TARUNPREET SINGH

PhD Research Scholar
Panjab University, Chandigarh, India

RESEARCH INTERESTS

Condition monitoring, Real-time structural health monitoring, Finite element modelling, and Model updating

CONTACT

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Affiliation: Panjab University, Chandigarh, India

EDUCATION

2015-19
Punjab Engineering College, Chandigarh, India
Bachelors in Engineering – Mechanical Engineering (79.2%)

2019-21
Panjab University, Chandigarh, India
Masters in Engineering – Mechanical Engineering (83.9%)

2022 (Ongoing)
Panjab University, Chandigarh India
Doctor of Philosophy

TECHNICAL SKILLS

Soft Skills, Python, MATLAB, MS Office

HOBBIES AND INTERESTS

Reading (A Short History of Nearly Everything- Bill Bryson), Gardening, and Cycling.

PROFESSIONAL PROFILE

I am a highly motivated and passionate research scholar with a strong academic background in mechanical engineering, devoted to the academic growth, and a reliable team member with positive communication skills.

AWARDS AND ACHIEVEMENTS

- Recipient of Banga Prize for year 2018-19 organised by PECOSA
- First rank holder in Masters in Engineering 2019-21
- GATE 2022 All India Rank 4873
- GATE scholarship (INR 12,400/- per month) during M.E. 2019-21
- Research fellow of DSTRE funded research project on “Real time damage identification and monitoring in structural building model through smart sensors” during 2019-2021.
- Organizing member of two international conferences (https://icamse2021.weebly.com/) (https://icamse2022.weebly.com/)
- Participated in FDP in NIT Jalandhar on “FEM and Modal Analysis in engineering 2022”

PUBLICATIONS

- T. Singh and S. Sehgal, “Structural Health Monitoring of Composite Materials”, Archives of Computational Methods in Engineering, Springer, (2021). (SCIe Indexed, Impact Factor 7.302)
- T. Singh, S. Sehgal, C. Prakash, S. Dixit, “Real-Time Structural Health Monitoring and Damage Identification Using Frequency Response Functions along with Finite Element Model Updating Technique”, Sensors, (2022). (SCIe Indexed, Impact Factor 3.847)
- P. Yadav, K.K. Saxena, S. Sehgal, T. Singh, and S. Bahl, “Hot deformation behaviour of Ti alloys: A review on physical simulation and deformation mechanisms”, Proceedings of the Institution of Mechanical Engineers, Part E, (2022). (SCIe Indexed, Impact Factor 1.822)
- T. Singh and S. Sehgal, “Damage identification using vibration monitoring techniques”, Mater. Today Proc. (2020). (Scopus Indexed)
- S. Bahl, T. Singh, V. Kumar, S. Sehgal, A.K. Bagha A systematic review on recent progress in advanced joining techniques of the lightweight materials. AIMS Materials Science, (2021). (Scopus Indexed)
- T. Singh, S. Kumar, S. Sehgal, “3D printing of engineering materials: A state of the art review”, Mater. Today Proc. (2020). (Scopus Indexed)