

Faculty Profile
(For booklet and website)

Name: Ankush Raina

Designation: Assistant Professor

Department: Mechanical Engineering

Email ID: ankush.raina@smvdu.ac.in , ankush.smvd@gmail.com

Contact Number and Extn.: 9419167410

Qualification: M.Tech.(Gold Medalist)

Experience:

Teaching: 4.5Years

Administration: NIL

Research: 2 year

Total: 4.5 Years



Areas of Interest / Specialization:

- 1. Fluid Mechanics and Machines**
- 2. Wear and Lubrication**
- 3. Rheological properties of lubricating Oils**

Brief Bio-data:

- Mr. Ankush Raina is specialized in Mechanical System Design. Along with this working in the field of lubricating oils used in Mechanical Industry. Performed different studies on the evaluation of their rheological and tribological properties. Contributed several articles in different formats. Have also guided several UG and PG projects in the concerned field.

Research Profile

Research Projects Undertaken:

S. No.	Role	Title	Funding Agency	Current Status (Closed/Running)
1				

Research Publications:

S. No.	Year	Publication
1.	2017	Numerical investigation of flow around a 3D bluff body using deflector plate. <i>International Journal of Mechanical Sciences</i> , 131, pp.701-711.
2.	2017	Tribological investigation of diamond nanoparticles for steel/steel contacts in boundary lubrication regime. <i>Applied Nanoscience</i> , 7(7), pp.371-388.
3.	2017	Tribological performance of avocado oil containing copper nanoparticles in mixed and boundary lubrication regime. <i>Industrial Lubrication and Tribology</i> . 2018. doi:10.1108/ILT-06-2017-0166 (Accepted Article)
4.	2017	Natural Systems and Tribology-Analogies and Lessons. <i>Materials Today: Proceedings</i> . 2017 Dec 31;4(4):5228-32.
5.	2017	Role of Green Tribology in Sustainability of Mechanical Systems: A State of the Art Survey. <i>Materials Today: Proceedings</i> , 4(2), pp.3659-3665.
6.	2017	Synthesis and tribological investigation of Al-SiC based nano hybrid composite." <i>Alexandria Engineering Journal</i> (2017).
7.	2016	Tribological Considerations of Cutting Fluids in Machining Environment: A Review. <i>Tribology in Industry</i> , 38(4).
8.	2016	Tribological and Mechanical Aspects of Zirconia-Reinforced Aluminum Metal Matrix Composites. <i>Materials Focus</i> , 5(6), pp.489-495.
9.	2016	Tribological Characterization of a Self Lubricating PTFE Under Lubricated Conditions. <i>Materials Focus</i> , 5(3), pp.293-295.

Books Publications:

S. No.	Year	Publication
1		NIL

Conference Publications:

S. No.	Year	Conference	Publication
1	2016	61 th International Conference of Indian Society of Theoretical and Applied Mechanics, VITU - Vellore, India	Computational Study of Ahmed Body with Deflector for Different Turbulence Models.
2	2015	60 th International Conference of Indian Society of Theoretical and Applied Mechanics, MNIT - Jaipur, India	Aerodynamic Drag Reduction by Passive Flow Control
3	2014	<i>National Conference on Mechanical Engineering, UIET-hoshiarpur, Punjab.</i>	Theoretical and CFD Analysis for vapour cooling of Helium deewar neck
4	2014	<i>National Conference on Mechanical Engineering, UIET-hoshiarpur, Punjab.</i>	Assesment of Cryogenic Grinding using Liquid Nitrogen as a Coolant

Research Supervised:

S. No.	Year	Role	Research Topic	Status
1	2016	Thesis Supervisor	Tribological performance of vegetable oils using copper nanoadditives	Completed

Patents:

S. No.	Name	Status
	Nil	

Award and Honours:

S. No.	Title	Activity/Event	Given by	Year
--------	-------	----------------	----------	------

--	--	--	--	--

Professional Affiliation:

S. No.	Designation	Organization