

Dr. Syed Khalid Hasan

I, Prof. Syed Khalid Hasan, a dynamic individual with over 25 years of experience teaching undergraduate students in Engineering and Science courses.

I have taught Engineering Chemistry, Corrosion, Environment & Ecology, Non-Conventional Energy Resources, Analytical Chemistry, Inorganic, Organic, and Physical Chemistry, Pharmaceutical organic and physical chemistry at undergraduate level of B. Tech., B. Sc. & B. Pharm. My research focuses on inorganic coatings for hot corrosion, phytochemicals and polyphenols as corrosion inhibitors, and water treatment. I obtained my Ph.D. in applied chemistry in 2000 and my M.Phil in 1996 from ZH College of Engg. & Technology, AMU, Aligarh. Furthermore, I hold an M.Sc. in Chemistry (1992) and a B.Sc. in PCM (1990) from DDU Gorakhpur University.

One Ph. D. thesis has been awarded under my guidance as co-supervisor, I have presented more than 20 conferences, including Corrosion-2013 in Orlando, Florida, USA, and the 14th Arab Chemistry Conference in Tripoli, Libya. I have been an active member of various technical committees, including NACE (2011), and hold memberships in the Indian Science Congress Association and the Association of Chemistry Teachers, India. Additionally, I serve as a reviewer for research journals and have published about 20 research papers in national and international journals, as well as conference proceedings.

I specialize in Polymers Science & Technology, specifically as an elective subject for second year B.Tech students. I have developed virtual lab simulations for the preparation of Bakelite and Urea-formaldehyde resin, which you can access online at

http://ebootathon.com/labs/beta/chemistry/EngineeringChemistryLab/exp1/ Additionally, I have authored a book titled "A Hand Book of Polymer Science," available on https://www.amazon.in/Hand-Book-Polymer-Science-Universities/dp/1649513615.

In terms of administrative responsibilities, I have held positions such as Controller of Examination, Admissions, Center Superintendent of Exam, and UPSEE center controller. I have also organized several events, including Science and Technology popularization programs and a science & technology exhibition and fair. I have actively participated in the Digital Education Program of Dr. APJ Abdul Kalam Technical University, Lucknow. My video lectures on various topics, including Conducting Polymer, Biodegradable Polymer, NMR Spectroscopy, Corrosion, and Fuels, are available. I have also served as the Convener of the Institution's Innovation Council, a program of the Ministry of Education, India, and coordinated the national program on technologically enhanced learning (NPTEL) run by IIT Madras & Kanpur, India.

Employment Details

Teaching Experience: 25+ years (Since 1998)

Present Position: Professor, Institute of Technology & Management, GIDA, Gorakhpur (From January 9, 2021)

Earlier Positions

- Associate Professor, Department of Applied Science (Chemistry), Institute of Technology & Management, ITM Technical Campus, GIDA, Gorakhpur, India (From 01/08/2015 08/01/2021)
- Assistant Prof. (Chemistry), Institute of Technology, ITM, Technical campus), GIDA, Gorakhpur (From 23/03/2011 01/08/2015)
- Sr. Lecturer, Analytical Chemistry, Department of Chemistry, Faculty of Sciences, Al-Khums, Misurata University, Libya, (Al-Margeb University, LIBYA) (October 2007– February 2011)
- Lecturer/Sr. Lecturer in Chemistry, Institute of Technology & Management, GIDA, Gorakhpur, India (July 2001 to September 2007)
- Lecturer, Chemistry/Industrial Chemistry, Faiz-E-Aam Modern Degree College, Mathura, U.P., India.
- (From April 1998 to July 2001)

Education

Aligarh Muslim University, Aligarh, India

2000

- Ph. D. (Applied Chemistry), Faculty of Engg. & Technology
- Topic: High Temperature Studies on Some Inorganic Coatings and Related Reactions Involving Metal Oxides and Ionic Salts.

Aligarh Muslim University, Aligarh, India

1996

- M. Phil.(Applied Chemistry), 72%
- Topic: Physico-Chemical Studies on Some Inorganic Coatings.

Gorakhpur University, India

1992

• M. Sc. I Div.(Inorganic Chemistry with specialization in Analytical Chemistry)

Ph. D. Supervisor

Co-supervised one Ph. D. student on the topic Studies on some Eco-Friendly Compounds as Corrosion Inhibitors for Iron Base Alloys. Ph. D. awarded on 20/12/2024.

