

# Restructuring Education: Innovations And Evaluations Of Alternative Systems



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## Innovations and Curriculum Development for Engineering Education and Research in India

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### Abstract

In this article, a craft knowledge perspective is adopted which relates teachers' conceptions and beliefs to their teaching practice, acknowledging contextual and cultural aspects of this practice. Analysis of the Indian education sector reveals the challenges of incoherence in policy formulation and implementation. The paper reviews aspects of curriculum process such as policy, analysis, objectives, content, evaluation methodology and implementation. Therefore, the need for transformation in curriculum for all the engineering educational and higher education levels becomes necessary. The paper submits recommendation on further enhanced strategies that will help in the development of education in line with modern trends in curriculum issues.

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Keywords: Engineering education; Indian education sector; curriculum development; curriculum process

### 1. Introduction

Engineering is a global industry undergoing a period of unprecedented change. The future of engineering is being framed by global forces which transcend national boundaries such as the impacts of globalization, rapid technology advances, climate change and inequality. Through the application of science and engineering, humanity has the potential to meet all of its basic needs: water, sanitation, food security, shelter, energy, transport. Technological and scientific advances especially at the interface of advanced computing, biology and physics are leading exponential growth of innovation and opening a world of new possibilities and markets. It follows that engineering higher education needs to constantly strive to keep pace with these advances and in particular the contribution of engineering to these global opportunities and challenges.

Higher education needs to prepare engineers of the future with the skills and knowhow which they will need to manage rapid change, uncertainty and complexity. Key here is the ability to tailor engineering solutions to the local social, economic, political, cultural and environmental context and to understand the impact of local action on the wider world. Although there is a global dimension within all subject areas, engineering and technology has unique

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