DAOcademy Whitepaper

1. Introduction

DAOcademy is a fully **decentralized, autonomous teaching platform** built on the Ethereum Virtual Machine (**EVM**) and operating on the **Arbitrum Layer-2**. It eliminates central intermediaries and enables direct peer-to-peer interaction between coaches/mentors and their students. At the same time, the DAO handles all infrastructural tasks so that coaches can focus on their content. These tasks include, among others, smart contract & web development, social media marketing, verification & membership, design, customer support, and community management—**everything is controlled and managed by the DAO**.

DAOcademy utilizes a **deflationary ERC-20 token** (**BURN Token**), which serves as the sole means of payment within the network. Through a unique burning mechanism, the **token supply is continuously reduced**, thereby creating a sustainable economic ecosystem over the long term.

2. Mission & Vision

Our vision is to create a fully **automated, blockchain-based learning ecosystem** in which knowledge flows freely, without central entities controlling payments, course content, or platform policies. DAOcademy ensures that **transparency, immutability, and auditability are guaranteed through on-chain governance mechanisms**.

3. Architecture & Functionality of DAOcademy

3.1. Smart Contract Architecture

Main Components

1. **BURN Token Smart Contract (ERC-20, OpenZeppelin Standard)**

   Deflationary Mechanism: To gain access to courses or communities, users must send tokens to a special burn address. These tokens are permanently removed from circulation, reducing the total supply and creating a natural scarcity effect.

Governance Mechanism: The DAO collectively decides on the management of treasury reserves, the release of team tokens, and the platform’s further development. Through voting, governance members determine how funds are used and which improvements are implemented.

2. Treasury Smart Contract (Gnosis Safe Multi-Signature Wallet)

Multi-Signature Protection (3/5 signatures required): Safeguards the treasury, team tokens, and DEX liquidity.

Automatic Distribution Calculation: Calculates distributions to creators based on the number of tokens burned through the corresponding burn address.

Regular Auditing: Transactions are audited regularly via open-source governance.

3. Burning Mechanism (On-Chain Validation)

Each community receives a **unique burn address** (e.g., 0x1DEAd0000000000000000000000000000000DEAd, 0x2DEAd0000000000000000000000000000000DEAd).

The community’s/coaches/mentors are rewarded with up to 50% of the burned BURN tokens from the DAO treasury, based on how many tokens were sent to that community’s burn address.

The goal is to **automate distributions via Chainlink Keepers**, based on a predefined time interval. Distributions are initiated through a monthly payout decided by governance.

4. DAO Governance Contract (Snapshot & Aragon Integration)

On-chain governance for community decisions.

Voting on key parameters such as treasury utilization and adjustments to the distribution model.

3.2. Payment System & Economic Model

Students register for a course via a “proof-of-burn” application.

Students purchase BURN tokens using USDC on a DEX (via Uniswap on Arbitrum) through a smart contract call button with a SwapAndSend function and immediately burn those BURN tokens by sending them to the burn address of the respective community.

Access prices for individual communities and their private groups are set in USDC, but payment occurs in the background in BURN tokens. As a result, each access purchase automatically increases demand for BURN tokens, which can lead to an increase in the token’s value.

BURN token burns are automatically sent to Discord via a webhook bot. A membership bot certifies the transaction, associates it with the user’s wallet address, and grants the corresponding community-level access. After the booked period expires, the bot automatically revokes access.

Governance determines the monthly distribution of the team reward, which may be up to 30% of the burn rate to ensure a deflationary structure.

Coaches/mentors/communities receive 50% of the tokens that enter their burn wallet during that period from the DAO treasury on a monthly basis.

5% of the monthly burned BURN tokens are funneled from the DAO vault into the staking pool to serve the stBURN (staked BURN) and generate a staking yield. If the actual stBURN yield in a month falls below 0.2%, the DAO treasury compensates the difference so that a minimum of 0.2% monthly yield is always guaranteed.

4. Security & Audit Mechanisms

Gnosis Safe Multi-Sig: Protects treasury funds against unauthorized transactions.**

OpenZeppelin Token Development: Ensures maximum security and compatibility.**

Chainlink Keepers: Automate critical functions.**

Verifiable On-Chain Reports: All distributions are verifiable via Arbiscan.**

5. Tokenomics & Sustainability

DAOcademy uses the **deflationary BURN token** (**ERC-20**) as the central utility token for courses and governance community participation. The tokenomics are based on a **burn-to-earn access** model that ensures the token's scarcity over the long term and can potentially increase its value.

