



## Department of Civil Engineering Faculty Profile

Prof. Pankaj R. Modak  
Ph.D(Civil Engg)M.Tech (Environmental  
Engg.)  
Assistant Professor  
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### ResearchAreas/ Areas of Interest

Environmental Engineering, Remote Sensing & GIS, Geoenvironmental Engineering, EPANET, LCA Modelling, Carbon neutral construction materials, Carbon Capture & Utilisation

### Personal Details

**Date of Birth :** 05 / 08 / 1982

**Domicile:** Maharashtra

**Gender :** Male

**Blood Group:** AB+ve

**Contact Details:** A 306, Pristine Eastwinds, Wagholi-412207

### Academic Background Qualifications

| S. NO. | Qualification | Specialization | University | Class/Grade | Year of Passing |
|--------|---------------|----------------|------------|-------------|-----------------|
|--------|---------------|----------------|------------|-------------|-----------------|

|   |        |                           |      |                  |           |
|---|--------|---------------------------|------|------------------|-----------|
| 1 | Ph.D   | Civil Engineering         | UoT  | --               | June 2025 |
| 2 | M.Tech | Environmental Engineering | VNIT | I <sup>st</sup>  | May 2008  |
| 3 | B.E.   | CivilEngineering          | VNIT | II <sup>nd</sup> | May 2005  |

### Work Experience

| S. No.       | Type of Experience | Years     | Months   |
|--------------|--------------------|-----------|----------|
| 1            | Teaching           | 16        | 9        |
| <b>Total</b> |                    | <b>16</b> | <b>9</b> |

### Subjects/Courses Taught

| S. No. | Subject                      | UG/PG | Class (FE/SE/TE/BE/ME) | No of times Subject Taught |
|--------|------------------------------|-------|------------------------|----------------------------|
| 1      | Surveying                    | UG    | SE (Civil Engineering) | 12                         |
| 2      | Geotechnical Engineering     | UG    | SE (Civil Engineering) | 06                         |
| 3      | Advanced Surveeying          | UG    | TE (Civil Engineering) | 10                         |
| 4      | Environmental Engineering-I  | UG    | TE (Civil Engineering) | 10                         |
| 5      | Environmental Engineering-II | UG    | BE (Civil Engineering) | 10                         |
| 6      | Air Pollution and Control    | UG    | BE (Civil Engineering) | 08                         |

### Research Publications

|                    | National | International | State | SCI/Scopus Indexed | UGC Approved |
|--------------------|----------|---------------|-------|--------------------|--------------|
| <b>Journals</b>    | 01       | 10            | 01    | 02                 | 06           |
| <b>Conferences</b> | 02       | 03            | ---   | --                 | --           |

### Publication Details (Journals)

| S. No | Document Details                                                                                                           | Authors   | Year     | Source Details                                  | ISBN/ISSN | Publisher        |
|-------|----------------------------------------------------------------------------------------------------------------------------|-----------|----------|-------------------------------------------------|-----------|------------------|
| 1.    | Heavy metal removal using agricultural waste adsorbents                                                                    | P R Modak | 2020     | Test Engineering                                | 0193-4120 | Matingley        |
| 2     | Prediction of Compressive Strength of High Strength Concrete using Artificial Intelligence and Machine Learning Techniques | P R Modak | Oct 2023 | Material Science & Technology                   | 1005-0299 | SAGE             |
| 3     | Experimental and Numerical Comparison of Hydraulic Parameters of Ski-Jump Bucket Energy Dissipator                         | P R Modak | 2025     | International Journal of Environmental Sciences | 2229-7359 | Academic Science |
| 4     | Experimental Verification of Effect of Density of the Material on Drag Coefficient for Spherical Body                      | P R Modak | 2025     | International Journal of Environmental Sciences | 2229-7359 | Academic Science |

### Publication Details (Conferences)

| S. No | Document Details | Authors | Year | Conference Details | ISBN | Organised by |
|-------|------------------|---------|------|--------------------|------|--------------|
|-------|------------------|---------|------|--------------------|------|--------------|

|    |                                                         |           |      |                                                                                     |                |             |
|----|---------------------------------------------------------|-----------|------|-------------------------------------------------------------------------------------|----------------|-------------|
| 1. | Heavy metal removal using agricultural waste adsorbents | P R Modak | 2020 | International conference on science, engineering and technology, organized by IFERP | ISSN 0193-4120 | IFERP, Pune |
|----|---------------------------------------------------------|-----------|------|-------------------------------------------------------------------------------------|----------------|-------------|

#### PhD / ME / BE Student Guided for Project

| Level                 | Ph.D. | M.E. (PG) | B.E. (UG) |
|-----------------------|-------|-----------|-----------|
| No. of Student guided | -     | --        | 50        |

#### Professional Memberships

| Professional Body            | Level<br>( National/ International) | Type<br>(Fellow/Life/Annual) | Membership No. |
|------------------------------|-------------------------------------|------------------------------|----------------|
| Indian Society of Hydraulics | National                            | Life                         | LM 1321        |

|                                       |          |      |              |
|---------------------------------------|----------|------|--------------|
| Institution of Engineers (India)      | National | Life | M-160529-6   |
| Indian Water Works Association (IWWA) | National | Life | LM-010251    |
| Solar Energy Society of India (SESI)  | National | Life | LM/2514/2021 |

### Books Published

| S. No | Title                                     | Name of the Publisher  | ISBN/ISSN Number |
|-------|-------------------------------------------|------------------------|------------------|
| 1     | Concrete Technology                       | Technical Publications | 978-9350996607   |
| 2     | Basic Civil and Environmental Engineering | Success Publications   | 978-9351584148   |
| 3     | Building Technology and Materials         | Technical Publications | 978-9350991541   |
| 4     | Irrigation & Drainage                     | Nirali Publications    | 978-8119115426   |

### Details of Workshop/STTP/FDP/Seminar / Conferences Organized

| S. No | Title                                        | Type              | Duration       | Level (State/National/ International) | Sponsoring Agency |
|-------|----------------------------------------------|-------------------|----------------|---------------------------------------|-------------------|
| 01    | RS & GIS                                     | AICTE QIS         | 03 weeks       | National                              | AICTE             |
| 02    | Green technology for sustainable development | National Workshop | 23-24 Jan 2019 | National                              | SPPU              |

### Details of Workshop/STTP/FDP/Conferences Attended

| S. N | Title                                                                      | Type        | Duration        | Organizer                                            | Sponsoring Agency |
|------|----------------------------------------------------------------------------|-------------|-----------------|------------------------------------------------------|-------------------|
| 1    | Solid waste Management                                                     | Workshop    | 26-27 Feb 2020  | Walchand College of Engineering, Sangli              | AICTE (TEQIP-III) |
| 2    | Vision-Mission-PEO-PSO-P O-CO: Framing, Mapping, Assessment and Attainment | FDP         | 10-15 June 2019 | AISSMS College of Engg, Pune                         | ISTE              |
| 3    | Global perspective to low carbon emissions                                 | GIAN course | 11-16 May 2019  | Visvesaraya National Institute of Technology, Nagpur | MHRD              |

### Major Professional Responsibilities Handled

| S. No. | Role and Responsibilities                                              |
|--------|------------------------------------------------------------------------|
| 1      | Coordinator, University of Hyderabad Entrance Examinations-2018 & 2019 |
| 2      | Biogas facility incharge                                               |
| 3      | Department ERP Coordinator                                             |

**Declaration:** I hereby declare that all the statement made above are correct to the best of my knowledge and belief.

**Dr. Pankaj R Modak**