

RESUME

NAME: ADITYA KUMAR AGARWAL

CURRENT DESIGNATION: ASSISTANT PROFESSOR

CONTACT DETAILS: adyyagrawal0902@mitsgwalior.in

SPECIALIZATION: ENVIRONMENTAL ENGINEERING

RESEARCH AREA: Waste Management, Water Quality, Water Treatment and Supply, Waste Water Engg, EIA, Air Quality Monitoring.



Profile links:-

1. **Google Scholar** – <https://scholar.google.co.in/citations?user=iokxYNcAAAAJ&hl=en>
2. **ResearchGate** – https://www.researchgate.net/profile/Aditya_Agarwal43
3. **LinkedIn** - <https://www.linkedin.com/in/aditya-kumar-agrawal-2187708b/>

EDUCATIONAL DETAILS:

Institute	University	Degree	Year	Specialization
UIT	RGPV, Bhopal	B.E.	2009	Civil Engineering
ZHCET	AMU, Aligarh	M.Tech	2012	Environmental Engineering
ABV – IIITM	ABV-IIITM	Ph.D. (Pursuing)		Environmental Management

EMPLOYMENT DETAILS:

Institute / Organization	Designation	Duration
MITS Gwalior	Assistant Professor	25/06/2015 till date
NIT Hamirpur	Lecturer	21/08/2012 till 24/06/2015
Infosys Technologies Limited, Mysore	Systems Engineer	Nov 2009 to Feb 2010

Teaching Experience: 12 years.

Research Experience: 7 years.

Industry Experience: 3 months.

Administrative Experience: 7 years.

COURSES TAUGHT:

UG LEVEL:	PG LEVEL:
1 Water Resources Engineering	1 A.T.P. – II (Sanitary Engg.)
2 Environmental Engineering - I	2 EIA & Ethics
3 Environmental Engineering - II	3 Urban Hydrology & Waste Management
4 Solid Waste, Air & Noise Pollution	4 Env. Chemistry & Microbiology
5 Construction Planning & Management	5 Solid Waste Management
6 Engineering Hydrology	6 Water Resources Planning & Management
7 Fluid Mechanics - I	
8 Water & Wastewater Engineering	
9 Hydraulics & Hydraulic Machinery	
10 Integrated Waste Management	

ADMINISTRATIVE RESPONSIBILITIES / POSITION HELD:

- Incharge Time Table, Civil Engineering Department.
- Data Manager, Civil Engineering Department.
- Coordinator, Department Website, Civil Engineering Department.
- Coordinator, Outcome Based Education, Civil Engineering Department.
- Coordinator, NBA, Civil Engineering Department.
- Member, Institute Editorial Board.
- Coordinator, MOODLE, Civil Engineering Department.
- Professor Incharge, PHE Lab, Civil Engineering Department.
- Currently Class Coordinator – M.Tech Environmental Engg. Second Year, Previously worked as Class Coordinators of U.G. Civil Engineering Third Year & Final Year.
- Member, Departmental Committee for Purchase of Equipments for Development of Civil Engineering Departmental Labs under TEQIP – III
- Member, Institutional Committee for Purchase of Furniture & Civil Work under TEQIP – III
- Member, Institutional Committee for Procurement & establishment of Waste Water Treatment Plant under TEQIP – III
- Member, Institutional Committee for Employability Skills Training under TEQIP – III
- Faculty Facilitator, Institute Startup Cell, MITS Gwalior.

MEMBERSHIP OF TECHNICAL SOCIETIES/ PROFESSIONAL BODIES**(INTERACTION ACTIVITIES) :**

- Member Board of Studies, Civil Engineering Department, MITS Gwalior.
- Life Time Member, IWWA (Indian Water Works Association).
- Life Member, ICI

AWARDS RECEIVED:

- Received a **Meritocracy award** with a certificate of recognition for his significant contribution in NPTEL examination on the eve of the MITS Day on 10.03.2022.
- Recognized as NPTEL Discipline Star (**NPTEL STAR Award**) in session July-December 2021
- Awarded Certificate of Recognition by Current World Environment in July 2018, for reviewing papers in the journal.

