

The title of the course/module	Crypto Currencies - Blockchain Ecosystem				
Person responsible for the module	Prof. Dr. Elmar Steurer; With PTGR AG crypto experts: Dr. Grosse-Ruyken / Agust Arnarsson				
Type of course (compulsory subject / compulsory elective subject / elective subject)	Compulsory elective subject	Module abbreviation	CCBE		
Module scope	3 ECTS	Attendance time	Intermediate course		
			1 week of block teaching 03 June-07 June 2024: 30 units (UE)		
		Online component & self-study	Online lessons Introductory event with 5 units (UE) on Monday 29 April 24 at 10:00 German time Final event with examination, presentation and term paper: 10 units (UE) on 10 July 24 at 10:00 German time Project implementation as self-study, optionally accompanying the block course: 45 units (UE)		
		Total workload	90 h		
Course language	Englisch	Semester	Summer semester 2024		
Year of study	3-8	Requirements	-		
Type of event	Project seminar	Teaching and learning methods	Seminar, project, e-learning, workshops		
Examination	Documentation and final presentation: 100%	Requirements	-		
Maximum number of participants	25	Registration	@HNU		
Recommended optional program units					
Content of the course	The elective course "Crypto Currencies - Blockchain Ecosystem" enables students to acquire key competencies in the following areas:				
	Fundamentals of Blockchain & Ecosystem: Understanding the basic concepts and the ecosystem surrounding blockchain technology. Monday				
	Interoperability & Business Models: Exploring the possibilities of integrating blockchain into existing systems and analyzing the various business models enabled by blockchain. Monday				
	Compliance - Legal Regulations: Examining the legal and regulatory aspects associated with blockchain technology, including compliance with regulations. Tuesday Forensics & Cybercrime: Analyzing forensic methods and challenges in investigating crime in blockchain networks, along with the prevention of cybercrime. Tueday Decentralized Finance (DeFi), DApps & Smart Contracts: Understanding DeFi platforms, the development, and functionality of decentralized applications and smart contracts. Wednesday				
	Cryptocurrencies & Tokenization: A comprehensive examination of cryptocurrencies, their functionality, and the significance of digital asset tokenization. Wednesday				
	Web 3.0, Metaverse, NFTs & GameFi: Exploring developments in Web 3.0, the metaverse, NFTs, and financial opportunities focused on gaming. Thursday NFTs: In-depth exploration of the concept of Non-Fungible Tokens (NFTs), their applications, and impacts on various industries and creative fields. Friday				



	Physical lecture time: 9:30-1715 including group work, 4 teaching units, 4 units group work				
	Monday welcome dinner				
	Wednesday. Barbecue event The elective course follows these steps:				
	 Competency Goal - gaining a holistic overview of the blockchain ecosystem. Observation/Reflection - students observe/reflect on their individual competency acquisition and develop a project topic through group work. Dialogue - students engage in discussions with the instructor and among themselves (via e-learning) regarding their learning progress. Description/Documentation - students describe/document their specific project and the acquired competencies (brief text) + presentation (format chosen individually). Additionally, students are guided by the external coaches from PTGR AG: Dr. Pan 				
	Theo Grosse-Ruyken (CEO) and Ágúst Berg Arnarsson (COO).				
Learning outcomes of the course / module	The students acquire competencies such as:				
	 Fundamentals of Blockchain & Ecosystem: Competency in explaining the basic concepts and functionality of blockchain technology, as well as its surrounding ecosystem. 				
	 Interoperability & Business Models: Ability to investigate and assess integration possibilities of blockchain into existing systems. Competence in analyzing various business models enabled by the implementation of blockchain technologies. Compliance - Legal Regulations: Understanding and knowledge of the legal and regulatory aspects relevant to blockchain technology. Ability to comply with regulations and evaluate their impacts on blockchain-based projects. Forensics & Cybercrime: Competence in preventing cybercrime associated with blockchain technology. Decentralized Finance (DeFi), DApps & Smart Contracts: Understanding the development and functionality of DeFi platforms, decentralized applications, and smart contracts. Cryptocurrencies & Tokenization: Competence in the comprehensive examination of cryptocurrencies, their functionality, and the significance of digital asset tokenization. Web 3.0, Metaverse, NFTs & GameFi: Ability to research and evaluate developments in Web 3.0, the metaverse, NFTs, and financial opportunities focused on gaming. 				
	 NFTs: Competence in the in-depth examination of the concept of Non- Fungible Tokens (NFTs), their applications, and potential impacts on various industries and creative fields. 				
Recommended specialist literature	Will be announced in the respective course.				
Internship	-				
Special features	Minimum number of participants: 5 HNU students The WPF is preferably offered to the international partner of HNU.				
Date	22.02.2024 F	Responsible	Prof. Dr. Elmar Steurer		
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