

FACULTY PROFILE



Name: Dr. Gyander Ghangas

Designation: Assistant Professor

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Professional Qualification:

PhD	Mechanical Engineering	National Institute of Technology, Kurukshetra
M. Tech	Mechanical Engineering (I&P)	National Institute of Technology, Kurukshetra
B. Tech	Mechanical Engineering	Kurukshetra University, Kurukshetra, Haryana

Publications (Journals & Conferences):

Selected Publications

- Pushpa Rani, Dinesh Verma, Gyander Ghangas (04/2023) "Modeling and Stress Analysis of Rounded Rectangular Inclusion Enclosed by FGM Layer" International Journal of Mathematical, Engineering and Management Sciences Vol. 8, No. 2, 282-292, 2023 (SCOPUS)
- Gyander Ghangas, Sandeep Singhal (10/2022) "Influence of process parameters on mechanical and microstructural property of dissimilar friction stir welded joints of armor aluminium alloys AA7039 and AA5083" Volume 29 Issue 5 Pages 686-695 (SCI)
- Pushpa Rani, Dinesh Verma, Gyander Ghangas (10/2022) "Stress concentration analysis of functionally graded material coated elliptical inclusion under uniaxial tension" Materials Today: Proceedings, Volume 78, Part 3, 2023, Pages 351-358 (SCOPUS)
- Gyander Ghangas, Sandeep Singhal, Saurav Dixit, Vikas Goyat, Sunil Kadiyan (08/2022) "Mathematical Modeling and optimization of Friction Stir Welding Process Parameters for Armor-Grade Aluminium Alloy" International Journal on Interactive Design and Manufacturing (IJIDeM), pp 1-18, (SCOPUS)
- Vikas Goyat, Tawakol A Enab, Gyander Ghangas, Sunil Kadiyan, Ajay Kumar (08/2022) "On stress concentration analysis of inverse distance weighted function based finite

FGM panel with circular hole under biaxial loading” Multidiscipline Modeling in Materials and Structures, Vol. 18 No. 4, pp. 708-733 (SCI)

- P Rani, V Goyat, S Dhull, S Kadiyan, G Ghangas, 01/2022 “Multi-objective parametric optimization of FSW for mechanical properties of AA5083 joint”. Materials Today: Proceedings, Volume 78, Part 3, 2022, Pages 351-358 (SCOPUS).
- Prarabdha Jaiswal, Sidhant Makin, Amitabh Dinesh Dubey, Gyander Ghangas, Vikas Goyat, 01/2022, “Analysis of stress concentration reduction around rounded rectangular slot with FGM ring” Materials Today: Proceedings, Vol- 50, 1953-1957 (SCOPUS).
- Gyander Ghangas, Vikas Goyat, Sachin Sirohi, Satish Kumar Sharma, Sunil Dhull, 12/2021 “Investigation for mechanical properties of dissimilar friction stir welded joints of AA5083 and pure Cu” Materials Today: Proceedings Vol- 56, 77-81 (SCOPUS).

Conference Publications:

- Pushpa Rani, Manjeet Jakhar, Gyander Ghangas, “Stress Analysis of Circular Inclusion Coated with Functionally Graded Material in a Finite Panel” ICFMMP2023, held at LPU, Faghwara, Nov 2023 (Accepted)
- Satish Kumar Sharma, Sachin Maheshwari, Gyander Ghangas, “Thermo-mechanical simulation study of HAZ in multi-pass submerged arc welding of HSLA steel” (AMPCO-2017), held at IIT Roorkee, in December 2017.
- Gyander Ghangas, Jitender Kundu, Mandeep Kumar, Satish Kumar Sharma “Performance Analysis of CI engine Fueled with Biodiesel/BioDiesel Blend” 5th International Conference on Science, Technology & Management (ICSTM-2017) at The Institution of Engineers India, Visvesvaraya Bhavan, Hyderabad, Telangana, India, ISBN: 978-93-87433-03-8
- Gyander Ghangas, Sandeep Singhal, “Investigations of Multi-pass Friction Stir Welding for Al-Zn-Mg Alloy” (AMPCO-2017), held at IIT Roorkee, in December 2017.
- Naveen Bansal, Gyanender Ghangas, Sandeep Singhal, “Optimization of Process Parameters for Surface Roughness by Using CNC Vertical Milling Machine” published in the proceeding of International Conference on Newest Drifts in Mechanical Engineering ICNDME-2014, held at MMU Mullana, pp-681-687, 2014.

Awards and Achievements



Workshops/Seminars/FDPs

Workshops /Seminars/Conferences organized:

- One week online Faculty Development Program on “Recent Trends in Mechanical engineering” organized in the Department of Mechanical and Automobile Engineering, SRM IST, Modinagar from 23 to 27 May 2022.
- One week online ATAL Faculty Development Program on “Novel Materials” organized in Department of Mechanical Engineering, SRM IST, Modinagar from 23 August to 27 August 2021. (Sponsored by AICTE Teaching and Learning Academy).
- One week online Sponsored Faculty Development Program on “Advanced Functional Materials” organized in the Department of Mechanical Engineering, PIET, Samalkha from 25 June to 30 June 2020. (Sponsored by Samalkha Industrial Association)
- A training program on IC Engines “Stroke 2018” and “Stroke 2019” organized by Department of Mechanical Engineering, PIET, Samalkha from 15 March to 16 March 2019.
- One Week short-term course on “Design of Experiments & Advanced Optimization Techniques (DEAOT-2017)” organized in Dept of Mechanical Engineering, PIET, Samalkha from 10-14 July 2017.

Workshops /Seminars/Conferences Attended:

- One week online Faculty Development Program on “**UHV Refresher 1 FDP**” organized by All India Council for Technical Education (AICTE) from 14 to 18 February 2022.
- One week online Faculty Development Program on “**Inculcating Universal Human Values in Technical Education**” organized by All India Council for Technical Education(AICTE) from 29th November 2021 to 3rd December 2021.
- One week online Faculty Development Program on “**Automotive Brake Friction Materials**” Organized by Department of Automobile Engineering SRM IST, Kattankulathur during 13-17 December 2021.
- One week online ATAL Faculty Development Program on “**Research Issues in Electric Vehicles**” organized by Alagappa Chettiar Government College of Engineering and Technology, Karaikudi during 06-10 December 2021.
- One week online ATAL Faculty Development Program on “**3D printing and design**” organized by DCRUST, Murthal during 22-26 November 2021.

Work Experience:

- Assistant professor in the Department of Mechanical Engineering at SRM Institute of Science and Technology, Delhi NCR Campus, Modinagar, Ghaziabad, from December 2020 to till date.

- Assistant Professor in the Department of Mechanical Engineering at Panipat Institute of Engg & Tech (PIET) from August 2011 to December 2020.

Professional Memberships:

- Life-time member of “**International Association of Engineers**” (AIENG) under the membership id 293376 since September 2021.
- A senior member of “**The Institute of Research Engineers and Doctors**” (IRED) under the membership number **SNM20210913736 (id 5144)** since December 2021.
- Life-time member of “**Industrial Engineering and Operation Management Society**” (IEOM) under membership number **1438002** since December 2021.
- Life-time Student member of “**ASTM**” under member number 1958027 since November 2016.