Publications

- "Studies on the Interaction at 1100 & 1200 K in Oxygen", M.Mobin, A.U.Malik, Sultan Ahmad, S.K.Hasan & M.Ajmal, Bull. Mater. Sci. Vol. 19, No.5, pp 807-821, 1996, (Springer Link), India.
- "Hot Corrosion on Mild Steel", M.Mobin, S.K.Hasan & M.Ajmal, Chem. Environ. Res., Vol. 8 (1 & 2) 1999, India.
- "High-Temperature Studies on Carbon Steel", M.Mobin, S.K.Hasan & H.K.Sharma, Anti Corrosion Materials and Methods, Vol.49, No.4, 2002, U.K.
- "Studies on High-Temperature Corrosion Reactions Involving Metal Oxides and Sodium Sulfate", M.Mobin & S.K.Hasan, Anti Corrosion Materials and Methods, Vol. 55, p 123-129,2008, U.K.
- "Studies on Thiourea Derivative as Corrosion Inhibitor for Aluminum in Sodium Hydroxide Solution", Salem Edrah and S. K Hasan, Journal of Applied Sciences Research, 6(8): 1045-1049, 2010, INSInet Publication, Jordan.
- "High-temperature interaction of NiO with Na 2 SO 4 in SO 2 environment at 1100 and 1200K", S. K. Hasan and M. Mobin, Portugaliae Electrochimica Acta, (29)3, 187-196, 2011, Portugal.
- "Physicochemical Analysis of Municipal Water" in Al-Khums City, Libya, S. Khalid Hasan, FouziaUsmani, Galal M. Zaiad and Salem Edra, Water Research & Development, Vol.1, No.1, 56-58, 2011, India.
- "Paniala (Flacourtia Jangomas) as corrosion inhibitor on corrosion of mild steel in acidic media", S. Khalid Hasan and Pinky Sisodia, Rasayan Journal of Chemistry, Vol.4, No.3 (2011), 548-553, India.
- "Rosemary Extract as Eco Friendly Corrosion inhibitor on Mild steel in Acidic Medium", S. Khalid Hasan & Salem Edrah, Journal of Industrial Research and Technology, Vol.1, No.2, 110-113, 2011, Malaysia.
- "Chemical Interaction of Ferric Oxide with Sodium Sulfate", M. Mobin and S. K. Hasan, J. Mater. Environ. Sci. 3 (1) (2012) 109-116, Morocco.
- "Studies on Hot corrosion reactions involving nickel oxide and sodium chloride in Cl 2 gas environment at 1100 and 1200K", S. Khalid Hasan and M. Mobin, The Journal of Corrosion science & Engineering, Vol. 14, Preprint 19, UK.
- "Paniala (Indian Plum) Leaf-Extract: A Novel", Biodegradable and Renewable Source as Corrosion Inhibitor for Low Carbon Steel, S. Khalid Hasan and Pinky Sisodia, Proceedings of the National Seminar on active and Smart Materials (NSASM-12), MMM Engineering College, Gorakhpur,23-14 March, 2012, India.
- "Hot Corrosion Behavior of Protective Oxide Scales with Sodium Chloride in Chlorine Gas Environment", S. Khalid Hasan and M. Mobin, presented in Corrosion-2013 held in Florida, USA, NACE conference March 17-21, 2013, published in the Proceeding Paper No. 2125.
- "Corrosion Inhibition of Mild Steel by Phytochemicals in Acidic Media", Pinky Sisodia and S. Khalid Hasan, The Journal of Corrosion Science & Engineering, Vol. 16, Preprint 25, UK (2013).

