Centurion University
Shaping Lives... Empowering Communities...

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 Experiement : Tokenomics 101 – Analyzing Crypto Economics

Objective/Aim:

To analyze the design of a cryptocurrency's economic model including token supply, inflation, and utility.

Apparatus/Software Used:

- Laptop
- MetaMask
- Vs code
- **Etherscan** → For Ethereum-based tokens (ERC-20, ERC-721)
- CoinMarketCap

Theory/Concept:

What Is Tokenomics?

Tokenomics = Token + Economics

It refers to the **economic system behind a cryptocurrency or token**, describing how it is created, distributed, and used within its ecosystem.

It's like the **economic policy** of a crypto project — just like a government controls money supply, interest rates, and inflation, a blockchain project uses **tokenomics** to control:

- Who gets the tokens
- How tokens enter or leave circulation
- What gives them value
- How they influence user behavior

Token Distribution Mechanism

initially distribution among participants.

Examples:

- **Pre-mine / ICO / IDO** – Distributed to early investors
- **Airdrops** – Free tokens to promote adoption
- **Mining / Staking rewards** – Earned through network participation
- **Team & Treasury allocations** – Reserved for project founders or future use

Procedure:

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1. Select a Crypto Example (e.g., Ethereum).
2. Analyze Key Parameters:
   - Total Supply: Unlimited (post-EIP-1559, net deflationary)
   - Utility: Gas fees, staking, governance
   - Inflation Rate: ~0.3% (depending on burn)
3. Study Distribution:
   - Validator rewards, developer funds, user transactions.
4. Create Table for Comparison with Another Token (e.g., Bitcoin).

Observation Table:

Token	Total Supply	Inflation Rate	Utility	Consensus	Notable Feature
Bitcoin	21M fixed	0% (after 2140)	Store of Value	PoW	Limited supply
Ethereum	Unlimited	~0.3%	Gas & Staking	PoS	Deflationary after EIP-1559

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		
Total	**50**		

Signature of the Student:
Name :
Regn.No.

Signature of the Faculty: