

Review of: "Generating Smart Goals of Engineering Education Institutes in the Fast-Developing Countries"

Natanael Karjanto¹

1 Sungkyunkwan University

Potential competing interests: No potential competing interests to declare.

Review manuscript ID: geios-AXBB26

Title: Generating Smart Goals of Engineering Education Institutes in the Fast-Developing Countries

Author: Thanikachalam Vedhathiri

Journal: Qeios

Date: 15 July 2023

This paper addresses an important and timely issue in India's engineering education system, specifically the need for institutions to upgrade their programs and align them with industrial needs to meet the challenges of globalization. The paper highlights the significance of the National Educational Policy 2020 and emphasizes the importance of capacity development, quality improvement, and efficiency enhancement in engineering institutions.

One of the strengths of this paper is its practical approach to addressing the challenges faced by engineering colleges. The author proposes the development of strategic plans that focus on faculty skill development, industry linkages, and consultancy programs. The inclusion of research findings that highlight the positive impact of certain colleges that have implemented these strategies adds credibility to the recommendations provided.

The paper rightly emphasizes the role of faculty members in program development and the need for their continuous professional development. By highlighting the importance of faculty excellence and the support required from administrators, the paper acknowledges the significance of creating a conducive environment for growth and improvement.

Another strength of the paper is its emphasis on evaluation and assessment. The suggestion to conduct tracer studies and impact studies to measure the growth and contribution of institutions to knowledge capital and human capital is commendable. This approach allows for evidence-based decision-making and ensures that the planned development goals are met.

The paper provides a clear roadmap for institutional development, starting with the preparation of a strategic plan aligned with industry needs, followed by the development of curricula and instructional resources. The focus on interdisciplinary research projects, consultancy programs, and advanced programs demonstrates a forward-thinking approach to enhancing engineering education.



Furthermore, the paper underscores the importance of aligning institutional development with the National Education Policy and emphasizes the need for mentoring faculty and students. The recognition of the fast-changing nature of disruptive technologies and the call for rapid developments and high-performing engineering colleges demonstrates a realistic understanding of the challenges and the need for continuous adaptation.

In summary, this paper makes a significant contribution by addressing the critical issues in India's engineering education system and proposing practical strategies for institutional development. The emphasis on faculty development, industry linkages, and evaluation measures, along with the alignment with the National Education Policy, enhances the strength and relevance of the recommendations. Overall, this paper provides valuable insights and guidance for engineering institutions aiming to excel in the changing global landscape.