

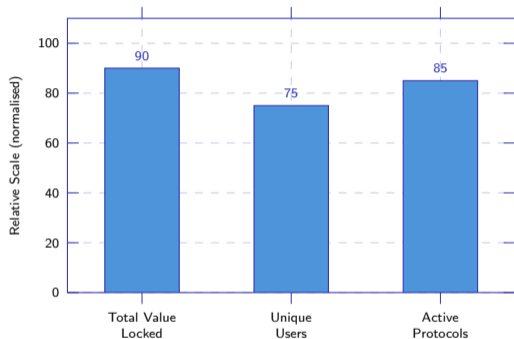
DeFi Fundamentals: Course Preview

INTRO Preview

Prof. Dr. Joerg Osterrieder

University Lecture Series

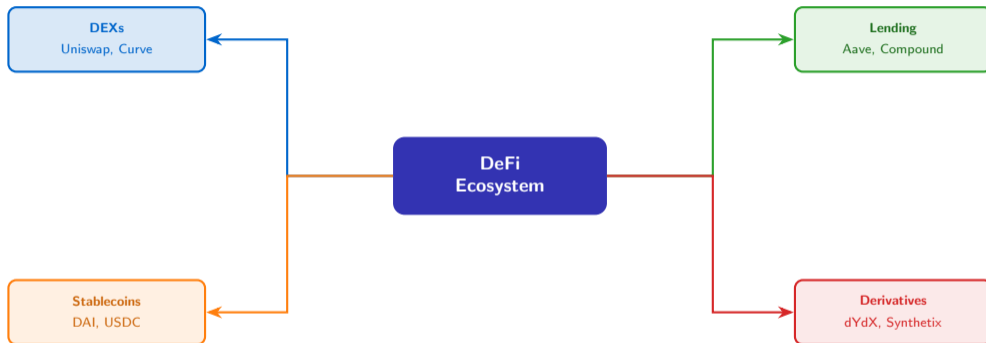
February 23, 2026



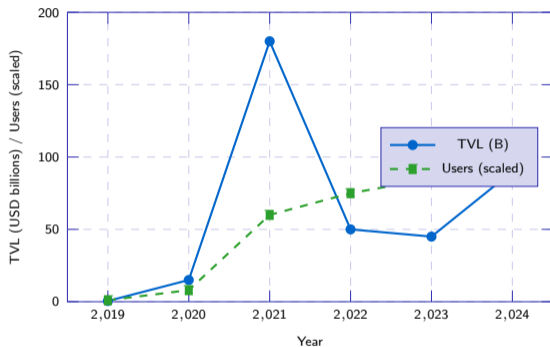
Key Metrics

- ✓ **\$180B+** peak TVL reached
- ✓ **4M+** unique users on-chain
- ✓ **500+** live protocols deployed
- ✓ **24/7** access, no intermediaries

is the fastest-growing sector in blockchain, reshaping global finance.



protocols are composable – they can be combined like building blocks.



Growth Drivers

- ✓ **Yield farming** attracted capital in 2020–21
- ✓ **Stablecoin** adoption fuelled TVL growth
- ✓ **Layer-2** scaling reduced fees
- ✓ **Recovery** underway since 2023

survived the 2022 bear market and continues to grow.



Prerequisites

- ✓ Basic blockchain and Ethereum knowledge
- ✓ Familiarity with ERC-20 tokens

Outcomes

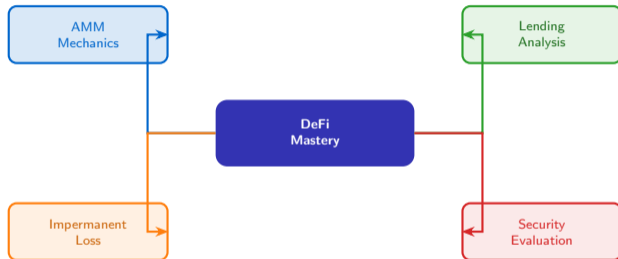
- ✓ Analyse DeFi protocols quantitatively
- ✓ Evaluate risk and return in DeFi strategies

DeFi fundamentals to advanced strategies in 55 frames.

From

Learning Outcomes

- ✓ **AMM mechanics** — constant-product formula and price discovery
- ✓ **Lending risk analysis** — collateral ratios and liquidation cascades
- ✓ **Impermanent loss** — calculate IL for any price change
- ✓ **DeFi security** — evaluate smart-contract and economic attack vectors



By the end you will be able to analyse any DeFi protocol quantitatively.

By