Dr. Saddam Husain

Assistant Professor (IU)

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Career Objective

My career objective is to demonstrate a strong commitment to education by creating an engaging and stimulating learning environment that inspires and empowers students to excel academically and personally. I am dedicated to cultivating student leadership and fostering a lifelong love for learning. Driven by curiosity and passion, I strive to provide clear understanding and meaningful experiences to enhance students' knowledge and growth. My goal is to contribute significantly to both personal and organizational success.

Work Experience

Aug-2023– till date   **Assistant Professor**, at the Department of Mathematics and Statistics, Integral University, Lucknow, 226026, Uttar Pradesh, India.

Exam Qualified

2018–March   **Graduate Aptitude Test (GATE)**, Conducted by Indian institute of Technology Guwahati.
- All India Rank 902.

Academic Qualifications

2018–2023   **Doctor of Philosophy (Ph.D)**, Department of Applied Mathematics, Faculty of Engineering and Technology, Aligarh Muslim University, Aligarh, Uttar Pradesh, India, 202002.
Status: Awarded (26-June, 2023)   **Percentage (Course Work) – 74.5%**

2012-2014   **Master of Science (M.Sc.)**, Department of Mathematics, Aligarh Muslim University, Aligarh, Uttar Pradesh, India
Percentage–69.4%, First Division.
Main Subjects: Functional Analysis & Topology, Complex analysis and Real Analysis, Partial Differential Equations, Modern Algebra, Measure Theory.

2009-2012	**Bachelor of Science-Honours (B.Sc.(Hons.))**, Department of Mathematics, Aligarh Muslim University, Aligarh, Uttar Pradesh, India **Percentage–61%**, First Division. *Main Subjects: Mathematics, Physics, Statistics and Probability*
2007-2009	**Intermediate (10+2 std.), U.P. Board**, St. John's School, Lohta, Varanasi, Uttar Pradesh, India **Percentage–73.8%** First Division. *Main Subjects: Mathematics, Physics, Chemistry, English.*
2006-2007	**High school (10 std.), U.P. Board**, St. John's School, Lohta, Varanasi, Uttar Pradesh, India **Percentage–69.3%** First Division. *Main Subjects: Mathematics, Science, Social Science, English.*

Ph.D Thesis

Title	A study of some properties and applications of generalized polynomials and multivariable special functions.
Supervisor	Prof. Nabiullah Khan, Department of Applied Mathematics, Aligarh Muslim University(AMU), Aligarh, Uttar Pradesh, India.

Statement of Research experience

Research Fields	Special Function. Integral Transform Fractional Calculus Generalized polynomials Post Quantum Calculus

Computer Skills

Software	LaTeX, Matlab, Microsoft Office.
Operating Systems	Windows, Linux.

Course Taught

- ODE and PDE (B.Sc-Mathematics)

- Engineering Mathematics-I (B.Tech)

- Mathematics-I (BCA)

- Business Mathematics (BBA)

- Business Statistics, Quantitative techniques (B.Com)

- Statistical Method (B.Sc-Agriculture)

- Remedial Mathematics (B.Pharm)

▬▬ Achievements / Certificate

Fellowships • Received UGC Non NET Fellowship, May-2019 to May-2023.

Scholarships • Received Merit-Cum Means Scholarship during M.Sc. from Aligarh Muslim University, Aligarh, Granted by Govt. of India.

- Received Merit-Cum Means Scholarship during B.Sc. from Aligarh Muslim University, Aligarh, Granted by Govt. of India.

- Awarded of "Washington D.C. Scholarship" given by AMU Alumni Association, Washington D.C., U.S.A. during Bachelor Degree from 2009 to 2012.

▬▬ Book Chapters

(**1**) **Saddam Husain**[*] and Nabiullah Khan, "Certain generalization of Appell's and Riemann Liouville fractional derivative operators and their applications" in **Modeling discrete and continuous systems governed by ordinary, partial and fractional derivatives (Springer Nature)**, Edited by Mohamed Kharrat, Noutessadat Touafek and Moez Krichen, 2023.
   - **Status- Accepted.**

▬▬ Published Research papers

(**1**) Nabiullah Khan, Rakibul SK and **Saddam Husain** and Mohd Asif Shah, "Certain study of generalized Hurwitz-Lerch zeta function and fractional kinetic equation", **Research in Mathematics**, 11(1), 2024.
   URL:https://doi.org/10.1080/27684830.2024.2331419.
   - **Indexing- ESCI, Scopus**   • **Impact Factor- 1.0**

(**2**) **Saddam Husain**, Nabiullah Khan, Talha Usman and Junesang Choi, "Analysis of (p, q)-Sine and (p, q)-Cosine μ-array type polynomials", **Analysis (De-Gruyter)**, 2023.
   https://doi.org/10.1515/anly-2023-0042
   - **Indexing- Scopus.** .

