Forenoon Session: Date: / /

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Course: TCS ion USN: 4AN18EC042
Topic: understand artificial intelligence. Sem & Section: IV Sem & A Sec
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Report:-

Key paradigms.

* understand the role of basic
  → knowledge representation.
  → problem solving &
  → learning methods.
* Assess the applicability, strength, situations etc.

Artificial intelligence:

→ Is concerned with the design of intelligence an artificial device

Intelligence:-

* Mundane tasks:-
  → planning route, activity.
  → Recognizing people, object.
  → communicating
* Expert tasks:-
* perception * understanding language
* Reasoning * solving problems.
* learning

* weak AI holds that suitably programmed machines can simulate human cognition.

* Applied AI: Aims to produce commercially viable "smart" systems such as, for example, a security system that is able to recognise the faces of people who are permitted to enter a particular building. Applied AI has already enjoyed considerable success.

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* Core areas
  - → Knowledge
  - → Representation
  - → Reasoning
* General algorithms
  - → Search
  - → planning
  - → Constraint
* perception
  - → Vision
  - → Natural language
  - → Robotics.
* Applications
  - → Game playing
  - → AI and education
  - → Distributed agents.
* uncertainity
  - → probabilistic approaches.
* Decision theory
* Reasoning with Symbolic data.

What can AI systems do.

→ Computer vision : face recognition
→ Robotics : autonomous automobile
→ Natural language processing : Simple machine translation.
→ Expert systems : Medical diagnosis in a narrow domain.
→ Spoken language : 1000 word continuous speech.

AI History :-

* philosophers have analysed the nature of knowledge & have explored formal frameworks for developing conclusions.
* Economics developed decision theory.

Background :

RAJDHANI