

Faculty Profile

Faculty Name	Dr. Vishal Dabra
Designation	Associate Professor
Qualification	Ph.D, M.Tech, B.Tech
Email	vishaldabra.mech@piet.co.in
Area of Interest	Heat Transfer & Solar Energy
Work Experience (Total)	10.5 Years
<ul style="list-style-type: none"> • Teaching 	10.5
<ul style="list-style-type: none"> • Research 	-
<ul style="list-style-type: none"> • Industry 	-
<ul style="list-style-type: none"> • Others 	-
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Under Graduate
Membership of Professional Bodies	Associate member of UAMAE (Membership Number: AM101000583461)
Research Publications	13
<ul style="list-style-type: none"> • Research Papers UGC-CARE 	03
<ul style="list-style-type: none"> • Research Papers SCOPUS 	03
<ul style="list-style-type: none"> • Research Papers WoS/SCI/ABDC 	07
<ul style="list-style-type: none"> • List of Publications 	<ul style="list-style-type: none"> • Rakesh Chandmal Sharma, Vishal Dabra, Gurpreet Singh, Rajender Kumar, Ravi Pratap Singh and Sameer Sharma 2021, “Multi-response optimization while machining of stainless steel 316L using intelligent approach of grey theory and grey-TLBO”. World Journal of Engineering XXXXX. • P. Sharma, N. Sharma, G. Singh, and V. Dabra 2020, “Abrasive wear study of aa7075/zrb2 reinforced composites”. Refractories and Industrial Ceramics Vol. 60, No. 5, 38 – 41. • Vishal Dabra & Pardeep Sharma 2019,

	<p>“Variation of Inside Temperature of Vacuum Tube and Header for Different Inclination Angle of Vacuum Tube Solar Air Collector”. <i>i-manager’s Journal on Mechanical Engineering</i>, 9(2), 18-25.</p> <ul style="list-style-type: none"> • Pardeep Sharma, Vishal Dabra, Satpal Sharma, Dinesh Khanduja, Neeraj Sharma, Rohit Sharma, Kabul Saini 2019 “Microstructural, physical and mechanical properties of AA6082/(SiC + + Graphite) hybrid composites” 9; 40-46. • Vishal Dabra & Avadhesh Yadav, 2018, “Performance analysis and comparison of glazed and unglazed solar air collector” <i>Environment Development and Sustainability</i>, DOI: 10.1007/s10668-018-0223-y . • Pardeep Sharma, Krishan Paliwal, Vishal Dabra, Satpal Sharma, Neeraj Sharma & Gurpreet Singh 2018, “Influence of Silicon Carbide/Graphite addition on properties of AA6082 reinforced composites” <i>Australian Journal of Mechanical Engineering</i> , doi.org/10.1080/14484846.2018.1505995 . • Vishal Dabra & Avadhesh Yadav, 2018, “Parametric study of a concentric coaxial glass tube solar air collector: a theoretical approach” <i>Heat Mass Transfer</i>, doi.org/10.1007/s00231-017-2248-4. • Vishal Dabra & Avadhesh Yadav, 2018, “Effect of Pressure Drop and Air Mass Flow Rate on the Performance of Concentric Coaxial Glass Tube Solar Air Collector: A Theoretical Approach” <i>A. Arab J Sci Eng.</i> doi.org/10.1007/s13369-017-2992-2. • P Sharma, S Sharma, R Kumar Garg, K Paliwal, D Khanduja, V Dabra, 2017, “Effect of Graphite Content on
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	<p>Mechanical Properties and Friction Coefficient of Reinforced Aluminum Composites” Powder Metallurgy and Metal Ceramics, Vol. 56(5-6), pp. 264-272.</p> <ul style="list-style-type: none"> • Pardeep Sharma, Krishan Paliwal, Dinesh Khanduja, Vishal Dabra, Rahul Saini, 2017, “ AA6061/B4C/Graphite/CeO2 reinforced hybrid composite development and evaluation of its properties”, IUP Journal of Mechanical Engineering, Vol. , No.1. • Vishal Dabra, Krishan Kumar Paliwal, Pardeep Sharma, Narender Kumar, 2017, “Optimization of photovoltaic power system: a comparative study”, Protection and Control of Modern Power Systems, Vol. 2, No. 3. • Laxmikant Yadav, Ankit Yadav, Vishal Dabra, Avadhesh Yadav, 2014, “ Effect of desiccant isotherm on the design parameters of desiccant wheel”, Heat and Mass Transfer, Vol. 50(1), pp. 1-12. • Vishal Dabra, Laxmikant Yadav, Avadhesh Yadav, 2013, “ The effect of tilt angle on the performance of evacuated tube solar air collector : experimental analysis”, International Journal of Engineering, Science and Technology, Vol. 5, No. 4, pp. 100-110.
Book and Chapter Publications	02
• Books Authored published by International Publishers	01
• Books Authored published by National Publishers	-
• Publication of Chapter in Edited Books	01
• Editor of Book by International	-

