

Syllabus

Big data and fintech

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	Position	Professor			Major	Financial Engineering
	Group	Financial Engineering				

1. Course Description

We will study financial big data and methods of handling these, and study basics of fintech.

2. Teaching Methods

The class will be mainly real time online by using Zoom. We will, however, encourage students to participate in class by letting them make presentations. We will sometimes do computer experiments offline.

3. Evaluation

Class Participation: 10%
Presentations: 50%
Assignments: 20%
Quizzes: 20%

4. TextBooks

5. Lecture Schedule

Week	Lecture contents	Lesson type	Remark
1	Introduction	lecture	
2	Financial big data 1: basic concepts	lecture and presentation	
3	Financial big data 2: tools	lecture and presentations	
4	Financial big data 3: network analysis	lecture and presentations	
5	Financial big data 4: discussions	presentations	
6	Financial big data 5: discussions	preentations	
7	Fintech 1: basic concepts	lecture and presentations	
8	Fintech 2: block chains and applications	lecture and presentations	
9	Tredns in fintech	presentations	
10	Cryptocurrencies and their technologies 1	presentations	
11	Cryptocurrencies and their technologies 2	presentations	
12	Cryptocurrencies and their technologies 3	presentations	
13	Cryptocurrencies and their technologies 4	presentations	
14	Cryptocurrencies and their technologies 5	presentations	
15	Cryptocurrencies and their technologies 6	presentations & experiment	
16	Overview	lecture and presentations	

6. Others

Students are required to have basic knowleldge of statistics, linear algebra and Korean.