REFORMING HIGHER EDUCATION TEACHING PRACTICES IN AFRICA

Critical thinking – the process of questioning and learning with an open mind – is considered one of the most important outcomes of a contemporary university education, a crucial skill for graduate participation in the global ‘knowledge economy’. Thanks to innovative research from University College London, UK together with researchers from the University of Botswana, the University of Cape Coast in Ghana, and Strathmore University in Kenya, universities across sub-Saharan Africa are now making changes to their teaching practices to support the development of their students’ critical thinking skills.

THE CHALLENGE
The new development challenges facing countries in sub-Saharan Africa – and elsewhere – call for individuals with demonstrable critical thinking skills. However, despite a large body of literature looking at ways in which academic experiences at university can positively influence the development of student critical thinking skills, current evidence rests largely on research conducted in the USA, UK, and Australia. There is a noticeable lack of research and evidence to inform these debates in the African context.

THE RESEARCH
The ‘Pedagogies for Critical Thinking: Innovation and Outcomes in African Higher Education’ project examined the impact of teaching reforms in 14 universities across Botswana, Ghana, and Kenya. Using a mixed methods approach (a longitudinal study of student ‘gains’ in critical thinking over a two-year period and a qualitative investigation of the teaching and learning environment), researchers wanted to understand how different teaching styles affected the development of critical thinking skills.
and how universities in Africa respond to processes of pedagogical change.

Measuring critical thinking skills using an adapted version of the ‘Collegiate Learning Assessment’ (a test undertaken by students at the start of their undergraduate course and then another two years later), the study found that three universities in particular supported significant improvements in the critical thinking skills of their students. They were found to have:

- Enabled a shared teaching culture in which faculty members privileged independent student learning;
- Created a learning environment in which students were exposed to a variety of viewpoints and perspectives;
- Ensured critical thinking was a required skill across the curriculum;
- Created a culture of pedagogical improvement, providing regular ongoing development for teaching staff;
- Restructured assessment formats so as to better align with teaching approaches; and
- Provided teaching staff with sufficient time to discuss and improve their practices, in order to foster pedagogical change.

**THE IMPACT**

Following the dissemination of research in all three countries, many of the participating universities are considering ways to reform their teaching practices and processes to better prepare lecturers in the skill of fostering critical thinking.

In Kenya, the Commission for University Education has now incorporated critical thinking into its national work and is supporting universities in adapting their curricula. Mwenda Ntarangwi, CEO, explained:

> This research has supported one of the bold moves taken [by the Government of Kenya] to introduce a competence-based curriculum that aims at producing students with requisite skills and competencies that meet the needs of a changing society propelled by a knowledge economy. [It is] particularly useful for supporting this change where learning is herewith active and interactive as the learner takes on a larger role in the process of learning as the teacher’s role increasingly becomes facilitative. These critical thinking skills are a must for all Kenyan students, not just a preserve of a few who may have access to select institutions.

In Botswana, the project inspired one participating university to organise a seminar for faculty and staff that focused on the importance of critical thinking skills for employment. Another institution is preparing to overhaul its process for evaluating teaching quality (a critical component of the academic promotions policy), to better support the kinds of institutional characteristics highlighted by the study.

In Ghana, there is evidence that lecturers at the public universities involved in the study have embedded critical thinking into their teaching approaches since the research took place. However, in some cases the success of these innovations is restricted by large class sizes, indicating that systemic change across the university system is needed.

The ‘Pedagogies for Critical Thinking’ research has shown the success of infusing critical thinking across the curriculum. It is providing an important evidence-based contribution to a critically overlooked aspect of university quality in the region.

**FURTHER READING**


Some Kenyan universities have also explicitly prioritised critical thinking within institutional structures. For example, one private university in Nairobi has recently adopted critical thinking as a key dimension in its curricular review at an institutional level, while another is incorporating aspects of critical thinking into its staff development programme.

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