- "Anti Corrosion Ability of Aqueous Extract of Waste Sakhu (Shorea Robusta) Leaves" Pinky Sisodia and S. Khalid Hasan, International Journal of Engineering and Innovative Technology (IJEIT), Volume 3, Issue 11, May 2014, India.
- "Cow Urine as Corrosion Inhibitor for Aluminum Metal in Alkaline media", ISST Journal of Applied Chemistry, Vol. 5, No.1, 21-24, 2014, India
- "Water Hyacinth as Corrosion Inhibitor in 1M HCl for Mild Steel" Renu Singh, Pinky Sisodia, S. Khalid Hasan, Raghvendra Pratap Singh, Zeichen Journal, Volume 7, Issue 12, 2021, Page 322-338, India
- "Corrosion inhibition properties of a substituted water hyasinth on mild steel in 1M HCl", Pinky Sisodia, Renu Singh, S. Khalid Hasan, Biological Forum, 15(5): 1187-1193, 2023
- Inhibitory effects of cuscuta reflexa (amerbel) on the corrosion of iron in 1m hydrochloric acid: a green approach, Pinky Sisodia, Renu Singh and S. Khalid Hasan, Rasayan J. Chem. Vol. 17, No. 1, 236-243, January March, 2024, India.

Paper/Talk Presented

- Invited talk on medicinal plants, Workshop on Conservation of Medicinal Plants, Organized by The Living World Society, National Environmental Awareness Campaign, March 2-3, 1997, Gorakhpur, India.
- Invited Talk on conservation of trees, workshop on conservation of trees for environmental protection, National Environmental Awareness Campaign, 1st May, 1998, Gorakhpur, India.
- Hot Corrosion Behavior of Aluminide Coating on Mild Steel, International Conference on Chemistry, Industry & Environment, February 9-11, 1998, A.M.U., Aligarh, India.
- Invited talk on sustainable development & environmental pollution, Workshop on "Sustainable Development and Environmental Pollution, March 20, 2002, Gorakhpur, India.
- High Temperature Interaction of Chromium Oxide and Aluminum Oxide with Sodium Sulfate in SO2 Environment at 1100 and 1200 K, 14th Arab Chemistry Conference (ACC-14), 31.03.08 03.04.08, Tripoli, Libya.
- Paniala (Indian Plum) Leaf Extract- A novel biodegradable and renewable source as corrosion inhibitor, National Seminar on active and Smart Materials (NSASM-12), MMM Engineering College, Gorakhpur, 23-14 March, 2012, India.
- Invited Lecture on Phytochemicals as corrosion inhibitor, Refresher Course, Department of Botany, DDD University of Gorakhpur. Jan. 01, 2013, India
- Paper entitled "Hot Corrosion Behavior of Protective Oxide Scales with Sodium Chloride in Chlorine Gas Environment" presented in Corrosion-2013, NACE conference March 17-21, 2013, Orlando, Florida, USA,
- Paper entitled "Cow Urine as Corrosion Inhibitor for Aluminum Metal in Alkaline media", National Conference on Advancement in Systems and Technologies, NCAST-2014, ITM, Jan. 23-25, 2014, Gorakhpur, India
- Corrosion of metal inside the human body- A vital issue, National Seminar on current trends in chemical sciences, St. Andrews College, Gorakhpur, July 12-13, 2014.
- Paper entitled "Studies on Corrosion Inhibition of Mild Steel by Jal Kumbhi (Water Hyacinth)
 Leaves in 1M HCl, National Conference on Recent Advances in Chemical and Materials
 Science(NCRACMS-15), 23-24 Feb, 2015, Pinky Sisodia, S. Khalid Hasan, MMM University of
 Technology, Gorakhpur, India
- Paper entitled "Degradation Mechanism of Protective Metal Oxide Film in Aggressive Corrosion Environment" at 18th NATIONAL CONGRESS ON CORROSION CONTROL, 24 26, February 2016, Hotel Green Park, Chennai, organized by National Corrosion Council of India, Karaikudi.
- Aqueous extract of leaves of Shorea Robusta as corrosion inhibitor for mild steel in hydrochloric acid, National conference on current trends in chemical & environmental sciences, Institute of Technology & Management, GIDA Gorakhpur, April 22-23, 2016.
- Reaction of initial scaling product Fe2O3 in presence of SO2(g) relevant to hot corrosion, National conference on current trends in chemical & environmental sciences, Institute of Technology & Management, GIDA Gorakhpur, April 22-23, 2016.

