

## Department of Chemistry

### Departmental Seminar Series: Chemistry Education

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You are cordially invited to a face-to-face lecture on the research of



**Dr. Ashish Agrawal**

Department of Curriculum Development, Planning and Coordination  
National Institute of Technical Teachers Training and Research, Chennai, India.

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**Date:** Monday, 11 April 2022  
**Time:** 14:30  
**Venue:** The Orbital (Room 3-1 Chemistry Building)  
**Enquiries:** Prof. Lynne Pilcher ([lynne.pilcher@up.ac.za](mailto:lynne.pilcher@up.ac.za)) (Chemistry)  
or Dr Helen Inglis ([Helen.Inglis@up.ac.za](mailto:Helen.Inglis@up.ac.za)) (Mechanical Engineering)

#### About Dr Agrawal

Dr. Ashish Agrawal (Pronouns: he/they) serves as a visiting faculty member in the Department of Curriculum Development, Planning and Coordination at National Institute of Technical Teachers Training and Research located in Chennai, India. In this role, he designs and delivers professional development programmes for lecturers, research scholars, and postgraduate students in the areas of effective teaching and learning, research methodologies, and communication skills. He obtained his PhD in Engineering Education at Virginia Tech, in the USA. His research interests include student and faculty experiences in STEM, diversity and inclusion in STEM, assessment of the outcomes of engineering courses and faculty development programs, sociology of education, and critical pedagogies.

#### Abstract for the seminar

During the seminar, Dr Agrawal will present a broad overview of the research that he was involved in during his postdoc. This research explores the development of undergraduate students' agency and disciplinary identity in two STEM disciplines- Chemistry and Chemical Engineering - at six universities across the UK, South Africa, and the US. Additionally, he will present the in-depth findings of a specific aspect of this research that compares the chemical engineering curricula across the six research sites along with how the different curricular structures influence the formation of students as engineers in different ways.