

**RKDF University, Bhopal**  
**Faculty Profile**



Basic Information				
<b>Name</b>	<b>Dr. Arvind Gwatiya</b>			
<b>Date of Birth</b>	<b>19.12.1987</b>			
<b>Designation</b>	<b>Assistant Professor</b>			
<b>Department</b>	<b>Mechanical Engineering</b>			
<b>Experience</b>	<b>9 Years</b>			
<b>Email ID</b>	<b>arvindrkd786@gmail.com</b>			
<b>Contact No</b>	<b>9425016395</b>			
Educational Qualifications				
Description	Year	%	Institute/University	
<b>(UG)-Mechanical Engineering</b>	2009	66.94	<b>RGPV University, Bhopal</b>	
<b>(PG)-M.E.(Thermal Science Engineering)</b>	2016	78.50	<b>RGPV University, Bhopal</b>	
<b>M. Phil.</b>	-	-		
<b>(Ph. D.)-Mechanical Engineering</b>	2024	-	<b>M P U, BHOPAL</b>	
<b>Post Doctorate</b>	-	-	-	
<b>NET Qualified/GATE</b>	Nil	Nil	-	
Experience Detail				
Experience (Teaching/Research)	Designation	Duration		Name of Institute/University
		From	To	
<b>Teaching</b>	Lecturer	31.12.201 6	24.08.2018	<b>RKDF University, Bhopal</b>
<b>Research</b>	Ph. D Scholar	25.08.201 8	13.01.2024	<b>M P U, Bhopal</b>
<b>Teaching</b>	Assistant Professor	14.01.202 4	Till Date	<b>RKDF University, Bhopal</b>
Publications				

<b>No. of Papers Published</b>	<b>07</b>		
<b>No. of Books Published</b>	<b>Nil</b>		
<b>Books Chapters Published</b>	<b>01</b>		
<b>No. of Patents Published/Grant</b>	<b>01</b>		
<b>Ph. D/M. Phil Project supervised</b>			
<b>Research Program</b>	<b>Award</b>	<b>Under Supervision</b>	<b>Name of University</b>
<b>Ph. D (Provide detail i.e. name, title etc)</b>	Nil		
<b>M. Phil</b>	Nil		
<b>PG Thesis/Dissertation</b>	Nil		
<b>Area of Expertise (100 words)</b>			
<b>Thermal Engineering, Heat Mass and Transfer, Automobile Engineering.</b>			
<b>Award and Achievement</b>			
<b>Name of Award</b>	<b>Description</b>		
<b>National</b>	Nil		
<b>International</b>	Nil		
<b>Conference/Seminar/Workshops/FDP</b>			
<b>Description</b>	<b>No.</b>		
<b>Conference/Seminar paper presentation</b>	<b>06</b>		
<b>Conference/Seminar attended/ organized</b>			
<b>Workshop attended/organized</b>	<b>01</b>		
<b>FDP Attended/organized</b>	<b>02</b>		
<b>Research Project</b>			
<b>Name of Project</b>	<b>Funding Agencies</b>	<b>Amount</b>	

- **Any other Achievement**

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**Signature**

## LIST OF PUBLICATIONS

- [1]. **Arvind Gwatiya**, Rahul Rajput, Arunesh Kumar Mishra, (2024) A Comprehensive Review of Methods for Improving Single-Phase Heat Transfer in Heat Exchanger Applications. Research Journal of Engineering Technology and Medical Sciences, 07 (02).[http://www.rjetm.in/volume7\\_issue2.html](http://www.rjetm.in/volume7_issue2.html)
- [2.] **Arvind Gwatiya**, Rahul Rajput, Arunesh Kumar Mishra, (2024) Optimizing Thermal Performance in Triple Concentric Tube Heat Exchangers: A CFD Study on Nanofluids and Design Variations. Research Journal of Engineering Technology and Medical Sciences, 07 (01).[http://www.rjetm.in/volume7\\_issue1.html](http://www.rjetm.in/volume7_issue1.html)
- [3.] **Arvind Gwatiya**, Rahul Rajput, Arunesh Kumar Mishra, (2024) A Review of Heat Exchanger Technologies from Fundamentals to Advanced Designs. Research Journal of Engineering Technology and Medical Sciences, 07 (02).[http://www.rjetm.in/volume7\\_issue1.html](http://www.rjetm.in/volume7_issue1.html)
- [4] **Arvind Gwatiya**, Nitin Dubey, “Design and analysis of A Concentric TTHEX(Triple Tube Heat Exchanger) for better Heat Transfer with Enhanced Thermal Performance Using Computational Fluid Dynamics” SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology, Volume 14, Issue 3 (2022).  
<https://smsjournals.com/index.php/SAMRIDDHI/article/view/2896>
- [5] **Arvind Gwatiya**, Nitin Dubey, “Design And Mathematical analysis of concentric Triple tube heat Exchanger for better heat transfer” Journal of Integrated Science & Technology. <https://pubs.thesciencein.org/journal/index.php/jist/article/view/505>
- [6] **Arvind Gwatiya**, Amit Sharma, “A Review Natural Ventilation by Using Solar Chimney” STM Journal <https://journals.stmjournals.com/ijepms/article=2025/view=206894/>
- [7] **Arvind Gwatiya**, Rajneesh Gedam, “A Review on Different Application of Solar Chimney” <https://scispace.com/pdf/a-review-on-different-applications-of-solar-chimney-x9cmgfh35f.pdf>

### **LIST OF CONFERENCE/WORKSHOP/F.D.P.**

- 1 Arvind Gwatiya,“A Review natural ventilation using solar chimney” AIC-RAETHM conference on 10-11 Jan 2025
- 2 Arvind Gwatiya,“Power output in solar chimney power plants Influence of collector area & chimney height ”AIC-RAETHM conference on 10-11 Jan 2025
- 3 Arvind Gwatiya,“A Review on different types of solar collectors” AIC-RAETHM conference on 10-11 Jan 2025
- 4 ArvindGwatiya,“Enhancing Production line efficiency simulation & optimizing single and parallel line processes” AIC-RAETHM conference on 10-11 Jan 2025
- 5 Five Day online short term course on Evolution of CCHP & Thermal Polygeneration (ECTP-2024) organized by NIT Hamidpur on 27 May 2024 to 31 May 2024.
- 6 Five Day online short term course on Emerging Aspects in Refrigeration, HVAC and Liquefaction Technologies(RHLT-2022) organized by NIT Hamidpur on 3 Jan2022 to 7 Jan 2022.
- 7 Five Day Online Faculty Development Program on Recent Trends in Mechanical Engineering on 20/7/2021 to 24/7/2021 by ICFAI University Jaipur.
- 8 Five Day Online Faculty Development Program on Emerging trends in cyber securities and hands on 16/3/2021 to 20/3/2021 by NIIST Bhopal, RGPV University, Bhopal.