ARCHANA THAKUR Email:archana15309001@gmail.com

33| Female | Single Phone: +917018146658

Educational Qualification

Year	Degree	Specialization	Institute	Percentage/ CGPA
2015-2019	PhD (Awarded)	Mechanical Engineering (Manufacturing)	PEC(Deemed to be university) Chandigarh	75%
2012 - 2014	M.Tech	Mechanical Engineering (Manufacturing)	MMU-Mullana	76%
2008 – 2012	B.Tech	Mechanical Engineering	J.N Govt. engg college S/N HPU Shimla	68.15%

Achievements

- **Gate cleared in 2013**

Working experience

- **CGC Landran-** Assistant professor, June2019-July2021
- **SLIET Longowal-** Guest faculty , August2021-till now

Project during PhD

- ***Multisearch for improvement of machining performance during turning of EN-24 steel-*** Research outcome will be definitely applicable in the industry to reduce the wastages of cutting fluids and for the improvement of surface quality of EN-24 steel. Sustainable cooling techniques will defiantly give the environmental as well as financial benefits.

Project during M. Tech

- ***Experimental investigation on EDM with or without magnetic field*** – This work reports effect of magnetic field on EDM process. MRR of Magnetic field assisted EDM is higher than Conventional EDM. Magnetic assisted EDM recast layer thickness is less, less cracks and craters as compare to conventional EDM.

Project during B. Tech

- ***Calculation of cooling load for a building*** – In this project work the cooling load on a building was calculated analytically. A c++ program was designed to for general calculation of cooling loads which provides the cooling capacity of air conditioning system that is to be set up for any building. A case study was also conducted.

Publications

- Thakur, A., Manna, A. and Samir, S., 2019. Multi-Response Optimization of Turning Parameters during Machining of EN-24 Steel with SiC Nanofluids Based Minimum Quantity Lubrication. *Silicon*, pp.1-15**(SCIE)**

- Thakur, A., Manna, A. and Samir, S., 2019.Performance Evaluation of Different Environmental Conditions on Output Characteristics During Turning of EN-24 Steel. *International Journal of Precision Engineering and Manufacturing***(SCIE)**

- Thakur, A., Manna, A. and Samir, S., 2019.Experimental investigation of nanofluids in minimum quantity lubrication during turning of EN-24 steel. *Proceedings of the Institution of Mechanical*

*Engineers, Part J: Journal of Engineering Tribology***(SCIE)**

- Kharb SS, Khatkar SK, Charak A, Thakur A. Tribological Investigation of AZ91/SiC Magnesium Hybrid Composite under Dry, Oil and Nanofluids Lubricating Conditions. *Silicon***(SCIE)**
- Khatkar SK, Verma R, Kharb SS, Thakur A, Sharma R. Optimization and Effect of Reinforcements on the Sliding Wear Behavior of Self-Lubricating AZ91D-SiC-Gr Hybrid Composites. *Silicon, pp. 11:1-3***(SCIE)**
- Thakur, A., Manna, A. and Samir, S., 2019.Optimization of parameters during turning of EN 24 steel with Minimum Quantity Lubrication. *A journal of composition theory,* ISSN : 0731-6755**(UGC)**
- Kapoor, J., Thakur, A., 2019. Analytical Prediction of Stability Lobes in Drilling in Bending Including Gyroscopic Effect. *A Journal of Composition Theory***,(UGC)**
- Thakur, A., Manna, A. and Samir, S., Influence of different cooling conditions on Machinability during turning of EN-24 steel. *NCAMM-2018*(Conference)

Industrial training

H.P.S.E.B.L Hydro Power Project **Internship** **Jun2010 – Jul 2010**

- Studied production of electricity using water power.
- Studied various parts of a Hydro Power Plant.

CADD CENTRE HAMIRPUR **Internship** **Jun 2011 – Jul 2011**

- Learn to use SOLIDWORK software

Key Skills

- Adapt to learn new basic concepts.
- Honesty and Climate Adaptability.
- Can work on softwares like AUTOCAD, SOLIDWORKS.

Teaching Goal

I enjoyed teaching and will continue to do so in the future. My principle goal is to be a good educator by imparting information to students and working with them, to ensure that they understand not only concepts but the practical application as well. My long term objectives include commitment to teaching at the undergraduate, graduate and postgraduate levels in engineering.