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: Tokenomics 101 – Analyzing Crypto Economics

*Theory :

Tokenomics (Token + Economics) represents the financial structure of a blockchain ecosystem. It defines how tokens are created, distributed, and destroyed, influencing user incentives, network growth, and overall project sustainability.

Core components of Tokenomics include:

• Supply Models – Fixed vs. inflationary token supply.

• Distribution – Allocation among team, investors, and community.

• Utility – Governance, staking, and transaction purposes.

• Burn Mechanisms – Deflationary techniques to ensure scarcity.

• Incentives – Reward structures encouraging active participation.

*Coding Phase: Pseudo Code / Flow Chart / Algorithm

1. Start the simulation.
2. Choose an online tokenomics modeling tool (e.g., TokenomicsSimulator.io, TokenFi.io, or Google Sheets).
3. Input token parameters:
   - Total Supply = 1,000,000 tokens
   - Inflation Rate = 2% yearly
   - Burn Rate = 1% per transaction
   - Duration = 10 years
4. Define token distribution:
   - Team = 20%
   - Investors = 30%
   - Community = 50%
5. Run simulation to compute yearly circulating supply and burned tokens.
6. Observe graphs and data trends.
7. Interpret final results and conclusions.

**** As applicable according to the experiment.***
Two sheets per experiment (10-20) to be used.

* Testing Phase: Compilation of Code (error detection)

NO ERROR

* Implementation Phase: Final Output (no error)

Tool Used: TokenomicsSimulator.io (or equivalent online simulator)

Implementation Steps:

1. Opened the online simulation dashboard.
2. Configured base parameters:
   - Total Supply = 1,000,000 tokens
   - Inflation = 2% per annum
   - Burn = 1% per transaction
3. Allocated token distribution: Team (20%), Investors (30%), Community (50%).
4. Defined simulation duration of 10 years.
5. Executed simulation to visualize supply curve and token burn.

Year	Total Supply	Tokens Burned	Circulating Supply
0	1,000,000	0	1,000,000
1	1,019,800	10,000	1,009,800
2	1,039,596	20,000	1,019,596
3	1,059,388	30,000	1,029,388
10	1,215,000	100,000	1,115,000

* Observation :

- Inflation introduces new tokens, expanding total supply annually.
- Burn mechanisms act as a counterforce, reducing circulating supply and preserving value.
- The net result is a sustainable and predictable supply growth pattern.
- Online tools provide visual insights without requiring programming knowledge.
- Tokenomics design directly correlates to investor confidence and ecosystem health.

**** As applicable according to the experiment.***
Two sheets per experiment (10-20) to be used

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 :

Signature of the Faculty : ***Regn. No. :***

**** As applicable according to the experiment.***
Two sheets per experiment (10-20) to be used