Faculty Profile

Faculty Name	Dr. Santosh Kumar Kurre
Designation	Associate Professor
Qualification	Ph.D. M.E. B.E. Mechanical engineering
Email	
Area of Interest	Mechanical engineering, Tribology, Biofuels
Work Experience (Total)	
Teaching	20 years
Research	15 years
• Industry	-
• Others	-
Courses taught at Diploma/ Post	Fluid Mechanics, Engineering Graphics, Hydraulic
Diploma/ Under Graduate/ Post	Machine, Automobile, Turbomachinery,
Graduate/ Post Graduate Diploma Level	Engineering mechanics, Tribology, Hydraulic and
	pneumatic control system, Workshop technology
Membership of Professional Bodies	Tribology Society of India, ISTE
Research Publications	
Research Papers UGC-CARE	
Research Papers SCOPUS	13
Research Papers WoS/SCI/ABDC	8
List of Publications	Kumar, Ashok S., Yadav, Jitendra and Kurre,
	Santosh K. "Assessment of engine oil viscosity and
	vibration characteristics of CI engine fuelled with
	jatropha biodiesel blends" International Journal of
	Chemical Reactor Engineering, 2023.
	https://doi.org/10.1515/ijcre-2023-0032
	Kurre, Santosh Kumar, and Jitendra Yadav. "A
	review on bio-based feedstock, synthesis, and
	chemical modification to enhance tribological

properties of biolubricants." Industrial Crops and Products 193 (2023): 116122, https://doi.org/10.1016/j.indcrop.2022.116122

Dravid, S., Yadav, J., & Kurre, S. K. (2021). Comparison of loosening behavior of bolted joints using plain and spring washers with full-threaded and plain shank bolts. Mechanics Based Design of Structures and Machines, 1-19. DOI: https://doi.org/10.1080/15397734.2021.2008258

Yadav, J., Maity, D., Kurre, S. K., Kumar, A., Kumar, R., & Chouhan, S. (2022). Identification of damping prohibiting stick-slip form friction influenced dynamic system. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 09544062221135517.

Kurre, S. K., Garg, R., & Pandey, S. (2017). A review of biofuel generated contamination, engine oil degradation and engine wear. Biofuels, 8(2), 273-280DOI:

https://doi.org/10.1080/15397734.2021.2008258 Kurre, S. K., Pandey, S., Garg, R., & Saxena, M. (2015). Condition monitoring of a diesel engine fueled with a blend of diesel, biodiesel, and butanol using engine oil analysis.Biofuels,6(3-4),223-231.DOI:

https://doi.org/10.1080/15397734.2021.2008258

Kurre, S. K., Pandey, S., Garg, R., & Saxena, M.

(2015). Experimental study of the performance and emission of diesel engine fueled with blends of diesel—ethanol as an alternative fuel. Biofuels, 6(3-4), 209-216, DOI:

https://doi.org/10.1080/15397734.2021.2008258

Ashok Kumar S, Jitendra Yadav* and Santosh Kumar Kurre (2023), Comparative study of vibration signatures by correlating them with engine oil degradation for diesel and blended fuel DBD20 in a CI engine, International Journal of Advanced Technology and Engineering Exploration, Vol 10(103) http://dx.doi.org/10.19101/IJATEE.2022.10100406 Kurre, Santosh Kumar, Sumit Arya, and Jitendra Yadav. "Thermal analysis of batteries of electrical vehicle battery for effective thermal management." Materials Today: Proceedings (2023). Kurre, Santosh Kumar, Yadav, Jitendra, Mudgal, Ashish, Malhotra, Nikhil Shukla, Akarsh Srivastava, V K "Experimental study of friction and wear characteristics of bio-based lubricant on pin-on-disk tribometer". Material Today: Proceedings (2023)

Kurre, Santosh Kumar, et al. "Experimental evaluation of performance and emission of diesel engine fueled with nano-material titanium dioxide (TiO2) nanoparticles supplemented dieselbiodiesel-ethanol blends." Materials Today: Proceedings (2023).

Chouhan, S., Chouhan, J., Mukati, G., Kumbhare, K., Yadav, J., Kurre, S. K., & Srivastav, V. K. (2023). Design of meander line antenna using low tangent loss material. Materials Today: Proceedings.

Chouhan, S., Dubey, P. K., Mukati, G., Kumbhare, K., Yadav, J., Kurre, S. K., & Deorari, R. (2023). 2x1 slotted MIMO antenna with slotted ground for high frequency wireless application. Materials Today: Proceedings.

Kurre, Santosh Kumar, Jitendra Yadav, and Shubham Thakur. "Comparative Study of the Rear and Rear Side Impact on a Roll Cage Using FEM." Recent Trends in Design, Materials and Manufacturing: Selected Proceedings of ICRADMM 2020. Singapore: Springer Nature Singapore, 2022. 475-484.

Yadav, Jitendra, Santosh Kumar Kurre, and Shubham Thakur. "FEM-Based Impact Analysis of Roll Cage of an All-Terrain Vehicle." Recent Trends in Design, Materials and Manufacturing: Selected Proceedings of ICRADMM 2020. Singapore: Springer Nature Singapore, 2022. 199-209.

Yadav, Jitendra, Santosh Kumar Kurre, and Rajesh Deorari. "An insight into facets of different dry friction models used for simulation." Materials Today: Proceedings 69 (2022): 276-281

	Yadav, J., Kurre, S. K., & Thakur, S. (2022).
	Estimation of the dynamic response of roll cage
	under impact loading by modeling and simulation.
	Materials Today: Proceedings, 50, 2181-2188.
	Yadav, J., Kurre, S. K., Kumar, A., & Kumar, R.
	(2021). Nonlinear dynamics of controlled release
	mechanism under boundary friction. Results in
	Engineering, 100265. DOI:
	https://doi.org/10.1080/15397734.2021.2008258
	S.K. Kurre, S. Pandey, N. Khatri, S.S. Bhurat, S.K.
	Kumawat, S. Saxena, S. Kumar (2020), Study of
	Lubricating Oil Degradation of CI Engine Fueled
	with Diesel- Ethanol Blend, Tribology in industry,
	DOI: 10.24874/ti.913.06.20.11
Book and Chapter Publications	
Books Authored published by	
International Publishers	
Books Authored published by	1
National Publishers	
Publication of Chapter in Edited	3
Books	
Editor of Book by International	
Publishers	
Editor of Book by National	
Publishers	
Translation Work of Book	
List of Book and Chapter	1. Yadav, J., Kurre, S. K., & Thakur, S.

Publications	(2022). FEM-Based Impact Analysis of Roll Cage
	of an All-Terrain Vehicle. In Recent Trends in
	Design, Materials and Manufacturing (pp. 199-
	209). Springer, Singapore.
	2. Kurre, S. K., Yadav, J., & Thakur, S.
	(2022). Comparative Study of the Rear and Rear
	Side Impact on a Roll Cage Using FEM. In Recent
	Trends in Design, Materials and Manufacturing
	(pp. 475-484). Springer, Singapore.
	3. Dravid S., Yadav J., Kurre S.K., Kumar A.,
	Kumar R. (2021) Experimental Evaluation of the
	Performance of Diaphragm Spring Clutch of a
	Four-Stroke Multi-cylinder Petrol Engine Under
	Dry Friction Conditions. In: Choudhury S., Gowri
	R., Sena Paul B., Do DT. (eds) Intelligent
	Communication, Control and Devices. Advances
	in Intelligent Systems and Computing, vol 1341.
	Springer, Singapore. https://doi.org/10.1007/978-
	981-16-1510-8_31
Patents	
Published	6
List of published patent(s)	Chainless transmission system for bicycles
	Extendable chair cum cloth hanger
	• Ladder
	Almirah cum ladder
	A Device for generating Voltage via
	footsteps
	• Fire fighting tool
• Filed	-
• List of filed patent(s)	-

PhD Guidance	
Degree Awarded	1
Thesis Submitted	
M.Tech. Guidance	
Degree Awarded	6
Thesis Submitted	
Research Project	
List of Research project	1
Consultancy	
List of Consultancy	
Awards & Honours	
List of Awards & Honours	
Invited lectures / Resource Person/	
paper presentation in Seminars/	
Conferences/full paper in Conference	
International (Abroad)	
International (Within Country)	2
National	3
	1.Jitendra Yadav, Santosh K Kurre, Estimation of dynamic response of roll cage under impact loading by modeling and simulation accepted in ICFMMP 17-18 Sept. 2021, LPU Ludhiyana. 2.J Yadav, S K Kurre, FEM based impact analysis of roll cage of an all-terrain vehicle, International Conference on Recent Advances in Design, Materials and Manufacturing (ICRADMM 2020) 15th and 16th October 2020, Volume, Year 2020, at Amity University Gwalior - 474 005
List of published papers	3.S K Kurre, J Yadav, S Thakur, Comparative

	study of the rear and rear side impact on a roll cage
	using fem, International Conference on Recent
	Advances in Design, Materials and Manufacturing
	(ICRADMM 2020) 15th and 16th October 2020,
	Year 2020, Amity University Gwalior - 474 005
	4.S K Kurre, S Pandey, R Garg, M Saxena, Effect
	of butanol on performance and emission of a
	compression ignition engine fueled with diesel-
	butanol blends, 24th national conference on IC
	engine and combustion, at UPES Dehradun,
	volume 2, Year 2015, Pages 70-75
	5.D.P.S. Chauhan, Santosh K. Kurre, Feature
	extraction for lubrication monitoring in gear
	system, All India seminar on Advances in
	tribology and Maintenance at Medi- Caps Institute
	of technology and Management, Indore M.P., Year
	2007.
Organizing National Conference/	
International Conference/ FDP/STTP	
List of Conference/FDP/STTP	
committee	
Social Contributions and Sports	
List of Social Contributions and	
Sports	