問題発見型／解決型学習(FBL/PBL) （社会情報学専攻）
テーマ提案（学生募集）/ Project Proposal

テーマ名称 Project name	ブロックチェイン技術を用いた新しい教育システムのデザイン Designing a New Education System with Blockchain Technologies
実施責任者 Instructors	Toru Ishida: Professor, Department of Social Informatics
実施協力者 Collaborators	Donghui Lin: Assistant Professor, Department of Social Informatics Hiroaki Ogata: Professor, Academic Center for Computing and Media Studies
テーマの背景 Background	A blockchain, is a continuously growing list of records, called blocks, which are linked and secured using cryptography. A blockchain is inherently resistant to modification of the data. This makes blockchains potentially suitable for the sharing a variety of records to ensure traceability without any centralized control, and thus the technology may create a huge impact to current education systems.
実習の概要・実施場所 Overview and location	This FBL/PBL designs a new education system by using blockchain technologies. We select a blockchain system as an infrastructure for designing the new education system both for material sharing and record analysis. Technology oriented students prototype a demonstration system, and science (both natural/social) oriented students create a detailed business model. For example, for an education material sharing, technology oriented students demonstrate how we can share WOOC/Web/Book contents to create slides for a particular class, while science oriented students propose a business model, analyze its value chain, and conduct interviews of stakeholders to confirm their model. The FBL/PBL includes literature surveys, discussions, ideation workshops, demonstrations, interviews, and presentations. See *Schedule* to know the location of the FBL/PBL.
実施言語 Language	Mainly in English
募集人数 / Number of participants	At least 2, at most 10.
応募資格 Intended participants	Graduate students of Kyoto University. If the number of applicants is more than 10, the higher priority will go to students of Dept. Social Informatics, and Kyoto University Design School.
応募方法 How to apply	Send e-mail to ishida@i.kyoto-u.ac.jp and coordinator@ai.soc.i.kyoto-u.ac.jp by October 5th. The notification is due on October 8th.
関連するデザイン理論/手法とその学習方法 Design theories and methods for framing and solving problems	Domain (Informatics) design theory/methods are related to the classes including *Information Society*, *Information System Design* and *Information System Analysis*. Professional knowledge about distributed systems / cryptography is not mandatory. General design theory/methods includes facilitation and ideation methods, which will be introduced in this FBL/PBL. The blockchain related books/articles/papers will be provided during the class.
成績評価および成果の公開方法 Evaluation and publication	Active participation (40%), an intermediated presentation (30%), and a final presentation (30%). The result of the final presentation (poster/slide) will be published at the web site of the Department / Design School, and presented at the ICT Innovation.

実施計画 / Schedule

（テーマ提案時に詳細な内容が未定の場合は、記載不要。「実習の概要」に記載）

コマ Unit	日程 Date	場所 Location	実施内容 Content
1	October 12 Fri	Lounge 4F, Building 7th	*Introduction* (1 unit: 13:30-15:00, October 12).
3	November 9 Fri	Lounge 4F, Building 7th	*Understand Problems in Current Education Systems* Group work (2 units: flexible, 13:00-16:15 November 9 or before) and a meeting with faculty members (1 unit: 16:30-18:30, November 9).
3	November 16 Fri	Lounge 4F, Building 7th	*Applying Blockchain to Education Systems* Group work (2 units: flexible, 13:00-16:15 November 16 or before) and an intermediate presentation by each student (slides) to limited audiences (1 unit: 16:30-18:30, November 16).
3	December 7 Fri	Lounge 4F, Building 7th	*Creating a Demonstration System and Business Model* Group work (2 units: flexible, 13:00-16:15 December 7 or before) and a meeting with faculty members (1 unit: 16:30-18:30, November 30). An invited talk may be arranged
3	December 21 Fri	Lounge 4F, Building 7th	*Creating a Demonstration System and Business Model* Group work (2 units: flexible, 13:00-16:15 December 21 or before) and a meeting with faculty members (1 unit: 16:30-18:30, December 7). An invited talk may be arranged.
2	TBD by Department of Social Informatics	TBD by Department of Social Informatics	*Presentation* A preparation (1 unit: flexible) and an official final group presentation (slides and a poster) open to students / faculty members of Department of Social Informatics (1 unit: to be determined by Department of Social Informatics).