- Influence of Climatic Condition of Storage And Packaging of Drugs And Consequences on Medication: A Review, Ehraz Mahmood Siddiqui, Ashutosh Mishra, **S. Khalid Hasan**, 5 March, 2017, National Seminar on Recent Trends in Medication through Pharmaceutical Researches, Aryakul Group of Institutions, **Lucknow**.
- Combating Corrosion by phytochemicals, International Conference on Green Chemistry & Environmental Health, Marwar Business School, September 25-26, 2017
- Development of Aluminide Coating on Iron Base Alloys for Application in Protection Against Hot Corrosion, National Conference on Recent Trends in Engineering, Science, Management & Pharmacy, Institute of Technology & Management, GIDA, Gorakhpur, November 17-18, 2018.
- Delivered speech as Chief speaker on World Energy Conservation Day, December 14, 2018, organized by The Institute of Engineering India, at DAVPG College, Gorakhpur.
- Shared Views on the occasion of 1st National Conference on Universal Human Values in Higher Education "Developing Holistic Perspective", organized by Value Education Cell, AKTU, Institute of Engineering & Technology, Lucknow, July 6-8, 2019
- Panel Discussion, 2nd National Conference on Human Values in Higher Education "AKTU as a Living Model for Sustainable Human Society", organized by TEQIP-III, Value Education Cell, AKTU, at Indreprastha Engineering College, Ghaziabad, July 18-20, 2019.

Books Written

• A Hand Book of Polymer Science, Published by Xpress Publishing, Notion Press, available on Amazon, 2020 (ISBN 978-1-64951-361-8)

Computer Skills

• Short Term Course in Computer Application & Programming, Computer Centre, A.M.U., Aligarh, 1996

Conferences and workshops

- Participated in National Service Scheme (NSS) program, Gorakhpur, 1987-88
- Participated in National Youth Project, National Integration & Communal Harmony Camp, May 21-28, 1991, Varanasi. India.
- International Conference on Thermal Treatment of Materials, Feb.3-6,1995, Mumbai, India.
- International Conference on Chemistry, Industry & Environment, Feb.9-11, 1998, Aligarh, India.
- Regional Conference of Distt. Co-ordinators (M.P./U.P.), National Children's Science Congress, July 13-14, 2000, **Bhopal, India**.
- National seminar on Nanotechnology, NANOTECH-2004, Nov. 5-6, 2004, ITM, GIDA, Gorakhpur, India.
- National Seminar on Biotechnology and Conservation of Biodiversity, Nov. 25- 26, 2006. Department of Chemistry, MGPG College, Gorakhpur.
- 1st Uttar Pradesh Science Congress, DDU, Gorakhpur University, March 2nd-4th, 2013.
- Workshop on Green Energy for Sustainable Development: Role of Educational Institutions 21st January, 2016 (Thursday), Madan Mohan Malaviya University of Technology Gorakhpur (U. P.) India.
- NPTEL SPOC Felicitation and Workshop organized by IIT, Kanpur, India, 16th July, 2022, IIT Kanpur Outreach Center, Noida.

Faculty Development Program

- 8-Day FDP on Human Values and Professional Ethics organized by TEQIP-III, VE Cell, Dr. APJ Abdul Kalam Technical University, Nov. 29- Dec. 06, 2018 at ITM, GIDA, Gorakhpur
- 8-Day FDP (Refresher Workshop)on Human Values and Professional Ethics organized by TEQIP-III, VE Cell, Dr. APJ Abdul Kalam Technical University, June 13-20, 2019 at ITM, GIDA, Gorakhpur.
- 5-Day Webinar on Climate Change and Disaster Management, organized by National Institute of Technical Teachers Training and Research, Chandigarh, February 10-14, 2020, ITM GIDA, Gorakhpur.
- IYPT-2019 International Short Term Certification Course, Organized by United Nations Educational, Scientific and Cultural Organization and international Year of Periodic Table of Chemical Elements.
- A Six-Days National-Level Virtual Faculty Development Program (FDP) on Prospective Research On Sustainable Development: Recent Trends and Future Prospects, 19th to 24th August 2024, organized by the Department of Chemistry, School of Basic Sciences, VISTAS, Chennai.

