

## IMRAN AHMAD

Doctor of Philosophy, Civil Engineering  
Motilal Nehru National Institute of Technology  
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## OBJECTIVE

To be associated with a leading, progressive, and international institution that would give me the best opportunities and platform to improve and utilize my research and technical skills.

## ACADEMIC DETAILS

Course	Institute	University	Year	CPI / %
Doctor of Philosophy (Draft Submitted)	Motilal Nehru National Institute of Technology Allahabad	Motilal Nehru National Institute of Technology Allahabad	2023	8.00
Post-Graduation (M.Tech. – Environmental Engineering)	Indian Institute of Technology, Roorkee	Indian Institute of Technology, Roorkee	2013	7.27
Graduation (B.Tech. – Civil Engineering)	Z.H. College of Engineering and Technology	Aligarh Muslim University, Aligarh	2011	7.87
Intermediate	Adarsh Janta Inter College, Tanda	Uttar Pradesh State Board	2005	68.40
High School	Adarsh Janta Inter College, Tanda	Uttar Pradesh State Board	2003	72.17

## RESEARCH PUBLICATIONS

### Journal Articles:

- **Imran Ahmad** and Debolina Basu "Comparative study on the role of single and double-cathode in electro-Fenton process for treatment of Reactive Orange 16 dye bearing wastewaters " International Journal of Environmental Analytical Chemistry. <https://doi.org/10.1080/03067319.2023.2264786> (SCI INDEXED).
- **Imran Ahmad** and Debolina Basu "Electrochemical treatment of RO16 dye pollutant using Microbial Fuel Cell as renewable power source" Environmental Engineering Science. <https://doi.org/10.1089/ees.2023.0136> (SCI INDEXED).
- **Imran Ahmad** and Debolina Basu " Treatment of Reactive orange 16 dye-bearing waste-water by Electro-Fenton Process with Stainless-steel electrodes: Statistical Optimization and Operational

*Analysis*" Letters in Organic Chemistry. <https://doi.org/10.2174/0115701786294340240129071221> (SCI INDEXED)

- **Imran Ahmad** and Debolina Basu "*Experimental Study and Response Surface Methodology Optimization of Electro-Fenton Process Reactive Orange 16 Dye Treatment*" Iranian Journal of Science and Technology, Transactions of Civil Engineering. <https://doi.org/10.1007/s40996-024-01442-5> (SCI INDEXED)
- **Imran Ahmad** and Dilwar Husain "*Application of microbial fuel cell and high voltage booster in the dual cathode electro-Fenton treatment of RO16 dye*" Journal of Indian Chemical Society, 2024 Nov 1;8(4):279-92. <https://doi.org/10.1016/j.jics.2024.101152> (SCI INDEXED)
- **Imran Ahmad** and Debolina Basu "*Effect of mass transport limitation and Pyrite particulate on the continuous electro-Fenton process treatment of Textile Industrial dye*" Advances of Environmental Technology, 2022 Nov 1;8(4):279-92. <http://doi.org/10.22104/AET.2022.5547.1502>. (SCOPUS INDEX)
- **Imran Ahmad** and Debolina Basu "*Taguchi L<sub>16</sub> (4<sup>4</sup>) orthogonal array-based study and thermodynamics analysis for electro-Fenton process treatment of textile industrial dye*" Chem. Prod. Process Model. <https://doi.org/10.22104/AET.2022.5547.1502> (SCOPUS INDEX)
- **Imran Ahmad** and Debolina Basu "*Application of the central composite design and Taguchi method for the optimization of the electro-Fenton process treatment of Textile industrial dye*" Indian Journal of Environmental Protection, 42(13);1558-1588; 2022. (SCOPUS INDEXED)
- **Imran Ahmad** and Debolina Basu. "*Emerging concern contaminants and heterogeneous electro-Fenton process: A review*" International Journal of Environmental Science and Technology. (SCI Expanded, UNDER REVIEW)
- **Imran Ahmad** and Debolina Basu. "*Application of microbial fuel cell as renewable power sources and high voltage generation for low voltage booster in the treatment of RO16 dye*" Journal of Indian Chemical Society. (SCI Expanded, UNDER REVIEW)
- Islamuddin and **Imran Ahmad**. "*Treatment of Domestic Waste Water by Filtration operation Using Low- cost Natural Adsorbents*" International Journal for Scientific Research & Development. 4(4); 114–118; 2016.
- Islamuddin and **Imran Ahmad**. "*Domestic Wastewater Treatment by Low- cost Natural Adsorbents*" International Journal of Emerging Technologies in Engineering Research. 4(4); 1768–17718; 2016.
- Rahul Tripathi and **Imran Ahmad**. "*Removal of Iron Content from Ground Water by Herbal Techniques*" International Journal of Emerging Technologies in Engineering Research. 4(4); 119–122; 2016.
- Abid Alam and **Imran Ahmad**. "*Experimental Study on Properties of Glass Fibre Reinforced Concrete*" International Journal of Engineering Trends and Technology. 24(4); 297–301; 2016.
- Kamal Nabh Tripathi and **Imran Ahmad**. "*Comparative Study of BOD and pH of Distillery Wastewater*" International Journal of Innovations in Engineering and Technology. 5(4); 61–65; 2015.
- Kamal Nabh Tripathi and **Imran Ahmad** "*Comparative Study of BOD, DO and pH of Distillery Treated and Untreated Wastewater*" International Journal of Scientific and Research Publications. 5(9); 1–7; 2015.

