


Rahul Patel

Assistant Professor, KIPM-CET

Ph.D. Pursuing-NIT Patna

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 D-143, Sector-5, GIDA, Gorakhpur, Uttar Pradesh



Seeking a challenging position within an esteemed organization where I can leverage my skills and expertise to contribute to the overall success of the organization. Eager to align myself with cutting-edge technologies, and I aim to bring a resourceful, innovative, and flexible approach to drive positive outcomes.

WORK EXPERIENCE

JANUARY
2017

**Assistant Professor, KIPM COLLEGE OF ENGINEERING & TECHNOLOGY,
GIDA, GORAKHPUR, UTTAR PRADESH**

CURRENT

- > In-charge, Innovation & Incubation Cell
- > Convenor, Institution Innovation Council
- > Departmental NBA Coordinator
- > Workshop Superintendent
- > Social Media Coordinator
- > Innovation Ambassador
- > SPOC Website
- > SPOC ERP

AUGUST
2015

**Assistant Professor, SAROJ INSTITUTE OF TECHNOLOGY & MANAGEMENT,
LUCKNOW, UTTAR PRADESH**

DECEMBER
2016

ACCOMPLISHMENT

- 2023 Coordinator of 2 Days Faculty Development Program on Fusion 360.
- 2022 Coordinator of National Workshop STDEWS-2022 organized by KIPM-CET & InDA in Association with AKTU Lucknow and MMMUT Gorakhpur.
- 2022 Observer for ODD Semester Examination 2022 organized by the AKTU, Lucknow.
- 2021 Evaluator for Toycathon-2021, organized by the MoE's Innovation Cell and AICTE.
- Jan 2021 Observer for the Central Teacher Eligibility Test (CTET) conducted on January 31, 2021.
- Dec 2019 Observer for the Central Teacher Eligibility Test (CTET) conducted on December 08, 2019
- July 2019 Observer for the Central Teacher Eligibility Test (CTET) conducted on July 07, 2019.
- May 2019 Observer for NEET (UG) - 2019 be conducted on May 05, 2019, organized by the NTA.

EDUCATION

PH.D. (PURSUING)	MECHANICAL ENGINEERING (2021-) <ul style="list-style-type: none">› National Institute of Technology Patna (NIT Patna)
M.TECH	ENERGY TECHNOLOGY AND MANAGEMENT (2013-2015) <ul style="list-style-type: none">› Madan Mohan Malaviya University of Technology, Gorakhpur, U.P. (India)› Affiliated to Uttar Pradesh Technical University, Lucknow, U.P. (India)› Percentage: 78.35%
B.TECH	MECHANICAL ENGINEERING (2013-2015) <ul style="list-style-type: none">› Affiliated to Uttar Pradesh Technical University, Lucknow, U.P. (India)› Energy Technology and Management› Percentage: 75.86%
INTERMEDIATE (+2)	MATHEMATICS (2007-2009) <ul style="list-style-type: none">› Institute: M.G.B.S.V.P. Inter College, Gohila, Ambedkar Nagar› Board: UP Board› Percentage: 62.60%
HIGH SCHOOL	SCIENCE (2005-2007) <ul style="list-style-type: none">› Institute: Dr. A. K. S. U. M. Vidyalaya, Akabarpur, Ambedkar Nagar› Board: UP Board› Percentage: 73.33 %

PUBLICATIONS

- 2023 A Review of Pedal Operated Water Purifier, AIJR Proceedings of International Conference on Frontiers in Desalination, Energy, Environment and Material Sciences for Sustainable Development (FEEMSSD-2023) & Annual Congress of InDA (InDACon-2023) on 16-17; ISSN: 2582-3922; DOI: <https://doi.org/10.21467/proceedings.161.31>
- 2023 Design and Analysis of Solar Water Purifier, AIJR Proceedings of International Conference on Frontiers in Desalination, Energy, Environment and Material Sciences for Sustainable

