### ARTIFICIAL INTELLIGENCE FOR ENGINEERING (KMC-101)

## UNIT-1: An Overview of AI

#### LECTURE-1

Content: The evolution of AI, what is AI.

Lecture Ont comes: Students will be able to know about AI history 1. The evolution of Artificial Intelligence

Before 1950	Greek Mythology-Talos  Talos was a gaint animated bronze warrior  programmed to guard the island of crete  Created by Mephaestus.
1950	Alan Turing Alan Turing Alan Turing published a landmark paper in which he speculated about the possibility of creating machines that think.
1951	Christopher Strackey wrote a checkers program and Dietrich Prinz wrote one for chees.
1956	The birth of AI  John McCarthy first wined the term  "Artificial Intelligence" in 1956 at the  Dartmouth Conference

1959	First AI Laboratory  MIT AI Lab was first setup in 1959.  The research on AI began.
1960	General Motors Robot  First robat was introduced to General Mo- assembly line.
1961	The first chatbet called ELIZA was introduced in 1961.
1997	IBM Deep Blue IBM's Deep Blue beats world champion Garry Kasparov in the game of chees.
2005	DARPA Grand Challenge Stanford Racing Team's autonomous robotic car. Stanley wins the 2005 DARPA Grand Challenge.
2011	IBM watson  IBM's question assuring system, watson defeated the two greatest Jeopardy! Champions, Boad Ruter and Ken Jennings.

# 2. What is Artificial Intelligence:

John McCarthy first coined the term Artificial Intelligence in the year 1956.

John McCarthy defined Artificial Intelligence as the science and engineering of making intelligent machines.

The theory and development of computer systems able to perform tasks normally requiring human intelligence, such as visual perception, speech recognition, decision-making and translation between languages."

#### <u>or</u>

AI is an emerging branch in computer science, which interprets the means and method of making computers think like human beings. Astificial Intelligence is the simulation of human intelligence by machines.

- · The ability to solve problems.
- · The ability to act rationally.
- · The ability to act like humans.

Definition of artificial Intelligence according to eight textbooks are shown in figure. These definitions vary along two main dimensions. Roughly, the ones on top are concerned with thought processes and reasoning, whereas the ones on the top bottom address behaviour. The definitions on the left measures success in terms of fidelity to human performance, whereas the ones on the right measure against an ideal concept of intelligence, which we will call rationality.