

CV: MOHAMMAD USAMA



CURRENT ACADEMIC DESIGNATION:

- Assistant Professor, Department of Environmental Science, Integral University, Lucknow.

EXPERIENCE:

Teaching Experience of around **18 years** of **Undergraduate & Post Graduate level**

- ✚ Experience at Integral University. (**Assistant Professor:** 01/01/13 to Till Date)
- ✚ Experience at Integral University. (**Sr. Lecturer:** 17/7/12 to 31/12/12)
- ✚ Experience at Azad Institute of Engineering & Technology: (**Lecturer:** 11/8/08 to 17/7/12)
- ✚ Taught at Undergraduate & Post Graduate Level in Bundelkhand University, Jhansi.(During 2006-2008)

ACADEMIC QUALIFICATION:

Examinations	Name of the Board / University	Year of Passing	Division	Subject	% / Rank
PhD Environmental Science	Integral University	2023	-	Environmental Science	-
UGC –NET	UGC	2009		Environmental Science	
M-Phil	Bundelkhand University	2008	I st	Environmental Science	80.1% I st Rank Topper
MSc	Bundelkhand University	2006	I st	Environmental Science	78.8% I st Rank Topper
Graduation-BSc	Lucknow University	2003	II nd	Zoology, Botany, Chemistry	55 %
Intermediate	UP Board	2000	I st	General Hindi, English, Physics, Chemistry, Biology	63.20 %
High School	UP Board	1998	I st	Hindi, English, Biology, Mathematics 2, Science2 Social Science	62.83 %

AWARD & HONOURS:

- Nodal Officer of Integral University “India Universities and Institutions Network for Disaster Risk Reduction (IUINDRR-NIDM) of National Institute of Disaster Management, Ministry of Home affairs, Government of India”.
- **Certificate of Excellence (grade (A+)) & was the top performer** (Awarded Medal) in Teaching Skill & communication Development Programme" (3rd July to 20 July 2019)
- **“Certificate of Excellence”** by IIT Bombay for being among the Top 320 performers from a total of 1571 certified participants in 4 Week Faculty Development workshop.
- Delivered a radio talk as expert at Gyan Vani on topic “Climate change & Agriculture” on 4th June 2018.
- Appreciation letter from IIT Bombay for my role in training & Certification of more than **15,000 students** & organizing more than **104 Workshops. (2018)**
- For spreading awareness and dissemination of Agriculture based Massive online courses (agMOOC), IIT Kanpur & Common Wealth of Learning Canada awarded me with an appreciation letter. **(2018)**
- Spoken Tutorial Project, IIT Bombay, government of India: **University Centre Coordinator of Integral University.**
- Resource Person of Spoken Tutorial Project, IIT Bombay.
- IIT Bombay Remote Centre Coordinator
- Awarded “UGC -NET” certificate for the subject Environmental Sciences” in the year **2009.**
- Adjudged “Best Faculty” for subject **“Environment and Ecology”** for the year academic year **2008-2009** by Azad Institute of Engineering and Technology.

WORKSHOP/FDP/EVENTS ORGANISED:

- Organized as Co- Convener “*Career Guidance Session On “Career Opportunities in Multidisciplinary Fields”*” on 25th September, 2024.
- Organized as Co- Convener International Training Cum workshop on “*Integration of GIS & Disaster Risk Reduction for a Resilient & Sustainable Community*”, 29th November to 5th December, 2023.
- Organized as Convener Face to Face Training/Workshop on “*Disaster Risk Reduction*” on 6th June, 2023.
- Organised PDP as Coordinator Professional Development Program (PDP) On “*Global Environmental Problems & Its Remedial Measures*” November, 16-30, 2021.
- Organised as faculty Coordinator “*World Environment Day & World Bicycle Day*”, 11 June, 2022.
- Organized Faculty Development Workshop at Integral University in collaboration with IIT Bombay “*Libre Office*” on 23/9/17 as Convener.
- One Week -AICTE approved Short Term Training Course on “*Climate Change & Disaster Management through ICT*” at Integral University in collaboration with National Institute of Technical Teachers Training Institute (NITTTR), Chandigarh (2017).
- Organized “*On the Spot Painting Competition*” at Lucknow Mahotsava, 2016.

- 104 Workshops of Spoken Tutorial Project of IIT Bombay were organised under my guidance.

