

Class VI to VIII ARTIFICIAL INTELLIGENCE CURRICULUM (AI)**WEEK - I**

Module Name: Demystify		
Sessions	Topics	Duration
Unit 1 What is AI - How does AI work	<ul style="list-style-type: none"> What is Artificial Intelligence (AI)? How is Artificial Intelligence different from Automation? What are the applications of AI? Where is it used in everyday life? How does AI work? What are the types of AI? 	7 hours
Unit 2 AI & Other Technologies - Domains of AI	<ul style="list-style-type: none"> What are the three domains of AI? What are their applications in everyday life? What is Computer Vision? Where do we use Computer Vision in everyday life? 	8 Hours

Topics & Activities:**1. What is AI?**

- Simple definition (e.g., "AI is when machines can think or learn like humans")
- Show examples: Alexa, Siri, YouTube recommendations
- Activity:** "Guess Who is AI?" quiz with images/videos

2. AI vs Automation

- Explain the difference with stories and games (e.g., automatic fan vs. chatbot)
- Activity:** Match the task to either "Automation" or "AI"

3. Applications of AI in Daily Life

- In education, games, Google Maps, smart home devices
- Activity:** "Spot the AI" – students identify AI in a comic strip

4. How does AI Work? Types of AI

- Teach using the "learning like a human" concept (with examples)
- Brief about types: ANI (Narrow AI), AGI (General), ASI (Super)
- Activity:** Build a simple decision tree (like "Should I wear a jacket?")

Unit 2: AI & Other Technologies – Domains of AI

 Duration: 8 Hours

Topics & Activities:

1. Three Domains of AI

- **Data (Learning), Natural Language (Speaking/Understanding), Vision (Seeing)**
- Everyday examples: Google Translate, chatbots, image recognition
- **Activity:** Group project – Each group explains one domain using skit or poster

2. What is Computer Vision?

- Explain how computers “see” images
- Real-life examples: Face unlock, self-driving cars
- **Activity:** "Emoji Vision" – students draw how they think a computer sees a face

3. Where is Computer Vision used?

- Security cameras, social media filters, Google Lens
- **Activity:** Use a basic app (like Teachable Machine by Google) to train computer to recognize objects

WEEK - II

Module Name: Demystify		
TABLE OF CONTENTS		
Sessions	Topics	Duration
AI & Other Technologies Domains of AI	<ul style="list-style-type: none"> • Navigating AI Domains and Emerging Frontiers • Natural Language Processing • Applications of Natural Language Processing • Statistical data • Applications of Statistical Data 	8 hrs
Artificial Intelligence: Exploring Innovations and Societal Sustainability	<ul style="list-style-type: none"> • Sustainability • Importance of sustainability for society • Sustainable Development Goals (SDGs) • System thinking and System maps • Purpose of System maps 	7 hrs

**Unit 1: AI & Other Technologies – Domains of AI****Duration: 8 Hours****Topics & Activities:****1. Three Domains of AI**

- Data (Learning), Natural Language (Speaking/Understanding), Vision (Seeing)
- Examples: Google Translate, chatbots, image recognition
- **Activity:** Group project – Each group explains one domain using skit or poster

2. What is Computer Vision?

- Explain how computers “see” images
- Examples: Face unlock, self-driving cars
- **Activity:** "Emoji Vision" – students draw how they think a computer sees a face

3. Where is Computer Vision used?

- Security cameras, social media filters, Google Lens

- **Activity:** Use Teachable Machine (by Google) to train a computer to recognize objects

4. Navigating AI Domains and Emerging Frontiers

- Explore cutting-edge AI trends (like robotics, generative AI, ethical AI)
- **Activity:** Show-and-tell with short clips or news articles

5. Natural Language Processing (NLP)

- Basics of NLP (chatbots, voice assistants)
- **Activity:** Chatbot interaction game or story-telling with AI

6. Applications of NLP

- Translation apps, email filters, smart replies
- **Activity:** Translate simple sentences using AI tools

7. Statistical Data in AI

- Introduction to how AI uses numbers to learn
- **Activity:** Students collect favorite fruit stats and draw bar graphs

8. Applications of Statistical Data

- Surveys, AI predictions (weather, games)
- **Activity:** Class mini-survey and discussion

Unit 2: Artificial Intelligence - Exploring Innovations and Societal Sustainability

Duration: 7 Hours

Topics & Activities:

1. Sustainability and AI

- What is sustainability and why it matters
- How AI helps in clean energy, farming, and climate monitoring
- **Activity:** Green tech storybook or poster

2. Importance of Sustainability for Society

- Link between environment, people, and innovation
- **Activity:** Create a "Sustainable Village" model in groups

3. Sustainable Development Goals (SDGs)

- Explore UN goals like clean water, quality education, climate action

- **Activity:** Match AI applications to SDG cards

4. System Thinking and System Maps

- Explain how parts of a system (like traffic or school) are connected
- **Activity:** Draw a system map (e.g., lunch system at school)

5. Purpose of System Maps

- Help visualize problems and find AI solutions
- **Activity:** Group discussion on AI ideas to solve real problems



WEEK III

TABLE OF CONTENTS		
Sessions	Topics	Duration
Introduction to AI Project Cycle & AI Ethics	<ul style="list-style-type: none"> What is AI project cycle? What are the different stages of AI project cycle? What is the importance of each stage? What is ethics? What is AI ethics? 	8 hrs
Project 0: Presentation	<ul style="list-style-type: none"> How to map an AI solution to the three domains of AI? How to map the AI use case to the different stages of the AI project cycle? 	7 hrs

Unit 4: Introduction to AI Project Cycle & AI Ethics**1. What is AI Project Cycle?**

- Phases: Problem Scoping, Data Acquisition, Data Exploration, Modeling, Evaluation
- Activity:** Role-play each phase of the cycle

2. Importance of Each Stage

- Why each phase matters for successful AI projects
- Activity:** Break down a real-world AI example into stages

3. Ethics in AI

- What is ethics? What is AI ethics?
- Real examples of ethical dilemmas (e.g., facial recognition, bias)
- Activity:** Debate or scenario-based group discussion

Unit 5: Project 0 – AI Presentation & Mapping**Duration: 7 Hours****Topics & Activities:****1. Mapping AI Solution to AI Domains**

- Understand how one use case connects to data, NLP, or vision
- Activity:** Use-case worksheet and mapping exercise

2. Mapping Use Case to AI Project Cycle

- Trace how a student-chosen problem goes through the full cycle
- Activity:** Presentation preparation and peer feedback session.