

CURRICULUM VITAE

Rahul Agrawal

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Objective:

To see myself as a successful & competent executive holding a challenging position with extensive knowledge of current trends & technology that would enable me to serve the organization to the best of my ability.

Educational qualifications:

Degree	Board/university	Year of passing	Percentage/CGPA
PhD in Mechanical Engineering	NIT Jamshedpur	Pursuing (admitted in 2018)	Thesis Submitted
M Tech in Environmental Engg.	IIT(ISM) Dhanbad	2015	9.17
B.E in Mechanical Engg.	Oriental Inst. of Sci. & Tech. Bhopal (M.P)	2011	74.28%
HSC	Shanti Niketan School Hoshangabad /CBSE Board	2007	80.80%
SSC	MGM school Bagdona / M.P Board	2005	79.80%

Work experience:

- College name:** SISTec-E, Bhopal
Department: Mechanical Engineering
Period : 01/01/2018 to till date
Designation: Assistant Professor
- College name:** TIT Group, Bhopal
Department: Mechanical Engineering
Period : 22 August 2016 to 31/12/2017
Designation: Assistant Professor
- College name:** Poornima university, Jaipur
Department: Mechanical Engineering
Period : 22 June 2015 to 30 June 2016
Designation: Assistant Professor
- College name:** Surabhi and Satyam group of institution, Bhopal
Department: Mechanical Engineering
Period : 02 Sept 2012 to 30 June 2013
Designation: Lecturer
- Company name:** Bosch Ltd. Nashik (Maharashtra).
Department: In Production (Manufacturing of Nozzles) & Vendor Development
Period : 02 Sept 2011 to 31 Aug 2012
Designation: Trainee Engineer (GA)

Subject of interest:

- Fluid Mechanics
- Theory of Machine
- Dynamics of Machine
- Engineering Thermodynamic
- Hydraulic Machine
- Strength of Material
- Manufacturing science and technology
- Basic Mechanical Engineering
- Thermal Engg. & Gas Dynamics

Strengths:

- Team leadership skills.
- Hard working.
- Self Determined.
- Ready to take task with Responsibility.
- Capable of handling stressful Environment.
- Good communication skill among CFT (cross functional team).

Training & Project Details:

TRAINING/EXCURSION		
Sr No.	Place/Organization Visited	Duration
1	Iconic Envirotech private Limited Bhopal	20 th May 2014 to 7 th July 2014
2	Central Farm Machinery Tractor Training & Testing Centre Budni (M.P).	5 th July 2010 to 30 th July 2010
3	BHEL Bhopal (M.P).	20 th July 2009 to 1 th August 2009

PROJECTS UNDERTAKEN		
Name of Institution/Organization	Project title	Duration
1. NIT Jamshedpur	Performance analysis of double slope solar still with nano embedded binary eutectic phase change material	July 2018 – till date
2. IIT(ISM) Dhanbad	Use Of The BCR Three-Step Sequential Extraction Procedure For Metal Fractionation In Agricultural Soil In Jharia Coal Field	July 2014 – April 2015
3. Oriental College of Science & Technology Bhopal	Designing & Fabrication of Automatic Wall Painting Machine	January - April 2011

Paper Presented:

1. **Rahul Agrawal, K.D.P Singh** “*Performance evaluation of Double slope solar still augmented with binary eutectic phase change material and steel wool fibre*” Sustainable Energy Technologies and Assessments Volume 48, December 2021, 101597 (SCI Indexed).
2. **Rahul Agrawal, K.D.P Singh, Ravi Kumar Sharma** “*Experimental Investigations on the Phase Change and Thermal Properties of Nano Enhanced Binary Eutectic Phase Change Material of Palmitic Acid-Stearic Acid/CuO Nanoparticles for Thermal Energy Storage*” International Journal of Energy Research December 2021, 1-15 (SCI Indexed).
3. **Rahul Agrawal, K.D.P Singh** “**Experimental investigation and computational modelling of double slope solar still integrated with eutectic phase change material**”. Journal of Energy Storage 52 (2022) 104802 (SCI Indexed).
4. **Rahul Agrawal, Bijendra Kumar, Priyanka Kumari, Chandravir Narayan, Kriti Shukla, Jhuma Sarkar, Anshumali,** “*Micronutrient fractionation in coal mine-affected agricultural soils, India*”. Bull Environ Contam Toxicol (2016) vol. 96, Issue 4, pg 449-457 (SCI Indexed).
5. **Kriti Shukla, Bijendra Kumar, Rahul Agrawal, Kumari Priyanka, Anshumali Singh,** “*Assessment of Cr, Ni and Pb pollution in rural agricultural soils of Tonalite-Trondjemite Series in Central India*”. Bull Environ Contam Toxicol (2017) vol. 98, Issue 6, pp 856–866 (SCI Indexed).
6. **Rahul Agrawal, K.D.P Singh** “*A review on productivity enhancement of solar still by application of PCM and nano enhanced PCM*”. AIP Conference Proceedings 2341, 030010 (2021) (Scopus Indexed).
7. **Rahul Agrawal, K.D.P Singh, M.K. Paswan** “*Review on Enhancement of Thermal Conductivity of Phase Change Materials with Nano-Particle in Engineering Applications*”. Materials Today: Proceedings 22 (2020) 1617–1627 (Scopus Indexed).
8. **Sanjeev Gupta, S.C. Solanki, Rahul Agrawal** “*Preparation, thermophysical characterization and chemical reliability of nano embedded eutectic mixture of myristic-stearic acid/Ag₂O nanomaterials for moderate temperature thermal applications*”. Chemistry Select (Under Review) (SCI Indexed).
9. **Rahul Agrawal, Tanmay Sharma, Manish Gupta, Abhinandan Singh,** “*Augmenting the productivity of double slope solar still by incorporating sensible and latent heat storage materials*”. International Journal of Ambient Energy (Under Review) (Scopus Indexed).
10. **Rahul Agrawal, Raja Kumar, Vivek Ghoshi** “*Energy Audit: A case study of Technical Institute*” IJAESTR ISSN:2394 – 9627, Special Issue RAMAT-2021, PP- 21-24.
11. **Rahul Agrawal, K.D.P Singh, Hina Shrivastava** “*Experimental investigation on enhancement of single basin double slope solar still productivity by varying different operational parameters*”. IJESRT ISSN: 2277-9655 (2020).
12. **Hina Shrivastava, V.N. Bhartariya, Rahul Agrawal** “*Comparative Study of Automobile Driveshaft Using Composite Materials by FEM*”. International Journal of Engineering Associates (ISSN: 2320-0804) # 24 / Volume 5 Issue 2.
13. **Hina Shrivastava, V.N. Bhartariya, Rahul Agrawal** “*Mathematical Simulation of Automobile Driveshaft Using Composite Materials by FEM*”. International Journal of Engineering Associates (ISSN: 2320-0804) # 26 / Volume 5 Issue 4.
14. **Rahul Agrawal, Abhishek Soni, Aakash Dahikar** “*Strategic approach towards development of Andro Humanoid robot*”, International Conference on Futuristic Trends in Mechanical Engineering (FTME-2019) organised by RGPV, Bhopal.

15. **Rahul Agrawal**, Hina Shrivastava, Manish Joshi “*Review on Solar Still integrated with phase change: materials and heat transfer analysis*”, 2nd International Conference on Emerging Trends in Mechanical Engineering” (ICETME-2018) organised by Technocrats Institute of Technology, Excellence, Bhopal.
16. **Rahul Agrawal**, Kshitij Yugbodh, “*Recent development and application of eutectic organic phase change material in solar thermal systems: A review*”, 3rd International Conference on Interdisciplinary Approaches in Science, Engineering & Humanities organised by Department of Applied Science, Sagar Institute of Research And Technology-Excellence, Bhopal.
17. Kshitij Yugbodh, **Rahul Agrawal**, “*Energy, Exergy and Economic Analysis of Solar Thermal Systems with different Types of Binary and Ternary Eutectic Phase Change Material*”, 3rd International Conference on Interdisciplinary Approaches in Science, Engineering & Humanities organised by Department of Applied Science, Sagar Institute of Research And Technology-Excellence, Bhopal.
18. Manish Joshi, **Rahul Agrawal** “*Optimization Parameters of Tool Life Model Using the Taguchi Approach and Response Surface Methodology*”, 2nd International Conference on Emerging Trends in Mechanical Engineering” (ICETME-2018) organised by Technocrats Institute of Technology, Excellence, Bhopal.
19. **Rahul Agrawal**, Hina Shrivastava “*Overview of Options & Challenges in Desalination of Sea water*”, International Conference on Innovative Green Technologies for Sustainable Sanitation, Health & Environment” (IGTSHE-2016) organised by Poornima College of Engineering, Jaipur.
20. **Rahul Agrawal**, Kriti Shukla “*A Review of micronutrients deficiencies and suggestive measures in cultivated soils*”, International Conference on Innovative Trends in Engineering, Science and Management (ITESM-2015) organized by JUET Patel Group of Institutions, Indore.
21. **Rahul Agrawal**, Saurabh Mathur “*A review of renewable energy technologies integrated with desalination system*” National Conference on Renewable Energy and Energy Conservation (NCREEC-2016) organized by Poornima University, Jaipur.
22. Aniket Upadhyay, Gulabchand Jahangir, **Rahul Agrawal** “*Role of renewable energy sources in sustainable environment*” National Conference on Renewable Energy and Energy Conservation (NCREEC-2016) organized by Poornima University, Jaipur.

