

Registration form

Name:

Designation:

Institution & Department:.....

Address:

.....

.....

Qualifications:.....

Experience in years: Teaching:

Research:

Age: Gender: Male/Female

Mobile No.

Email:.....

Signature of the
Candidate

Signature of the
Head of the Institution
with seal

Note:

- **Registration is free and includes participation certificate.**
- **Attendance is mandatory for all the sessions to get the participation certificate.**
- **Registration Link:**
<https://forms.gle/Gf2iNGy3qB5a3sCn9>

Chief Patron

Sri N. Venkateswarlu, President,
Siddhartha Academy of General & Technical
Education (SAGTE)

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Co-Convener

Dr. N. Vijaya Sai, Professor & Head

Coordinator

Dr. S. R. More, Assistant Professor

Co- Coordinator

Mr. Gopinadh Chowdary, Assistant Professor

Eligibility:

The program is open to the Faculty and Ph.D. Scholars/PG students of Mechanical Engineering and allied disciplines. Industry personnel working in the concerned/allied discipline can also attend. Minimum 75% attendance is mandatory for getting the participation E-Certificate of the event.

Contact:

Dr. S R More
(satishrajdh@vrsiddhartha.ac.in)

Mr. Gopinadh Chowdary
(gopinath@vrsiddhartha.ac.in)

A Three Day Faculty Development Program On Recent Trends, Opportunities & Challenges in Tribology and Surface Coatings

16th to 18th November 2021



Under AICTE Margdarshan



**Organized by
Department
of**

**Mechanical Engineering
Velagapudi Ramakrishna
Siddhartha Engineering College
(Autonomous)**

Vijayawada-520007, Andhra Pradesh

www.vrsiddhartha.ac.in

Phone: **0866-2582333, 2582672**

Fax: 0866-2582672

About the College

Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC) was established in the year 1977 as the first self-financed engineering college in the state of Undivided A.P. It is located in a vast expanse of 24 acres of land on the outskirts of Vijayawada city at a distance of about 6 Kms from the city Centre. The institution offers 7 undergraduate programmes and 11 Post graduate programmes. Presently 350 faculty members of varied experience and background are working in the institute.

The college has been accredited by NAAC with A+ grade and certified for ISO 9001:2015. It is among the top 16 engineering colleges which were selected under World Bank aid for R&D and PG enhancement Programme called TEQIP-II (S.C.1.2) by MHRD, Govt. of India. The college has secured an All India NIRF Ranking of 178 for the year 2021.

About Department of Mechanical Engineering

The Department of Mechanical Engineering was established in the year 1977. At present, the department is offering one UG Program (B.Tech) with an intake of 180 and two PG Programs (M.Tech) in CAD/CAM and Thermal Engineering, with an intake of 18 each. The Department was recognized by AICTE in 1993. The UG programme of Mechanical Engineering was accredited four times by NBA, GOI, New Delhi, in the years 1999, 2005, 2009 and 2015 and PG programme of (CAD/CAM) in 2015.

The department has well equipped laboratories and state-of-the-art classrooms with all necessary accessories. High academic standards are maintained in the department with the help of experienced, qualified and dedicated faculty members with various specializations following the Outcome Based Education System.

The Department has established the Centre of Excellence in Composites funded by DST-FIST. The department has established 10 laboratories in association with Siemens and Govt. of AP, Dassault systems for skill development of young engineers in the core areas of Mechanical Engineering.

All the faculty are actively involved in research work and the findings are published in reputed journals.

Objective of the Program:

- To understand the technological developments in the field of tribology and different methods for applying of surface coatings.
- To understand the use of coatings and surface modification in reduction of tribological effects.
- To learn about ceramic, refractory and organic coatings for reduction in various tribological parameters and its applications.
- To Study the development of material removal patterns, mechanisms, and mode of failure in tribological applications.
- To Study the various recent surface characterization techniques like micro-hardness, microstructure, SEM, FESEM, XRD, EDS etc. and then role in tribology.
- To understand various development's in tribological coating technology and material compositions with variation in particle size (Macro-, Micro-, and Nano).

Resource Persons

1. **Dr. D. V. Bhatt**
Retired Professor,
M E Department, SVNIT Surat, Gujarat, India. 395007
2. **Dr. (Ms) Jayashree Bijwe**
Reliance Chair Professor (2016-2021)
Centre for Automotive Research & Tribology (CART)
Indian Institute of Technology, Delhi, 110016 India
3. **Dr. C. P. Paul**
Head,
Laser Additive Manufacturing Lab & Incubation Centre-
RRCAT, Indore, MP. India. 452 013.
4. **Dr. Ravikumar Dumpala,**
Assistant Professor
M E Department VNIT Nagpur - 440010, India
5. **Dr. J. V. Menghani**
Associate Professor
Mechanical Engineering Department,
SVNIT Surat, Gujarat, India. 395007
6. **Dr. Amar Patnaik**
Associate Professor
Mechanical Engineering Department,
MNNIT Jaipur, Rajasthan, India. 302017.

7. **Dr. Sonawane Shirish Hari**
Professor,
Chemical Engineering,
NIT Warangal, Telangana, India. 506004.
8. **Dr. Syed Ismail**
Assistant Professor,
Mechanical Engineering,
NIT Warangal, Telangana, India. 506004.

Topics to be Covered:

- Role of tribology in industry and its application
- Laser base surface treatment
- Tribologist scopes as an entrepreneur
- Recent Development in Additives manufacturing (Laser Cladding) for tribological applications.
- Development of HEA laser cladding coating for erosion and corrosion resistance
- Role of surface Engineering (coatings) in tribology
- Recent Development in bio-ceramic composite for improvement in thermal, mechanical and wear properties
- Role of tribology and surface engineering in product development

Venue

Seminar Hall

Department of Mechanical Engineering,
V.R. Siddhartha Engineering College,
Vijayawada – 7, AP.

Address for Correspondence:

Dr. S R More,

Assistant Professor
Department of Mechanical Engineering
V R. Siddhartha Engineering College,
Vijayawada -520007, A.P.
Mobile No: +91-9420892923

Email- satishrajdh@vrsiddhartha.ac.in

Mr. Gopinadh Chowdary

Assistant Professor
Department of Mechanical Engineering
V R. Siddhartha Engineering College
Vijayawada – 520007, AP.
Mobile No: +91-9866559915

Email- gopinath@vrsiddhartha.ac.in