Webinars

- International Webinar on empowering Diversity in Science, organized by Kamla Nehru Mavidyalay Nagpur, Association of Chemistry Teachers TIFR, Mumbai (India) in collaboration of IUPAC, Feburary 9, 2021.
- Future scope of Chemical Sciences and Research Methodology, September 21-25, 2020, MMM University of Technology, Gorakhpur, India.
- Webinar on Water Challenges during and Post Covid-19, May 7-28, 2020, IIT, Madras & ICCW India.
- The International Education & Skills Summit TIESS-2021, January 27-30, 2021, India Didatics Association.
- Key note Lecture on Polyphenols as corrosion inhibitor at 5th International Annual Science Symposium (ESTEEM-22), Jubail University College, Jubail, KSA, May 5, 2022.
- Attended Know Talks Session Towards a Better Future of AI, organized by Mohammed Bin Rashid Al-Makhtoum Knowledge Foundation (MBRF)& The United Nations Development Program (UNDP), May 29, 2022, UAE
- Participated in Webinar on IP Awareness/Training program under National Intellectual Property Awareness Mission, organized by Intellectual property Office, India, February 28, 2023
- Participated as delegate online in 9th International Conference on Human Values in Higher Education (ICHVE-2024), organized by UHV Foundation, AICTE, Dated November 22-24, 2024

Virtual Labs

Developement

- Developed virtual Lab of "Preparation of Phenol-formaldehyde Resin and Urea-formaldehyde resin", eBooTathon, Dr. APJ Abdul Kalam Technical University, Lucknow, India
- Developed virtual Lab of 'Determination of Rate Constant of Hydrolysis of Ester', eBooTathon, Dr. APJ Abdul Kalam Technical University, Lucknow, India

Events Organised

- District Coordinator, Mathura, National Children's Science Congress (A Science Popularization Program of D.S.T., New Delhi, India.), 1999.
- District Coordinator, Mathura, National Children's Science Congress (A Science Popularization Program of D.S.T., New Delhi, India.), December 3-4, 2000)
- Organized a meeting on "Planned Family" with the community and religious leaders of Gorakhpur in collaboration with State innovation in family planning services project agency (SIFPSA), Lucknow, Feb. 23, 2014, Gorakhpur.
- Co-Convener, Science Popularization Programme, SciTech-2015, ITM, GIDA, Gorakhpur, October 31 & November 1, 2015.

- Co-Convener of National Conference on Current Trends in Chemical and Environmental Sciences, April 22, 2016, held at Institute of Technology & Management, GIDA, Gorakhpur.
- Convener, Science Popularization Programme, SciTech-2016, ITM, GIDA, Gorakhpur, October 20-22, 2016.
- Organized an expert talk on entrepreneurship by Er. Ajay Kumar Jaiswal, Executive Director, Urja Gasifir Pvt. Ltd., Gorakhpur under Institution' Innovation Council programme. September 11, 2021.
- Organized an exprt talk on Intellectual Property Rights by Ms Pooja Kumar, Founder & Director of Innove Intellects LLP, Ghazibad, 30/01/2021 (Online),
- Organized an Expert Talk on An expert talk on Innovation & Intellectual Property by Ms Akansha Agrawal, Founder & MD License Bazar Pvt. Ltd., Ms Kritika Arora, Associaate Partner and Ms. Arushi Sagar, Business Consultant, License Bazar held on 01/02/2021 in online mode.
- Smart India Hackathon at ITM GIDA, Gorakhpur, April, 2022,
- World Entrepreneurs Day at the Institute of Technology & Management, GIDA Gorakhpur, August 21, 2022.

Projects Guided

- A project on "Air Pollution" for students of Faiz-e-Aam School, Mathura, on National Children Science Congress, Holy Public School, Agra, November 28-29, 1999,
- Under Graduate Dissertation on Corrosion Analysis of Mild Steel in Acidic Medium of Various Concentrations, Department of Chemistry, Faculty of Arts and Sciences, Al-MergebUnivesrsity, Al-Khums, Libya, 2009-10
- Under Graduate Studies on Thio Urea Derivatives as corrosion inhibitors for aluminium in sodium hydroxide, Department of Chemistry, Faculty of Arts and Sciences, Al-Mergeb University, Al-Khums, Libya, 2009-10
- Under Graduate Dissertation on Physico Chemical Analysis of Soil, Department of Chemistry, Faculty of Arts and Sciences, Al-Mergeb University, Al-Khums, Libya, 2009-10.

