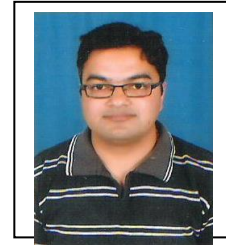


RESUME

Dr. MANOJ KUMAR PATHAK

Assistant Professor
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Professional/Educational Qualification

- **Ph.D** in Mechanical Engineering from UTU Dehradun in 2021.
- **M. Tech. in Thermal Engineering (Computational Fluid Dynamics and Heat Transfer)** from National Institute of Technology, Hamirpur (H.P) with **8.38 C.G.P.I.** in 2012.
- **B. E. (Mechanical Engineering)** from G. B. Pant Institute of Engineering and Technology, Garhwal (Uttarakhand) with **78.82%** in 2009.

Publications

Book Chapters

1. **Pathak, M.K.**, Joshi, A., Mer, K.K.S., Katiyar, J.K. and Patel, V.K., 2019. **Potential of Bio-lubricants in Automotive Tribology.** In Automotive Tribology (pp. 197-214). Springer, Singapore.

International Journal Publications

1. Debasish Das, **M. K. Pathak**, Sachin Kumar, A. K. Saini, Pawan Kumar Pant, “**Effect on diesel engine emissions with application of biodiesel fuel**” International Journal of Research in Engineering & Applied Sciences, Vol 2 (2), ISSN: 2249-3905, pp.940-950, Feb. 2012.
2. Debasish Das, A. K. Saini, **M. K. Pathak**, Sachin Kumar, “**Application of Functionally Graded Materials as Thermal Insulator in High Temperature Engineering Components**” International Journal of Research in Engineering & Applied Sciences, Vol 2 (2), ISSN: 2249-3905, pp.966-974, Feb. 2012.
3. **M. K. Pathak**, K. K. S. Mer, Pawan Kumar Pant, “**Numerical Analysis of Natural Convection in rectangular enclosure with heated finned base plate**”, International Journal of Research in Mechanical Engineering and Technology (**Global Impact Factor: 0.352**), ISSN: 2249-5762 (online) ISSN: 2249-5770 (print), Vol. 3(2), May-Oct. 2013, pp. 64-67.
4. **M. K. Pathak**, K. K. S. Mer, Pawan Kumar Pant, Sanjay Singh Samant, “**Applications of Thermal Barrier Coatings on the performance parameter of diesel engines**”, International Journal of Research in Mechanical Engineering and Technology (**Global Impact Factor: 0.352**), ISSN: 2249-5762 (online) ISSN: 2249-5770 (print), Vol. 3(2), May-Oct. 2013, pp. 68-72.
5. Pathak, M.K., Joshi, A., Mer, K.K.S. and Jayaganthan, R., 2019. Mechanical properties and microstructural evolution of bulk UFG Al 2014 alloy processed through cryorolling and warm rolling. Acta Metallurgica Sinica (English Letters), 32(7), pp.845-856.

6. Pathak, M.K., Joshi, A. and Mer, K.K.S., 2019. Evaluating tensile properties and fracture toughness of Al 2014 alloy processed by different rolling methods. *Materials Research Express*, 6(10), p.105012.
7. Panthri, S., Joshi, A. and Pathak, M.K., 2019. Effect of room temperature rolling followed by annealing on tensile and fracture behaviour of bulk ultrafine-grained Al–Li 8090 alloy. *Metallography, Microstructure, and Analysis*, 8(5), pp.581-590.
8. Chandraveer Singh Kanawat, Pawan Kumar Pant, **Manoj Kumar Pathak**, Amit Joshi, “**Numerical Analysis of Thermal Performance of Cylindrical Perforated Pin Fins for Aligned Arrangement**”, *Journal of Thin Films, Coating Science Technology and Application*, Vol 7, No 1 (2020).
9. Rawat, S., Rawat, B.S., Gupta, A., **Pathak, M.K.**, Joshi, A., Rawat, P. and Pant, P. K., EBSD studies on cryorolled LM6 Al alloy. *Materials Today: Proceedings*, 2021, Volume 44, Part 1, 2021, Pages 1969-1974
10. **Pathak, M.K.**, Joshi, A., Mer, K.K.S. and Gupta, A., Comparative analysis of tensile properties and fracture toughness of Al 2014 alloy processed by warm rolling and cryo-groove rolling. *Materials Today: Proceedings*, 2021, Volume 44, Part 1, 2021, Pages 1841-1847.
11. Bharat Singh Rawat, Amit Joshi, Ashutosh Gupta, **Manoj Kumar Pathak**, Improvement of mechanical properties of cryorolled LM6 alloy, *Materials Today: Proceedings*, 2021, Volume 44, Part 1, 2021, Pages 2107-2111.
12. **Pathak, M.K.**, Joshi, A. and Mer, K.K.S., Improvement of Tensile and Fracture Toughness Properties of Al 2014 Alloy Processed by Different Rolling Method followed by Post-ageing Treatment. *Transactions of the Indian Institute of Metals*, 74, pages679–689 (2021).
13. B Kumar, A Joshi, K K S Mer, L Prasad, **M K Pathak**, K K Saxena, The impact of centrifugal casting processing parameters on the wear behaviour of Al alloy/Al2O3 functionally graded materials, *Materials Today: Proceedings*, 2021, Volume 62, Part 6, 2022, Pages 2780-2786.

International conference papers

1. Debasish Das, **M. K. Pathak**, A. K. Saini, B. B. Ghosh, “**Performance and Emission Characteristics of a Diesel Engine When Using Biodiesel as Fuel: A Review**”, *Proceeding of 4th International Congress of Environmental Research (ICER-11)*, 15-17 December, 2011 at SVNIT Surat, pp. 242.
2. Debasish Das, A. K. Saini, **M. K. Pathak**, B. B. Ghosh, “**Laser Treatment in Context with Ceramics and Thermal Barrier Coatings**” *Proceeding of 4th International Congress of Environmental Research (ICER-11)*, 15-17 December, 2011 at SVNIT Surat, pp.285.
3. Debasish Das, **M. K. Pathak**, A. K. Saini, B. B. Ghosh, “**Effect of biodiesel fuel on performance and emission characteristics of diesel engine**”, *Proceeding of Golden Jubilee International Conference on Recent Advances and Challenges in Energy (RACE-2012)*, 04-06 January, 2012 at MIT Manipal, pp.69.
4. Debasish Das, A. K. Saini, **M. K. Pathak**, B. B. Ghosh, “**Thermal Barrier Coatings and their Potential in Energy Saving in High Temperature Engineering Components**” *Proceeding of Golden Jubilee International Conference on Recent Advances and Challenges in Energy (RACE-2012)*, 04-06 January, 2012 at MIT Manipal, pp.68.

5. Debasish Das, **M. K. Pathak**, Pawan Kumar Pant, **3D CFD Analysis of natural convection in rectangular narrow enclosure with heated finned base plate**, International Conference on Emerging Trends in Engineering (ICETE-12), NMAM Institute of Technology, Nitte, Udupi (Karnataka), May 15-16, 2012, pp. 151-154.
6. A. K. Saini, Debasish Das, **M. K. Pathak**, **Thermal Barrier Coatings-Applications, Stability and Longevity Aspects**, International Conference on Modeling, Optimization and Computing (ICMOC-2012), Procedia Engineering, 38, 2012, pp. 3173 – 3179.
7. Bhupendra Kumar, **Manoj Kumar Pathak**, K. K. S. Mer, “**Gradation in Particle distribution for minimizing thermal stresses in Al Matrix Based Functionally Graded Materials Reinforced with Al₂O₃ Particles**”, Proceeding of 4th International Conference on Emerging Trends in Engineering and Technology (IETET-2013), GIMT, Kanipala, Kurukshetra, October 25-27, 2013, pp. 601-611.
8. Himanshu Kala, K. K. S. Mer, **M. K. pathak**, “**A Review on Adhesive Wear Behavior of Aluminum Based Composites**”, Proceedings of International Conference on Advances in Sustainability of Materials Environment (ICASME’14), St. Xavier’s College of Engineering, Nagercoil, Kanyakumari, Tamilnadu, April 10-11, 2014, pp. 585, ISBN 978-81-910747-8-9.
9. **Manoj Kumar Pathak**, Amit Joshi, Chandraveer Singh Kanawat, Pawan Kumar Pant, “**Effect of Process Parameters in Conventional Turning of Al 7075 Alloy by RSM**” Proceedings of 4th International Multi-Track Conference on Science, Engineering and Technical Innovations (IMTC18), CT Institute of Engineering, Management and Technology (CTIEMT), Jalandhar, Punjab, October 5-6, 2018, pp. 451-454, ISBN 978-81-929077-8-9.
10. Chandraveer Singh Kanawat, Pawan Kumar Pant, **Manoj Kumar Pathak**, Amit Joshi, “**Numerical Analysis of Heat Transfer in Cylindrical Perforated Pin-Fins for Aligned Arrangement**” Proceedings of 4th International Multi-Track Conference on Science, Engineering and Technical Innovations (IMTC18), CT Institute of Engineering, Management and Technology (CTIEMT), Jalandhar, Punjab, October 5-6, 2018, pp. 451-454, ISBN 978-81-929077-8-9.
11. Pawan Kumar Pant, Chandraveer Singh Kanawat, **Manoj Kumar Pathak**, Amit Joshi, Sunil Chamoli, “**Computational Study of Thermal Performance Enhancement in Perforated Cylindrical Pin-Fin Arrangements**”, Proceedings of IEEE forum international conference, Goa, January 27-28, 2020, pp. 8, ISBN 978-93-89732-56-6.

