

**Mr. DILBAHAR, M.Tech (IIT Delhi)**

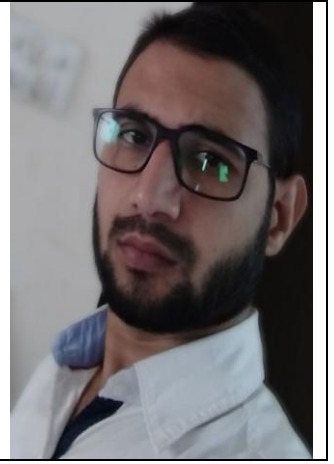
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**Native place:** *Pinjora, Near J.V Jain Degree College, Saharanpur-247001 (U.P)*



**OBJECTIVE**

Continuous improvement in career with dedication and determination

**ACADEMIC DETAILS**

Year	Degree	Institute	GPA/CPI
2012	M. Tech	IIT Delhi	8.30/10
2010	B. Tech	JMI, New Delhi	8.95/10

**AREAS OF RESEARCH**

Design of Experiments (DOE), Taguchi Method, Overall Evaluation Criteria (OEC), Grey Relational Analysis (GRA), Optimization Techniques, Multiple-Criteria Decision Methods (MCDM),

**M. TECH PROJECT: Spare Parts forecasting and warranty policies optimization.**

**TEACHING EXPERIENCE**

About 6 years of teaching/research experience in RGUKT-Basar and NIT Jalandhar. Presently working as Assistant Professor in the Department of Mechanical Engineering, Rajiv Gandhi university of Knowledge technologies, Basar

**RESEARCH**

**1. B. Tech project: Supervised 50 plus Projects**

**2. M. Tech Projects: Supervised 2 Projects**

**3. Publications (ISSN & UGC Approved)**

*1. Multi objective optimization in tungsten inert gas (TIG) welding using grey relational analysis. Journal of Emerging Technologies and Innovative Research, Vol. 5 (Issue 6), pp: 727-736.*

*2. Optimization of MIG welding Process Parameters for hardness and strength of welding joint using grey relational analysis. International journal of research in advent technology, vol. 6 (Issue 5), pp: 893-899.*

3. *Efficiency optimization of electromagnetic engine using Taguchi method. International Journal of Engineering & Science Research, vol. 8 (Issue 5), pp: 8-13.*
4. *Optimization of TIG welding process parameters for ductility and strength of weld bead formed between Aluminum alloys AL 6061 and AL 5052. IUP Mechanical Engineering*
5. *Multi objective optimization in friction stir welding using Taguchi orthogonal array and grey relational analysis. International journal of advanced technology and engineering exploration, vol. 5 (Issue 44), pp: 214-220.*
6. *Analysis of performance of SI engine using ethanol blends with gasoline. International journal of innovative knowledge concepts, vol. 6 (Issue 8), pp: 16-21.*
7. *Optimization of material removal rate and cutting force for plain turning on stainless steel 304. International journal of Research and Analytical Reviews, vol. 5 (Issue 4), pp: 927-935.*
8. *Multi objective optimization of TIG welding parameters for joining dissimilar materials. International Journal of Engineering & Science Research, vol. 8 (Issue 6), pp: 26-33.*
9. *Performance and Emission Characteristics of Compression Ignition Engine Using Oleander Biodiesel. International journal of research in advent technology, vol. 6 (Issue 5), pp: 612-616.*
10. *Design of TIG welding experiments to optimize the hardness and Toughness of weld bead formed between Cu alloys. International journal of research in advent technology, vol. 6 (Issue 7), pp: 1664-1671.*
11. *Modeling and analysis of flat shape and trunk shape piston. International journal of engineering and science research, vol. 8 (Issue 7), pp: 14-21.*
12. *Study of performance and emission characteristics of a compression ignition engine using tamarind biodiesel. International journal of advanced technology and engineering exploration, vol. 5 (Issue 43), pp: 134-139.*
13. *Geometrical parameters based optimization of heat transfer rate in double pipe heat exchanger using Taguchi method. International journal of engineering and science research, vol. 8 (Issue 3), pp: 18-24.*
14. *Optimization of MRR in wire cut EDM on monel k-400. International journal of creative research thoughts, vol. 6 (Issue 1), pp: 724-730.*
15. *Analysis of effectiveness for plate heat exchanger (PHE) using Al<sub>2</sub>O<sub>3</sub> and TiO<sub>2</sub> based nano-fluids. International journal of advanced research in science and engineering, vol. 7 (Issue 2), pp: 622-627.*
16. *Optimization of process parameters for tungsten inert gas (TIG) welding to join a butt weld between stainless steel (SS 304) and mild steel (MS 1018). International journal of engineering science and emerging technologies, vol. 10 (Issue 1), pp: 1-8.*
17. *Performance analysis of knuckle joint made of metal and polymer. International journal of creative research thoughts, vol. 6 (Issue 1), pp: 890-895.*
18. *Performance characteristics of air cooled single cylinder four stroke engine fueled with diesel-kerosene blends. International journal of engineering science and emerging technologies, vol. 10 (Issue 3), pp: 74-81.*
19. *Taguchi Experimental design of friction stir welded AA6061 and AA2014 alloys using OEC for joint hardness and Toughness. International Conference on Recent Advances in Engineering and Sciences [ICRAES], 2020, AMU, Aligarh*

#### **AWARDS/ACHIEVEMENTS**

- Selected for "YOUNG SCIENTIST '2018 Award" by, "International Journal for Research under Literal Access"
- Qualified NPTEL course in "fundamentals of manufacturing process" in elite category (76%).
- Secured Highest Gate Score in my college (JMI) With 99.02 percentile and consequently received HRD Scholarship

#### **PROFESSIONAL DEVELOPMENT (PROGRAMMES ATTENDED)**

- Attended one week (10<sup>th</sup> -14<sup>th</sup> June, 2K19) short term course on “Life cycle assessment for sustainability” in MNIT Jaipur (Rajasthan).
- Attended 3 day workshop on “Industrial engineering for national development” in IIT Bhubaneshwar.
- Attended 2 weeks FDP Program (sponsored by AICTE) in JMI, New Delhi.
- Department of Mechanical Engineering, RGUKT conducted 10 days (12-22th July, 2018) outreach programme on CNC Machine for ITI Government college, Nizamabad.
- Department of Mechanical Engineering, RGUKT conducted one week (15-20th July, 2019) outreach programme on “Automation and Robotics” for ITI Government college, Nizamabad.
- Participated in 122<sup>nd</sup> orientation (25<sup>th</sup> September- 25<sup>th</sup> October, 2K 18) conducted by JMI-HRDC (UGC sponsored) and qualified with Grade “A”.
- Participated in 2<sup>nd</sup> Refresher course on “computational and Mathematical sciences” (5<sup>th</sup> Feb- 2<sup>th</sup> Feb, 2K 20) conducted by JMI-HRDC (UGC sponsored) and qualified with Grade “A”.
- Participated in short term course on “Emerging Technologies in processing of Advanced materials and its characterization” during 4<sup>th</sup> – 8<sup>th</sup> January 2021 organized by Department of Mechanical engineering, RGUKT-Basar

### **MEMBER OF REVIEWER/EDITORIAL BOARD**

- Journal of emerging technologies and innovative research.
- International journal of creative research thought.

### **OTHER SERVICES**

- Served as a Warden from March 2016 up to May 2017 in RGUKT Hostel.
- 15<sup>th</sup> Feb-21 onwards, serving as HOD, Department of Mechanical Engineering, RGUKT-Basar