(**3**) Nabiullah Khan and **Saddam Husain**, "Certain study of generalized Apostol-Bernoulli based Poly-Daehee polynomials and its properties", Indian Journal of Mathematics, 65(1), 2023, 83-101.
   - **Indexing- Scopus.**

(**4**) Nabiullah Khan and **Saddam Husain**[*], "A family of Apostol-Euler polynomials associated with Bell Polynomials", **Analysis (De-Gruyter)**,

43(3), 2022.
https://doi.org/10.1515/anly-2022-1101.
- **Indexing- Scopus.**

(5) Nabiullah Khan, Mohd Iqbal Khan, **Saddam Husain** and Mohd Asif Shah, "Certain results on generalized Humbert-Hermite polynomials", **Research in Mathematics**, 10(1), 2023.
URL:https://doi.org/10.1080/27684830.2023.2215577.
- **Indexing- ESCI, Scopus**   • **Impact Factor- 1.0**

(6) Nabiullah Khan, **Saddam Husain*** and M. Iqbal Khan, "Analysis of an Extended Whittaker function and its properties", **Honam Mathematical journal**, 45(2), 2023.
URL: https://doi.org/10.5831/HMJ.2023.45.2.184.
- **Indexing- ESCI.**

(7) Nabiullah Khan, **Saddam Husain** and Owais Khan, "A novel kind of new Beta logarithmic function and their properties", **Hacettepe Journal of Mathematics and Statistics**, 52(4), 2023.
URL: https://dergipark.org.tr/en/pub/hujms/issue/42398/1153572.
- **Indexing- SCIE, Scopus**   • **Impact Factor- 0.86 (Q2)**

(8) Nabiullah Khan and **Saddam Husain**, "A novel Beta matrix function via Wiman matrix function and their applications", **Analysis (De-Gruyter)**, 43(3), 2023.
URL: https://doi.org/10.1515/anly-2022-1098.
- **Indexing- Scopus.**

(9) Nabiullah Khan, **Saddam Husain**, Talha Usman and Serkan Araci, "A new family of Apostol Genocchi polynomials associated with their certain identities", **Applied Mathematics in Science and Engineering**, 31(1), 1-19, 2023.
URL: https://doi.org/10.1080/27690911.2022.2155641.
- **Indexing- SCIE, Scopus**   • **Impact Factor- 1.3 (Q2)**

(10) Nabiullah Khan, **Saddam Husain**, Talha Usman and Serkan Araci, "Results Concerning the Analysis of Multi-Index Whittaker Function, **Journal of Mathematics (Hindawi)**, Volume 2022, Article ID 3828104.
URL: https://doi.org/10.1155/2022/3828104.
- **Indexing- SCIE, Scopus**   • **Impact Factor- 1.55**

(11) Nabiullah Khan and **Saddam Husain**, "A note on extended beta function involving generalized Mittag-Leffler function and its applications", **TWMS, J. Applied & Eng. Math.**, Vol. 12(1), p. 71-81, (2022).
URL:https://jaem.isikun.edu.tr/web/images/articles/vol.12.no.1/07.pdf
- **Indexing- ESCI, Scopus**

(12) Mohammad Kamrujjama, Daud and **Saddam Husain***, "Bell based Apostol-Bernoulli polynomials and its properties", **International Jour-**

nal of Applied and Computational Mathematics**, 8(1), 18, (2022).
URL: https://doi.org/10.1007/s40819-021-01213-0.
- **Indexing- Scopus**

(**13**) Nabiullah Khan and **Saddam Husain**, "Analysis of Bell Based Euler polynomials and their Application", **International Journal of Applied and Computational Mathematics**, 7(5), 195, (2021).
URL: https://doi.org/10.1007/s40819-021-01127-x.
- **Indexing- Scopus**

(**14**) Rais Ahmad, Imran Ali, **Saddam Husain**, Abdul Latif and Ching-Feng Wen, "Generalized Implicit Set- Valued Variational Inclusion Problem With XOR- Operation", **Mathematics (MDPI)**, Vol. 7(5), 421, (2019).
URL: https://doi.org/10.3390/math7050421.
- **Indexing- SCIE**   • **Impact Factor- 2.4 (Q1)**