National conference papers

1. Debasish Das, **Manoj K. Pathak**, Gautam Majumdar, Ajay K. Saini, B. B. Ghosh, “**Application of Thermal Barrier Coatings to Piston and Its Effect on Performance Parameters of A Diesel Engine**”, Proceeding of National Conference on Advances in Mechanical Engineering (NCAME-2011), 20-21 May, 2011 at UIET, Panjab University, Chandigarh, pp. 280.
2. Debasish Das, Ajay K. Saini, **Manoj K. Pathak**, B. B. Ghosh, “**A Review on The Application of Thermal Barrier Coatings, in Particular The Zirconia (ZrO₂), to Gas Turbine Blades**”, Proceeding of National Conference on Advances in Mechanical Engineering (NCAME-2011), 20-21 May, 2011 at UIET, Panjab University, Chandigarh, pp. 396.
3. Debasish Das, Sunil, Ajay K. Saini, **Manoj K. Pathak**, B. B. Ghosh, “**Syngas Produced in Biomass Gasification System: A Practical Approach**”, Proceeding of National

- Conference on Advances in Mechanical Engineering (NCAME-2011), 20-21 May, 2011 at UIET, Panjab University, Chandigarh, pp. 19.
4. Sachin Kumar, Debasish Das, **M. K. Pathak**, A. K. Saini, “**Application Of Modern Exercises to Reduce Stress Corrosion Cracking (SCC) For Pipelines to Protect Its Surface From Unwanted Cracks**”, Proceedings of National Conference on Advances in Composites and Solid Mechanics (ACSM-2011), 7-8 December 2011 at SVIT Vasad, Gujarat, pp.8.
 5. Sanjay Singh Samant, **M. K. Pathak**, Pawan Kumar Pant, “**Selection of ultrasonic features for estimation of impact induced damage, inclusion and cracks in composite material through ultrasonic imaging**” National conference on Recent Advances in Mechanical Engineering (NCRAME-2013), G. B. Pant Engineering College, Pauri-Garhwal, July 8-9, 2013, pp. 180-183.
 6. Himanshu Gupta, Shaifali Saini, Pawan Kumar Pant, **M. K. Pathak** and Ruchi Gupta “**Numerical Analysis of forced convection over threaded Pin Fins**” National conference on Recent Advances in Mechanical Engineering (NCRAME-2014), G. B. Pant Engineering College, Pauri-Garhwal, September 26-27, 2014, pp. 10-18.
 7. Saurabh Ahar, S. S. Samant, Pawan Kumar Pant and **M. K. Pathak** “**A review on Ballistic Effectiveness of Composite Armor**” National conference on Recent Advances in Mechanical Engineering (NCRAME-2014), G. B. Pant Engineering College, Pauri-Garhwal, September 26-27, 2014, pp. 10-18.
 8. Mohit Goswami, K. K. S. Mer and **M. K. Pathak** “**A review on Grain Refinement through Severe Plastic Deformation and its Effect on Microstructure and Mechanical Properties**” National conference on Recent Advances in Mechanical Engineering, G. B. Pant Engineering College (NCRAME-2014), Pauri-Garhwal, September 26-27, 2014, pp. 297-302.
 9. **M. K. Pathak**, Pawan Kumar Pant, K. K. S. Mer, S. S. Samant and Chandraveer Singh Kanawat “**Performance of Solar Air-Heater (SAH): A Review**” 1st National Conference on Recent Advances in Sciences and Technology (NCRASST-2015), Seemant Institute of Technology, Pithoragarh, August 22-23, 2015, pp. 70-74.
 10. Amit Joshi, **Manoj Kumar Pathak**, K. K. S. Mer, Pawan Kumar Pant, “**Investigating Effect of Process Parameters on MRR in Conventional Turning of Al 7075 Alloy by RSM**” Proceedings of National Conference on Trends and Innovations in Mechanical Engineering (TIME-2018), October 5-6, 2018, pp. 199-207.

