



**Lecturer: Mr. Nhlanhla Nyembe (MTech: Chemical Engineering)**

**Tel:** (+27)16 950 9059

**Email:** [nhlanhlan@vut.ac.za](mailto:nhlanhlan@vut.ac.za)

**ORCID:** 0000-0002-1001-2377

**Bio:** Mr. Nyembe is a self-sufficient, passionate and methodologically oriented individual, with extensive experience in the fields of research & innovation, teaching & learning and various industrial operations. His portfolio comprises research in water and wastewater treatment, photocatalysis and industrial waste management. Drawing from his passion of modelling and simulation, he also applied Computational Fluid Dynamics as a tool to describe the complex phenomena in wastewater treatment. As a member of the department of Chemical and Metallurgical Engineering, he lectures Transport Phenomena (Fluid flow, heat and mass transfer), Separation Processes and also provides training to students at the Unit Operations laboratory to prepare them for the working world. During his spare time, he engages in consultancy work, which involves collaborations with industries including Rand Water, ERWAT, ArcelorMittal and Department of Public Works. His current research is focused on catalyst synthesis, biofuel production and thermochemical conversion processes. He is professionally affiliated with Institute of Chemical Engineers (IChemE), South African Association for Theoretical and Applied Mechanics (SAAM) and International Institute of Engineers (IIE).

**Qualification and Institution:** MTech Chemical Engineering (VUT), Btech Chemical Engineering – Cum Laude (VUT)

**Area of expertise:** Renewable Energy; Catalysis, Bio-fuels, Sustainability, Waste Management, Water and Wastewater Treatment.