CONFERENCE:

- Attended International Conference on “*Innovative Approaches in Higher Education*” on 29th January 2022 organised by University of Mumbai, Department of Education & MKLM’S B L Ambani College of Commerce & economics M R Nathwani College of Arts Ville Parle (W), Mumbai.
- Attended International Conference on “*Himalayan Cryosphere (IHC-2020)*” on 19th to 23rd October 2020 organised by Divecha Centre for Climate Change ,Indian Institute of Science Bangalore
- Attended “*ALLERGY Update: Conference Cum Workshop*” on 31st October, 2018 organised by Integral Institute of Medical Sciences & Research, Integral University, Lucknow.
- Attended National Conference on “*Novel Tools & Treatment Approaches in Health Care System*” on 3rd March, 2015 organized by Department of Pharmacy, Integral University, Lucknow.
- Attended National Conference on “*Nanosciences, Nanotoxicology & Nanoinformatics*” Present & Future Perspectives” on 14rd to 15th March, 2015 organised by Department of Biosciences & Bioengineering, Integral University in collaboration with department of NanoBiotechnology, Life Science Foundation, India.
- Attended “*National Convention on Organic Farming*” organized by NITTTR, Chandigarh. (28Feb. -2nd March,2015).
- Attended National Conference on “*Nanoscience & Biotechnology - Present & Future Prospectives*” organized by Department of Nanobiotechnology, Life Science Foundation India, Karnataka in collaboration with Department of Bioengineering, Faculty of Engineering, Integral University, Lucknow on 20th April 2013.
- Attended & participated in Fourth International Conference on “*Plants & Environmental Pollution*” organized by International Society of Environmental Botanists & National Botanical Research Institute, Lucknow on Dec.8 to 11,2010.
- Attended National conference on “*Management of Land Resources & Land-Use Towards Sustainable Development*” organized by Institute of Environment & Development Studies, Bundelkhand University on Oct. 18 & 19 ,2005.

SEMINAR:

- Attended One day Seminar on “*Following the Research Workflow using Elsevier’s Tools*” organized by HRDC, Integral University in collaboration with Elsevier, India on 6th March, 2018.

- Attended “*Webinar- I on Air Pollution & Cities*”2015, organized by TERI University. (19th October,2015).
- Attended & participated in National Seminar on “*Sustainable development of Rural India by 2022*” organized by the department of Rural Development, National Institute of Technical Teachers Training Institute, Chandigarh on 7th to 8th March 2013.
- National Seminar on “*Climate Change & Sustainable Development Regional & Grassroot Initiatives*” organized by the department of Rural Development, National Institute of Technical Teachers Training Institute, Chandigarh on March.4 to 5 ,2010.
- Attended National Seminar on “*Bioremediation & Environmental Toxicology*” organized by Institute of Environment & Development Studies, Bundelkhand University on 19th May2005.

MEMBERSHIP OF ACADEMIC BODIES:

- Indian water Resource Society, Indian Institute of Technology (IIT), Roorkee (**Life Membership**)
- International Society of Environmental Botanist, NBRI, Lucknow. Roorkee (**Life Membership**)
- Indian Science Congress Association. Roorkee (**Life Membership**)
- Clean & Green Society. Lucknow (**Life Membership**)
- Academic Honour Society, Lucknow Christian College, Lucknow.

FACULTY DEVELOPMENT PROGRAMS / SHORT TERM COURSE/SUMMER SCHOOL:

- FDP on “*Integrated Water Resource Management*” organized by Civil Engineering Department, NITTTR, Chandigarh between 26 February 2024 to 01 March 2024
- FDP on “*Gender & Disaster Management*” organized by NIDM & KESSCS Women Development & Empowerment Cell (WDEC) between 22 – 24 August 2024.
- PDP on “*Recent Trends in Green Technology for Sustainable Life*” organised by Electrical Engineering Department, Integral University, Lucknow between 2 to 16 November 2021.
- Seven Day Refresher Course on “*National Educational Policy (NEP) 2020*” organised by HRDC – Integral University, Lucknow between 24 February to 3 March 2021.
- Training Programme on “*Environment and Disaster: Integrated Risk , Resilience & Sustainable Development*” organised by National Institute of Disaster Management, New Delhi (22-24 June ,2020)
- “*Teaching Skills and Communication Development*’ Programme organised by Maxel learning Private Ltd. & Integral University, Lucknow between 3rd July to 20th July 2019.
- Two Week - Faculty development Program on “*FDP201x, Pedagogy for Online & Blended Teaching Learning Process*” organized by IIT Bombay (Duration : 03/04/2018 – 30/04/2018)
- FDP on “*Xcel in Excel*” organized by Department of Computer Science & Engineering Technology between 22 to 28 May 2018 .