Book chapter:

- **Rahul Agrawal**, Dr. Krishna Deo Prasad Singh, Dr. Ravi Kumar Sharma, Dr. Manish Joshi, **Performance enhancement of Solar still through modifications by various techniques: A review**, Bentham Books (Under Review).

Copyright:

- **One copyright on Product design accepted.**

Patent:

- **Patent Granted entitled “Laptop Stand” having Design number 352377-001**
- **Patent entitled “Concentrated solar cooker for in house cooking” filed.**

Certification Courses:

- Complete 30 days Certification course on *Basic electronics, Embedded system, IOT and PCB designing* from Robonauts India.
- Complete Online Certification course of *ANSYS Training: A Easy Introduction with Applications* from Udemy.

No. of Workshop/Conference organized:

- Coordinator in 2nd National Conference on *“Recent Advances in Material, Automobile & Thermal Engineering RAMAT-2021”* Sponsored by **TEQIP-III** at SISTec-R, Bhopal.
- Coordinator in National Conference on *“Recent Advances in Material, Automobile & Thermal Engineering RAMAT-2020”* Sponsored by **TEQIP-III** at SISTec-R, Bhopal.
- Coordinator in Short Term Training Programme *“Design and Drafting of HVAC Systems”* sponsored by **TEQIP-III** at SISTec-R, Bhopal.
- Coordinator in Short Term Training Programme *“Applied Thermodynamics and Applicatons”* sponsored by **TEQIP-III** at SISTec-R, Bhopal.
- Branch Coordinator in National Conference on *“Emerging Trends in Science, Engineering and Technology”* Sponsored by **MPCST** at SISTec-R, Bhopal.
- Co-coordinator in Short Term Training Programme *“Application Based Skills in Mechanical Engineering”* sponsored by **TEQIP-III** at SISTec-R, Bhopal.

No. of Workshop Attended:

1. AICTE-RGPV Joint Teacher Training Program entitled “Applications of Finite Element Analysis & Computational Fluid Dynamics using ANSYS in Recent Innovations in Mechanical Engineering” organized at Technocrats Institute of Technology (Excellence), Bhopal during June 24, 2021 to June 30, 2021.
2. Two-day national level online workshop for educators on “Integration of Building heat transfer in engineering undergraduate/postgraduate curriculum” organized at IIT Bhilai 28-29 August 2021.
3. National workshop on Challenges and opportunities for Management of Water Supplies in Rural Areas organized by Department of Environmental Science & Engineering Indian School of Mines Dhanbad funded by Ministry of Drinking Water & Sanitation, GOI, New Delhi.
4. Conference on Smart & Green Livable Cities, 6th Infra Conclave Rajasthan 29 July, 2015 SMS Function Centre, Jaipur
5. International Conference on Innovative Green Technologies for Sustainable Sanitation, Health & Environment” (IGTSHE-2016) organized by Poornima College of Engineering, Jaipur (April 2016).

Personal Details:

Name : Rahul Agrawal
Date of Birth : 21-04-1989
Age : 33 Years
Marital Status : Married
Languages Known: English, Hindi
ADDRESS : ‘D-102, Chinar Sapphire, Rohit Nagar

Hobbies:

- Playing cricket.
- Listening music.

Achievements:

- Best Faculty Award in **SRIJAN 2019**.
- Project coordinator in Mechanical Department in Poornima University.
- DTPC and Project coordinator in Mechanical Department in TIT College.
- Volunteered in Bosch C.S.R.(corporate social responsibility) activities like Nasik Run 2012.
- Qualified Gate 2013 with 96 percentile.
- Qualified Gate 2011 with 92 percentile.
- Qualified Gate 2010 with 95 percentile.

REFERENCES:

- 1) Dr. Krishna Deo Prasad Singh, Associate Professor (Mechanical Department), NIT Jamshedpur, India, kdpsingh.me@nitjsr.ac.in, Mob: +91 8340418598
- 2) Dr. Ravi Kumar Sharma, Associate Professor (Mechanical Department), Manipal University Jaipur, India, ravikumar.sharma@jaipur.manipal.edu, Mob.: +91 9575158279
- 3) Prof. Sanjeev Gupta, Assistant professor (Mechanical Department), SISTec-E, Bhopal, sanjeevgupta@sistec.ac.in, Mob.: 98938 18681
- 4) Dr. Manish Joshi, Associate professor (Mechanical Department), Technocrats Institute of Technology (Excellence), Bhopal, ermanishjoshi@gmail.com, Mob.: +91-9826024619

DECLARATION: I hereby solemnly and sincerely affirm that the above made statements and information furnished by me is true.

Regards,
Rahul Agrawal