

Syllabus

Seminar in Numerical Analysis I

Course Name	Course type (credit/hours)	전선(3/3)			Course code	
	Target students Division/major/grade	/			Opening semester	2018년 1학기
	Class time and classroom					
Reference to this course	Related basic courses					
	Recommended concurrent courses					
	Related advanced courses					
Instructor	Name (title/division)					
	Office Room Number		Office phone Number	2563	e-mail	jaehunjung@ajou.ac.kr
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

This course will introduce the theory and application of high order numerical methods. Particularly the course will investigate possible applications of high order numerical methods in the area of data science.

2. Course Objectives

3. Class types and activities

4. Teaching Method

The class will be composed of lecture, presentation and independent study. The first part of every class will start with the lecture focusing on the theory of high order numerical methods and the second part will focus on the implementation of theory using programming.

5. Knowledge and ability required for taking this course

6. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam			
final exam			
quiz			
presentation			
discussion			
homework			
etc			

There will be weekly homework and students are required to conduct their homework properly. Students are also asked to conduct their term project. The final grade will be made based on weekly homework, final project and class participation.

7. Textbooks

Main/Sub	Title	Writer	Publisher	Publication year
No Data				

8. Lecture Schedule

Week	Lecture contents	Lesson type	Remark
1	Theory of high order numerical methods		
2	Application of high order numerical methods		
3	High order numerical methods and topological data analysis		

9. Others