



Second  
Semester  
2024/2025

Lesson 1  
Artificial  
Intelligence  
Applications

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**PREP 1**

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**ICT**



**Question 7** What is the role of AI in Smart Games, and how does it enhance gaming experiences?

AI plays a significant role in Smart Games by making the gameplay more fun and challenging. Artificial intelligence allows characters in video games to learn from their mistakes, adapt to different strategies, and become more intelligent over time.

**Question 8** How does AI contribute to Smart Shopping, and what are its benefits?

AI contributes to Smart Shopping by analyzing users' previous purchases and suggesting products they might like. This technology helps businesses increase sales while improving customer satisfaction by showing products that match their interests and needs.

**Question 9** What are the three main types of Artificial Intelligence, and how do they differ?

The three main types of Artificial Intelligence are:

1. **Narrow AI:** This type of AI focuses on performing specific tasks, such as recognizing faces, translating languages, or playing chess. It is highly skilled in one area but cannot perform tasks beyond its programming.
2. **General AI:** This AI is more advanced and can perform any task that a human can do, including thinking, problem-solving, and adapting to new situations. However, this level of AI is still under development.
3. **Super AI:** This is the most advanced form of AI, surpassing human intelligence. It can solve complex problems beyond human capabilities and discover new things. Although theoretical, Super AI represents the future of artificial intelligence advancements.







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**Question 1**

**Choose the correct answer from the following options:**

1. What is the main role of artificial intelligence in improving services in life?
  - a) Making life more difficult
  - b) Enhancing services and simplifying tasks
  - c) Eliminating the need for human workers
  - d) Replacing all human intelligence
2. What is the characteristic of Narrow AI?
  - a) It can perform a wide range of tasks like a human
  - b) It focuses on performing a specific task
  - c) It can create new inventions
  - d) It can think and adapt like a human
3. Which of the following is an example of Narrow AI?
  - a) A robot that can perform any human task
  - b) A chess-playing robot that cannot do anything else
  - c) A robot that can think and innovate
  - d) A super-intelligent system that solves human problems
4. What distinguishes General Artificial Intelligence (GAI) from Narrow AI?
  - a) It focuses on only one task
  - b) It is capable of performing any human task
  - c) It cannot solve complex problems
  - d) It does not learn or adapt
5. Which of the following is a characteristic of General Artificial Intelligence (GAI)?
  - a) It can only play chess
  - b) It can think, innovate, and adapt
  - c) It cannot solve problems
  - d) It is the most advanced type of AI
6. What is the most advanced type of artificial intelligence?
  - a) Narrow AI
  - b) General Artificial Intelligence
  - c) Super Artificial Intelligence (SAI)
  - d) Basic Artificial Intelligence
7. What is one of the abilities of Super Artificial Intelligence (SAI)?
  - a) Performing only one specific task
  - b) Thinking and solving complex problems beyond human capabilities
  - c) Only translating languages
  - d) Playing chess but not learning anything new
8. Which of the following best describes artificial intelligence ?
  - a) A single technology with one function
  - b) A diverse field with different types and capabilities
  - c) A simple system that only translates languages
  - d) A technology that cannot learn or adapt
9. Which of the following statements is TRUE about Narrow AI?
  - a) It can perform a variety of tasks like a human
  - b) It can only perform specific tasks, like recognizing faces or translating languages







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- c) It is more advanced than General AI  
d) It can adapt to any situation like humans
10. Which type of AI is capable of performing any task a human can do?
    - a) Narrow AI
    - b) General AI (GAI)
    - c) Super AI (SAI)
    - d) None of the above
  11. What is the best description of Super Artificial Intelligence (SAI)?
    - a) It is less advanced than General AI
    - b) It can only perform basic tasks
    - c) It is more intelligent than humans and can solve complex problems
    - d) It is limited to simple decision-making
  12. Which of the following is NOT an example of Narrow AI?
    - a) A robot that plays chess but cannot cook
    - b) A translation software that converts languages
    - c) A robot that thinks, innovates, and adapts
    - d) A facial recognition system
  13. What is a personal assistant like Siri or Alexa used for?
    - a) To play video games
    - b) To drive cars automatically
    - c) To understand and perform user commands
    - d) To diagnose diseases
  14. How does artificial intelligence make video games more fun and challenging?
    - a) By making all characters play randomly
    - b) By allowing characters to learn from their mistakes and become smarter
    - c) By removing all difficult levels from the game
    - d) By letting players skip levels automatically
  15. How does artificial intelligence assist doctors?
    - a) By performing surgeries instead of doctors
    - b) By diagnosing and treating diseases faster and more accurately
    - c) By replacing doctors completely
    - d) By writing medical prescriptions without human supervision
  16. What is the role of artificial intelligence in translation?
    - a) It translates words and sentences instantly
    - b) It teaches people new languages over time
    - c) It only translates common phrases
    - d) It replaces human translators completely
  17. How does artificial intelligence improve online shopping experiences?
    - a) By delivering products instantly
    - b) By offering product suggestions based on previous purchasing behavior
    - c) By making all products free
    - d) By allowing users to chat with sellers directly
  18. Which of the following is an example of a personal assistant that uses artificial intelligence?
    - a) A digital doctor
    - b) A smart car
    - c) Siri or Alexa
    - d) A video game character







