

Dr. AYISHA SIDIQUA M

Designation : Assistant Professor (Sr. Gr.)
Qualification : B.E, M.E., Ph.D.
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Educational Qualification:

Programme	Specialization	Name of the Institution	Name of the University	Year of Passing
Ph.D	Environmental Engineering	B.S.Abdur Rahman Crescent Institute of Science and Technology	B.S.Abdur Rahman Crescent Institute of Science and Technology	Nov 2023
M.E.	Environmental Engineering	College of Engineering, Guindy	Anna University, Chennai. GATE qualified	April 2014
B.E.	Civil Engineering	University college of engineering, Panruti Campus.	Anna University, Chennai	April 2012

Work Experience:

Sl. No	Designation	Employer	Period of Employment				Teaching/ Industrial/ Research
			From	To	Years	Months	
1.	Assistant Professor	B S Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai, India	June 2014	Till date	9	11	Teaching

Courses Handled:

- Theory and design of structures-1
- Green building and sustainability
- Energy Conservation Techniques in Building Construction

- Solid Waste Management
- Environmental studies
- Career building and people skills
- Building Services
- Air Pollution and Control
- Disaster Mitigation and Management
- Environmental Science and Engineering
- Environmental Impact Assessment
- Construction Technology
- Water and Wastewater Engineering
- Surveying
- Repair and rehabilitation of structures
- Confidence building and behavioral skills
- Society, Technology and sustainability
- Geographic Information System (GIS) Laboratory

RESEARCH PUBLICATIONS:

INTERNATIONAL/ NATIONAL JOURNALS

1. **Ayisha Siddiqua M.**, Sheik Farid A., Girish Birgoudiar Cse, Jaganathan M., Kabilan S.M. and Asad E.H., “Useful metals recovery from electronic scraps of headphones – A sustainable approach”, accepted “Waste Management Bulletin” May 26, 2024 WMB-D-24-00078R1 (**Elsevier**).
2. **Ayisha Siddiqua M.**, Priya, V.S., Begum, N., Noor Aman, “Synthesis of magnetic ZnFe₂O₄- reduced graphene oxide nanocomposite photocatalyst for the visible light degradation of cationic textile dyes”. Nanotechnol. Environ. Eng. (2023).<https://doi.org/10.1007/s41204-022-00304-7>.
Citations:5(Springer)
3. A. Sheik Farid, Muhammed Sahal Roshan T K, **Ayisha Siddiqua M.**, “BIM - Based Problem-Solving Analysis of Construction related issues and clash”, Metszet Journal, vol.8, no.4, April 2023, pp.166-182,2023. (**Scopus**)
4. **Ayisha Siddiqua M.**, Karpagam V, K. Kanmani, Mughil.I, “Study of Physiochemical Characteristics of Groundwater in Semi - urban region in Chennai”, Bulletin Monumental, vol. 23, no. 7, pp.39-45, July 2022

[.https://doi.org/11.37896/BMJ23.07/5305](https://doi.org/11.37896/BMJ23.07/5305) (**Web of science**)

5. **Ayisha Siddiqua M.**, Priya VS (2021) “Removal of yellow dye using composite binded adsorbent developed using natural clay and activated carbon from sapindus seed”, *Biocatalysis and agricultural biotechnology*, vol. 33, 101965. **Citations:24(Elsevier)**
6. Priya VS, **Ayisha Siddiqua M**, Ajay, (2020) “Effect of operational parameters and suitability of biological reactors for the removal of VOCs from pharmaceutical wastewater-A review”, *International journal of advanced science and technology*, vol.29, 10S, pp. 4007-4010(**Scopus**).
7. **Ayisha Siddiqua M.**, Karpagam v., K. Jagadeesh,Y. Ibrahim and K.Kanmani (2019) “Role of E-learning in Indian Education system”, *International Journal of Engineering and Advanced Technology (IJEAT)*, Vol 9, Issue 1, Oct 2019; Pp. 2583-2586.(**326 Reads Researchgate**)
8. Ibrahim, **M. Ayisha Siddiqua**, Vasanthi Padmanabhan, Sufiyan Ahmed Jeddy and R. Tauseef Ahamed (2019) “Wastewater Treatment – Milk Processing Industry Effluent using Sequential Batch Reactor Process” in ‘Ecology, Environment and Conservation’ (July 2019) ISSN : 0971 – 765X , Vol 25(2), pp 779-783. (**Scopus**)
9. **Ayisha Siddiqua M.**, Karpagam v., K. Jagadeesh and Y. Ibrahim,(**2019**) “A case study on spatial variation of surface water quality by WQI method” *Pollution Research*, Vol 38, Issue 2, 2019; Pp. 338-341. (**Scopus**)
10. Ibrahim Y., M. Ayisha Siddiqua, Sufiyan Ahmed Jeddy and R. Tauseef Ahamed (2018) “Fragmentary substitution of fine aggregate by tannery sludge in concrete” was published in ‘*Indian Journal of Environmental Protection*’ (June 2018), ISSN : 0253 – 7141, Vol 38, Issue 6, pp 506-510. (**Scopus**) **Citation: 2**
11. **M.Ayisha Siddiqua** and S.Kanmani “Degradation of Phenolic Wastewaters By UV-LED/H₂O₂/Nano-TiO₂”(2015), *International Journal of Engineering Technology, Management and Applied Sciences*, Volume 3, Issue 8, ISSN 2349-4476.