Other Positions

- Member Editorial Board, Institute Magazine, UNMESH, 2004
- Assistant Editor, ISEP News Letter, International Society for Environmental Protection, Gorakhpur University, Gorakhpur, 1993
- Assistant Editor, Hindi Patrika- Hamara Paryavaran, published by International Society for Environmental Protection, Gorakhpur University, Gorakhpur, 1993

Responsibilities

- SPOC NPTEL Local Chapter Since 2018
- SPOC E & ICT Academy, IIT Kanpur Since 2020
- Co-ordinator NISP implementation program
- Convener & Vice President Institution's Innovation Council 2021

Extracurricular & Administrative Responsibilities

- Convener, Cultural & Co-curricular Activities committee, ITM, GIDA, 2003-05
- Dy. Chief Proctor, Institute of Technology & Management, GIDA, Gorakgpur, 2013-14
- Controller of Examination, Institute of Technology & Management, GIDA, Gorakhpur, 2014-2017.

- Convener, ITM Energy Conservation Awareness Cell, ITM, GIDA,
- Chairman, Research & Development Cell, ITM, GIDA, Gorakhpur, 2018

Examination centre Responsibilities

- Center Controller, End Semester Exam., GautamBuddh Technical University, Lucknow, May, 2011
- Center Controller, UPSEE-2012 Exam, at Center SRMS, Bareilly, April 2012
- Center Controller, End Semester Exam., GautamBuddh Technical University, Lucknow, May, 2012
- Center Superintendent, UPSEE-2016, Exam. At center Institute of Technology & Management, GIDA, Gorakhpur
- Center Superintendent, End Semester Exam. Dr. APJ Abdul Kalam Technical University at center ITM GIDA, Gorakhpur, odd sem. 2017.
- Dy. Center Superintendent, CTET Examination, at center ITM, GIDA, December 09, 2018.

Memberships

- Honorary member of Research Board of Advisors, American Biographical Institute, USA, 2000.
- Life Member, The Science Congress Association, India since 2012 (No. L2017)
- Life Member, The Association of Chemistry Teachers, HomiBhabha Center for Science education, TIFR, Mumbai, since 2017 (No. 1967)
- National Association of Corrosion Engineers (NACE), USA. 2011
- Member- Academic Council of Kamla Nehru Institute of Technology, Sultanpur, India (2017 & 2018)
- Departmental Coordination Committee, Applied Science, ITM, GIDA, 2007.
- Departmental Academic Committee, Applied Sciences, ITM, GIDA, Gorakhpur, 2018.

Awards and Honors

- Certificate of Appreciation as Active SPOC of NPTEL AWYAM Courses at ITM Local Chapter by IIT Madras, 2022 and 2023.
- Certificate of Recognition as SPOC for E & ICT Academy, IIT Kanpur at ITM GIDA 2020
- Certificate of Appreciation as Active SPOC of NPTEL AWYAM Courses at ITM Local Chapter by IIT Madras, 2019.
- South Asian Education Award, Official Spotlight in Best Faculty Category, Hyderabad March 10, 2019
- Certificate of Appreciation for dedication, ITM, GIDA, Gorakhpur, 2016
- Nominated for Gold Medal by American Biographical Institute, USA, 2008
- Nominated for the Man of the Year 1999 by American Biographical Institute (ABI), USA.
- The Best Volunteer by The International Society for Environmental Protection, Gorakhpur, 1992, India
- World's Best Teacher Award by Axis Bank in collaboration with ITM Group of Institutions, Gorakhpur on the occasion of Teacher's Day 2022.

Invitation (Not Attended)

• As speaker at BIT's 4th Annual World Congress of Ocean-2015, November 6-8, 2015, Oingdao, China.

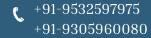
Countries visited

- Libya- Served as faculty from 2007-2011
- Saudi Arabia Haj pilgrimage, 2012
- USA Attended International Conference, Corrosion-2013, Orlando, Florida, March 17-21, 2013.
- Nepal- on educational tour and as tourist several times.

Reviewer

- The Journal of Aquatic Sciences, published by Association of Aquatic Sciences of Nigeria.
- Journal of Material and Environmental science, Morocco
- Journal of Environmental Chemical Engineering (Elsevier)
- Journal of Water Resource and Protection SCIRP, Scientific research
- Chemical Engineering Communication, Talor& Francis, USA







• 'AL-FATIMA', Basantpur, Gorakhpur-273005 (U.P.), India

Place: Gorakhpur

Dated: Dr. Syed Khalid Hasan