



# Internet Technologies

IN CLASS `</>`

*Connecting Intelligence*

Institute of Computer  
Engineering Technology

## HTML In Class Assignment : “The World of Robotics ”

### Objective :

In this assignment, you will create a simple web page that explores the complexities of The World of Robotics. You will learn how to structure HTML documents, use CSS for styling, and incorporate images to enhance your content.

### Instructions :

1. **Overview:** You will create a multi-section web page using HTML. The web page should include the following sections:
  - Introduction to Robotics and applications
  - Key Advancements in Industrial Automation
  - Overview of Humanoid Robots and Their Capabilities
  - Key Brain Functions
  - Conclusion
2. **Reference Web Page:** Below are screenshots of an example web page. Use these as a reference for your layout, design, and content.

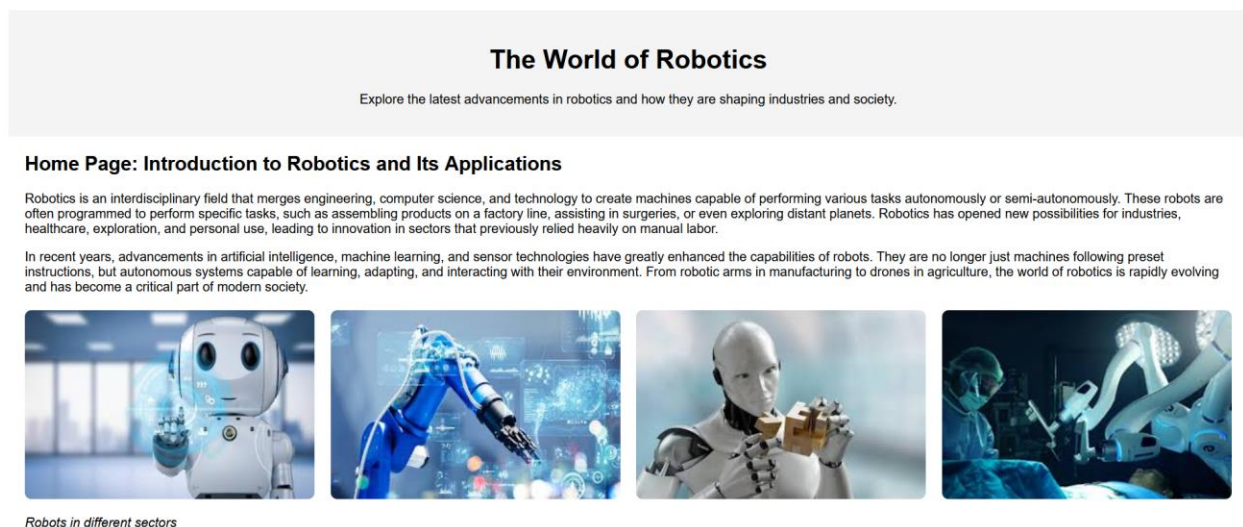


Figure 1

## Robots in Industry: Key Advancements in Industrial Automation

Robots are revolutionizing industrial sectors by automating processes that previously required human labor. The most common types of industrial robots include robotic arms, which are widely used in the automotive, electronics, and consumer goods industries. These machines can perform tasks with precision, speed, and endurance beyond human capabilities, such as welding, painting, assembling, and packaging.

In addition to reducing production time and costs, industrial robots can work in hazardous environments where human safety might be at risk, such as in handling toxic materials or working in extreme temperatures. As the demand for mass production grows, robots are becoming essential for maintaining the pace and quality required in modern manufacturing. The future of industrial robots includes increased collaboration between robots and humans, with robots assisting workers in complex tasks that require high-level decision-making.



Industrial robots at work

Figure 2

## Humanoid Robots: Overview of Humanoid Robots and Their Capabilities

Humanoid robots are robots designed to resemble and mimic human behavior, both in appearance and functionality. These robots are capable of performing tasks traditionally reserved for humans, such as assisting in healthcare, customer service, and education. The defining characteristic of humanoid robots is their ability to interact with humans in a natural and intuitive way, using advanced algorithms for speech recognition, facial expression interpretation, and decision-making.

Some of the most well-known humanoid robots include robots like ASIMO, Sophia, and Atlas, which have been designed for various purposes, from assisting the elderly and disabled to performing dangerous tasks in disaster-stricken areas. Humanoid robots are also becoming an integral part of research and development, where they help scientists better understand human cognition, biomechanics, and social interaction. With continued advancements in artificial intelligence and robotics, humanoid robots are expected to become more autonomous, capable of learning from experience, and performing increasingly complex tasks in the future.



Humanoid robot interacting with people

Figure 3

## Key Points in Robotics

1. Robotics is an interdisciplinary field involving engineering, computer science, and technology.
2. Robots are used in various sectors like healthcare, industry, and space exploration.
3. Industrial robots automate processes and improve productivity and safety in industries.
4. Humanoid robots can perform tasks similar to humans and interact naturally with people.
5. Advances in AI and machine learning are making robots more autonomous and adaptive.

Category	Description	Key Example	Application
Industrial Robots	Robots that automate industrial tasks like welding, assembling, and packaging.	Robotic Arm	Automotive and manufacturing industries.
Humanoid Robots	Robots designed to mimic human behavior and interact with humans.	Sophia	Healthcare, customer service, and research.
Autonomous Robots	Robots capable of performing tasks with little to no human intervention.	Self-Driving Car	Transport, logistics, and military.
Exploratory Robots	Robots used in space exploration and deep-sea research.	Rover	NASA's Mars exploration.

## Conclusion

The world of robotics continues to evolve, with advancements in technology paving the way for robots to take on more complex and varied roles in our daily lives. As these machines become more integrated into society, they hold the potential to enhance our capabilities, improve efficiency, and ultimately change the way we live and work.

For more information on neuroscience, visit [BrainFacts.org](https://www.brainfacts.org).

Figure 4

**Submission :**

- You have to upload
  - 1.The zip file containing all the HTML files
  2. Your deployment link .
  - 3.A screenshot of each page displayed in a browser.

**Note:**

- This is a static page.
- Be creative with the layout, styling, and overall presentation.
- Ensure that your webpage is still accessible and follows good design principles.
- Don't use AI code generators, we can detect your code.
- You can search Google for all your problems.