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 Rakesh Kumar Mahto; Jaspinder Kaur; Pulkit Jain
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- Leveraging VR to spread awareness about** 

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R Avanthikha
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Computing (AIC)
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- Design of Rectangular Microstrip Patch Antenna for Wi-Fi Application: Enhancement of Bandwidth and Gain**

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Abhishek Javali
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Contents

I. Introduction

Worldwide, the United States and China have, over the years, dominated higher education. Since independence, India has seen a gradual but steady rise in the availability of high-quality higher education. Recently, however, a need for giving a significant thrust to this sector has been overly felt. Since the eleventh five-year plan sought to increase the literacy rate to 84 percent and minimize the gender gap in literacy to 14 percent, higher vocational education funding to promote this industry has grown. U.G.C. provides general courses and AICTE trials in India. With the aid of the state and universities, AICTE grants institutions autonomy [1]. Education is a self-directed process. India should prioritize research and scholarship to grow into a knowledge hub and develop higher education. India is today undergoing a rapid transformation. Ensuring academic excellence, instructional excellence, and research aptitude is the need of the hour to help develop knowledge-based initiatives— institutional performance, especially in higher education. It is pertinent to note that quality higher education is the crux of sustainable human resource development. With the globalization of the economy, India has witnessed an exodus of good-quality students overseas for technical and higher education. Many of the wide variety of disciplines offered in the west do not have any Indian replacement, which is why bright students of the country are being siphoned out. Despite the Government's efforts to revive higher education in the country, the picture seems not very promising. From a bird's-eye view of Eastern India, it's clear that

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the quality of students coming into top-recognized private engineering institutes affiliated with MAKAUT University's engineering departments has decreased in recent years. It is easy to assume that greater rank density would suggest better student intake, allowing for the maintenance of high levels of instructional throughput and, eventually, favorable placements. Institutions accept that the better the arrangements, the higher the quality and quantity of student intake. Immediately downstream from the aforementioned logical node is the worry about the long-term viability of these colleges, a concern arising from the observed constant decline in the quality of the students taking admission in these colleges as reflected in the ranks of the students in the WBJEE entrance examination. The primary concerns are exacerbated further by severe shocks such as the pandemic and subsequent lockdowns and long-term tendencies such as the state's low-key industrialization. The current study aims to uncover patterns and the essential elements underpinning them that may enable a virtuous cycle of sustainability for the whole ecosystem of private engineering colleges that have already established themselves in the top tier. WB-JEE data from 2015 to 2019 were analyzed to examine how MAKAUT University's private engineering colleges fared over time in terms of the quality of students [2] [3].

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