

Executive Course on Science, Technology and Innovation Policy for Sustainable Development

Presented by the Graduate School for Technology Management, University of Pretoria

Brief Description

The first two decades of this millennium saw a huge surge of interest and activity in science, technology and innovation (STI) policy in Africa. African countries adopted policies and established institutions for STI policy. By 2018, at least 45 African countries had explicit policy frameworks and created agencies for STI policy. These countries have accumulated differentiated capabilities for and experiences in STI policy-making. The **Executive Course on Science, Technology and Innovation Policy for Sustainable Development** explores these countries as sources of lessons on STI policy formulation, implementation, monitoring and evaluation.

Furthermore, you will delve into how African countries that have not adequately integrated sustainable development considerations into their STI policy frameworks. Their STI policy frameworks are based on conventional economist rationales of enhancing growth and competitiveness and fail to adequately focus on social and environmental dimensions of sustainable development. To a large measure, this is due to weak capacities for STI policy research and analysis within governments of the countries. It is also because most policy makers and researchers in Africa are not exposed to modern and locally relevant conceptual frameworks for STI policy. They tend to rely on and use orthodox reductionist linear approaches to research innovation-development nexus. Such approaches are incapable of appropriately addressing societal challenges of poverty, gender inequalities, high disease burden, environmental degradation, political conflicts, and water and energy insecurities in Africa.

Course content



Concepts (and theories) of, and issues in science, technology and innovation policy



Why science, technology and innovation are critical to sustainable development



New Technologies and the 4th Industrial Revolution



The policy process and mechanics of science, technology and innovation policy-making



Transformative Innovation Policy and its application in African contexts



Political economy of science, technology and innovation policy



Innovative institutions for governing technological change for social and economic transformation



Techniques and tools for evaluating the effectiveness of science, technology and innovation policy



Case studies of African science, technology and innovation policy processes and instruments

Learning Outcomes

The overall objective of the executive course is build a cadre of African officials, researchers and practitioners with skills in STI policy analysis for transformative change and sustainable development. It helps to enhance the capacity of African countries to integrate sustainable development considerations into their national STI policy frameworks.

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Who should enrol?

This course is ideal for middle-to-senior level officials in government departments or ministries of science and technology, trade and industry, and other state agencies engaged in STI policy processes. It is also tailored for representatives/officials from private sector and NGOs who participate in national and international policy processes on STI and sustainable development.

Admission requirements

Prospective delegates should have at least a Bachelor's Degree and experience working in policy making and planning environments.

Accreditation and certification

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Registration and enquiries

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For more information (Including fee, start date etc)

[Click here](#)

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