Short Term Courses/Workshops/Industrial Training Attended

- A QIP Short Term Course on “Performance Improvement and Emission Reduction in Internal Combustion Engines Using Alternative Fuels” from 13 to 17 May, 2013 at IIT Delhi.
- A TEQIP sponsored Short Term Course on Information Technology and Its Impact on Society (IT IS-2013) from 26 to 30 August 2013 at G. B. Pant Engineering College, Pauri.
- A QIP Short Term Course on “Modelling and Simulation Using Finite Element Methods” from 7 to 11 January, 2014 at IIT Roorkee.
- A TEQIP sponsored Short Term Course on “Advancements in Cloud Computing” from 27-31 May, 2014 at G. B. Pant Engineering College, Pauri.
- A TEQIP workshop “Pravartana 2014” from 19-25 July, 2014 at IIT Kanpur.
- A TEQIP sponsored Short Term Course on “Smart Grid Technology” from 22-26 September, 2014 at G. B. Pant Engineering College, Pauri.
- A Training Program on “Energy Resources” from 8-12 November, 2014 at IIT Roorkee.
- A QIP Workshop “Failure Analysis and Life Assessment” on 14 March, 2015 at Indian institute of Technology Roorkee.

- A TEQIP-3 Two Days Workshop on Materials Characterization by SEM, TEM, XRD & EBSD during October 27-28, 2017, at G. B. Pant Engineering College, Pauri-Garhwal (Uttarakhand).
- A TEQIP Training program on “Management Capacity Enhancement Programme (MCEP)” from 12-17 February, 2018 at IIM Udaipur.
- A TEQIP sponsored one-week Short Term Course on “Emerging Trends and Technology in Internet of Things (IOT) and Cloud Computing” during September 10-14, 2018 at G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal (Uttarakhand).
- ICT based One-week Short Term Training Programme on “Entrepreneurship and Business Incubation” during October 08-12, 2018 at G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal (Uttarakhand).
- A TEQIP-III sponsored one-week short term course on FPGA and Mentor Graphics Tools during October 10-14, 2019 at G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal (Uttarakhand).
- A TEQIP-III sponsored short term course on Emerging Technologies and Soft Computing Techniques for Combating Climate Change and Sustainable Development during November 11-15, 2019 at G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal (Uttarakhand).
- A Three Days’ Workshop on Exam Reforms by AICTE during December 09-11, 2019 at NITTTR Chandigarh.
- An Industrial Training on project titled, “Overview of severe plastic deformation (SPD) techniques for Improvement in Mechanical Properties of Material used in side stand of platina bike” during January 14-31, 2020 at Bajaj Auto Limited, IIE Pantnagar SIDKUL, Rudrapur, US Nagar, (Uttarakhand).
- A Three weeks 8 Credit Course on WhatsApp Outcome Based Education Faculty Development Program during March 24 - April 14, 2020 organised by D Y Patil College of Engineering, Akurdi, Pune.
- A National Level One Week Online Faculty Development Program on “LaTeX” with included a demonstration cum hands on exposure, organised in association with Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt. of India, and remotely organised by Department of Production Engineering, AISSMS college of Engineering Pune, during April 28- May 04, 2020.
- An online webinar cum workshop on “Performing and Designing experiments on virtual platform” during June 08-17, 2020 organised by M.J.P. Rohilkhand University, Bareilly in association with IIT Roorkee.
- A TEQIP-III sponsored one week online international Faculty Development Program on Blockchain and Its Applications during July 20-24, 2020 at G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal (Uttarakhand).
- A TEQIP-III sponsored One Week Online International Faculty Development Programme on “Deep Learning & Computational Intelligence in Internet Era” during July 27 -31, 2020 at G. B. Pant Institute of Engineering & Technology, Pauri Garhwal, Uttarakhand.
- A TEQIP-III sponsored One Week Online Short Term Course on “Reliability, Maintainability and Quality Issues in Process Industries” during 04- 08 August, 2020 at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India.
- A TEQIP-III sponsored Two week online international Faculty Development Program on Experimental and Numerical Methods for Mechanical Engineers (ENMME-2020) during August 17-28, 2020 at G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal (Uttarakhand).
- A TEQIP-III sponsored Two week online international Faculty Development Program on Soil-Structure Interactions and its applications (SSIA-2020) during August 31-September 11, 2020 at G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal (Uttarakhand).

