

EDUCATION

National Institute of Technology, Tadepalligudem, Andhra Pradesh <i>B. Tech (Civil Engineering)</i>	<i>[Nov'22 – May'25]</i> CGPA: 8.94/10
Indian Institute of Technology Madras <i>Exchange program (IIT Madras)</i>	<i>[Jul'25 – Present]</i> CGPA: 9.42/10
Subash Inter College, Saraiya, Ayodhya, Uttar Pradesh <i>Intermediate (Physics, Chemistry, Mathematics)</i>	<i>[Jul'20 – May'22]</i> U.P. Board: 83%

PUBLICATIONS

- **Ajeet Chaurasiya, Pawan Kumar,** 'Stabilisation of Expansive Soil Subgrade using Lime and Cement: Effect of 2-phase Stabilisation and Compaction Delay', **International Conference on Transportation System Engineering and Management July, 2025** *[Successfully presented]*
- **Ajeet Chaurasiya, Thyagaraj,** 'Effect of Curing on Strength and Soil-water characteristics behaviour of Lime-Stabilised Expansive soil'. *[Under preparation]*
- **Ajeet Chaurasiya, Thyagaraj,** 'Effect of soil structure on hydro-mechanical behaviour of termite mound soil'. *[Under preparation]*

SCHOLASTIC ACHIEVEMENTS

- CGPA: 9.42/10, B. Tech Civil Engineering.
- Intermediate: 83% (U.P. Board).

SKILLS

Technical: AutoCAD (2D & 3D), Soil Works, MS Excel, MS Word.

Non-technical:

- Languages: English, Hindi (written and spoken).
- Communication, interpersonal skills, organising, leadership, and learning agility.

RESEARCH EXPERIENCE

Winter Intern, IIT (BHU), Varanasi, Uttar Pradesh	<i>[Nov'24 – Dec'24]</i> <i>Coupled seepage-slope analysis using Soil Works</i>
Summer Internship, NIT Andhra Pradesh	<i>[May'24 – Jun'24]</i> <i>Experimental studies on hematite-incorporated slag-based alkali-activated binder</i>
Summer Internship, IIT Madras	<i>[May'25 – Jul'25]</i> <i>Suction–UCS characteristics of expansive soil</i>

CERTIFICATIONS

- AutoCAD (2D & 3D) – Placify Technologies *[Jun'24 – Jul'24]*

PROJECTS

1. **Coupled Seepage and Slope Stability Analysis of an Ash Dyke**
Performed a coupled seepage-slope stability analysis to assess the impact of infiltration and pore pressure on slope stability, supporting safer ash-dyke design and risk mitigation.
❖ Tools: Soil Works.
2. **Stabilisation of Expansive Soil using Lime and Cement: Effect of 2-Phase Stabilisation and Compaction Delay**
 - Evaluated expansive soil stabilisation using lime and cement by **quantifying strength improvement**.
 - Studied the effects of two-phase stabilisation and compaction delay through controlled laboratory testing to identify **optimal treatment procedures**.
3. **Effect of soil structure on hydro-mechanical behaviour of termite mound soil'**
 - Studied the hydro-mechanical behaviour of termite mound soil, emphasising the role of natural soil structure on suction, strength, and collapse behaviour. Demonstrated its enhanced structural stability compared to conventional soils.
4. **SWCCs during wetting-induced collapse**
Studying the Suction variation (Matric & Total) by changing the collapse potential.