

Erasmus+ BIPs Blended Intensive Programs

1. Titel: Data Integration and Interoperability
2. Teilnehmer (Studierende, Dozenten, Mitarbeiter): THD students, students from partnering universities, professors from THD and partnering universities, external experts
3. Zielsetzungen und Beschreibung: The BIP Blended Intensive Program aims to help students strengthen their existing knowledge by providing specialized theoretical insights into ensuring health data interoperability. The program focuses on meeting the requirements of modern data standards and prepares students with the skills necessary for the upcoming implementation of the European Health Data Space (EHDS). Learning Objectives: 1. Foundational understanding of data integration 2. HL7 V2, CDA, IPS & International Patient Summary 3. FHIR architecture & SMART on FHIR 4. Introduction to openEHR & implementation 5. Terminologies, mapping & EEHRxF features Format: Blended (Physical & Virtual) Short Training Course
4. Methoden und Ergebnisse: Methods: Lectures and Presentations, E-learning and Online Modules, Workshops, Group Discussions and Collaborative Projects Learning outcomes: By the end of this workshop, participants will be able to understand and apply key concepts and techniques of data integration and interoperability within Digital Health systems. 1. Foundational Understanding of Data Integration 2. Health Level Seven International (HL7) Standards: HL7 V2, CDA, IPS 3. Fast Healthcare Interoperability Resources (FHIR) 4. Introduction to OpenEHR Standard & Implementation 5. Terminology and Mapping 6. European EHR Xchange Format (EEHRxF) and its features
5. Requirements, level: Open to bachelor and master students from Health and Computer Sciences. Special knowledge in programming is not required.
6. Date physical mobility: 4 to 8 May, 2026 (onsite). 6-8 hours per day/ cultural activities
7. Place for physical mobility: DIT-ECRI (Pfarrkirchen)
8. Online session: Preliminary: 20 to 24 April, 2026 (open to discussion)
9. Virtuelle Komponente Beschreibung:

1) Health Level Seven Version 2 (HL7 V2): • Introduction to HL7 V2 • Overview of HL7 standards, history and evolution of HL7 V2 • Message Structure • Message Segments and Data Types • Tools and Resources • Interoperability challenges and solutions 2) European EHR Xchange Format (EEHRxF): • Current eHealth landscape & main EEHRxF features • EHDS adoption, implementation & co-creation approach • Technical content
10. Unterrichtssprache: English
11. Anzahl der Teilnehmer: 60
12. Anzahl ECTS Punkte: 3 ECTS credits
13. Name der Partnerhochschulen 1. <i>HEROES' Universities</i> Other potential partners 2. University of Crete
14. Name/E-Mail Adresse Kontaktperson/Prof. THD: Georgi Chaltikyan / georgi.chaltikyan@th-deg.de / Professor Eugenia Lvova / eugenia.lvova@th-deg.de / Research Assistant International Office bip@th-deg.de
15. Koordinierende Hochschule: THD