



UNIVERSITY OF TM
KWAZULU-NATAL
—
INYUVESI
YAKWAZULU-NATALI

School of Engineering

Online Open Day 2020

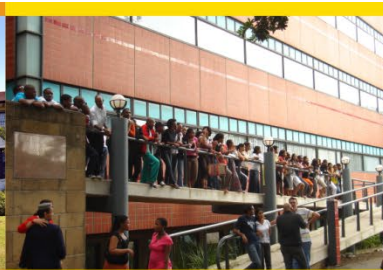
Dean and Head of Engineering: Prof Glen Bright



EDGEWOOD CAMPUS



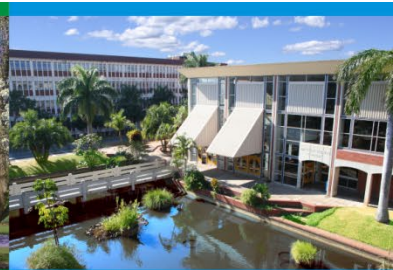
HOWARD COLLEGE CAMPUS



NELSON R MANDELA SCHOOL OF MEDICINE



PIETERMARITZBURG CAMPUS



WESTVILLE CAMPUS

INSPIRING GREATNESS

UKZN Structure – four Colleges

Agriculture, Engineering and Science

Health Sciences

Humanities

Law and Management Studies

College Structure: Five Schools

Professor Albert Modi
Deputy Vice-Chancellor and Head of College

College Dean
for Teaching
and Learning

Director of
Professional
Services

College Dean
for Research

Agricultural,
Earth and
Environmental
Sciences

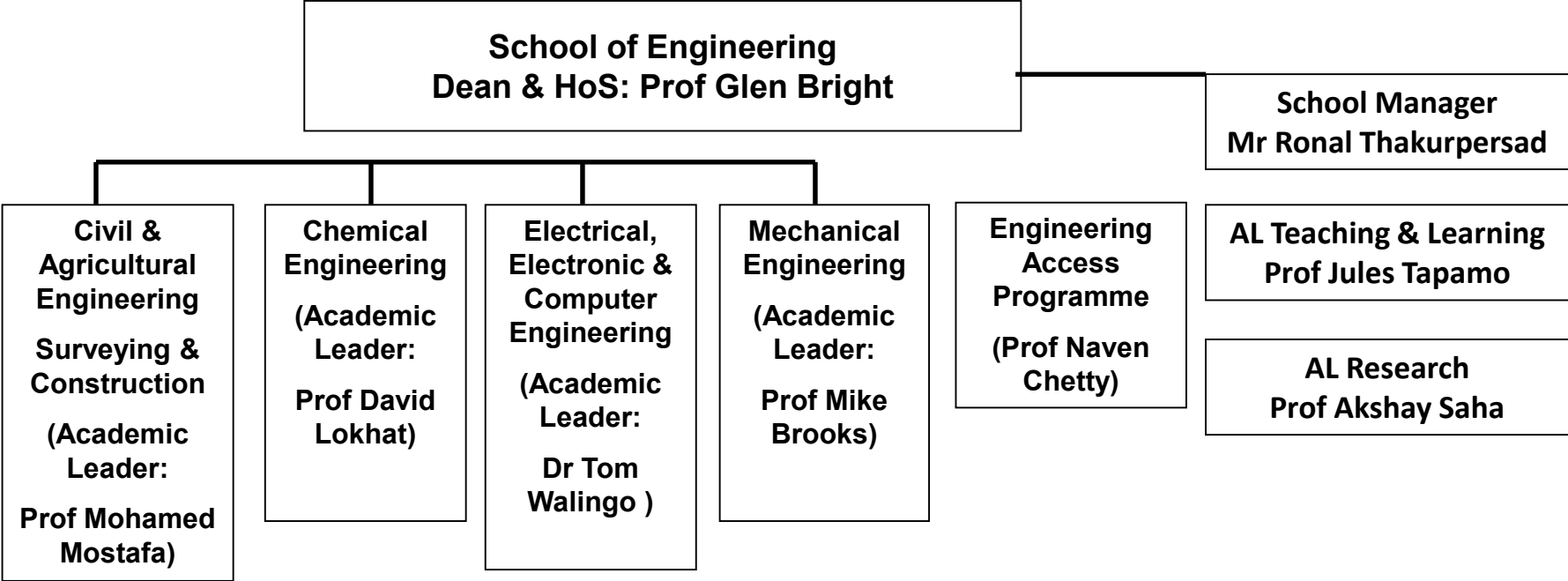
Chemistry and
Physics

Engineering

Life Sciences

Mathematics,
Statistics and
Computer
Science

School of Engineering: Academic Structure



UG Programmes in the School of Engineering

Academic Clusters	Programmes	UG Degrees
CAESC	Civil Engineering Agricultural Engineering Surveying	BScEng(Civil) BScEng(Agricultural) BScSur
CE	Chemical Engineering	BScEng(Chemical)
EECE	Electrical Engineering Electronic Engineering Computer Engineering	BScEng(Electrical) BScEng(Electronic) BScEng(Computer)
ME	Mechanical Engineering	BScEng(Mechanical)



About the School of Engineering: Postgrad

The most research-productive University in South Africa:

- Personal experience
- Masters & PhD enrolled/grad 2018: 433/106
- Large complement of staff establishing strong research careers
- Established and developing international exposure