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19. Which of the following statements is TRUE about AI in video games?
  - a) AI makes games more fun and challenging
  - b) AI removes all difficulties from the game
  - c) AI prevents characters from learning
20. What is the purpose of Machine Learning?
  - a) To make computers slower in learning
  - b) To help AI learn new things from experience and mistakes
  - c) To replace human intelligence completely
  - d) To program AI without any data
21. Which example best describes Machine Learning?
  - a) AI learns to recognize cats by seeing many pictures of cats
  - b) AI directly knows everything without learning
  - c) AI translates languages instantly
  - d) AI performs physical tasks like cleaning
22. What is the function of Natural Language Processing?
  - a) Understanding human languages and answering questions
  - b) Controlling robots to perform tasks
  - c) Learning from mistakes like riding a bike
  - d) Making decisions like an expert doctor
23. How is Natural Language Processing similar to a translator?
  - a) It translates languages into numbers
  - b) It understands and interprets spoken and written language
  - c) It converts text into robotic commands
  - d) It recognizes faces in a picture
24. What is the primary function of Computer Vision?
  - a) Helping AI understand human speech
  - b) Allowing AI to see and recognize objects in images
  - c) Teaching AI how to make decisions
  - d) Enabling robots to perform surgeries
25. Which of the following is an example of Computer Vision?
  - a) Recognizing a face in a crowded picture
  - b) Understanding spoken language
  - c) Learning how to ride a bike
  - d) Diagnosing diseases like an expert doctor
26. What can robotics help with?
  - a) Performing complex and precise surgery
  - b) Only translating languages
  - c) Understanding human emotions
  - d) Learning like a human brain
27. What do expert systems do?
  - a) Solve complex problems and make difficult decisions
  - b) Help AI recognize images
  - c) Enable AI to learn from mistakes
  - d) Control robots to perform tasks
28. Which example best represents expert systems?
  - a) An AI that can diagnose diseases like an intelligent doctor
  - b) A robot that cleans houses







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- c) A language translation software  
d) A self-driving car
29. What is the purpose of Deep Learning?  
a) Enabling AI to learn complex tasks like humans  
b) Helping AI clean houses  
c) Teaching AI only simple tasks  
d) Allowing AI to work without learning
30. What does Deep Learning mainly rely on?  
a) Neural networks  
b) Physical robots  
c) Human supervision  
d) Simple programming
31. How is Deep Learning similar to human learning?  
a) It allows AI to learn quickly and perform complex tasks  
b) It helps AI only follow pre-programmed commands  
c) It limits AI to simple actions  
d) It only works with spoken language
32. Which AI field is responsible for AI learning from mistakes, similar to learning how to ride a bike?  
a) Machine Learning  
b) Computer Vision  
c) Expert Systems  
d) Robotics
33. Which AI field allows AI to "see" and identify objects in pictures?  
a) Computer Vision  
b) Natural Language Processing  
c) Expert Systems  
d) Deep Learning
34. Which AI field helps robots perform tasks like cleaning and surgery?  
a) Robotics  
b) Machine Learning  
c) Deep Learning  
d) Expert Systems
35. Which AI field allows AI to make complex decisions, similar to an intelligent doctor?  
a) Expert Systems  
b) Computer Vision  
c) Robotics  
d) Deep Learning
36. Which AI technology allows computers to understand and interpret human language?  
a) Natural Language Processing  
b) Computer Vision  
c) Machine Learning  
d) Robotics
37. Which AI field helps a system learn to recognize cats by seeing many cat pictures?  
a) Machine Learning  
b) Robotics





