

MINING INDABA 2023

www.miningindaba.com



a Hyve event

6-9 February, 2023 CTICC, Cape Town





WORKPLACE SKILLS AND WORKFORCE CULTURE FOR THE MINE OF THE FUTURE

Wits School of Mining Engineering curriculum re-alignment to the mine of the future.

YOS 1

- ❖ Maths and Science
- ❖ Engineering design
- ❖ Humanities (Ethics, Languages)

YOS 2

- ❖ Professional Development (Soft skills)
- ❖ Digital Technologies
- ❖ Mine Data Science and Analytics

YOS 3

- ❖ Automation and Robotics
- ❖ ESG

YOS 4

- ❖ Mining optimisation
- ❖ Systems engineering
- ❖ Entrepreneurship

First cohort of students graduating on the new curriculum - 2022



4IR CURRICULUM ADAPTATION

QS SoME RANKING	DATA SCIENCE	DATA ANALYTICS	AUTOMATION & ROBOTICS	COMPUTER PROGRAMMING	INTERNET of THINGS	ARTIFICIAL INTELLIGENCE	DIGITILISATION
1							
2	✓	✓	✓	✓	✓	✓	✓
3		✓	✓				
4				✓			
5				✓			
6		✓	✓	✓			
7			✓	✓			
8			✓	✓			
9							
10				✓			

Are universities and industry adapting their curriculum and training fast enough?



- Yes, mining engineering schools are adapting their curricula to incorporate 4IR related courses.
- Three schools have at least three 4IR related courses.
- Mining engineering schools are collaborating with other disciplines.