



Partnership

Eight partners from three countries are involved:

- North-West University (ZA)
- PIXEL (IT)
- University of Florence (IT)
- Polytechnic Institute of Braganca (PT)
- University of the Witwatersrand (ZA)
- University of Pretoria (ZA)
- Sol Plaatje University (ZA)
- University of South Africa (ZA)



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Ted-SOEP

Transforming STEM teacher education in South Africa through
self-directed open educational practices

tedsoep.org

Context

South Africa faces challenges in providing equitable access to high-quality Science, Technology, Engineering, and Mathematics (STEM) education at the higher education level.

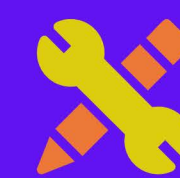
South African higher education institutions need innovative strategies to improve STEM education, especially through self-directed learning and open educational resources. By collaborating with international partners, we can bridge gaps, enhance teaching quality, and equip educators for the future.



Aims

The overall scope of the project is to foster collaboration between South African and European Higher Education Institutions (HEIs) to enable the exchange and transfer of expertise, best practices and know-how in integrating self-directed open educational practices and open educational resources into STEM teacher education.

- ✓ Enhance STEM teaching in South African Higher Education by promoting self-directed learning, open educational resources, and practices.
- ✓ Create a sustainable environment for sharing and developing self-directed open educational resources and practices in STEM education.
- ✓ Offer practical steps for HEIs and policy-makers to adopt self-directed open educational practices and resources suited to South Africa.



Skill Acquisition

South African pre-service and in-service STEM education teacher-students and STEM education lecturers acquiring the skills to apply self-directed learning, integrate open educational resources and establish open educational practices.



Online Course

An online course designed to equip educators with the knowledge and strategies to foster self-directed learning, integrate open educational resources, and implement open educational practices.



Online Database

A collection of at least 140 validated open resources focused on self-directed open educational practices and open educational resources.



Guidelines / Policies

Guidelines & policy recommendations tailored for the South African context, aimed at supporting educational authorities in integrating open resources and self-directed open educational practices into STEM teacher education.