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- c) Expert Systems
- d) Deep Learning

38. Which AI field is most similar to a human brain in its ability to learn complex tasks?

- a) Deep Learning
- b) Computer Vision
- c) Robotics
- d) Expert Systems

39. Artificial intelligence is only used in the video game industry.

- A) (False)
- B) (true)

40. Artificial intelligence can help doctors diagnose diseases

- A) (False)
- B) (true)

41. Self-driving cars depend entirely on artificial intelligence.

- A) (False)
- B) (true)

42. Artificial intelligence can learn new things slowly.

- A) (False)
- B) (true)

43. Artificial intelligence is a science of computer science.

- A) (False)
- B) (true)

44. For artificial intelligence to become intelligent, it needs small amounts of information.

- A) (False)
- B) (true)

45. Artificial intelligence is only one type.

- A) (False)
- B) (true)

46. Narrow artificial intelligence can perform any task that a human can perform.

- A) (False)
- B) (true)

47. General artificial intelligence is more advanced.

- A) (False)
- B) (true)

48. General artificial intelligence focuses on performing a specific task.

- A) (False)
- B) (true)

49. Super artificial intelligence can solve specific problems.

- A) (False)
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50. Smart Games are used to make playing games more fun.

A) (False)                      B) (true)

51. Instant Translator is used to facilitate communication between people.

A) (False)                      B) (true)

52. Smart Shopping gives you suggestions for products you might like.

A) (False)                      B) (true)

53. Robots are very good at doing a lot of things with great accuracy.

A) (False)                      B) (true)

**Question 2** What is Machine Learning, and how does it help artificial intelligence improve?

**Question 3** How does Natural Language Processing (NLP) enable AI to interact with humans?

**Question 4** What is Computer Vision, and how does it work?

**Question 5** What are the main functions of robotics, and how do robots benefit humans?

**Question 6** What is Deep Learning, and how does it differ from Machine Learning?





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  - a) Making life more difficult
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- c) It is more advanced than General AI  
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21. Which example best describes Machine Learning?

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b) Controlling robots to perform tasks

c) Learning from mistakes like riding a bike

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**b) Allowing AI to see and recognize objects in images**

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d) Learning like a human brain

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- c) A language translation software  
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c) Expert Systems  
d) Robotics
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b) Natural Language Processing  
c) Expert Systems  
d) Deep Learning
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a) **Robotics**  
b) Machine Learning  
c) Deep Learning  
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36. Which AI technology allows computers to understand and interpret human language?  
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c) Machine Learning  
d) Robotics
37. Which AI field helps a system learn to recognize cats by seeing many cat pictures?  
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- c) Expert Systems
- d) Deep Learning

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- a) Deep Learning**
- b) Computer Vision
- c) Robotics
- d) Expert Systems

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49. Super artificial intelligence can solve specific problems.

- A) (False)**
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53. Robots are very good at doing a lot of things with great accuracy.

A) (False)                      **B) (true)**

**Question 2** What is Machine Learning, and how does it help artificial intelligence improve?

Machine Learning is a field of artificial intelligence that allows AI to learn from experience and mistakes.

**Question 3** How does Natural Language Processing (NLP) enable AI to interact with humans?

Natural Language Processing (NLP) allows artificial intelligence to understand and interpret human languages, both written and spoken. It enables AI to answer questions, translate different languages, and even have conversations with users, just like a human friend.

**Question 4** What is Computer Vision, and how does it work?

Computer Vision is a field of artificial intelligence that enables AI to "see" and analyze images or videos. It allows AI to recognize objects, identify faces in crowded pictures, and distinguish between different animals.

**Question 5** What are the main functions of robotics, and how do robots benefit humans?

Robotics is a field of artificial intelligence that focuses on creating smart robots capable of performing various tasks with high accuracy. Robots can clean houses, play chess, perform complex surgeries, and work in dangerous environments where humans may not be safe.

**Question 6** What is Deep Learning, and how does it differ from Machine Learning?

Deep Learning is an advanced form of artificial intelligence that enables AI to learn complex tasks similarly to how humans learn. It relies on neural networks that allow AI to process and analyze large amounts of data quickly.