- Islamuddin, **Imran Ahmad** and Yusuf Jamal. “*Treatment of Domestic Waste Water by Adsorbents Using Multimedia Filter Technology*” International Journal of Emerging Technologies in Engineering Research. 4(4); 164–167; 2016.

### **Conference Proceedings:**

- **Imran Ahmad** and Debolina Basu (2021) “Electro-Fenton Treatment of Reactive Orange 16 dye with Cost-Effective Stainless-Steel Electrodes Application: Process study, Statistical Optimization, and Decay Kinetics” in the International Conference on Science, Technology, and Sustainability (ICSTS-2022) held at Maulana Mukhtar Ahamad Nadvi Tehcnical Campus, Malegaon, Maharashtra.
- **Imran Ahmad** and Debolina Basu (2021) “Taguchi method for the optimization of the electro-Fenton process treatment of Textile industrial dye” in the International Conference on Recent Developments in Civil Engineering (RDC-2022) held at Motilal Nehru National Institute of Technology Allahabad, Prayagraj.
- **Imran Ahmad** and Debolina Basu (2021) “Taguchi  $L_{16}$  ( $4^4$ ) Orthogonal Array-Based Study and Thermodynamics Analysis for Electro-Fenton Process Treatment of Textile Industrial Dye” in the International Conference on Technological Interventions for Sustainability (Chem-Conflux 22) held at Motilal Nehru National Institute of Technology Allahabad, Prayagraj.
- **Imran Ahmad** and Debolina Basu (2021) “Using Central Composite Experimental Design to Optimize the Degradation of Reactive Orange 16 Dye from Aqueous Solution by Electro-Fenton Reaction” in the International Conference on Advances in Chemical, Biological and Environmental Engineering" held at MNIT Jaipur.
- **Imran Ahmad** and R. P. Singh (2020) “Microbial Reverse Electrodialysis Electrolysis Cell-Based Fenton Process Optimization from experimental data analysis using response surface methodology (RSM)” in sustainable management of water & environmental systems of ASCE India conference 2020 to be held at Kolkata-700001.
- **Imran Ahmad** and A. A. Kazmi (2013) “Settling characteristics of non-bulking sludge of the Sequential Batch Reactor” in the National Conference on “Technological Advancements: Stepping Towards Sustainable Developments” held at Shri Ram Group of Colleges Muzaffarnagar, Utter Pradesh.

### **Training Courses, Workshops and Symposium:**

- **Imran Ahmad** (2019) Training course on “Contaminated Sites: Assessment, Remediation and Risk” organized by *MNNIT Allahabad* and *Ministry of Human Resource Development, New Delhi* in November 2019.
- **Imran Ahmad** (2018) Training course on “Industrial Application of Heat Transfer Operation” organized by Department of Chemical Engineering, *MNNIT Allahabad* in October 2018.
- **Imran Ahmad** (2016) Symposium on “Emerging Trends and Opportunities for Civil Engineers in Construction Industry” organized by *Department of Civil Engineering, Integral University Lucknow* in March 2016.

- **Imran Ahmad** (2016) National Level Workshop on “Entrepreneurship Options in the Field of Engineering & Pioneering Internet of Things” organized by *IEEE Integral University Lucknow* in January 2016.
- **Imran Ahmad** (2016) National Level Workshop on “MATLAB & PHOTONIC CRYSTALS” organized by *SPECTRUM, Department of Physics, Integral University Lucknow* in February 2016.
- **Imran Ahmad** (2015) Training course on “Aquifer Management through Participatory Approach and Local Ground Water Issue” organized by *Department of Civil Engineering, Integral University Lucknow* in March 2015.
- **Imran Ahmad** (2015) National Level Workshop on “Emerging Trends in Earthquake Engineering & Seismic Retrofitting Techniques” organized by *Department of Civil Engineering, Integral University Lucknow* in March 2015.
- **Imran Ahmad** (2014) National Level Workshop on “Intellectual Property System: India Today and Tomorrow” organized by *Intellectual Property Rights Management Cell, Integral University Lucknow* in collaboration with *Intellectual Property Owners Associations, New Delhi* in January 2014.
- **Imran Ahmad** (2009) National Level Workshop on “Disaster Management Workshop” organized by *Department of Civil Engineering, Aligarh Muslim University, Aligarh* in October 2009.

## INDUSTRIAL AND ACADEMIC EXPERIENCE

Sl. No.	Name of the Organization	Designation	Period
1.	Integral University, Lucknow-206026	Assistant Professor	September 2013- May 2017

## PROJECTS UNDERTAKEN:

Modelling of Settling Characteristics of Sequential Batch Reactor (SBR)	M. Tech. Dissertation	May 2012 – June 2013
Estimation of Biodegradable Fraction in Activated Sludge	M. Tech. Project	July 2012 – Sep 2012
Aerobic Digestion in Activated Sludge	M. Tech. Seminar	May 2012 – July 2012
Analysis and Design of Multi-Storied Residential Building	B. Tech. Project	July 2010 – Apr 2011

## SOFTWARE SKILLS:

- Design Expert
- Auto CAD

- Material Studio 2020
- Chem Draw
- Minitab
- Origin

### **ACHIEVEMENTS:**

<b>EXAM APPEARED</b>	<b>GATE QUALIFYING YEAR</b>	<b>VALID GATE SCORE</b>
GATE (Civil Engg.)	2019	489
GATE (Civil Engg.)	2017	496

### **PERSONAL DETAILS:**

Name : Imran Ahmad  
 Father's name : Mr. Mohd Murtuza  
 D.O.B : 25-06-1988  
 Age : 34 years  
 Gender : Male  
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 Utter Pradesh, India.

### **REFERENCES:**

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