Criterion 3: Research, Innovations and Extension

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher

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HUMANOID ROBOTS IN FUTURE HEALTH SECTOR

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Abstract

Robots are nowadays common in every sector. From December 31st 2019 onwards an unknown virus was detected in Wuhan city, China that has been spread over the world and took lakhs of lives. As it is still prevailing as a contagious disease and is affecting all sectors especially medical field. During this situation the use of Robotics has been increased. As the threat of being affected by coronavirus; doctors, nurses and other health care workers started using robots to interact in real time with patients. Even though robots are efficient in many ways, they cannot mimic empathy which includes a core of compassion, listening to those in need, expressing genuine concern etc. But these robots can also be the sole companions of healthcare workers in future. So, we are discussing about the necessity of humanoid robots in the medical field.

Keywords: Robots,Health sector, Pandemic situation,Covid-19,AI,Future.

I. INTRODUCTION

The first Robot "Unimate" was invented by George.C.Devol & Louisville,Kentucky in 1950.The word 'Robot' originated through the play i.e,Czech playright Karel Capek .

It developed from the word 'Robota' which means 'forced labour'. The very first non-laparoscopic robot was the Puma 560, that performed neurosurgical biopsies with high accuracy in 1985.Nowadays the usage of robots are essential in the medical sector.There are simple as well as highly complex robots,i.e. used for surgery.Robots have an extremely important role in assisting healthcare workers during pandemic**[1]**. A study which was conducted in the Science Robotics says "Robots have the capability to be used for disinfecting, transferring medicines and food, count important signs. As the epidemics shoot up, the roles of robotics are becoming more clearer". A vast

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