Publishers	
• Editor of Book by National Publishers	-
• Translation Work of Book	-
• List of Book and Chapter Publications	<ul style="list-style-type: none"> • Vishal Dabra, 2021, “Vegetable oils as an alternate source of heat storage material”. Properties and Uses of Vegetable Oils, Nova Science Publishers (ISBN: 978-1-53619-207-0) • Pardeep Sharma, Vishal Dabra, Neeraj Sharma, 2018, “Hybrid Aluminium Matrix Composites (HAMCs)” Scholars' Press (ISBN-13: 978-620-2-31331-5, ISBN-10:6202313315)
Patents	
• Published	-
• List of published patent(s)	-
• Filed	-
• List of filed patent(s)	-
PhD Guidance	
• Degree Awarded	-
• Thesis Submitted	-
M.Tech. Guidance	05
• Degree Awarded	05
• Thesis Submitted	-
Research Project	
• List of Research project	-
Consultancy	
• List of Consultancy	-
Awards & Honours	
• List of Awards & Honours	-
Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full	07

paper in Conference	
<ul style="list-style-type: none"> • International (Abroad) 	-
<ul style="list-style-type: none"> • International (Within Country) 	05
<ul style="list-style-type: none"> • National 	02
<ul style="list-style-type: none"> • List of published papers 	<ul style="list-style-type: none"> • Pardeep Sharma, Shashi Prakash Dwivedi, Rohit Sharma, Vishal Dabra, Neeraj Sharma 2020, “Microstructural and mechanical behavior of aluminium alloy reinforced with TiC”. Materials Today: Proceedings XXX (XXXX) XXX. • Pardeep Sharma, Shashi Prakash Dwivedi, Vishal Dabra, Neeraj Sharma, Rohit Sharma 2020, “Metallurgical and mechanical description of AA2014/Al₂O₃ reinforced composites. Materials Today: Proceedings XXX (XXXX) XXX. • Pardeep Sharma, Vishal Dabra, Shashi Prakash Dwivedi 2020, “Wear characteristics of AA2014/10 wt% Al₂O₃ reinforced AMCs”. Materials Today: Proceedings XXX (XXXX) XXX. • Pardeep Sharma, Vishal Dabra, Neeraj Sharma & Gurpreet Singh Saini 2018 “Microstructural Characterization of AA6082/SiC AMCs” Proceedings of TIME-2018 National Conference on Trends and Innovations in Mechanical Engineering-2018 Quantum University, Roorkee. • Jatin Batra, Vishal Dabra, Pardeep Sharma & Vijay Saini 2019 “Performance Evaluation of Thermoelectric Refrigerator Based on Natural and Forced Mode of Cooling Processes” Future learning aspects of Mechanical Engineering (Flame-2018), 1st international conference held on 3rd & 5th October at Amity University Uttar Pradesh.

	<ul style="list-style-type: none"> • Jatin Batra, Pardeep Sharma, Vishal Dabra, KK Paliwal, Anshul Burman 2018 “Tribological Properties of Graphite Reinforced Composites” Future learning aspects of Mechanical Engineering (Flame-2018), 1st international conference held on 3rd & 5th October at Amity University Uttar Pradesh. • Delivered an expert talk on “Solar Energy” in Recent Trends in Mechanical Engineering & Management Workshop on 19th February 2021.
Organizing National Conference/ International Conference/ FDP/STTP	03
<ul style="list-style-type: none"> • List of Conference/FDP/STTP committee 	<ul style="list-style-type: none"> • Convener of one week online sponsored faculty development program on Advanced Functional Materials, at PIET, Samalkha, 25th to 30th, June 2020. • Convener of two days National Conference on Emerging Trends in Mechanical Engineering Research (NCETMER), at PIET, Samalkha, 23rd-24th, August 2019. • Coordinated two days National Seminar on Recent Advances in Mechanical Engineering (RAME), at PIET, Samalkha, 17th -18th, March 2017.
Social Contributions and Sports	
<ul style="list-style-type: none"> • List of Social Contributions and Sports 	-