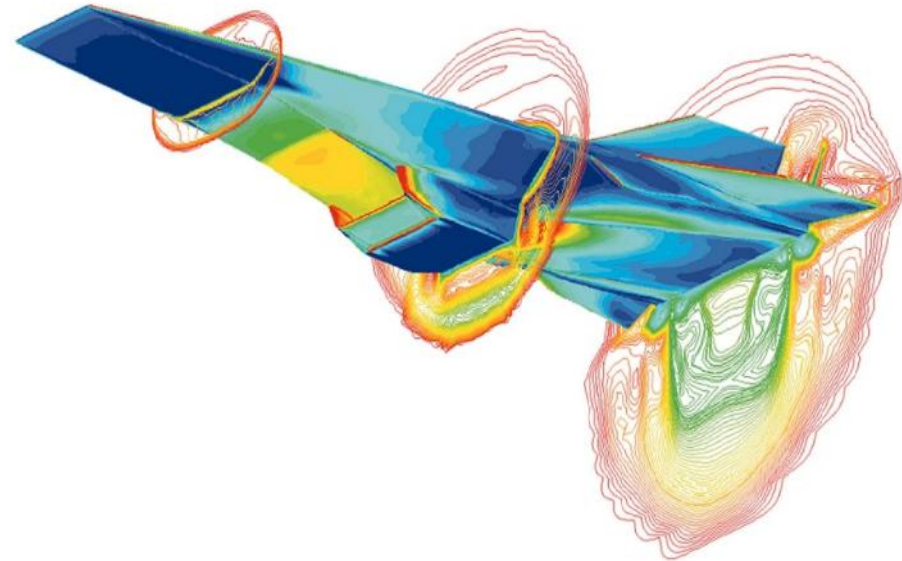
**SVR Engineering College**, Nandyal, is one of the premier institutions of SVR Group. This Institution is established in the year 2007 which is located on NH-18 about 7 Kms from Nandyal, Away from the bustling crowd, the campus is sprawled over 15 Acres, provides ambience for learning. The college comprises adequate Infrastructures to accommodate various disciplines of engineering with all the required facilities and also hostels which ensures peaceful, secure atmosphere students.

Started with an intake of 240 and at present with an intake of 1020 in various UG & PG Courses including B.Tech, M.Tech, MBA and Diploma.

## ABOUT MECHANICAL ENGINEERING DEPARTMENT

The Department of Mechanical Engineering at SVREC started functioning in the academic year 2012 - 13. The Department offers an undergraduate program in mechanical engineering that covers a wide range of topics in the field of mechanical engineering such as thermal and fluid sciences, engineering design, dynamics and control, materials, manufacturing, modeling and simulation as per the JNTUA curriculum to suit the interests of students and meet the industry requirements. The student intake capacity of the Department is 60. Teaching and learning activities at the Department are designed in such a way as to stimulate intellectual curiosity, creativity and innovation in students. The Department has a well qualified and experienced team of faculty members who have their specializations in the different branches/areas of mechanical engineering.

## One week International FDP on "Applications of Mechanical Engineering"



ORGANISED BY  
**Department of Mechanical Engineering**  
SVR ENGINEERING COLLEGE  
Ayyalurimetta, Nandyal  
Andhra Pradesh

## ABOUT APPLICATIONS OF MECHANICAL ENGINEERING

Mechanical engineering is a diverse subject that derives its breadth from the need to design and manufacture everything from small individual parts and devices (e.g., microscale sensors and inkjet printer nozzles) to large systems (e.g., spacecraft and machine tools). The role of a mechanical engineer is to take a product from an idea to the market place. Mechanical engineering deals with anything that moves, including the human body, a very complex machine. Mechanical engineers learn about materials, solid and fluid mechanics, thermodynamics, heat transfer, control, instrumentation, design, and manufacturing to understand mechanical systems. Specialized mechanical engineering subjects include biomechanics, cartilage-tissue engineering, energy conversion, laser-assisted materials processing, combustion, MEMS, microfluidic devices, fracture mechanics, nanomechanics, mechanisms, micropower generation, tribology (friction and wear), and vibrations. Mechanical engineering is an incredibly broad field, and provides the engineer a number of different areas are Applied Mechanics, Fluids Engineering, Heat Transfer, Bioengineering, Tribology, Energy Conversion, Internal Combustion Engines, Fuels & Combustion Technologies, Energy Resources, Nuclear Engineering, Solar Engineering, etc.



## OUR RESOURCE PERSONS

### Day 1: Dr. Prabhakar Sharma, Professor @ Delhi Skill and Entrepreneurship



Dr Prabhakar Sharma is a clean energy specialist working in the Biomass Gasification and IC Engine domain. At present he is associated with Delhi Skill and Entrepreneurship University (Govt of Delhi). He has published more than 20 SCI/SCOPUS publication in reputed International Journals. He has attended more than 10 International Conferences on clean energy. His research interests are Biomass gasification, alternative fuels, Artificial intelligence in energy systems, Machine Identical Tools, and CFD. He has been teaching Thermal Engineering, IC Engines and Non-conventional energy since last 10 years at various Government Organisations.