- A TEQIP-III sponsored one week online short term course on Recent Developments in Mechanical Systems during September 07-11, 2020 at G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal (Uttarakhand).
- One Week Online Faculty Development Program on “Design Aspects and Industry 4.0” Organized by Department of Mechanical Engineering, University College of Engineering & Technology, Bikaner from 10th-14th September, 2020.
- A TEQIP-III sponsored one week online international Faculty Development Program on Tools and Scientific communications for research article and proposal writing during September 19-23, 2020 at G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal (Uttarakhand).
- One Week (Online) Professional Development Programme on "Experimental Methods for Engineers" organized by Department of Mechanical Engineering, Amity School of Engineering and Technology, Noida (India) from 21st-25th December, 2020.
- One-week Faculty Development Program on Strategies for Learning and Development post COVID-19 during February 04-08, 2021 at Mussoorie organised by G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal (Uttarakhand) in collaboration with SLOG solution Pvt. Ltd.
- One Week AICTE-ISTE approved Orientation/Refresher Programme on Innovative Teaching and Best Practices held during 23/02/2021 to 01/03/2021 organised by Karmaveer Bhaurao Patil College of Engineering, Satara, Maharashtra.
- One Week AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Smart City Technologies" from 20/09/2021 to 24/09/2021 at Gurukul Kangri Vishwavidyalaya.
- One Week AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "IOT" from 05/10/2021 to 09/10/2021 at INSTITUTE OF TECHNOLOGY GOPESHWAR.
- One Week online faculty development program on Industry 4.0 with Emphasis on Robotics and Automation from 21-25 February, 2022 at D Y Patil College of Engineering, Akurdi, Pune.

Organising Conference/STC/Workshops etc.

- Organised a National Conference on Recent Advances in Mechanical Engineering as **Co-convenor** during **July 8-9, 2013**, in G. B. Pant Engineering College, Pauri-Garhwal (Uttarakhand).
- Organised a National Conference on Recent Advances in Mechanical Engineering as **Co-convenor** during **September 26-27, 2014**, in G. B. Pant Engineering College, Pauri-Garhwal (Uttarakhand).
- Organised A TEQIP-3 Sponsored 2 Days Workshop on Materials Characterization by SEM, TEM, XRD & EBSD as **Deputy Coordinator** during **October 27-28, 2017**, in G. B. Pant Engineering College, Pauri-Garhwal (Uttarakhand).
- Organised a TEQIP-III sponsored Two week online international Faculty Development Program on Experimental and Numerical Methods for Mechanical Engineers (ENMME-2020) as **Coordinator** during **August 17-28, 2020** in G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal (Uttarakhand).
- Organised an International Virtual Conference on Integrated intelligence enable networks and computing as **Co-chair** during **September 5-7, 2020**, in Institute of Technology, Gopeshwar, Chamoli-Garhwal (Uttarakhand).
- Organised a TEQIP-III sponsored one week online short term course on Recent Developments in Mechanical Systems as **Co-coordinator** during **September 07-11, 2020** in G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal (Uttarakhand).
- Organised a TEQIP-III sponsored one week online international Faculty Development Program on Tools and Scientific communications for research article and proposal writing as **Co-coordinator** during **September 19-23, 2020** in G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal (Uttarakhand).

Invited Lectures and Member of Advisory/Technical Committee

- Delivered a talk on NBA and GATE Preparation at Techfest during 14-15 April 2018 at Institute of Technology, Gopeshwar.
- Acted as Technical Program Committee member and National Advisory Board Member in National Conference on Progressive Science & Engineering (NCPSE 2016) during October 24-25, 2016 at Institute of Technology, Gopeshwar.
- Acted as Technical Program Committee member in National Conference on Progressive Science & Engineering (NCPSE 2017) during December 11-12, 2017 at Institute of Technology, Gopeshwar.