RESEARCH PROJECTS (Completed):

Year	Funding Agency	Title of Project	Amount Received
2020	IRS Scheme of TEQIP III	Development of Rationalized Water Quality Index	1.67 lacs

CONSULTANCY PROJECTS (Undertaken):

Presently Working on Vetting of Hydraulic Design of Water Supply Scheme of various ULBs / Towns in Gwalior – Chambal Region. (Approx. 20 Water Supply Schemes)

DETAILS OF M.E./M.Tech GUIDANCE:

S. No.	Name of Student	Title/ Area	Current Status (Awarded with date / Submitted / Ongoing)	University
1.	Manjari Ojha	Water Quality Modelling	Awarded	RGPV
2.	Rachna Sanotsh Vishwakarma	Water Treatment	Awarded	RGPV
3.	Pragya Jha	Air Quality Analysis due to covid-19	Ongoing	RGPV
4.	Shaleen Patel	Air Quality Analysis due to covid-19	Ongoing	RGPV
5.	Aditya Tomar	Indoor Air Quality Modelling	Awarded	RGPV
6.	Sapna Lodhi	Water Quality Modelling	Awarded	RGPV
7.	Varsha Miholiya	Biodemical Waste Management	Awarded	RGPV
8.	Garvit	Waste	Ongoing	RGPV

	Shrivastava	Inventory		
9.	Tej Prakash	Water Quality	Awarded	RGPV
10.	Ragini Yadav	Sewage Irrigation	Awarded	RGPV
11.	Sujeet Yadav	Removal of Chloride	Awarded	RGPV
12.	Priya Jain	Temple Waste Management	Awarded	RGPV
13.	Neha Singh	Waste Collection Route Optimization	Awarded	RGPV
14.	Riya Govil	Dairy Waste Water Management	Awarded	RGPV
15.	Vijayendra Singh Dangi	Solid Waste Management of MITS	Awarded	RGPV
16.	Dalbeer S. Kushwah	Construction Waste Management	Awarded	RGPV

REVIEWER OF JOURNALS/ CONFERENCES:

- Reviewer of 3 Journals – Current World Environment, Journal of Emerging Technologies & Innovative Research & Innovative Research in Engineering & Multidisciplinary Physical Sciences.

INVITED EXPERT LECTURES:

- Delivered Expert Lecture on EIA in 2 Weeks AICTE QIP STC on Environment Engineering & Practices, Civil Engg. Deptt., MITS Gwalior, March 2016
- Delivered Expert Lecture on EIA in 1 Week AICTE QIP STC on Sustainable Development Methods & Practices, Civil Engg. Deptt., MITS Gwalior, Feb. 2019

EVENTS / PROGRAMMES CONDUCTED (FDP / STTP / WORKSHOP / TRAINING / CONFERENCE etc.):

- Worked as Coordinator in 1 Week AICTE QIP STC on Environmental Modelling & Practices organized by the Civil Engg Deptt, 21 – 26 December 2021.
- Worked as Co-Coordinator in 1 Week AICTE QIP STC on Sustainable Development Methods & Practices, Civil Engg. Deptt., MITS Gwalior, Feb. 2019
- Worked as Co-Coordinator in 2 Weeks AICTE QIP STC on Infrastructure Development, MITS Gwalior, March 2017.
- Worked as Co-Coordinator in one day workshop on Disaster Management, Civil Engg. Deptt., MITS Gwalior in Oct. 2018.

- Worked as organizing secretary in one day workshop on Green Buildings, Civil Engg. Deptt., MITS Gwalior in Sept. 2016.
- Worked as organizing secretary in 2 Weeks AICTE QIP STC on Environment Engineering & Practices, Civil Engg. Deptt., MITS Gwalior, March 2016.