### Day 2: Dr. M.Sowjanya, Professor @ CVR College of Engineering



**Dr.M.Sowjanya** obtained her Ph.D in Mechanical Engineering from JNTUH for her research work in 'Planar Flow Melt Spinning Process' a collaborative research between Jawaharlal Nehru Technological University Hyderabad (JNTUH) and DRDO (DMRL, Hyderabad). She developed 5 numerical Models to simulate the 'Melt spinning' process. She is the recipient of 'Excellent Paper Award' (ICMO, 2013 held at New Delhi), 'Best Paper Award' (TIME, 2016 held at Hyderabad), 'Speaker of the Day Award' (Therma Comp2018 held at IISc Bangalore) and 'Best Paper Award' (ICE3MT 2020 held at Hyderabad). She presented Invited Talks at an International Conference on Production and Design Engineering held at Berlin, Germany (2016).

### Day 3: Himalaya Bir Shrestha, Climate analyst Climate and energy policy analyst.



Himalaya's work at Climate Analytics focuses on developing energy system models for countries and regions. For this purpose, he uses in-house modelling tools as well as contributes towards the development of spatiotemporal models using bottom-up and optimization approaches. He also contributes to projects related to energy system transformation via scenario analysis that involves analyzing climate policies, market dynamics, technological trends and socio-economic transition in-place.

A mechanical engineer by training, Himalaya received his undergraduate degree in JNTUA India and master's degree in Renewable Energy Management from Cologne University of Applied Sciences, Germany. Before joining Climate Analytics, he interned at the New Climate Institute where he contributed to the development of long-term decarbonization pathways for the power sector of Mongolia in the context of international climate mitigation efforts.

Himalaya has lived in Nepal, India, Germany and Netherlands. He has extensive experience working with interdisciplinary teams in energy and climate projects on case studies in Nepal, India, Iran, Indonesia, Mongolia, Germany, Australia and the EU.



### Day 4: Nabin paudel, Deputy Service Manager in Siprodi Trading pvt. Ltd.



He has graduated in B.Tech., Mechanical Engineering from JNTU Anantapuramu in the year 2013. He obtained M.Tech degree in Thermal Engineering in the year 2015 from POKHARA UNIVERSITY, Nepal University and Industrial, research organization has got 6 years of experience in **Deputy Service Manager** in **Siprodi Trading pvt. Ltd** Nepal. He has five publications in international/ national journals /conferences.

### Day 5 Mr.Shaik Abdul Kareem



He has graduated in B.Tech., Mechanical Engineering from JNTU Anantapuramu in the year 2008. He obtained M.Tech degree in Thermal Engineering in the year 2014 from J.N.T.U University and he has got 10 years of experience in Teaching in Different countries like Oman, Koria,etc.. and Industrial, research organization has got 6 years of experience. He has four publications in international/ national journals /conferences. He is presently working as a Asst. Professor of Mechanical Engineering in University of technology and applied sciences Salalah, Oman. CFD simulation of heat exchangers, Powder Metallurgy, Machining processes are his areas of research Interest.

### Day 6:Mr.Anudeep, Senior Engineer @ Renault Nissan



He has graduated in B.Tech., Mechanical Engineering from JNTU Anantapuramu in the year 2013. He obtained M.Tech degree in Thermal Engineering in the year 2015 from POKHARA UNIVERSITY. Senior CAE engineer with seven years of industry experience in the Durability analysis of automotive components. Ability to apply CAE skills effectively to evaluate the performance of machine components and optimize their designs.

## PROGRAM SCHEDULE & CONTENTS

### Day 1 (09/06/2021, Wednesday) :

Biomass gasification for energy generation by Dr.Prabhakar Sharma  
Delhi Skill and Entrepreneurship University  
(Govt of Delhi),Delhi.

### Day 2 (10/06/2021, Thursday) :

Production of Amorphous Ribbons-CFD Analysis by Dr .Sowjanya M

### Day 3 (11/06/2021, Friday) :

Energy trends and decarbonisation by Mr.Himalaya Bir Shrestha

### Day 4 (12/06/2021, Saturday):

Vehicle combustion and the environment by Mr. Nabin paudel

### Day5 (13/06/2021,Sunday):

Career and job opportunities in Gulf countries by Mr.Shaik Abdul Kareem

### Day6 (14/06/2021, Monday):

Computer aided Engineering for product development by Mr.Anudeep

**Who can participate:** It's free and open to all, any enthusiastic candidate can register for the program at the link given below

Registrationlink: <https://bit.ly/3g66nyS>

Googlemeetlink: <https://meet.google.com/smu-wkai-zhb>

**Program Live stream starts from 05.00 PM**

**Note:** *Participants having more than 75% of the attendance in the event will be issued an e-certificate.*

# Any update regarding the program will be communicated via the

mobile number registered in the link from time to time.

## TEAM

### Chief Patron

Sri S.VENKATA RAMI REDDY, Chairman , SVREC

### Patron

Sri S.DINESH REDDY, MD, SVREC

### Chairman

Dr. P. MALLIKARJUNA REDDY, Ph.D, Principal, SVREC

### Convener

Sri. M.SIVARAMAKRISHNAIAH MTech (Ph.D),  
Associate Professor & HOD  
Department of Mechanical Engineering

### Organiser

Sri.C.CHANDRUDU, Ph.D, Assoc. Professor  
Dr. M.DASTAGIRI, Ph.D, Assoc. Professor  
Dr. M.BALATHEJA, Ph.D,Assoc.professor  
Smt. K.SOWJANYA MTech,Asst.professor  
Sri. P.V.SUBHANJENEYALU, MTech,Asst.professor

*For any query, feel free to contact us @*

### Faculty Coordinators:

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Sri PRADEEPKUMAR REDDY MTech,Asst.professor