12. **M. Ayisha Siddiqua**, Saurav Sadhukahan, Vishnu Priya.S.T. (2016) “Case study on water quality: Ground water and supplied domestic water”, Indian Journal of Environmental Protection, Vol.36, No. 9, pp :725-729. ISSN NO. 0253-7141. **(Scopus) Citation: 3**

Publication/Citation Record:

Sl. No.		Organisation/ University	International/ National		Nos.
			From	To	
1	Publications (No. as appeared)	BSACIST	2014 till May 28, 2024		11
2	Citations (Overall)	BSACIST	2014 till May 28, 2024		37
3	H-index	BSACIST	2014 till May 28, 2024		3

PAPER PRESENTED IN INTERNATIONAL CONFERENCE

1. “A better path towards municipal solid waste management using geographical information system”, International conference on adaptive technologies for sustainable growth (9th edition) held in Paavai Engineering College, on 27 April 2024, ISBN number 978-93-91977-38-2.
2. “Recent Developments in the Synergistic Adsorption-Photo Catalysis Process for the Removal of Dyes”, Two Day Virtual International Conference on “Recent Advances in Sustainable Construction Technologies and Environment, (ICRASCE-2022), pp. 88, June 2022”.
3. “Analysis of water quality for adayar river using physiochemical parameters”, Two Day Virtual International Conference on “Recent Advances in Sustainable Construction Technologies and Environment”, (ICRASCE-2022), pp.103, June 2022.
4. “Analysis of Geospatial Variations of Groundwater Quality in Semi Urban Region of Chennai”, Two Day Virtual International Conference on “Recent Advances in Sustainable Construction Technologies and Environment, (ICRASCE-2022), pp. 86, June 2022”.

5. "Treatment of yellow dye in the textile effluent - A Review", International Conference on Waste, Energy and Environment (ICWEE-2021), pp.95, Sep. 2021.
6. "Experimental study on the removal of basic yellow dye using zinc oxide coated clay", on Online International Conference on "Sustainable Construction (ICSC 2021)" organized by St. Peter's Institute of Higher Education and Research, Chennai, held on 15.06.2021.
7. "Novel lab scale filtration system for treatment of contaminated water from coom river in Chennai", on International Conference on emerging trends and challenges in Applied Science, Engineering and Technology organized by Gopalan College of Engineering and Management held on 10th and 11th March 2020.
8. "Key role of operational parameter and suitability of biological reactors for the biodegradation of VOC in pharmaceutical wastewater- A review ", on International Conference on emerging trends and challenges in Applied Science, Engineering and Technology organized by Gopalan College of Engineering and Management held on 10th and 11th March 2020.
9. "Review on Phenol Degradation using AOPS", on International Conference on Innovative Technologies for Sustainable Built Environment (ITSBE'17), organized by B.S.Abdur Rahman Crescent Institute, Vandalur on 14-03-17, pp 116-117.
10. "Study on Partial Replacement of Fine Aggregate by Using Tannery Sludge in Concrete", on International Conference on Innovative Technologies for Sustainable Built Environment (ITSBE'17), organized by B.S.Abdur Rahman Crescent Institute, Vandalur on 14-03-17, pp 122-123.

NATIONAL CONFERENCES

1. "Examining key Factors Impacting Profitability in Construction Project Performance - A Review", Eleventh National Conference on innovation in civil Engineering by Karpagam Academy of Higher Education, ISBN: 978-93-95898-70-6, March 2024.

2. "Degradation of phenolic wastewater by advanced oxidation processes", National Conference on Energy and Environment, Anna University, Chennai, pp. 30 – 34, 2014.
3. "Reuse of ceramic waste as a construction material", National Conference on Recent Developments in mechanical and civil engineering, Vel Tech Engineering College, 2011.

BOOK CHAPTER PUBLISHED

- "A review on textile dye wastewater treatment using sustainable materials" chapter in book series "Futuristic Trends in Construction Materials & Civil Engineering" under Volume 3, 2023. E-ISBN: 978-93-5747-992-9. <https://www.doi.org/10.58532/V3BJCE5P1CH5>
- "Influence of covid-19 on the Indian education system" chapter in book series, "Recent Trends in Arts Science And Humanities - 2024 (RTASH-2024)". ISBN:978-93-91387-72-3.

WORKSHOP ATTENDED

1. Virtual session program on "Various Aspects of green building design" organized by Jaypee University on 25.1.2022.
2. Webinar on "An approach to better qualified civil engineering 2020" organized by Paavai Engineering College on 26.6.2020.
3. One day workshop on "Design and development of E-content" organized by B.S. Abdur Rahman Institute on 12.08.2020.
4. Webinar on "Tertiary treatment of sewage using disc filters" organized by Department of Civil Engineering at B.S. Abdur Rahman Institute on 9.5.2020.
5. One day workshop on "Author workshop" on 30th July 2019, jointly organized by Springer Nature and B.S. Abdur Rahman Crescent Institute of Science and Technology.
6. Attended one day National Seminar on "E-Learning and MOOCs in Higher Education on 9th March 2019 organized by MHRD and Faculty Training Academy at B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai.