Large and emerging research groups in:

- Factories of the future / mechatronics
- Materials science
- Aerospace
- Artificial Intelligence and Data Science
- Biochemical and Reaction Engineering
- Conservation of water
- Agriculture, flooding, irrigation
- Thermodynamics
- Radio technology
- High Voltage DC Engineering



About the School of Engineering: Undergrad

Staffing:

- 84 academics and 70 support posts
- Range from lecturer to professor
- Significant student support structures
- Academic (specific and general), personal counselling, career guidance



Graduate +_ 400 UG students with +_ 2500 registered (all years)

Four year programmes – exit with honours. Postgrad study straight to masters

Significant number do graduate in minimum time (4 years), but average +/- 5.

Education or Training

The last 100 years has seen us move from:

- Ox Wagon to Space Shuttle
- Penny Post to e-mail and Internet
- Log tables to personal computers
- Rural agriculture to genetic engineering



The jobs your daughters and sons will be doing in ten years' time may not yet exist:

- Training them for today's job is preparing them for yesterday
- Educating them for problem-solving is preparing for tomorrow

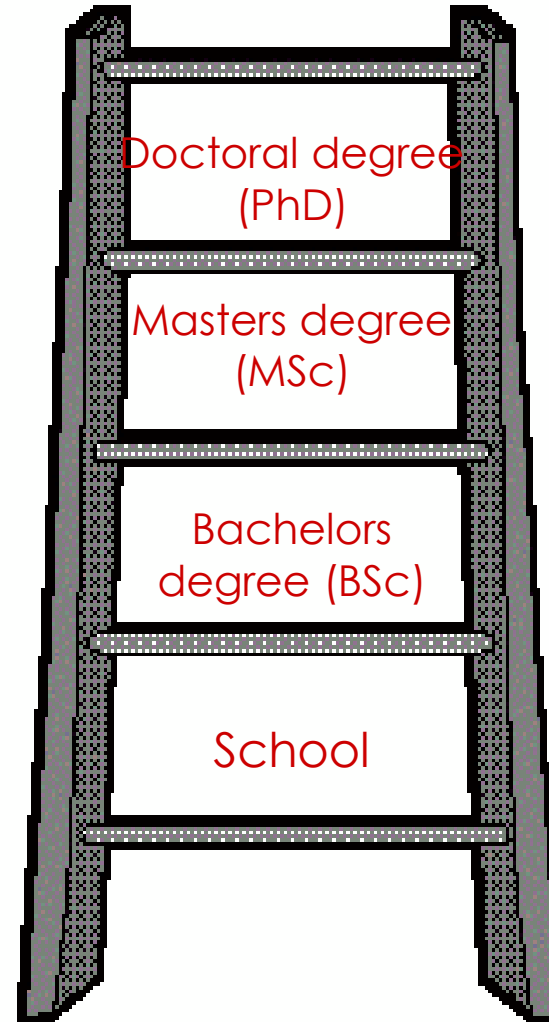
Engineering

- All engineering degrees are fully accredited with ECSA
- Critical profession for the future of the country
- Degree is tough but rewarding
- Be careful of the transition from school
- Students should enjoy their time at university, both socially and intellectually



Qualifications Ladder in Engineering

Climb the ladder
of life-long
learning



THANK YOU

for choosing UKZN

www.ukzn.ac.za