

## MS. SHRUTI CHITNIS



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### Academic Credentials

Class/ Degree	Specialization	Institution	University	Year	%/CGPA	Class
M. Tech	Geotechnical Engineering	COEP Technological University (College of Engineering Pune	COEP Technological University	2019	7.97	<i>Distinction</i>
B.E.	Civil Engineering	Government Engineering College, Aurangabad	Dr. Babasaheb Ambedkar Marathwada University	2016	7.33	Distinction
HSC	Science	S.B. College of Science, Aurangabad	Maharashtra State Board	2012	79.5	Distinction
SSC		S.B. High School, Aurangabad	Maharashtra State Board	2010	94.91	Distinction

### Career Highlights

- Secured 47.34 marks in Graduate Aptitude Test in Engineering (GATE) – 2017 with 96.41 percentile.
- Secured 44.89 marks in Graduate Aptitude Test in Engineering (GATE) – 2020 with 93.79 percentile.

### Overall Industrial Experience

- **Geotechnical Engineer**, VGeotech Experts Private Ltd., Aurangabad. [Nov.2022 – April 2023]

**Responsibilities:**

- Preparation of soil investigation reports of borehole investigation, pile foundation and material testing.
- Conducting and supervising laboratory soil and material testing.
- **Assistant Billing Engineer**, Rudranee Infrastructure Ltd., Aurangabad. [Aug.2020 – Aug.-2021]

**Responsibilities:**

- Scrutiny of bills corresponding to vehicles and machinery, RMC operations, and crusher operations.
- Calculation of the quantities required for the bridge structures, highways, vehicle underpass etc.
- ERP system: Issuing of work orders to sub-contractor, work requisition, work measurements and tracking record of all the bills of National Highway Project.

### Overall Teaching Experience

**Assistant Professor**, Maharashtra Institute of Technology, Aurangabad. [Aug.2023 – Present]

### Membership of Professional Bodies

- Indian Geotechnical Society Life membership.(LM -5619)

### Current Research Areas

Ground Improvement Techniques

### Research Project/Project Guided

**Research Project:**

- **Bearing capacity ratio of square, circular and rectangular footings on geogrid reinforced crushed sand - [2018-2019]**

Considering the limitations for the usage of granular fill, crushed sand material was used. Optimum embedment depth of geogrid for square, circular and rectangular footings has been found out in generalized form. Shear resistance is provided by the geogrid if used at optimum depth and cracks which could be induced in the soil could be prevented.

- **Artificial ground water recharge in Aurangabad city and rain water harvesting in Government College of Engineering, Aurangabad - [2016]**

Based on the Geological strata and contour maps of Aurangabad city, we selected some points using GIS software in public gardens. At those points, proper filters were suggested to avoid the problem of water logging. Also, in the college campus, we suggested the design of the tank in which rainwater can be stored. Dimensions of channels for collecting rain water were calculated.

**Project Guided:**

Aurangabad – Jalna State Highway Safety Audit (2024-25) Part - 1

### Computer/Software Proficiency

- Auto CAD

- GTS NX MIDAS
- PLAXIS

#### **STTP/FDP/Industrial Training/Seminar/Workshop/Conference Attended**

<b>Sr. No.</b>	<b>Title</b>	<b>STTP/FDP</b>	<b>Year</b>
<b>1.</b>	Pedagogical Practices in Civil Engineering	STTP	2023
<b>2.</b>	Building Smarter Cities: Strategies for Sustainable Future.	FDP (5 Days)	2024
<b>3.</b>	Emerging Trends in Geotechnical Engineering for Structural Applications	FDP (3 Days)	2024
<b>4.</b>	Green Energy Technologies for a Sustainable Environment	FDP (5 Days)	2024
<b>5.</b>	Recent Research Trends in Civil Engineering: Towards a Sustainable Future	FDP (5 Days)	2025

#### **Contributions at MIT, Aurangabad**

##### **Industrial Visits Organized:**

- Visit organized to Integrated Command and control Centre (Smart City office), Chhatrapati Sambhajinagar and Kham River Rejuvenation Project
- Visit organized to Solid Waste Treatment Plant, Padegaon Chhatrapati Sambhajinagar.

##### **Expert Talk Organized**

- Expert Lecture by Dr. J.G. Muley on ‘Importance of Geology in Civil Engineering’ on 22/02/2024.

##### **Extra-Curricular**

- Faculty Co-ordinator of Civil Engineering Student’s Association since A.Y. 2023.
- Organized two days “Saptarang” Event in April,2024.
- Organized two days “Saptarang” Event in April,2025
- Organized one day” Concrete Mix Design” Workshop in April,2024.

Organized “Degree Distribution Ceremony” in November, 2024 for 2022-23 batch

#### **List of Research Publications /Books**

- Research paper titled “Bearing capacity ratio of square, circular and rectangular footings on geogrid reinforced crushed sand” published in “**American Society of Civil Engineers (ASCE)**” – **2020 Conference, Kolkata. [2020]**

#### **Personal Details**

**Date of Birth:** 25/04/1995

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**Permanent Address:** Chetna Nagar, Near Kalda Corner, Chhatrapati Sambhajanagar.

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