(**15**) Syed Shakaib Irfan, Mijanur Rahman, Iqbal Ahmad, Rais Ahmad, **Saddam Husain**,"Generalized Nonsmooth Exponential-Type Vector Variational-Like Inequalities and Nonsmooth Vector Optimization Problems in Asplund Spaces", **Mathematics (MDPI)**, Vol. 7(4), 345, (2019).
URL: https://doi.org/10.3390/math7040345.
- **Indexing- SCIE**   • **Impact Factor- 2.4 (Q1)**

(**16**) Rais Ahmad, Javed Iqbal, Shakeel Ahmad and **Saddam Husain**, "Solving a Variational Inclusion Problem With Its Corresponding Resolvent Equation Problem Involving XOR- Operation", **Non-Linear Functional Analysis and Application**, Vol. 24, No. 3, (2019).
URL: https://10.22771/nfaa.2019.24.03.10.
- **Indexing- ESCI, Scopus**

Communicated Research papers

(**1**) Nabiullah Khan and **Saddam Husain***, "Certain Results On Generalized Apostol-Euler Polynomials Associated With Bell Pplynomials".
- **Status- Revision submitted.**

(**2**) **Saddam Husain*** and Nabiullah Khan, "Certain Study of Generalized Appell's Functions & RL Fractional Derivative Operator And Applications".
- **Status- Revision submitted.**

(**3**) **Saddam Husain*** and Nabiullah Khan, "Representation of Multi-index Caputo fractional derivative operator and their applications".
- **Status- Communicated.**

(**4**) **Saddam Husain*** and Nabiullah Khan, "A study of Bell type Apostol polynomials and their identities".
- **Status- Communicated.**

(5) **Saddam Husain**[*], "Caputo fractional derivative operator via 2-parameter Mittag-Leffler function and their application".
 - **Status- Communicated.**

(6) Nabiullah Khan, Rakibul SK and **Saddam Husain**, "Certain generalization of extended beta, Gauss, Kummer, Appell's and Lauricella matrix functions".
 - **Status- Communicated.**

Reviewer

- American Mathematical Society
- Applied Mathematics in Science and Engineering (Taylor & Francis)
- Communications in Advanced Mathematical Sciences (DergiPark)
- Journal of Mathematics (Hindawi)

National and International Conferences / Symposiums

Conferences
- Participated and paper presented of entitled **"A noval beta matrix function via Wiman matrix function and their applications"** at **" 7th International conference on Mathematics"** held on 11-13 July 2023 and organized by Fatih Sultan Mehmet Vakif University, Istanbul, Turkey.

- Participated and paper presented of entitled **"Certain study of generalized Apostol-Bernoulli based poly-Daehee polynomials"** at **"International conference on orthogonal polynomials, special functions and computer Algebra: Application in Engineering-2022"** held on 15-16 October 2022 and organized by Anand international college of engineering, Jaipur, India.

- Participated and paper presented of entitled **"Result concerning the analysis of Multi-index Whittaker function"** at **"International Conference on Fractional"** held on 18-19 January 2022 and organized by Department of Mathematics, University of Hyderabad, Hyderabad, India.

- Participated and paper presented of entitled **"Bell based Apostol-Genocchi polynomials and its properties"** at **"International Conference on Special Functions and Applications"** held on 22-24 December 2021 and organized by Department of Mathematics, University of Kerala, Kerala, India.

- Participated and paper presented of entitled **"Unified presentation of generalized extended Whittaker function"** at **"International Conference on Special Functions and Applications"** held on 22-23 December

2020 and organized by Department of Mathematics and Computer Science, Babu Banarasi Das University, Lucknow, Uttar-Pradesh, India.

- Participated and paper presented of entitled **"A Note on extended beta function involving generalized Mittag-Leffler function and its application"** at **"International Conference on Special Functions and Applications"** held on 21-23 October 2019 and organized by Department of Mathematics, University College of Engineering and Technology, Bikaner, Rajasthan, India.

- Participated International Symposium on **"Recent Advances in Fractional calculus"** held on 30th september to 1st october 2021 organized by Department of Mathematical Sciences, P. D. intitute of Applied Sciences (PDPIAS), Charotar University of Sciences and Technology (CHARUSAT), Changa, Gujarat, India.

- Participated **"The second International Conference of Mathematics & its Applications"** held on 19-20 October 2021 and organized by Department of Mathematics, College of Science at king Khalid University, Abha-KSA.

Workshops / Seminar / FDP

Workshops
- Participated in **"Three day Online Workshop on LATEX"** held on 28th to 1st March 2024 organized by Department of Statistics, Punjab University, Chandigarh, India.

