Syllabus

빅데이터와핀테크 (Big data and fintech)

Professor	Name	Hyeng Keun Koo	Course	Major	Department	Financial Engineering
	Position	Professor			Major	Financial Engineering
	Department	Financial Engineering				

1. Overview of the Subject

Learn financial big data and how to deal with it, and learn the basics of fintech.

2. Overview of Teaching Method

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. Grading

Class Participation: 10%
Presentations: 40%
Assignments: 30%
Quizzes: 20%

4. Textbooks and References

	Textbook	Author	Publisher	Year
Main	lecture notes and presentation materials			
Reference	Working Technology with Big Data	Jang Dong In	Hanbit Media	2014
Reference	Advances in Big Data Humanities	Aiden, Mi	Sagyejeul	2015

5. Class Plan

Week	Content	Method	Note
1	Introduction/Big Data tools	lecture and presentations	
2	Big data and artificial intelligence	lecture and presentations	
3	Big data and network analysis 1	lecture and presentations	
4	Big data and network analysis 2	lecture and presentations	
5	Big data and network analysis 3	lecture and presentations	
6	Text mining	lecture and presentations	
7	Natural language processing 1	lecture and presentations	
8	Natural language processing 2	lecture and presentations	
9	Fintech: Basic Concepts	lecture and presentations	
10	Trends in Fintech	lecture and presentations	
11	Blockchain 1	lecture and presentations	
12	Blockchain 2	lecture and presentations	
13	Blockchain 3	lecture and presentations	
14	Blockchain 4	lecture and presentations	
15	Blockchain 5	presentations & experiment	
16	Overview	lecture and presentations	

6. Others

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