Initial Key elements of the tokenomics:

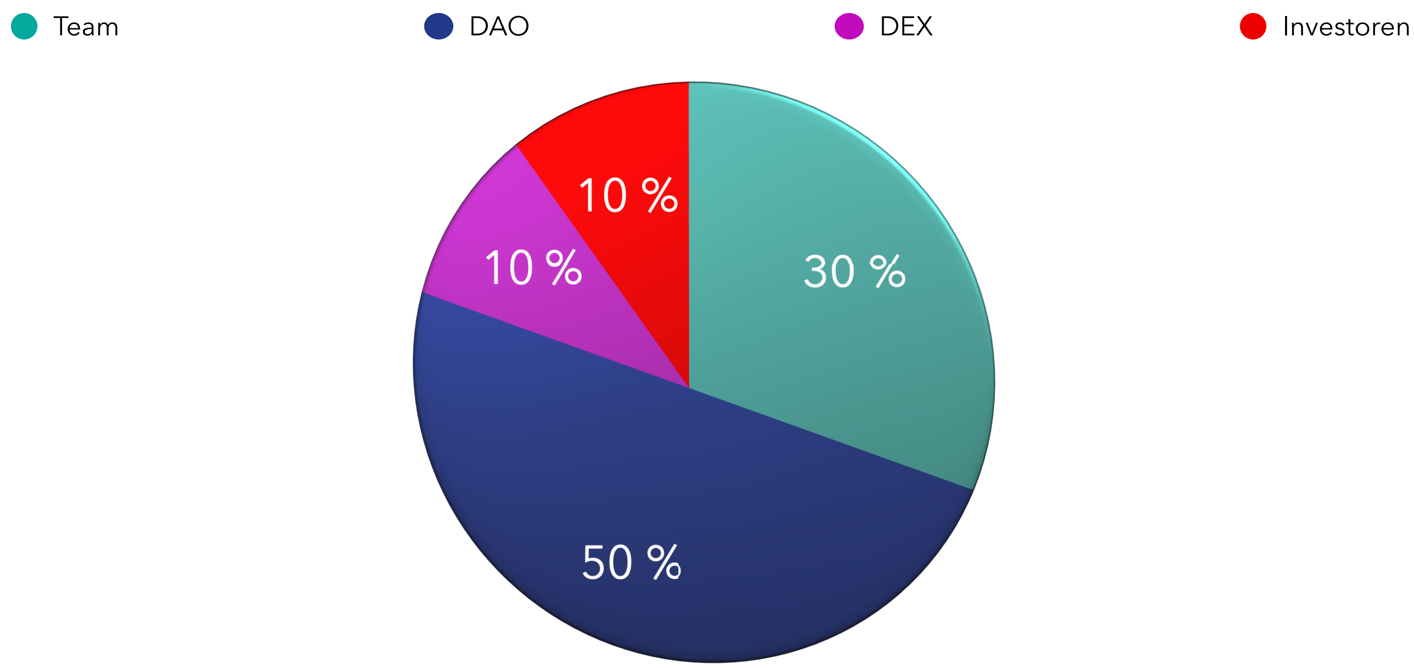
Initial Supply: 1,000,000,000 BURN tokens, with no further minting function.

Community/Investor Allocation: 100,000,000 BURN tokens.

DEX Liquidity Provision: 100,000,000 BURN tokens are provided for liquidity on Uniswap, using the USDC liquidity provided by investors.

Team Allocation: 300,000,000 BURN tokens allocated to team members, unlocked at a rate of 30% of the monthly burn rate.

DAO Treasury: 500,000,000 BURN tokens are managed by the DAO in the treasury.



Governance Control: The DAO manages the treasury, the team's token share, and the DEX liquidity. At launch, this accounts for 90% of the total supply.

Revenue Stream: The only revenue for the DAO comes from DEX trading fees, which can be claimed and transferred to the treasury as needed.

Deflationary Mechanism: Each course access requires burning tokens.

Governance Mechanism: The DAO decides how treasury funds are used.

Long-Term Value Growth: As the total token supply continuously decreases through burning, a natural scarcity emerges, which can stabilize the ecosystem long term and potentially increase the token's value.

Price Appreciation via Token Purchases: Because community members and students must buy BURN tokens on a DEX, each purchase drives up the token price.

Deflationary Catalyst: Continuous token burning reduces available supply, pushing the price higher.

Scaling Effect: As more communities, coaches, and mentors join DAOcademy, more BURN tokens are needed and burned, accelerating price appreciation.

Early Onboarding Incentive: Coaches who join early **benefit from rising token dynamics**.

No Selling Pressure: Since BURN tokens cannot be minted retroactively and are continuously burned through payments, supply remains limited and deflationary. Communities receive 50% of the burned tokens as rewards, so there is no constant selling pressure—natural scarcity stabilizes the ecosystem.

