


**Faculty Profile**

Name :	<b>Dr. AGHILESH K.</b>					
Date of Birth :	17/06/1993					
Highest Qualification :	Ph.D.					
Date of Joining :	04/08/2022					
Designation :	Assistant Professor					
Date of promotion (Present Designation) :						
Area of Interest :	Environmental Engineering, Water and Wastewater Treatment, Membrane Technology, Biosorption					
Mobile No :	7708077150	Email ID :	aghilesh.k@trp.srmtrichy.edu.in			
Experience :	Teaching :	2 Yrs 9 Mths	Industry :	1Yr 6 Mths	Research :	3 Yrs 3 Mths
Address (for Communication) :	12, M.R.R. Garden, T.V. Koil,					
	Trichy. Pin-620005					

**Association with Professional Bodies**

Name (Professional Body)	International Association of Engineers
Type of Membership	IAENG Membership

**Research**

<b>Ph. D Guidance</b>					
Supervisor / Guide ship No. :	4110019	University :	Anna University	No. of Scholars :	
<b>Publication*</b>					
International Journals :	7	National Journals :			
International Conference :	7	National Conference :	2		
<b>Project Grants (Research projects guided or undertaken/ Sponsored Projects)</b>					
Received (Amount) :			Applied (Amount) :		

## Patent

Published :		Granted :	
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## Books

Chapters Published :	1
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## FDPs / STTPs / Workshops / Seminars etc.,

FDP		STTP		Workshop		Seminar		Others	
Attended :	5	Attended :		Attended :	2	Attended :	2	Attended :	
Organized :		Organized :		Organized :	1	Organized :		Organized :	1

Online courses (NPTEL, MOOC etc.)	7
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### \*List of Publications :

7. Kandasamy, S., Ilangoan, P., Kanagaraj, R., Manimaran S. & **Aghilesh K.** (2024), Effect of sisal and coconut fibers on the strength performance of recycled aggregate concrete using copper slag. The International Journal of Advanced Manufacturing Technology, (Publisher: Springer). 130, pp. 731–737. <https://doi.org/10.1007/s00170-023-12695-1>
6. **Aghilesh K.**, A. Kumar, S. Agarwal, M.C. Garg, H. Joshi (2023), Use of Artificial Intelligence for Optimizing Biosorption of Textile Wastewater using Agricultural waste. Journal of Environmental Technology (Publisher: Taylor & Francis). 44(1), pp. 22–34. <https://doi.org/10.1080/09593330.2021.1961874>.
5. **Aghilesh K.**, A. Chaturvedi, J. Ali, R. Singh, S. Aggarwal, M.C. Garg (2022), “Response surface methodology (RSM) based modelling and optimisation of chromium removal from groundwater using small-scale reverse osmosis (RO) membrane setup,” *International Journal of Environmental Science and Technology* (Publisher: Springer). 9(7), pp. 5999–6010. <https://doi.org/10.1007/s13762-021-03422-y>.
4. **Aghilesh K.**, A.A. Mungray, and M.C. Garg (2021), Effects of temperature, pH, feed and fertilizer draw solution concentrations on the performance of forward osmosis process for textile wastewater treatment. *Water Environment Research* (Publisher: Wiley). 93(10), pp. 2329–2340. <https://doi.org/10.1002/wer.1607>.
3. **Aghilesh K.**, A.A. Mungray, S. Agarwal and M.C. Garg (2021), Optimization of Forward-Osmosis Performance with low-concentration Draw Solution using Response Surface Modelling. *Chemical*

*Engineering & Technology* (Publisher: Wiley). 44(7), pp. 1278–1286.  
<https://doi.org/10.1002/ceat.202000453>.

2. **Aghilesh K.**, A.A. Mungray, S. Agarwal, J. Ali and M.C. Garg (2021), Performance optimisation of forward-osmosis membrane system using machine learning for the treatment of textile industry wastewater. *Journal of Cleaner Production* (Publisher: Elsevier). 289: 125690.  
<https://doi.org/10.1016/j.jclepro.2020.125690>.
1. A. Srivastava, **Aghilesh K.**, A. Nair, S. Ram, S. Agarwal, J. Ali, R. Singh and M.C. Garg (2021), Response surface methodology and artificial neural network modelling for the performance evaluation of pilot-scale hybrid nanofiltration (NF) & reverse osmosis (RO) membrane system for the treatment of brackish groundwater. *Journal of Environmental Management* (Publisher: Elsevier). 278 (1):111497. <https://doi.org/10.1016/j.jenvman.2020.111497>.

#### **Book Articles**

1. M.C. Garg, **Aghilesh K.**, and S. Agarwal (2022), “Chapter - 10: Parameter optimization and modelling of forward osmosis membrane separation process” in *Novel Approaches towards Wastewater Treatment and Resource Recovery Technologies* (Publisher: Elsevier). pp - 185-206. <https://doi.org/10.1016/B978-0-323-90627-2.00012-5>.