

Name of Faculty: Sonali Vikrant Baviskar (M.Tech Civil Environmental Engg.)

Designation: Assistant Professor

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Address for Correspondence:

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Navi Mumbai-410209



Professional Qualification:

☐ **Master of Civil Environmental Engineering, 2011**

North Maharashtra University, Jalgaon, Maharashtra

☐ **Bachelor of Civil Engineering, 2009**

North Maharashtra University, Jalgaon, Maharashtra

Short Biodata:

Sonali Baviskar has completed her M.E. in Civil Environmental Engineering and B.E. in Civil Engineering from North Maharashtra University, Jalgaon. Her topic of interest for research is Development of a membrane for filtration of water at IIT B under the supervision of Prof. Sumit Saxena from IIT Bombay. Sonali has received grant of Rs. 40,000/- for Minor Research Project titled “Assessment of Patalganga River Water, Maharashtra, India to check its Quality and Suitability for Different Purposes” AY2019-20. She is an approved guide for UG and PG, University of Mumbai (PG/ICD/2019-20/378) (CONCOL/IS/ECD/14-15/49831)

Major Subjects:

- ☐ Construction Management
- ☐ Environmental Engg.
- ☐ Solid Waste Management
- ☐ Industrial Waste Management
- ☐ Building Design and Drawing
- ☐ Quantity Surveying, Estimation and Valuation
- ☐ Surveying
- ☐ Transportation Engineering

List of Publication:

Journal Publications:

1. Nitesh Chavan,,Sonali Baviskar, “Effect of Partial Replacement of River Sand by Quarry Dust and Cement by GGBS with Super Plasticizer in Concrete for Sustainability”, STRAD Research, An ISO : 7021 - 2008 Certified Journal, VOLUME 7, ISSUE 7, ISSN: 0039-2049, July 2020
2. Chetan Godase, Sonali Baviskar, "Comparative Study of Application of Highway Capacity Manual Method and Webster Method of Automatic Signalies System to Reduce Traffic Jamming Problems at Shivaji Chowk, Kalyan”, Adalya Journal, ISO: 7021-2008 certified, Volume 8, Issue 9, ISSN No. 1301-2746 , Sept 2019
3. Mohammed Kaif, Sonali Baviskar, "Prediction of Construction Materials Cost Using Artificial

Intelligence Tools”, International Journal of Engineering Research and Technology, Volume 8, Issue 8, ISSN No. 2278-0181, August 2019

Conferences and Workshops Publications:

- Sonali Bviskar, Dr. U.S. Patil, ‘Performance Appraisal For Sequencing Batch Reactor- A Case Study’ ICETA-2013, an International conference, organized at Yadavrao Tasgaonkar Institute of Engineering and Technology, India, during March 6th -7th 2013
- Manisha Jamgade, Sonali Baviskar, Dr. U. S. Patil, ‘Biomedical Waste Management – A Problem Approach’ Tech Streams, a National conference, organized at Pillai HOC College of Engg. & Tech., Rasayani, during 21st and 22nd February, 2014.
- Sonali Baviskar, Manisha Jamgade, Dr. U. S. Patil, ‘Biomedical Waste Management – A Problem Approach’ Tech Streams, a National conference, organized at Pillai HOC College of Engg. & Tech., Rasayani, during 21st and 22nd February, 2014

Research and Scholarly Contributions:

M. E. Research:

The title: Sewage Treatment Plant at Kharghar– A case study

The work: The sewage treatment plant (STP) situated at Kharghar, Navi Mumbai had a capacity of 25 Million Liters per Day (MLD) of wastewater and another plant with 75MLD was under process in the same premises. A modern Sequencing Batch Reactor (SBR) process has been utilized for the treatment of wastewater. In SBR technology, six processes namely, Anoxic fill, aerated fill, React, Settle, Decant and Idle are combined in the same tank and operated using Distributed Control System (DCS) in view to save time. In addition to time this saves a lot of time in a metropolitan city like Mumbai. The plant was thoroughly studied, the design of treatment units was done and compared with conventional design, along with studying the properties of the untreated and treated waste water.

Software Tools:

1. Windows, M S Office, MS Excel,
2. AutoCAD.(2D & 3D)

Professional Association:

- Lifetime membership of ISTE (Indian Society for Technical Education) (LM 86936)
- Lifetime membership of ISH (Indian Society for Hydraulics) (LM- 1420)

Experience:

1. **Assistant Professor**, Terna Engineering College, Nerul, since January 2022 till present
2. **Assistant Professor**, Pillai HOC College of Engineering and Technology, Rasayani, from July- 2011 to January 2022
3. **Head of department and Lecturer**, Re-vera Institute of Technology, (RIT) , Kharghar, Navi Mumbai from July 2010 to July 2011
4. **Visiting Lectrure**, Bharati Vidyapeeth Institute of Technology (BVIT), Kharghar, Navi Mumbai, from August 2008 to Dec-2009
5. **Draughtsman**, Sathyu Associates, Bangalore, June.2006-to Jan. 2006

Responsibilities Handled:

- Faced and Handled various committees at institute level eg. LIC (Local Investigation Committee),
- Worked for various criteria during NAAC and NBA approval procedure at previous institutes

- Lab setup experience for Civil Engineering Department
- Worked as a coordinator for cultural events for three consecutive years

Declaration

I hereby declare that the foregoing information are correct and complete to the best of my knowledge.

Faculty Name: Mrs. Sonali Baviskar

Place: Navi Mumbai