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A Proposed Digital Transformation Policy in Education (DXP@EDU): How Affects Teaching Engineering

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Abstract

This paper aims at proposing a digital transformation policy in education (DXP@EDU), which focuses specifically on education and scientific research as a key lift for other sectors. It provides a roadmap and future trends on using digital technology and data in education to address the radical change in the educational models. This includes business process reengineering, pedagogy, curriculum, and learning platforms. It defines a new track in teaching and learning of different domains, mainly engineering.

During the preparation of the DXP@EDU, the researcher employed a qualitative method based on a focus group with a sample of educational experts of the Palestinian Experts for Education Special Interest Group (EESIG) related to the use of digital technology and data in education. In addition, he has based himself on reviewing the regional and international experiences and best practices, and identifying the basic action lines and formulating a draft DXP@EDU. Finally, this draft was distributed to the sample for revision and amendment to produce the last version of this proposed policy.

DXP@EDU complies with the national DXP that cover all sectors, some of which are related to education, such as utilizing digital technology and data, education and research, capacity building, as well as digital awareness. This DXP@EDU consists of seven action lines; curriculum, study plans and scientific research, promoting the use of digital technology in education, regulations and bylaws, community awareness on DX, fostering infrastructure of digital technology and data, information security and privacy, and DX of administrative processes at the educational institutions.