

(By Prof. Ravi Terkar)

Mechanical Engineering

Automation and Artificial Intelligence Alliance with Mechanical Engineering

India is on the cusp of a digital revolution. The trend towards the Automation and Artificial Intelligence (AI) has the potential to increase employment opportunities tenfold.

A Mechanical engineer who is equipped with in-depth knowledge of Automation & A.I. can choose from a variety of career options such as a designer for automation systems; maintenance engineers; Robotic system designers; Software developers; and even a Solution driver for automation industry.

So what is automation? This aspect of engineering involves implementing designing through robotics, computers and mechatronics-based systems to automate processes without human intervention. AI has the ability to develop intelligent machines and systems that can streamline, adapt and even make decisions. AI and Automation could soon be the backbone of Industry 4.0



Automation is absolutely pertinent in today's economy. In addition to improving the quality of life for humans at both home and work, automation allows the distribution of both quality products and services to be made available at accessible rates, and reduces the risk of downtime and human error.

The industrial world is undergoing a tectonic shift with technological changes that has increased the urgent demand for the premium quality products and services. This demand can only be supplied by a high level of efficiency and productivity. Ergo, this requirement can only be matched with automated manufacturing, and industrial automation.