



higher education
& training
Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

Mid-term review of enrolment planning

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Achievements



- Restructuring - changed landscape
- New typology - greater systemic diversity
- Increased diversity in enrolment
- Programmatic diversity
- QA
- Funding instruments – earmarked funds
- Growth in African enrolments
- Enrolment management

Ongoing challenges



- Social justice and redress
- Changing economy
- Ambitious growth targets – 25% by 2030
- TVET – from 345 000 to 2.5M
- Differentiation

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Enrolment planning: 2014/15-2019/20



- Planning instruments – enrolment and PQM, QA and funding
- Enrolment planning dovetails - broader institutional strategic plans, national plans, human resource development strategy of the country.
- 2014: Ministerial Statement on Student Enrolment Planning for 2014/15 to 2019/20 for the university sector
- Systemic changes, strategic directives necessitated the need to review targets for cycle

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Occupations in high demand



Occupations in High Demand refer to those occupations that show relatively strong employment growth, or are experiencing shortages in the labour market (vol. 607 19, January 2016 No. 39604)

- Primary purpose: to support the planning processes of the DHET particularly in relation to enrolment planning, resource allocations, career advice and qualifications development.
- provides useful insights into the skills needs of the economy

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Operation Phakisa: Ocean Economy



- Launched by government in June 2014 to fast track the implementation of specific large-scale programmes
- Key areas: Aquaculture; Offshore Oil and Gas Exploration; Marine Transport and Manufacturing; as well as Marine Protection and Governance.
- South African International Maritime Institute (SAIMI) has been appointed as the delivery agent to assist the DHET. SAIMI has established five multi-stakeholder Skills Initiative Working Groups aligned to the Operation Phakisa delivery areas.
- The key deliverable: Skills Development Strategy, Framework and Implementation Plan for each delivery area for consideration by the Universities

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Growth opportunities: Operation Phakisa OE

Marine Transport and Manufacturing

Naval Architect; Yacht Designer; Marine Engineer; Composites Technician; Marine Draughtsman; Ship Surveyors; Ship's Deck Officer; Ship's Master; Industrial and Production Engineer; Shipbuilders / Boatbuilders; Logistics and Materials Management; Forwarding Agent; Shipping Agent; Supply Chain Practitioner (International Logistics)

Aquaculture

Aquaculture Farm Manager; Agriculture Scientist; Water Quality Analyst; Marine biologist; General Aquaculture Scientist (R&D); Agricultural Engineer ; Aquaculture Produce Manager ; Aquaculture Farmer; Veterinary Epidemiologist; Veterinary Parasitologist; Veterinary Pathologist; Veterinary Surgeon; Animal Husbandry Scientist, Animal Nutritionist,; Aquatic Biologist; Aquaculture Produce Analyst

Offshore Oil and Gas Exploration

Subsurface Professionals specialised in Petroleum Geosciences and Petroleum Engineering; and Subsurface Professionals without Petro-Geosciences such as Geomaticians and Hydrogeologists; Petrophysics and Reservoir Engineers; Project and Discipline Engineers; Well Engineers; Production Engineers; Drilling Personnel e.g. Barge Engineer; Drill Bit Engineer; Measurement and Logging Drilling/Engineer/specialists; Cementing Manager; Drilling Fluids Supervisor/Engineer; Wireline Geophysical Logging Engineer etc.

Marine Protection and Governance

Marine Atmospheric Scientist; Climate Change Scientist; Oceanographer; Marine Geologist; Statistical Ecologist; Biodiversity Planner; Marine Ecologist; Marine Protected Area Manager; Environmental Impact Assessor; Marine Spatial Planner; Maritime-Law Attorney; Marine-Law Attorney; Environmental-Law Attorney; Biodiversity Information Management Specialist; Resource Economist; Marine GIS Technician

Strategic Infrastructure Projects



R870 billion in the public sector infrastructure programme over the next three years. This includes:

- Energy investment will be over R180 billion over the next three years, as construction of the Medupi, Kusile and Ingula power plants is completed.
- Transport and logistics infrastructure: nearly R292 billion over the next three years. Transnet is acquiring 232 diesel locomotives for its general freight business and 100 locomotives for its coal lines.
- R62 billion is allocated for the housing subsidy programmes and R34 billion for bulk infrastructure and residential services in the metros.
- R28 billion will be spent over the MTEF on improving health facilities and R54 billion on education infrastructure.
- The next phase of the Olifants River water scheme is in progress etc.

