The IBE seeks to mainstream STEM into the educational system as an effector of the educational policies paving the way to effective, relevant and sustainable learning opportunities, processes and outcomes. It includes different types of approaches and interventions; namely, situational analysis, policy/technical dialogue, revision of policy frameworks, capacity development training, and the production and dissemination of knowledge products related to educational policies, curriculum and pedagogy, as well as teacher education and professional development.

The IBE prioritizes the practical, social, economic, environmental and global aims of STEM education so as to demonstrate positive effects through inclusive and equal engagement of both girls and boys.

IBE & STEM

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The IBE is a leading UNESCO Institute in the field of curriculum, learning and related matters, valued both for its specialist knowledge, expertise and networks, and for providing curriculum support services that include up-to-date, evidence-based information and technical assistance to UNESCO Member States.

Sustainable Development Goal (SDG) 4 and the Education 2030 Agenda

The 2030 Agenda for Sustainable Development underscores the crucial role played by STEM in finding out innovative solutions in order to forge sustainable development and sustainable lifestyles.

Despite the progress made in the last decades, STEM education remains a daunting challenge worldwide. A lack of skilled workers in STEM related fields severely hampers development opportunities for any country. This is even more critical under a gender lens. Women are still largely underrepresented in the fields of STEM despite the mounting demand for STEM professionals.

Fostering STEM skills and knowledge in every individual across the world on the one hand fulfills basic human rights, and on the other addresses critical aspects of shared, inclusive and participatory citizenship for all. In this regard, curriculum plays a vital role as an articulator of the types of STEM competencies required to foster development and in light of the challenges posed by the fourth industrial revolution.

A Resource Pack for Gender-Responsive STEM Education

As part of the IBE series of Training Tools for Curriculum Development, this resource pack aims to share a broader understanding of the theory and practice of gender-responsive STEM education to support its effective development at the policy, school, classroom and community levels.

Application

Empowering practitioners with a comprehensive gender lens, through which policies, curricula, pedagogies, teacher education and professional development, resources and community involvement can be reconceptualized and given effect.

Benefits

Policy makers & planners  Curriculum developers  Teacher educators  Teachers

Tailored Technical Assistance

- Courses (face-to-face sessions, online learning, etc.), workshops, policy dialogue, etc.
- The training can be customized to education policy makers, curriculum specialists & developers, teachers, school principals, teacher educators, development partners in education and others.

The IBE is eager to work collaboratively with Member States to mainstream gender-responsive quality STEM education across education systems.

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