7. One day workshop on “Modern construction practices and reuse technology” at Auroville, Puducherry on October 13th 2017.
8. One day workshop on “Capacity building of women in higher education” at B.S. Abdur Rahman Institute on 1st April 2017.
9. One day national work shop on “Recent advancements in remediation(ACE-2K16)”, organized by Department of Civil Engineering at SSN college of Engineering, Chennai on 17th March 2016.
10. Two day workshop for Research Scholars – Research Methodology & Quality Assurance organized by Office of Dean (Academic Research) at B.S. Abdur Rahman Institute on 2 nd – 3rd December 2016.
11. One day workshop on “Gift Yourself” held on 18th January 2016 organized by Women Empowerment Cell at B.S. Abdur Rahman Institute.
12. One day national work shop on “Waste to Wealth”, organized by Confederation of Indian Industry-Indian Green Building Council at Park Hyaat, Chennai on 07th August 2015.
13. One day national work shop on “Preparing technical teachers for optimal class room delivery through English language at B.S. Abdur Rahman Institute on 28th October 2015.
14. One day national work shop on “Instrumental methods of Analysis (IMA)”, organized by Department of Chemical Engineering at SSN college of Engineering, Chennai on 25th Sep 2015.

NPTEL COURSES COMPLETED

- Introduction to environmental engineering and science
- Water, Society and technology
- Wastewater Treatment and Recycling
- Geoenvironmental Engineering (Environmental Geotechnology)
- Life cycle assessment.
- Integrated waste management for a smart city.
- NITTT-Module 1: Orientation towards technical education and curriculum aspects.
- NITTT-Module 3: Communication skills, Modes and knowledge dissemination.
- NITTT- Module 2: Professional ethics and sustainability.

- NITTT- Module 5: Teaching enabled learning and lifelong self learning.
- NITTT- Module 4: Instructional Planning and Delivery.

CONSULTANCY

S.NO	YEAR	CONSULTANCY ACTIVITIES	CLIENT
1	2016	DESIGN AND ADEQUACY REPORT – (RGE Construction Pvt. Ltd– 600 KLD)	Ever Enviro Solution Company
2	2016	DESIGN AND ADEQUACY REPORT-(ASV Constructions- 300KLD)	Evergreen Enviro Solution
3	2016	DESIGN AND ADEQUACY REPORT – (Sriperambudur -702 CU.M/D)	Tata value homes limited
4	2016	DESIGN AND ADEQUACY REPORT – (Mambakkam- 1049 CU.M/D)	Tata value homes limited
5	2018	DESIGN AND ADEQUACY REPORT- (Samhi hotel private limited 100KLD)	Evergreen Enviro Solution
6	2020	Reverse Osmosis Water quality analysis	Estate office
7	2020	Well Water quality analysis	Estate office
8	2021	Water quality analysis	Estate office

FDP/ Certificate Course completed during 2023-2024

- NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Chennai during March 5-14, 2024.
- FIVE DAYS ONLINE COURSE ON Design Thinking and Innovation program organized by the Institution's Innovation Council, Sacred Heart College (Autonomous), Tirupattur, Visakhapatnam, Andhra Pradesh, conducted from 29-04-2024 to 03-05-2024.
- FIVE DAYS ONLINE COURSE ON ENTREPRENEURSHIP & INNOVATION program organized by the Institution's Innovation Council, Sacred Heart College (Autonomous), Tirupattur, Andhra Pradesh, conducted from 24-04-2024 to 28-04-2024.

- One week FDP on “Green solutions for smart infrastructure Development” by the Geethanjali College of Engineering and Technology, during 29.1.2024 to 2.2.2024.
- Five Days FDP on “Civil Engineering Industry oriented innovative softwares” by Velammal College of Engineering and Technology, during 5.2.2024 to 9.2.2024.

Details of Patent :

SI. No.	Details of Patent
Patent Application No.: 202441023638 dated 26 Mar 2024	Textile effluent dye removal using novel carbon based photoadsorbents from soapnut seeds.

OTHER RESPONSIBILITIES HELD

- Class advisor- Batch 2014-18
- Website coordinator
- Faculty advisor
- Department level ISO coordinator
- Department level placement coordinator
- Class advisor M.Tech. (Structural Engineering) 2021-2023
- Environmental Engineering Lab Incharge.
- Department level Library Incharge.

BOOK CHAPTER REVIEWED

- Chapter titled “Research on Professional Development of College English Teachers in the Context of Digital Transformation” in the book published by BP international, 2024.

AWARDS & RECOGNITION

- Received crescent seed money of Rs.25,000/- for project proposal entitled “Dye removal from textile effluents using novel carbon-based adsorbents” 2021.
- Awarded certificate of excellence in reviewing from current journal of applied science and technology (31.1.2022).
- Awarded certificate of AGAR-Best Young Faculty Award-2024.