- Participated in **"National Workshop on Real Analysis: From Elementary to Advanced"** held on 25th October 2019 organized by Department of Mathematics, Ramanujan College, University of Delhi, New Delhi, India.

- Participated in workshop under Quality Improvement Programme (QIP) on **"Special Function for Scientist and Engineers"** held on 02-06 March, 2020 and Organized by Indian Institute of Technology (IIT), Indore, Madhya Pradesh, India.

- Participated in **"Online Workshop on Mathematics and Data Science"** organized by Thakur College of Engineering and Technology, kandivali (E), Mumbai, India during 12th july 2020 to 26th july 2020 (5 Days).

- Participated in two day workshop on **"Simulation and Modelling"** held on 18th – 19th August 2020 organized by Department of Applied Science SIRT, Sage University, Indore, Madhya Pradesh, India.

- Participated in three day International training workshop on **"Computational Special functions and their Applications"** held on 05th – 07th April 2022 organized by MathTech Thinking Foundation, India.

Seminar
- Participated in National Webinar Series on **"Research Methodology"**

held on 12th and 13th June 2020 organized by Loyola College (Autonomous), Chennai, Tamil-Nadu, India.

- Participated in International e- seminar on **"Academic Writing: Things to know"** held on 17th july 2020 organized by Department of Mathematics, Government post Graduate College Maldevta, Raipur(Dehradun), Uttarakhand, India.

- Participated in AWSAR (Augmenting Writing Skill for Articulating Research) Webinar on **"Popular Science Writing"** held on 24th July 2020 organized by Department of Science and Technology (DST), Government of India and Vigyan Prasar.

- Participated in AWSAR (Augmenting Writing Skill for Articulating Research) Webinar on **"Popular Science Writing"** held on 27th July 2020 organized by Department of Science and Technology (DST), Government of India and Vigyan Prasar.

- Participated in AWSAR (Augmenting Writing Skill for Articulating Research) Webinar on **"Popular Science Writing"** held on 7th August 2020 organized by Department of Science and Technology (DST), Government of India and Vigyan Prasar.

FDP
- Participated in one week international E-faculty development programme on **"Fixed Point Theory and Application"** organized by the Department of Mathematics and Statistics, School of basic Science, Manipal University, Jaipur during September 15-19, 2020.

- Participated in Two week international faculty development programme on **"Current trends in Applications of Mathematics"** organized by the Department of Mathematics, School of Science and Humanities, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai-62, Tamil Nadu, India from 21-09-2022 to 04-10-2022.

- Participated in three day faculty development programme on **"Differential equations & its Applications"** organized by Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai from 03rd to 05th feb. 2023.

- Participated in five days faculty development programme for skill development on **"Role of Mathematics in Machine Learning"** organized by the Department of Mathematics, School of basic Science, SRM institute of Science and Technology, Kattankulathur from 20th to 24th feb. 2023.

- Participated in five days international faculty development program on **"Applications of Mathematics in Various Fields with Innovative Approaches"** organized by the Department of Mathematics, Bapatla Engineering College, Bapatla during November 21-25, 2023.

Refresher Course
- Participated in Two weeks Refresher Course/ FDP organized by Department of Mathematics & Statistics and Human Resource Development

Centre of Integral University From 23rd September 2023 to 9th December 2023 conducted at Integral University, Lucknow.

Personal Skills

- Good communication skills.

- The medium of study in Undergraduate and Post-graduate courses was English.

Personal Details

Mother Name:	Nazama Begam
Father Name:	Md. Shakeel Ahmad Ansari
Date of Birth:	26 January 1992
Gender:	Male
Nationality:	Indian
Marital status:	Married
Languages:	English, Hindi, Urdu
Alt. Email:	husainsaddam7@gmail.com, saddamhusainamu26@gmail.com
Present Address:	Department Mathematics and Statistics, Integral University, Lucknow-226026, Uttar Pradesh, India.
Permanent Address:	Vill-Mangalpur, Post-Mangalpur, District-Varanasi, 221107, Uttar Pradesh, India

Referees

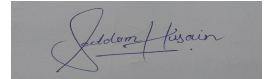|	
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Prof. Rais Ahmad	Professor
	Department of Mathematics, Aligarh Muslim University, Aligarh-202002, India
	E-mail: raisain_123@rediffmail.com
	Mobile: +91-9997561075

Declaration

"I hereby declare that all the above information provided by me is true, complete, and correct to the best of my knowledge and belief. I can provide reliable documents to support this if needed."

Date: July 11, 2024

Place: Lucknow

- * Corresponding author

Yours faithfully

(Saddam Husain)