Transforming Engineering Undergraduate Programs in Vietnam: A Public-Private Partnership

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Abstract

As Vietnam develops into a knowledge-based economy, there exists an urgent need and challenge for the country's top engineering universities to restructure and be recognized as some of the more advanced technical universities in the world. A full analysis of the hindering factors that contribute to the inefficient organizational structure, archaic curriculum design philosophy, passive teaching methodology of Vietnam engineering education is illustrated in the paper. Potential solutions for changes, as well as approaches for comprehensive restructuring the engineering education system to improve quality and performance efficiency are illustrated. A case study will be presented sharing the outcomes of a modernization plan of Ho Chi Minh City University of Technology's partnership with the Arizona State University led Higher Engineering Education Alliance Program (an industry-government-academic partnership) to rapidly modernize and improve the quality of the curriculum, faculty instruction and program administration of the Electrical Engineering undergraduate program curriculum.