- Development (FEEMSSD-2023) & Annual Congress of InDA (InDACON-2023) on 16-17 March 2023; ISSN: 2582-3922 DOI: <https://doi.org/10.21467/proceedings.161.28>
- 2023 Design and Analysis of Parabolic Solar Cooker, AIJR Proceedings of International Conference on Frontiers in Desalination, Energy, Environment and Material Sciences for Sustainable Development (FEEMSSD-2023) & Annual Congress of InDA on 16-17 March 2023; ISSN: 2582-3922 DOI: <https://doi.org/10.21467/proceedings.161.30>
- 2023 “A Review of Hybrid Solar –Wind Based EV Charging Station” International Conference on Frontiers in Desalination, Energy, Environment and Material Sciences for Sustainable Development (FEEMSSD-2023) & Annual Congress of InDA (InDACON-2023) on 16-17 March 2023.
- 2023 “Design and fabrication of solar operated floor cleaning machine” International Conference on Frontiers in Desalination, Energy, Environment and Material Sciences for Sustainable Development (FEEMSSD-2023) & Annual Congress of InDA (InDACON-2023) on 16-17 March 2023.
- 2021 “Research and Analysis For The Resurgence of The Solid & Composite Desiccant By Utilizing Solar Concentrator of Scheffler”, in International Journal of Multidisciplinary Engineering Science and Technology (JMEST), volume 8, issue 7, in July 2021 ISSN: 2458-9403.
- 2021 “Research and Study of an Evaporative, Desiccant Based Cooling System”, in International Journal of Advances in Engineering and Management (IJAEM), Volume 3, Issue 7 July 2021, pp: 1538-1546, ISSN: 2395-5252 DOI: 10.35629/5252-030715381546
- 2015 “Design and analysis of circulating fluidized bed biomass Gasifier”, in International Journal for scientific Research and Development, volume 3, issue 5, in July 2015 ISSN: 23210613.
- 2015 “Advances in Power Generation from Wastage by Gasification”, in 30th National Convention of Mechanical Engineers and national Seminar on Green Technology in Power Sector Organized by The Institution of Engineers (India), ISBN: 97893-83842-83-4.

FDPs ATTENDED

- 2023 5-Days Faculty Development Program on ChatGPT & AI tools for Academician Organized by Department of Logistics & Shipping held on 27th November to 01st December 2023 at ASET COLLEGE OF SCIENCE & TECHNOLOGY, Chennai.
- 2023 2 Days Faculty Development Program on Fusion 360 organized by Twintech Engg & Design

- Tech. Pvt. Ltd (An Autodesk Authorize Academic Partner(AAP), only one in eastern India) held on 07-08 October 2023 at KIPM-CET, Gorakhpur.
- 2023 Innovation, Design, and Entrepreneurship (IDE) Bootcamp organized by AICTE and the Ministry of Education's Innovation Cell (MIC) from June 22 to June 26, 2023.
- 2021 UHV Refresher -1 online Faculty Development Programme organized by All India Council for Technical Education (AICTE) from 23 August, 2021 to 27 August, 2021.
- 2020 10-days Faculty development Program on "Human Values in Sankhya,Yoga and Vedanta Darshan" during August 25-31, 2020 organized by Value Education Cell, AKTU, Lucknow.
- 2020 one-week online Faculty Development Programme on "Emerging Trends in Thermal, Design & Manufacturing", organized by Mechanical Engineering Department, Madan Mohan Malaviya University of Technology, Gorakhpur during October 26-30 2020.
- 2020 5-days Faculty development Program on "Green Technology & Sustainable Engineering" during 7th-11th Sep,2020 Organized by Aligarh Muslim University, Under AICTE Training and Learning (ATAL) Academy.
- 2020 7-days Faculty development Program on "Human Values in Baudhha and Jain Darshan" during August 17-24, 2020 organized by Value Education Cell, AKTU
- 2018 8-days Faculty development Program on "Universal Human Values and Professional Ethics" Level-1 organized by TEQIP-III at KIPM-CET, Gorakhpur from 14th - 21st June 2018.
- 2018 Faculty development Program on "Universal Human Values and Professional Ethics" Level-1 organized by TEQIP-III at ITM, Gorakhpur from 10th -17th Jan 2018.

WORKSHOP / SHORT TERM COURSE ATTENDED

- 2022 one-week online workshop on "Cyber Security and information Assurance" 27th- 31st January 2022 organized by Rajkiya Engineering College, Sonbhadra.
- 2022 IPR awareness/training program under the special mission called "National Intellectual Property Awareness Mission (NIPAM)" at KIPM College of Engineering & Technology, GIDA Gorakhpur on 31/05/2022.
- 2022 Workshop on "Introduction to the Goods and Service Tax(GST) for New Entrepreneurs and Entrepreneurship Journey and Advancement in Technology during my Startup Journey" on 27th Jun 2022 Virtually organized by Sagar Institute of Research & Technology- Excellence, Bhopal sponsored by MoE's Innovation Cell (MIC), AICTE.

