RKDF University, Bhopal
Faculty Profile

Basic Information	
Name	**Dr. Rashmi Dwivedi**
Date of Birth	**03.02.1986**
Designation	**Professor**
Department	**Mechanical Engineering**
Experience	**15 Years**
Email ID	**rashmidwivedi29@gmail.com**
Contact No	**9907764967**

Educational Qualifications

Description	Year	%	Institute/University
(UG)-BE (Mechanical Engineering)	2008	75.56	**REC, RGPV**
(PG)-M. Tech. (Industrial Design)	2010	8.57	**MANIT, Bhopal**
M. Phil.	-	-	
(Ph. D.)-Mechanical Engineering	2017	NA	**MANIT, Bhopal**
Post Doctorate	-	-	
NET Qualified/GATE	-	-	

Experience Detail

Experience (Teaching/Research)	Designation	Duration		Name of Institute/University
		From	To	
Teaching	Assistant Professor	31.05.2010	20.07.2011	**Bhabha Engineering Research Institute, Bhopal (M.P.)**
Teaching	Assistant Professor	05.08.2011	12.08.2013	**MANIT, Bhopal (M.P.)**
Research	Ph. D Scholar	13.08.2013	17.12.2017	**MANIT, Bhopal (M.P.)**

Teaching and Research	Associate Professor	08.01.2018	31.08.2023	**SISTec, Bhopal (M.P.)**
Teaching and Research	Professor	19.09.2023	26.03.2025	**SSSUTMS, SEHORE (M.P.)**
Teaching and Research	Professor	27.03.2025	Till Date	**SSSCE, RKDF University, , Bhopal (M.P.)**

Publications

No. of Papers Published	**41**
No. of Books Published	**2**
Books Chapters Published	**3**
No. of Patents Published/Grant	**19**

Ph. D/M. Phil Project supervised

Research Program	**Award**	**Under Supervision**	**Name of University**
Ph.D (Provide detail i.e. name, title etc)	4	1	**SSSUTMS, Sehore (M.P.)**
M.Phil			
PG Thesis/Dissertation	20	-	**RGPV & SSSUTMS & RKDF University, Bhopal**

Area of Expertise (100 words)

My areas of expertise span across Finite Element Method (FEM), Renewable Energy Systems, Design Engineering, Production Technology, and Artificial Intelligence & Machine Learning (AI/ML). In FEM, I specialize in structural analysis and simulation for optimizing mechanical components. My work in Renewable Energy focuses on solar, wind, and hybrid systems for sustainable development. I have strong skills in CAD-based mechanical design and innovation-driven product development. Additionally, I integrate AI/ML techniques for predictive maintenance, smart automation, and intelligent system design, bridging advanced computing with engineering problem-solving.

Award and Achievement

Name of Award	Description	
National	AICTE QIP PG Certificate	
International	Young Achiever Award 2020 & Research Excellence Award 2020	
Conference/Seminar/Workshops/FDP		
Description	No.	
Conference/Seminar p a p e r presentation	10	
Conference/Seminar attended/ organized	7	
Workshop attended/organized	10	
FDP Attended/organized	20	
Research Project		
Name of Project	Funding Agencies	Amount
Design and development of a solar powered GoKartmachine	TEQIP-III & RGPV	3 Lacs

- **Any other Achievement**

✓ Member of advisory purchase committee, TEQIP-RGPV

✓ Guest editor in Material's Today proceedings

✓ Reviewer of LNME (Lecture Notes in Mechanical Engineering)

✓ Reviewer of Material's Today proceedings

✓ Reviewer of IEEE Transactions on Automation Science & Engineering

✓ Reviewer of Journal of the BMSE (Brazilian Society of Mechanical Sciences and Engineering)

✓ Dean Research & Consultancy-SISTec, Gandhi Nagar, Bhopal

✓ NBA Coordinator- SISTec, Gandhi Nagar, Bhopal

✓ Institute M. Tech Coordinator in SISTec, Gandhi Nagar, Bhopal

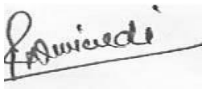
✓ NAAC Coordinator- SISTec, Gandhi Nagar, Bhopal

✓ Technical Training Head of core branches

✓ Institute Nodal Officer (INO) for Vidyanjali Higher Education Program of Ministry of Education, Govt. of India

✓ Member of IIC (Institution's Innovation Council)

✓ Founder member and Faculty Coordinator of Energy Club in SISTec



Signature

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2. Dwivedi Rashmi, Smart Water Meter for Leak Detection System by Ai and Machine Learning Communication with Central Hub Apparatus, Application No. 202421052302 A, filed 08/07/2024 & Published October 04,2024

3. Dwivedi Rashmi, Battery Operated Electric Vehicles for Indoor Transportation, (Design Patent) Application No. 402320-001, filed December 17, 2023 granted June 5,2024

4. Dwivedi Rashmi, Charging System for Electrical Vehicles Using Solar Energy, Application No. 392690-001, filed August 14, 2023 & granted October 10, 2023

5. Dwivedi Rashmi, Charging System for Electrical Vehicles Using Solar Energy, Application No. 6303644, filed August 15, 2023 & granted August 23, 2023

6. Dwivedi Rashmi, Manually Operated Briquetting Machine, Application No. 318448-001, filed Jun 04, 2019 & granted April 18, 2023

7. Dwivedi Rashmi, A Digital Crusher for Pediatric Oral Medication, Application No. 202321007691, filed February 07, 2023 & published February 17, 2023

8. Dwivedi Rashmi, A Digital Device to Detect the Parameters of Urine Bag for Monitoring of Urine Output, Application No. 202321007692, filed February 07, 2023 & published February 17, 2023

9. Dwivedi Rashmi, A Method and Apparatus for Hybrid Hand Push Cart, Application No. 202221060619, filed October 23, 2022 & published January 13, 2023

10. Dwivedi Rashmi, A Comprehensive Probabilistic Approach for Mapping Course Outcome with Program Outcome, Registration No. L-119971/2022, filed July 17, 2022, granted December 22, 2022.

