

Peer Review

Review of: "Dynamism and Total Integration in Engineering Curriculum Planning to Meet Industry Needs and Implementation based on Theory into Practice (TIP)"

Carla Ferreira¹

1. Universidade de Aveiro, Portugal

Congratulations! A very pertinent and relevant topic. It is indeed crucial to (re)think the alignment between the curriculum and the needs of the labour market. The supporting literature is relevant. The aim of the article is ambitious. However, in the course of reading it, it is not at all realizable:

1. It is not clear whether we are analysing a curriculum or the mission of an institute. There is no characterisation of the focus of study, nor of the engineering course under consideration here. It is not clear whether the focus is on engineering in general or on a particular degree programme;
2. The research objectives are too numerous and are not concretized in the article, in addition to not being contextualized;
3. The entire investigation is based on a SWOT analysis, which in my opinion is not sufficient to assess the alignment or misalignment between the curricular offers and the needs of the labour market, as well as the proposal for re-design. If I may suggest, based on this SWOT analysis, you could design other data collection instruments: focus groups and/or interviews with various stakeholders (students, alumni, teachers, policy-makers, employers....).

I advise you to consult the following articles:

Ferreira, C., Gabriel, B., Valente, R., & Figueiredo, C (2024). Engineering Education Challenges and Strengths: reflecting on key-stakeholder's perspectives. *Front. Educ.* 9:1297267. Doi: 10.3389/feduc.2024.1297267

Ferreira, C., Gabriel, B., Valente, R., Andrade-Campos, A., Dias-de-Oliveira, J., Neto, V., Soares, S., Carvalho, T., & Figueiredo, C. (2024). In Search of a More Balanced Engineering Curriculum: The Perspective of Students, Teachers, Alumni and Employers. *Trends in Higher Education*, 3(1), pp.142-154.
<https://doi.org/10.3390/higheredu3010008>

Declarations

Potential competing interests: No potential competing interests to declare.