- AICTE approved Faculty Development programme on “ *Pedagogy for Online & Blended Learning Process*” organised by IIT Bombay between 3 May to 30 May 2018.
- Two Week - Faculty development Program on “*FDP101x, Foundation Program in ICT for Education*” organized by IIT Bombay (Duration : 08/03/2018 – 12/04/2018)
- Course on “*Hyperspectral Remote Sensing and its Applications*” organized by Indian Institute of Remote Sensing / Indian Space Research Organization /Department of Space ,Government of India from February 19 to 13 March, 2018.
- AICTE recognized Short Term course on “*Faculty Development Planning and Management*” organised by NITTTR, Chandigarh between 12 to 16 March 2018.
- One Week- AICTE recognized Short Term Course on “*Climate Change & Disaster Management through ICT*” organized by Rural Development Department, National Institute of Technical Teachers Training Institute, Chandigarh. (6/11/2017 to 10/11/2017)
- One day- Faculty Development Workshop Organized by Department of Environmental Science & IIT Bombay “*Libre Office*”.(23/9/17)
- One Week UGC – Short Term Course “*Training Programme on Gender Equality in Academic Leadership*”. (6 July, 2017 to 12 July 2017).
- One Week - AICTE recognized Short Term Course on “*Tools of Engineering Research through ICT*” organized by Electrical Engineering Department, National Institute of Technical Teachers Training Institute, Chandigarh. (30/1/2017 to 3/2/2017)
- Four Week Faculty Development Programme (FDP)- AICTE approved on “*Use of ICT in Education for Online & Blended Learning*” organized by IIT Bombay.(May 2nd,2016 to July 10, 2016)
- Entrepreneurship Workshop organised by Entrepreneurship development cell & IIT Kanpur in the year 2016.
- One Week - UGC - Short Term Course on “*Computer Applications*” organized by Aligarh Muslim University & Integral University (23 - 29 February, 2016).
- Course on “*Climate Change & Disaster Risk*” organized by Global Facility For Disaster Reduction & Recovery and National Institute of Disaster Management from 15th January to 11thFebruary 2016.
- One Week - AICTE recognized Short Term Course on “*Effective Curriculum Implementation through ICT*” conducted by Curriculum Development Centre, NITTTR, Chandigarh & Integral University, Lucknow.(24-28, August,2015).
- Summer School on “*Managing Risks and Challenges in Urban wash Delivery Service Towards a Swachh bhara*”.(3-8, August,2015)
- Completed “*General Course on Intellectual Property Rights*” conducted by World Intellectual Property Organisation. (June 8-July 21,2015)
- One Week - Attended QIP Course on “*Biotechniques for Pollution control and Resource Recovery*” held at IIT- Guwahati, organized by the centre of Environment. (July 1-5, 2013).

- International Summer School on topic “*Building Learning in Sustainability Science (BLISS)*” at TERI University, New Delhi (15-19 July, 2013.).
- Course on “*Comprehensive National Disaster Risk Management Framework*” by World Bank and National Institute of Disaster Management”, (2010).
- One Week -QIP Course on “*Environment Health and Safety Management*” at IIT-Roorkee from 25th to 29th Jan., 2010.
- One Week -Short term program on “*Environmental Protection and Sustainable Development*” at National Institute of Technical Teacher's Training & Research (NITTTR), Chandigarh from 13th to 17th September, 2009.
- 6 - months Training in National Botanical Research Institute, Lucknow.
- 6 - months Training at Biotech Park, Lucknow

AgMOOC Courses:

- Employment Generation among Rural Youth through Agripreneurship (2020)
- Integrated Pest Management (2016,2018 & 2020)
- Fundamentals of Agricultural Extension(2018)
- Basics of Entrepreneurship Development in Agriculture (2017)
- Agriculture Value Chain Management(2017)
- Weather Forecast in Agriculture and Agro- advisory (2016)
- Nutrition, Therapeutics and Health(2016)
- Fasal Utpadan Ke Mool Bhoot Siddhant(2016)
- GIS in Ag-Essentials & Applications(2016)

WORKSHOPS ATTENDED:

- Refresher Course/ workshop on “*Computational Strategies for Drug Discovery & Sustainable Development*” from 9 August to 14 October, 2023.
- International Workshop on Indo- US “*India Mission for Green Hydrogen & Go Electric*” organized by IIT Mandi on 16-17 March 2022
- Workshop on “*Plagiarism & Code of Conduct*” organised by HRDC, Integral University on 2 to 3 March 2022.
- International Workshop on “*Application of Ocean Science & Technology for the Practice of Sustainable “Blue Economy” in Developing Countries*” organised by Centre for Science & technology of the Non- Aligned and other Developing Countries (NAM S&T Centre) New Delhi, India & committee on Capacity Development of the Scientific Committee on Ocean Research (SCOR), Newark, Delaware (USA) on 8 to 9 November , 2021.
- Turnip Innovation Festival organised by Turnip Innovations on 22 January 2022.
- Workshop on “*High Performance Computation in the Agricultural Domain*” organised by IIT Kanpur, ICAR- IISR Indore & Mahindra University Hyderabad in collaboration with C-DAC Pune, IISC Bangalore, IIT Kharagpur in the year 2021.
- Online Master Class on “*Applied Energy Conservation & Management*” organised by TCS ION on 9 September 2021.

- Two Weeks QIP workshop on “*Spreadsheet Applications – Intermediate level*” organised by IQAC & HRDC, Integral University between 25 June to 15 July 2021.
- “*Sparc Indo US Immunology*” Workshop organised by IIT Ropar & The George Washington University, USA on 12 to 13 June 2020.
- Hands on Workshop “*Detection of color fluorescence and chemiluminescence through Chemi-Documentation System*” organised by Department of Bioengineering, Integral University, Lucknow on 27 April, 2018.
- Institutional workshop on “*Oil Conservation*” organized by Petroleum Conservation Research Association on 1st August, 2015.
- “*Two-Week ISTE STTP workshop on Environmental Studies*” organized by IIT Bombay. (2-12 June,2015).
- National workshop on “*Emerging Trends in Earthquake Engineering & Seismic Retrofitting Techniques*”.(25-26, April,2015).
- National workshop on “*Matlab & Embedded Systems*” by Department of Electronics, Integral University & Iqra Software Technologies Pvt., Ltd. (31, March,2015).
- National workshop on “*Teaching Pedagogy of Marketing*” by Department of Business Management, Integral University. (17, March, 2015).
- National workshop on “*Data Analysis by SPSS*” organized by Department of Mathematics, Integral University on February 25, 2015.
- 1st National level workshop on “*Intellectual property system: India today and tomorrow*” organized by Intellectual property right management cell, CCG&D, Integral university, Lucknow in collaboration with Intellectual property owners association, New Delhi on 10th January 2014.
- National level workshop on “*Fundamentals of Nanoscience & Nanotechnology*” organized by Department of Nanobiotechnology, Life Science Foundation India, Karnataka in collaboration with Department of Bioengineering, Faculty of Engineering, Integral University, Lucknow from 28th to 30th January, 2013.
- One day “*Workshop on Human Values & Ethics*” organized by SRMCEM on 12th Nov.2009.

PUBLICATIONS:

- “*Geographical analysis of fluoride and nitrate and its probabilistic health risk assessment utilizing Monte Carlo simulation and GIS in potable water in rural areas of Mathura region, Uttar Pradesh, northern India*”, Heliyon Journal (Q1 Journal), Volume 10, Issue:17, Page No.:1-13
- *Potential Application of Hough Transform to Extract Hot Spot Delineated Boundaries Using Landsat-8 Satellite Images*”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), 2020.
- “*Fertilizer Consumption in India and need of its balanced Use: A review in Indian journal of Environmental Protection*”, Page No.: 564 to 577 (UGC, Scopus indexed)
- “*Sewage Generation and Treatment Status for the City of Delhi, its Past, Present and Future Scenario- A Statistical Analysis*” in International Journal for Research in Applied Science & Engineering Technology (IJRASET), 2017.
- “*Manual Scavenging in India- A Review*” in International Journal of Novel Research and Development (IJNRD), 2017).

- *“Identification & Selection of Suitable Vermicomposting Species based on Chemical Analysis of Vermicompost”* in International Journal of Latest Trends in Engineering & Technology, 2016.
- *“Organic Farming an Approach to Sustainable Development”* International Advanced Research Journal in Science, Engineering and Technology Vol. 3, Issue 2, February 2016.
- *“Biodiversity and Species at Risk from Climate Change”* International Journal of Engineering & Management Research, Volume-5, issue-4, August,2015, Page Number: 162-167
- *“Management of Floods in Flood Prone Regions of Eastern Uttar Pradesh”*, International Advanced Research Journal in Science, Engineering and Technology Vol. 2, Issue 11, November 2015.
- *“Strategies Adopted for promoting Research on Sustainable Development in Higher Educational Institutions of India”* University News (Journal of Association of Indian Universities) Vol.51 No. 17, 2013.
- *“Intellectual property Rights and Biopiracy”* in “Environ Newsletter” of International Society of Environmental Botanist published from National Botanical Research Institute, Lucknow.

Chapter Publication:

- Chapter Published in Book “Geospatial Technology to Support Communities and Policy: Pathways to Resiliency” on Topic *“Application of Digital Technologies & Remote Sensing in Precision Agriculture for Sustainable Crop Production”* Page No. 203-223, 2024 (Publisher: Springer Nature Switzerland)
- Chapter Published in Book “The Changing Scenario of Management A Multidisciplinary Approach to Embrace Sustainability” on topic *“A Review on Achievement of Financial Security in Agrarian Economy through Sustainable Livelihoods Options in Rural India”*, Page No.: 24-38, 2022 (ISBN: 978-93-94070-28-8)
- Chapter Published in Book “Innovative Approaches in Higher Education” on topic *“Teaching and Learning by Innovative Methods used During Corona Pandemic through Online Classes”*, Page No.:78-97, 2022

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