Growth opportunities: SIPS



- DHET has the responsibility of ensuring the skills required for the rollout of these projects are developed.
- Analysis reveals following professionals for immediate priority attention:

Professions and associate professionals	
214201	Civil engineer
214202	Civil engineer technologist
311201	Civil engineer technician
132301	Construction manager
132301	Construction project manager
214904	Quantity Surveyor

- Occupational task teams

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Production of Health professionals



- Starting to revise the HRH strategy for South African in 2016/17
- Engagements with DOH to give better insights
- There is the expansion of the health professional provisioning through increased enrolment in the MBCHB, which includes the South African students being trained in Cuba, nursing, pharmacy, development of academic health complexes and the new medical school. In addition there is the relocation of the nursing colleges to a national competency as well as an Operation Phakisa: Health process

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Teacher Education



- Universities steer greater resources to enable increased enrolments in Foundation Phase and Intermediate Phase initial teacher education programmes, and to the development of maths and science
- African Language-speaking new Foundation Phase teacher graduates must be increased and ITE programmes
- enrolment planning and enrolments at universities needs to be more responsive to needs in particular areas,

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NDP Targets: M and D graduates



National Development Plan (NDP) ... by 2030

- Produce more than 100 doctoral graduates per million by 2030
- SA needs more than 5000 doctoral graduates per annum
- Produce an additional 100,000 PhDs
- Most of these doctorates should be in SET
- Over 25% of university enrolments should be postgraduate
- Increase percentage of academic staff with PhD from 43% to 75%

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iNESI



- shortage of e-skills capacity limits socio-economic development and the competitiveness of the economy. skills need to be developed to promote the adoption of services across the envisaged national broadband network that will be rolled out in the country.

The objective of the iNeSI is to:

- promote the development and the use of e-Skills
- promote and improve e-skills
- advocate and support initiatives that promotes the increase use of and increase knowledge of ICT

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Agricultural colleges



- Cabinet approved the Mangaung resolution that Agricultural Colleges be transferred to the Department of Higher Education and Training (DHET)
- a DHET / DAFF **Steering Committee** established
 - responsible for oversight of project activities;
 - finalising the drafted Terms of Reference for the Department of Agriculture, Forestry, and Fisheries (DAFF) DHET Joint Technical Task Team through a discussion with relevant stakeholders;
 - the coordination and alignment of strategic and operational initiatives
 - a clear communication strategy;
 - providing advice to the Directors-General of Agriculture, Forestry and Fisheries and Higher Education and Training.
- **Members:** co-chaired by the DDGs from DAFF and DHET

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Central Application System

- The consolidated CAS Enterprise Architecture has been completed and documented and is now out for further consultation
- DHET will commence the legislative establishment including the policy framework
- DHET is in the process of engaging providers for the next phase of the initiative
- Institutions should engage with the Enterprise Architecture document and be ready to participate in the detailed specification and design phase

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Growth opportunities

Growth opportunities to be identified in terms of :

- current challenges; and
- funding parameters; as well as
- affordability of a national macro infrastructure planning framework: achieve planned outcomes - funding framework; funding allocations for university infrastructure; background of the NDP; corresponding funding cycle and HEMIS Building Space and Cost Norms are to be used.

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New projects



- 10th medical school
- 2 new engineering faculties in previous HDIs
- Giyani campus as a developmental campus of a university

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Distance education/blended learning



- Growth in enrolments which is required to achieve the target of 1.62 million enrolments by 2030.
- Distance education, aided by advanced information communication technology, expanding learning opportunities for different groups of learners
- institutions were encouraged to increase their footprint in the offering of distance programmes in order to improve access to university education opportunities
- DHET developed the *Policy for the Provision of Distance Education in South African Universities in the context of an Integrated Post-school System*

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Way Forward



Current size and shape for the 2012 – 2019 cycle

1. Total HC = 1.9%

- UG = 1.6%
- PG = 3.9%

2. FTEN = 4.7% (27% of total HC)

3. CONTACT = 2.5%

- UG = 2.0%

4. DISTANCE = 1.0%

- UG = 0.9%

5. FTE = 2.2%

- UG = 1.8%

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Success Rate = 79%

- UG = 80%

Graduates = 3.9%

- UG = 3.4%

Staff

- I/R = 3.0%

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PRINCIPLES:

- Sustainability
- Enhanced efficiency
- Reprioritization
- Possible slower growth for the remaining 3 years
 - national growth percentage of 1.0%
 - Consideration of more blended offering / distance provisioning
 - Consideration of TIU % share and budget
 - Emphasis on quality and increased graduate output

DEADLINE REVISED SEP:

15 AUGUST 2016

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Thank you

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