Stable Treasury Despite Distributions: The treasury is designed to hold a majority of the token supply permanently. Only a smaller portion of burned tokens is released from the treasury as community rewards, keeping this proportion constant. The distribution rate can be dynamically adjusted.

The tokenomics design of DAOcademy creates a strong incentive for communities/coaches/mentors, team members, and community members to actively contribute to the platform, but it must be carefully optimized to avoid long-term scalability issues.

6. Benefits of DAOcademy

6.1. For Community/Coaches/Mentors

No Administrative Effort: All organization and infrastructure are handled by the DAO, allowing communities/coaches/mentors to focus solely on their content.

Automated Revenue: Communities/coaches/mentors receive rewards directly via smart contracts, without intermediaries or platform fees, making the entire process efficient and transparent.

High Reward Potential: **Coaches receive their rewards in the deflationary BURN token**, which—**when the platform is used intensively—can exceed the USDC value of the tokens students burned**. Because burned tokens increase the DAO treasury's share and distributions come from that treasury, communities/coaches/mentors benefit more the more the platform is used.

6.2. For Students/Community Members

Cost-Efficient Courses: With direct access to coaches and no intermediaries, traditional platform fees are eliminated, allowing courses to be offered at a lower overall cost.

Blockchain Traceability: All transactions and distributions are publicly accessible and verifiable on the blockchain, ensuring full transparency without a central authority.

Seamless Communication via Discord: Everything is managed through Discord, the leading platform for community management and real-time communication, ensuring a seamless and interactive experience for all participants.

Verified Community/Coach/Mentor Ecosystem: Only pre-vetted, verified communities/coaches/mentors are allowed, ensuring high quality standards and trustworthy content.

Early Token Acquisition Advantage: Students can acquire BURN tokens early to secure courses at a lower price before the token's value potentially rises.

6.3. For the Community

Participation Through Token Holding: Management and decision-making within the DAO occur decentrally through governance and token holders, with token holders actively involved in key decisions via their voting rights.

Deflationary Value Growth: As more tokens are burned and total supply decreases, the deflationary mechanism can lead to long-term value appreciation if demand remains stable or grows.

Active Community Contribution: Community members can actively contribute to the DAO's development by submitting ideas and proposals. Especially dedicated members have the opportunity to take on a team role and directly influence governance.

7. Team & Governance

The DAO seeks dedicated members to support and drive development in various key areas. Open positions include:

DAO Strategy Lead – Development and implementation of the DAO's strategic goals.

Smart Contract & Web Development – Maintenance and optimization of the technical infrastructure.

Social Media Marketing – Management and growth of the social media presence.

Verification & Membership Lead – Verification of transactions and management of member access.

Design – Creation of visual content and brand identity.

Customer Suppor – User support and ensuring a positive experience.

Community & Discord Management – Building and maintaining an active community.

By working in these areas, team members have the opportunity to actively participate in the DAO's development and governance. Team members receive a monthly distribution in BURN tokens from the allocated team portion. The amount of the monthly distribution is determined by governance but is capped at 30% of the monthly burn rate to maintain the deflationary token economy.

The DAO collectively decides how the monthly distribution is allocated percentage-wise among individual team members. Those who contribute the most are rewarded accordingly. Each team member assigns percentage shares to the other members but excludes themselves. This process ensures fair distribution and that rewards correspond to individual contributions.

If a team member fails to fulfill their duties, behaves inappropriately, or if a more dedicated community member can perform the tasks more efficiently and responsibly, governance can vote to remove them. With majority approval, the position will be refilled so that a more motivated member takes over the responsibilities and continues the tasks.

If a task area becomes too extensive for a single team member, another team member can be added to support in that field. However, the primary responsibility for the area remains with the original person represented in governance. Whether the supporting team member also receives a reward is at the discretion of the person responsible for that field. The reward payment is also managed by the responsible person.

8. Compliance & Legal Framework

The DAO is fully decentralized and operates without direct incoming payments. It is governed and managed exclusively by the community and governance, without a central entity controlling or managing funds.

There is no central organization controlling the system—all processes are managed decentrally by the DAO and executed automatically by smart contracts.

All DAO content and data are fully decentralized via IPFS (InterPlanetary File System), ensuring censorship resistance and immutable storage.

A transparent and traceable tax structure ensures that all financial transactions are directly viewable on the blockchain, providing full transparency and auditability.

9. Conclusion

DAOcademy is an innovative, fully automated **Web3 learning platform** that creates a **sustainable ecosystem through decentralized smart contracts, governance mechanisms, and a deflationary token**.

We invite everyone to participate in the educational revolution—whether as a community, coach, mentor, team member, student, or community member—to build the first truly autonomous educational network.