EVENTS / PROGRAMMES ATTENDED (FDP / STTP / WORKSHOP / TRAINING / CONFERENCE etc.):

- Attended one week Short term Training Program (STTP) on Structural Equation and Modelling during 9 October-15 October, 2023 at ABV-IIITM, Gwalior
- Attended one week Faculty Development Program (FDP) on Systematic Literature Review and Meta-Analysis during 4 September – 10 September, 2023 at ABV-IIITM, Gwalior
- Completed AICTE FDP SWAYAM Course on Municipal Solid Waste Management in November 2021
- Completed AICTE FDP SWAYAM Course on Environmental Impact Assessment in April 2022 and got Elite + Gold Certificate
- Attended two days online National Workshop on NAAC at IAE Hyderabad In June 2021.
- Completed AICTE FDP SWAYAM Course on Plastic Waste Management in March 2021 and awarded with Elite + Silver certificate
- Attended and successfully completed FDP on Natural Hazards Part – I under AICTE NPTEL online course FDP Scheme (08 Weeks online NPTEL course) from Jan – March 2019 equivalent to 01 Weeks AICTE – FDP Course under IIT Kanpur.
- Attended and successfully completed FDP on Integrated Waste Management under AICTE NPTEL online course FDP Scheme (12 Weeks online NPTEL course) from Aug – Nov 2019 equivalent to 02 and half Weeks AICTE – FDP Course under IIT Kharagpur.
- Attended and successfully completed FDP on Wastewater Treatment & Recycling under AICTE NPTEL online course FDP Scheme (12 Weeks online NPTEL course) from Jan – March 2019 equivalent to 02 and half Weeks AICTE – FDP Course under IIT Kharagpur.
- Attended 2 weeks STC on Sustainability in the Built Environment under AICTE GIAN FDP Scheme in March 2018 at MITS Gwalior
- Attended 1 week STC on Assuring Global Quality in Technical Education Through Outcome Based Education under AICTE QIP FDP Scheme in March 2018 at MITS Gwalior.
- Attended 1 Week Workshop on Foundation Course on Human Values & Professional Ethics under Teacher Training Induction Program at KDK College, Nagpur.
- Attended 1 and half week Training Program on Total Station at MITS Gwalior in November 2016.
- Attended 02 days Workshop on Effective Techniques of Question Paper Setting : An Outcome Based Approach at MITS Gwalior on 7 - 8 Feb 2018 at MITS Gwalior.
- Attended 01 day Workshop on Intellectual Property & Patent Rights at MITS Gwalior on 4 Feb 2017 at MITS Gwalior
- Attended 03 days FDP on Effective Teaching & Pedagogical Practices at IIT Kharagpur in Oct 2015.

- Attended 02 days STC on Simulation Based Engineering Science Approach : A Scientific Approach to Engineering at IIT Delhi in Dec 2015.

PUBLICATIONS:

International / National Journals

- Determination of Iron & Manganese in Various Water Sources from Selected Areas in Balaghat District, R S Vishwakarma, Aditya K Agarwal, IJISRT, Vol. 7, Issue 11, Nov 2022, ISSN 2456-2165
- Prediction & Comparison of Water Quality Index of Two Areas using ANFIS, Manjari Ojha, Aditya K Agarwal, Zeichen Journal, Vol.8, Issue 10, October 2022, pp 92-103, ISSN 0932-4747 (**UGC Care**)
- Statistical Evaluation of Indoor Air Quality in the Laboratories of Engineering Institute, A.S. Tomar, J.S. Rajput, A.K. Agarwal, Proceedings of ICCCT 2022, Algorithms for Intelligent Systems, Springer, (**Book Chapter**), Online 27 September, 2022, pp 407-418, https://doi.org/10.1007/978-981-19-3951-8_31.
- Monitoring of Concentration of PM10 & PM2.5 in Indoor Air in the Laboratories of a Technical Institute, IJISRT, Vol. 6, Issue 11, November 2021, ISSN 2456-2165, sjif – 6.253 (Indexing in Publons, ISI, Google Scholar, PubMed, Index Copernicus)
- Development of Water Quality Index of Sindh River by using Weighted Arithmetic Method at Dabra, India, IJISRT, Vol. 7, Issue 1, January 2022, ISSN 2456-2165, sjif – 6.253 (Indexing in Publons, ISI, Google Scholar, PubMed, Index Copernicus)
- Identifying and Assessing Waste Management Influence Factors and Check Level of Performance of Building Construction Projects, IRJET, Vol. 9, Issue4, April 2022, ISSN 2395-0072, sjif – 7.529 (Indexing in Google Scholar, Index Copernicus)
- Assessment of Quality Characteristics of underground water using water quality index – A case study of rural areas of Gwalior district, IJRASET, Vol. 8, Issue 8, August 2020, ISSN 2321-9653, doi – 10.22214/ijraset.2020.30993, sjif – 7.429.
- Colour removal from waste water treatment plant in vicinity of Gwalior and suggestions to improve the performance, IJRASET, Vol. 9, Issue 2, Feb 2021, ISSN 2321-9653, doi – 10.22214/ijraset.2021.33147, sjif – 7.429
- A Comparative Study of Removing Fluoride from Drinking Water using Agro-Industrial Waste & PAC, IJRASET, August, 2019, Vol.7, Issue 8, 217-222, ISSN 2321-96532.
- Study of Bio-Medical Waste Management of Gwalior & Bhind Hospitals, IJRASET, August, 2019, Vol.7, Issue 8, 732-738, ISSN 2321-9653
- Evaluation of physic-chemical properties of soil using treated sewage water for irrigation of swarnarekha river, Gwalior, IJRASET, Vol. 8, Issue 8, August 2020, ISSN 2321-9653, doi – 10.22214/ijraset.2020.30957, sjif – 7.429
- Water Quality Status in India & Some of the Leading Cities of World : A Review, Global Journal of Modern Biology & Technology, Aditya K. Agarwal & Sohail Ayub, Feb. 2012, Vol.2, Issue 2, pgs 39-45
- A Comparative Study of Removing Fluoride from Drinking Water using Agro-Industrial Waste & PAC, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Aditya K. Agarwal, Sujeet Yadav, August 2019, Vol. 7, Issue 8, Pgs 217-222
- Route Optimisation for Muncipal Solid Waste Collection using ArcGIS Application in Gwalior City, Madhya Pradesh, , International Journal for Research in Applied Science &

Engineering Technology (IJRASET), Aditya K. Agarwal, Neha Singh, July 2018, Vol. 6, Issue 7, Pgs 392-398

- Design & Planning of an Anaerobic Digester for Organic Fraction of Market Waste of Gwalior, Journal of Emerging Technologies & Innovative Research (JETIR), Aditya K. Agarwal, Priya Jain, Sep 2018, Vol 5, Issue 9, Pgs 70-74. **(UGC Indexed)**
- Performance Evaluation of Effluent Treatment Plant of dairy Industry in Gwalior (M.P.), International Journal for Research in Applied Science & Engineering Technology (IJRASET), Aditya K. Agarwal, Riya govil, June 2017, Vol. 5, Issue 6, Pgs 34-39 **(UGC Indexed)**
- Current Practices of Solid Waste Management in MITS Campus, Gwalior: A Case Study, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Aditya K. Agarwal, Vijayendra S. Dangi, May 2017, Vol. 5, Issue 5, Pgs 884-889 **(UGC Indexed)**
- Water Quality Status Near Kalindi Vihar Colony, Tedi Bagiya, Agra, Uttar Pradesh, India, The International Journal Of Engineering And Science (IJES), Aditya K. Agarwal & Sohail Ayub, Feb. 2013, Vol.2, Issue 2, Pgs. 227-232
- Design Of Water Supply Scheme For Ews Houses In Agra, Uttar Pradesh, India, International Journal of Science, Environment and Technology, Feb 2013, Vol.2, Issue 2, Pgs. 211-229

Google Citations: h –Index: 02, Citations: 17

Any other Citations: Researchgate Citations: 12, h –Index: 02