An Approach for Improving Admissions in Engineering: A case study in private Engineering College

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Abstract-In the 21st century the most probable work force developing carrier is engineering. This field has witnessed a decline in the recent past; the impact of this decline on reputed educational institutes is also noticeable. A study was conducted in a premier unaided engineering college to design an approach for attracting students resulting in maximum allotment and conversion of the allotted students in actual admissions. Perception of the students admitted in the institute from A.Y. 2022-23 was collected to understand factors in selecting the institute.
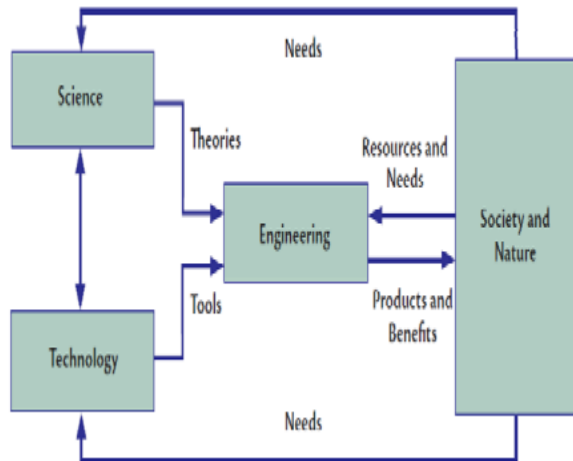
INTRODUCTION

Engineering education research is an emerging field that aims to characterize, apprise, and reform the epistemology, methodology, and evaluation system in education, for developing engineers. The basic aim of engineering education is to inculcate technological and professional skills among engineering students through pedagogy and policy. Engineering education research ensures the efficiency and ability of graduates with appropriate technical knowledge and key attributes for lifelong learning. Engineering education refers to teaching epistemology and professional practice of skills which includes undergraduate, postgraduate, and advanced engineering education. It is typically accompanied by examinations and supervised training as the need for developing the skills of engineering. Science, technology, engineering, and mathematics (STEM) education in schools serve as the foundation for engineering education. The present Engineering education intends to equip our students with key transferable skills which empower them to meet the needs and requirements of frequently changing technological and professional expectations of engineers.

ENGINEERING

The epistemological meaning of the word engine is to create which is derived from the Latin root "ingenerate" and in English it means 'to contrive'. Engineering is a systematic way of using human resources and material resources to fulfill human needs and requirements, which is much older than science. Science boosts the mental exercise of the inquisitiveness of a human being and refers to the understanding of natural phenomena only, whereas engineering has always endeavored to the needs of man from ancient times. Engineering started first in the places where measurements and computation were initiated. Mesopotamia, Egypt, Greece, and Rome were the places in the world where engineering has developed and flourished. Originally Engineering perturbed itself with structures of buildings, bridges, roads, canals etc. Fundamental role of an engineer is to convert theories of sciences into useful applications for the well-being of mankind with changing objectives from time to time. Specific practical problems are addressed by engineers whereas scientists are less bothered by practical applications of their innovations and investigations. Engineering is the application of science to realistic problems and systems for the benefit of mankind.

'Engineering' and 'engineers' is pre-historic. The man who discovered fire, build homes, and make tools and weapons were engineers. The historic and visible ancient civilizations are bright examples of engineering skills like a pyramid of Egypt, the Hanging Gardens of Babylon, and the Great Wall of China. The Roman civilization, Harappa Mahenjudaru civilization reminds us about the greatest engineers of the ancient world

RESULT AND DISCUSSION

As per the study Perception of the students admitted in the institute from A.Y. 2022-23 was collected to understand factors in selecting the institute is found to be attitude towards STEM.

Attitudes towards STEM subjects Another barrier to young people going into engineering are the attitudes many of them hold about STEM courses at school, college and university Although secondary school pupils enjoy science lessons they perceive science to be a difficult subject that is only suitable for the most 'brainy' and that it has little relevance to their lives and interests. Whereas STEM subjects are perceived as geeky and inaccessible, arts subjects are seen as accessible, creative and human-focused. Such views are often reinforced by parents, peers and even some teachers. By secondary school most pupils have defined themselves as either STEM or Arts focused. Very few perceive that there is any middle ground between these subject areas. As a result, all things to do with 'the other' become irrelevant.

CONCLUSION

The decline of admission is reducing up to 50% where as nearly 50% of AICTE colleges seats are lying vacant, lots of researchers indicates the reducing job market is the main cause of reducing interest in engineering, but the perception of the students admitted in the institute from A.Y. 2022-23 reveals the main cause to be less focus on STEM based education in school level.

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