National/International Conferences Attended

- 1st National Conference on Recent Advances in Science and Technology (NCRASST-2015), 22-23 August, 2015 at Seemant Institute of Technology, Pithoragarh, Uttarakhand.
- National Conference on Recent Advances in Mechanical Engineering (NCRAME-2014), 26-27 September, 2014 at G. B. Pant Engineering College, Pauri-Garhwal.
- National Conference on Recent Advances in Mechanical Engineering (NCRAME-2013), 8-9 July, 2013 at G. B. Pant Engineering College, Pauri-Garhwal.
- 3rd International Conference on Advances in Materials and Manufacturing Technology (AMMT-2013), Chitkara School of Mechanical Engineering, Chitkara University, Punjab, September 20, 2013.
- 4th International Conference on Emerging Trends in Engineering and Technology (IETET-2013), GIMT, Kanipala, Kurukshetra, October 25-27, 2013.
- National Conference on Advances in Mechanical Engineering (NCAME-2011), 20-21 May, 2011 at UIET, Panjab University, Chandigarh.
- 4th International Congress of Environmental Research (ICER-11), 15-17 December, 2011 at SVNIT Surat.
- International Conference on Competitiveness & Innovativeness in Engineering, Management & Information Technology (ICCIEM-2012), Maharaja Agrasen Institute of Management & Technology, Yamunanagar, Haryana, January 29, 2012.
- 4th International Multi-Track Conference on Science, Engineering and Technical Innovations (IMTC18), CT Institute of Engineering, Management and Technology (CTIEMT), Jalandhar, Punjab, October 5-6, 2018.
- International Conference on Mechanical Engineering, Civil and Electrical Systems (ICMEECS), Goa, January 27-28, 2020.
- 11th Conference on Materials Processing and Characterization -2020 (ICMPC 2020) organized (Online) by Department of Mechanical Engineering & Metallurgy Engineering and Material Science, Indian Institute of Technology (IIT Indore) During 15-17 Dec 2020.

UG Project Guidance

- Design and Fabrication of Compressed Air Engine by Vineet Kumar Singhmar, Sonu, Ashwini Singh and Sumit Kumar (Batch 2009-13).
- Optimization of A Pin-Fin Hole Angle Based on the increasing rate of Heat Transfer by Amit Pathak, Rishabh Garg, Prashant Kumar Thakur and Tejasvi Sharma (Batch 2009-13).
- Experimental and Numerical Investigation of Forced Convection over threaded Pin-Fin by Himanshu Gupta, Shaifali Saini, Jaya Bohra and Kalpana (Batch 2009-13).
- Design, Analysis and Development of a Thermoacoustic system for Refrigeration Applications by Rahul Pant, Sanjay Singh Samant, Naveen Kumar, Manoj Kumar and Deepak Singh Gariya (Batch 2012-16).
- Side Stand Disengagement system of Two Wheelers by Mayank Tanwar, Abhinav, Shradha Kaushish and Taufeeq Ahmad (Batch 2012-16).

- Fabrication of Solar Dryer with Heat Recovery System by Surabhi Upadhyay, Neha Nailwal, Kailash Shah and Sumit Gaur (Batch 2013-17).
- A 3-D Numerical Analysis on Natural Convection in Narrow Rectangular Enclosures with Heated Finned Base Plate at Different Enclosure Orientation by Rahul Rawat, Sachin Kumar, Mukul Chauhan and Varun Rawat (Batch 2014-18).
- Design, Analysis and Fabrication of Suspension System of an off-road vehicle by Sanjay Aithani, Shubham Rawat, Akanksha Uniyal and Neha Tewari (Batch 2014-18).
- 2D Numerical Analysis of natural convection heat transfer in enclosures with heated filled base plate by Manish Shandilya, Rahman and Yogeshwar (Batch 2018-22)

PG Project Guidance

- Effect of Tungsten Carbide Cobalt and Nickel Chromium Coating on ASSAB 88 tool Steel Coated by Detonation Gun Process by Virendra Singh Rana (1254579).
- Investigating Effect of Various Parameter on Tribological Properties in Detonation Gun Coating of Ceramics on Al7075 Material using Taguchi's Techniques by Payal Singh (135412).
- Processing and Characterization of Jute/Bassalt Fiber Geogrid Reinforced Epoxy Based Hybrid Composites by Aruna Saini (155402).
- Scalability Planning for Reconfigurable Manufacturing Systems using Simulated Annealing by Kapil Saini (165404).
- Tensile and Fracture Behaviour of Bulk UFG Al 6351 Alloy Processed by Cryorolling and Post Rolled Annealing by Pankaj Rawat (165408).
- Study of high cycle fatigue properties and impact toughness behavior of bulk UFG Al-Cu-Li 2099 alloy processed by Hybrid SPD process by PG-PE student by Atul Bhatt

Memberships

- Life Membership of the Indian Society for Technical Education (ISTE), 2019 (LM 129187).