



Health Industry & Biolaw: Medical AI

Course Title	Health Industry & Biolaw: Medical AI	Course No.	L21143
Department/ Major	School of Law	Credit	3
Class Time/ Classroom			
Instructor	Name: Prof. Won Bok Lee, MD, LLM, SJD	Department: School of Law	
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Office Hours/ Office Location	By appointment only through http://professor-lee.ycb.me		

I . Course Overview

1. Course Description

This course is designed for both law and non-law students. **Non-law students are encouraged to register.**

This is an introductory course to the legal issues that arise from developing and deploying artificial intelligence in healthcare. Healthcare is one of the sectors expected to experience fundamental changes by utilizing artificial intelligence. With a blend of theoretical and practical approaches, the course will examine the accompanying ethical and legal implications and how society should address them.

2. Prerequisites

None

3. Course Format

Lecture	Discussion/Presentation	Experiment/Practicum	Field Study	Other
50%	30%			20%



4. Course Objectives

- To provide an insightful overview of AI applications in healthcare, emphasizing their transformative potential and inherent challenges.
- To analyze the legal frameworks and regulatory environments governing medical AI in Korea, the EU and the United States, with comparative insights.
- To equip students with the ability to analyze and navigate the legal nuances impacting the development and implementation of medical AI.
- To foster an appreciation for the balance between innovation in medical AI and the protection of individual rights and societal values.

5. Evaluation System

Term Paper	Final Exam	Quizzes	Presentation / Participation	Attendance
60%			30%	10%

II. Course Materials and Additional Readings

1. Course Materials

Reading assignments to be distributed through the courseware website (Cyber Campus)

2. Supplementary Materials

3. Optional Additional Readings

III. Course Policies

* For laboratory courses, all students are required to complete lab safety training.

* Attendance of less than 2/3 of all classes will result in failure.



IV. Course Schedule

Week	Date	Topics, Class Materials & Assignments	
1		Topics & Class Format	Course introduction
		Materials & Assignments	
2		Topics & Class Format	How is AI being used in healthcare?
		Materials & Assignments	
3		Topics & Class Format	Can AI be trained on medical data without patients' consent?
		Materials & Assignments	
4		Topics & Class Format	Can AI be trained on copyrighted materials?
		Materials & Assignments	
5		Topics & Class Format	What is bias? How does law address bias in general?
		Materials & Assignments	
6		Topics & Class Format	How should algorithmic bias in healthcare be regulated?
		Materials & Assignments	Movie screening: Coded Biase (Netflix)
7		Topics & Class Format	Should explainability be required of medical AI?
		Materials & Assignments	
8		Topics & Class Format	Who should be held responsible for inaccurate analysis by AI?
		Materials & Assignments	
9		Topics & Class Format	How are ethics and law different? What does ethical guideline mean?
		Materials & Assignments	
10		Topics & Class Format	Why aren't smart speakers allowed to make a diagnosis?
		Materials & Assignments	
11		Topics & Class Format	How should dual-purpose foundation model be regulated?
		Materials & Assignments	
12		Topics & Class Format	What are major jurisdictions doing to regulate medical AI?
		Materials & Assignments	
13		Topics & Class Format	What are the emerging issues in medical AI?
		Materials & Assignments	
14		Topics & Class Format	Guest speaker: [to be announced]
		Materials & Assignments	
15		Topics & Class Format	Term Paper Workshop
		Materials & Assignments	



V. Special Accommodations

According to the University Regulation #57, students with disabilities can request special accommodation related to attendance, lectures, assignments, and/or tests by contacting the course professor at the beginning of semester. Based on the nature of the students' requests, students can receive support for such accommodations from the course professor and/or from the Support Center for Students with Disabilities (SCSD).

* The syllabus is subject to change. Please refer to the courseware website for the latest changes.