

Skill Mapping: Empowering Thailand's Higher Education for the Future

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Abstract:

Skill mapping is an educational digital tool designed to scientifically identify, assess, and align the skills required for academic success, personal development, and professional careers. By creating a structured framework, skill mapping enables educators and students to visualize and track the acquisition of competencies across cognitive, technical, and soft skills. This approach facilitates personalized learning by aligning educational content with specific skill outcomes, helping students adapt their learning courses to meet individual needs and future career demands.

Recently, open data has provided important information for monitoring a dynamic change in job demand. For this reason, a skill mapping platform can be developed by integrating of open data into skill mapping. We can utilize extensive datasets from governmental sources, educational platforms, and labor market analytics to inform curriculum design. Open data provides real-time insights into emerging industry trends and employer expectations, enabling educational institutions to adapt curricula to evolving job market requirements dynamically. This data-driven approach fosters collaboration across institutions, informing educational policy and curriculum development through evidence-based decision-making.

Skill mapping is a digital tool that can play a critical role in curriculum redesign, shifting the focus from traditional content-based education to a learner-centered, skill-oriented model. By identifying skill gaps between current curricula and desired outcomes, educators can adjust teaching methods, course content, and assessments to emphasize interdisciplinary skills such as critical thinking, communication, and digital literacy. The integration of skill mapping in curriculum redesign, combined with real-time labor market data, ensures that students acquire the competencies necessary for success in the modern workforce. Generally, skill mapping, enhanced by open data, offers a dynamic framework for fostering comprehensive student development and preparing individuals for the challenges of both academic and professional careers.

Therefore, in this talk, the development of skill mapping will be described including methodology and examples of use for curriculum design. A study shows that skill mapping can serve as a powerful tool in modern education, offering a strategic way to align academic curricula with the evolving demands of the workforce. This skill mapping approach can offer personalized learning, support curriculum redesign, and train students with the competencies required for academic achievement and dynamic career preparation, effectively bridging the gap between education and employability.