- 2020 Webinar on “Indian Knowledge System” during 9-13, June 2020 organized by All India Council for Technical Education (AICTE).
- 2020 Webinar on “Virtual Lab” by Mr. Manish Nagoshe on April 30, 2020 through Virtual Lab Cell (VLC), AKTU, Lucknow.
- 2020 National Seminar (web) on Ancient Indian Education System organised by NITTTR Kolkata on 11th and 12th November, 2020.
- 2020 webinar on “Methodology to write Research Publication for high quality peer Reviewed Journal” organized by R&D Cell ITS engineering college, Noida on 19th Nov, 2020.
- 2020 National Online Workshop on "NBA Accreditation – Assurance of Quality in Technical Education" on 11th June, 2020 organized by the State Project Implementation Unit-UP, Dr APJ Abdul Kalam Technical University, Lucknow & The Institution of Engineers (India).
- 2020 Online National Workshop on “Outcome Based Education (OBE)” organized on 11th June 2020 organized by the State Project Implementation Unit-UP, Dr APJ Abdul Kalam Technical University, Lucknow & The Institution of Engineers (India).
- 2018 National Conference on “Universal Human Values in Higher Education Developing Holistic Perspective” Organized by TEQIP-III at IET, Lucknow from 6th to 8th July 2018.
- 2017 Short term course on “Emerging Trends in thermal Engineering (ETITE-2017)” from 27thFeb to 3rdMarch 2017 organized by Mechanical Engineering Department, MMMUT, Gorakhpur.
- 2017 Short term course on “Emerging Trends in Material Science (STCETMS-2017)” from 23rd-29thMarch 2017 organized by Department of applied science, MMMUT, Gorakhpur.
- 2017 Hands on training Cum-Workshop on “Soft Computing skills for Scientists and engineers (SCSSE-2017)” 17th- 19th March 2017 organized by Department of applied science, MMMUT, Gorakhpur.

PROJECTS

Thermodynamic Study and analysis on existing Biomass Gasifier for improving the quality of producer gas.

August 2014-May 2015

The utilization of biomass as a renewable energy source has gained significant attention due to its potential to mitigate environmental concerns and provide sustainable energy solutions. However, the quality of producer gas produced by biomass gasifiers often falls short of meeting desired standards, limiting its widespread adoption. This study investigates various parameters influencing the thermodynamic performance of biomass gasifiers, including temperature, pressure, feedstock composition, and gasification techniques. Through rigorous analysis and simulation, potential improvements to the gasification process are identified, with a focus on enhancing the calorific value,

reducing tar content, and optimizing gas yield. Additionally, the study explores innovative strategies such as thermal integration and reactor design modifications to achieve enhanced gas quality. The findings of this study offer valuable insights into the optimization of existing biomass gasification technologies, providing a roadmap for improving the efficiency and sustainability of producer gas production. Implementation of the proposed enhancements has the potential to facilitate broader adoption of biomass gasification as a viable energy solution, contributing to the transition towards a greener and more sustainable energy landscape.

Automatic track Inspection Device

August 2012 – April-2013

Automatic Track Inspection Device (ATID) designed for efficient and precise assessment of railway track conditions. Railway infrastructure maintenance is crucial for ensuring safe and reliable transportation systems. The ATID employs advanced sensor technology and automated data analysis algorithms to detect defects, such as cracks, wear, and misalignments, along the track. This device streamlines inspection processes, reducing manual labor and enhancing inspection accuracy. Real-time data collection allows for proactive maintenance scheduling, minimizing downtime and improving overall railway safety. The ATID represents a significant advancement in railway track inspection technology, offering a cost-effective solution for maintaining optimal track conditions.

INTERNSHIP

one-month Industrial Summer Training program at the National Thermal Power Corporation (NTPC), Tanda, from June 15 to July 14, 2012. During this period, I gained valuable hands-on experience and insights into the operations and processes involved in power generation at a leading thermal power plant.

SUBJECT OF INTEREST

1. Thermodynamics
2. I C Engine
3. Power Plant Engineering
4. Digital and Social Media Marketing

SKILLS

1. Application Packages: MS Office.
2. Design Software: AutoCAD, Fusion 360.
3. Comfortable working on Internet Applications.

MEMBERSHIP

- 2023 Lifetime Member of Education Research and Development Association (ERDA).
2022 Member of International Association of Engineers (IAENG).

PERSONAL INFORMATION

Father's Name: Mr. D. K. Verma

Date of Birth: 02-Jun-1993

Permanent Address: 202 Shekhpura, Katariya Yakubpur, Akbarpur, Ambedkar Nagar, Uttar Pradesh 224122

REFERENCES

Prof. Omprakash

Professor, National Institute of Technology, Patna

Email: om.prakash@nitp.ac.in

Dr. Naresh Kumar

Assistant Professor, National Institute of Technology, Patna

Email: naresh@nitp.ac.in

DECLARATION

I hereby declare that the above-mentioned information is correct to the best of my knowledge, and I promise to abide by all the norms laid down by your esteemed organization.

Date: 02/02/2024

Rahul Patel