11. Dwivedi Rashmi, Smart Air Purifier System and apparatus, Application No. 364973-001, filed May 27, 2022

12. Dwivedi Rashmi, IoT Enabled multipurpose temperature humidity data set logger device with cloud connectivity, Application No. 202022101166, filed Mar 02, 2022 and Granted Mar 18,2022

13. Dwivedi Rashmi, Artificial Intelligence-Based Humanoid Robot for Face Mask And Sanitizer Dispensing, Design Patent, Application No. 358554-001, Granted February 14, 2022

14. Dwivedi Rashmi, IoT Enabled Solar Power Monitoring System, Application No. 2021101848, filed April 11, 2021 and Granted May 19, 2021

15. Dwivedi Rashmi, A Composite Nano-Coated Internal Combustion Engine Cylinder, Application No. 2021100783, filed February 09, 2021 and Granted April 07, 2021

16. Dwivedi Rashmi, The Smart Garbage Management System, Application No. 202121002140, filed January 17, 2021 & published February 12, 2021.

17. Dwivedi Rashmi, Design to the Propeller and Air Foils to Increase Thrust and Obtain Stability against Crosswind, Application No. 202021056456, filed December 25, 2020 & published May 27, 2022.

18. Dwivedi Rashmi, Computational Fluid Dynamics Based Model for Thermal Monitoring and Control of Data Centers, Application No. 202021042407, filed September 29, 2020 & published October 30, 2020.

19. Dwivedi Rashmi, Artificial Intelligence Based Production Monitoring and Tool Lifespan Optimization System, Application No. 202021038856, filed September 9, 2020 & published September 18, 2020

PUBLICATIONS

PEER-REVIEWED JOURNAL

1 *Rashmi Dwivedi*, "Simulation & Modelling in Automobile Air-conditioning", Anusandhan Journal, Vol. III, Issue VI, pp. 18, September 2014. (ISSN: 2278-4187)

https://www.researchgate.net/publication/343969018_Simulation_Modeling_in_Automobile_Air-conditioning

2 *Rashmi Dwivedi*, "Prediction of Contact Pressure in Deep Drawing Process by FEM", IJAER, Vol. 10, No. 11, pp. 10372-10376, November 2015. Indexed in SCOPUS (p-ISSN 0973-4562 e-ISSN 1087-1090)

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6 *Rashmi Dwivedi*, "Numerical Simulation of Aluminum and Brass Material Cups in Deep Drawing Process" Materials today Proceedings, Volume 2, Issues 4–5, 2015, Pages 1942-1950, indexed in SCOPUS (ISSN:2214-7853)

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10 *Rashmi Dwivedi,* "Study of deep drawing process parameters" materials today Proceedings ,Volume 4, Issue 2, Part A, 2017, Pages 820-826, indexed in SCOPUS (ISSN:2214-7853)

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11 *Rashmi Dwivedi*, "Optimization of process parameter of shot peening using ABAQUS" materials today Proceedings ,Volume 4, Issue 2, Part A, 2017, Pages 2119-2128,indexed in SCOPUS (ISSN:2214-7853)

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23 *Rashmi Dwivedi"* Optimizing weight of mono Leaf Spring using FEA method, Smart moves journal IJOSCIENCE, Vol. 6, Issue 2, February 2020, Page 1-5, ISSN: 2582-4600

24 *Rashmi Dwivedi"* A Review on Comparative analysis of Leaf Spring by Using Different Variable Materials, Smart moves journal IJOSTHE, Vol. 7, Issue 2, April 2020, Page 57- 65, ISSN: 2349-0772

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Science , Vol. 26, No. 3, 2024, Page-52-65, indexed in SCOPUS (P ISSN:1994-6309) (E ISSN:2541-819X)

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3. *Rashmi Dwivedi*, "Experimental & Finite Element Analysis of Mild Steel Impeller Sheet in a Deep Drawing Process through Trapezoidal Dies", ICAD&M'14, pp. 3, December-2014. (ISBN: 978-93-84743-11-6)
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10. *Rashmi Dwivedi* "A comprehensive review of Hybrid Nanofluids: Thermophysical Properties and applications in Heat Reduction Systems ", Published in Multidisciplinary Research conference : Convergence 2024, 28th Sep 2024 (ISBN: 978-93-91535-82-7

BOOK / BOOK CHAPTERS PUBLISHED

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- Chapter entitled “AI Driven Finite Element Analysis on Spur Gear Assembly to Enhance the Fatigue Life and Minimized the Contact Pressure” co-authored with Sharad Sharma, S.S. Patil, Ganesh Datere & Kamal Upreti published by Springer (ISBN: 978-981-97-1961-7) (May 29 2024)

- Chapter entitled “Finite Element Analysis of Aluminum, Brass Alloy Cylindrical Cups Using Without Blank-holder” co-authored with Dr. Geeta Agnihotri & Ajay Kumar Choubey published by Bonfring (ISBN: 978-93-84743-13-0) (Dec 6 2014)

- Chapter entitled “Experimental & Finite Element Analysis of Mild Steel Impeller Sheet in a Deep Drawing Process through Trapezoidal Dies” co-authored with Dr. Geeta Agnihotri & Ajay Kumar Choubey published by Bonfring (ISBN: 978-93-84743-13-0) (Apr 2 2015)