



School: ..... Campus: .....

Academic Year: ..... Subject Name: ..... Subject Code: .....

Semester: ..... Program: ..... Branch: ..... Specialization: .....

Date: .....

## Applied and Action Learning

(Learning by Doing and Discovery)

**Name of the Experiment : Future Now – AI + Web3 Research Presentations**

### Objective/Aim:

To explore and present research on the intersection of **Artificial Intelligence (AI)** and **Web3 technologies**, focusing on how decentralized systems combine with intelligent automation to create next-generation digital ecosystems.

### Apparatus/Software Used

1. Laptop / PC
2. Web Browser (Brave / Chrome)
3. Internet Access
4. Research sources (whitepapers, blogs, GitHub repositories, AI tools)
5. Presentation software (PowerPoint / Google Slide)

### Theory/Concept:

Web3 introduces decentralization, trustless systems, self-sovereign identity, tokenization, and blockchain-driven applications.

#### AI provides intelligence through:

- ☐ Machine learning
- ☐ Automation
- ☐ Decision-making models
- ☐ Natural language processing

#### AI + Web3 Synergy includes:

##### Smart contract automation via AI

- ☐ NFT recommendation systems
- ☐ AI-generated digital assets stored on IPFS
- ☐ Decentralized autonomous organizations (DAOs) enhanced by AI
- ☐ Secure data ownership with decentralized training (federated learning)
- ☐ AI agents interacting with smart contracts

This combined ecosystem creates systems that are transparent, trustless, and intelligent—enabling future applications in finance, identity, supply chain, gaming, and governance.

## Procedure:

1. Select one topic from the **AI + Web3 domain** (examples: AI-powered smart contracts, decentralized AI training, AI agents on blockchain, AI + NFTs).
2. Open your web browser and gather information using trusted resources (official docs, GitHub, research papers, blogs).
3. Identify *at least three* real-world applications or platforms using the technology.
4. Prepare a **short research document** summarizing:
5. The problem
6. The AI + Web3 solution
7. How the technology works
8. Practical use cases
9. Create a **presentation** (5–8 slides) including:
  - ☐ Title & Introduction
  - ☐ Problem statement
  - ☐ Working concept
  - ☐ Use cases
  - ☐ Advantages & limitations
  - ☐ Conclusion



## Observation

Observation Point	Notes
Topic selected	AI-Powered Smart Contracts & Decentralized AI on Web3
Sources used	Ethereum Docs, OpenAI Research Blog, Chainlink Automation Docs, IPFS Docs, Medium Web3 Articles
AI model / Web3 protocol studied	GPT-based AI models, Ethereum Smart Contracts, Chainlink Oracles, IPFS for decentralized storage
Real-world use cases identified	AI-assisted contract automation, AI-generated NFTs stored on IPFS, decentralized autonomous AI agents, fraud detection in DeFi
Challenges observed	High computation cost for on-chain AI, data privacy issues, limited storage on blockchain, need for reliable off-chain oracles, model security concerns

## ASSESSMENT

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/ Practical Simulation/ Programming	10		
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
<b>Total</b>	<b>50</b>		

***Signature of the Faculty:***

***Signature of the Student:***

***Name :***