

# LegalTech analysis in practice

Fall Semester, Academic Year 2023/2024

<b>Course leader:</b>	Zsolt György Balogh, assoc. professor Miklós Zorkóczy, lecturer
<b>Department:</b>	Infocommunication
<b>Office hours:</b>	Thu. 8.30-10.00 A.M.
<b>Availability:</b>	
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<b>Course type:</b>	Introductory elective, BA / BSc
<b>Prerequisites:</b>	---
<b>Credits:</b>	6
<b>Number of hours per semester</b>	28 hours per semester
<b>Time of lecture:</b>	14
<b>seminar:</b>	14

## Aims and objectives and description of the course:

The aim of the course is to educate the students in the field of

- legal theory,
- legal reasoning
- legal analysis
- supported by legal data retrieval services,
- and knowledge-based systems.

The lecturing and the practice is destined to enable them to use this knowledge by solving practical problems in groupwork. They can solve complex legal and technological problems in practice, while being able to handle theoretical concepts at a skill level.

This course provides complementary knowledge to all undergraduate and masters courses in law. In addition, it is connected to IT-related training programs by providing practical research and development topics.

## Course description

The course is a combination of lectures, seminars and independent development projects.

It provides the participants with the knowledge of fundamental concepts of

- legal theory and
- legal hermeneutics.

Students will obtain general knowledge in the technologies of legal data management, along with skills in use and understanding of intelligent tools and services of legal research and legal reasoning.

## **A) knowledge**

The student will...

- know the basic concepts and institutions related to the legal system. Understand the basic hermeneutical problems affecting legal decision-making.

- gather theoretical and pragmatic attainments in the methodology for interpreting legal documents
- get familiar with the technological devices and services for legal knowledge management.

## B) Skills

The student will be able...

- to apply in the course of her/his work the principles and doctrines governing the functions of the legal system
- understand, independently process, and analyze legal texts,
- identify the problem under examination
- separate essential from irrelevant elements
- to choose the optimal method and tools to solve the problem.

## C) Attitude

The student is about to be...

- committed to the legal culture and institutions that affect economy
- open to accept the compromise reached.
- ready to collaborate with co-professionals to resolve disputes.
- open to the use of innovative tools and solutions.
- motivated to seek professional compromises with team members.

## D) Responsibility

The student will...

- take responsibility for the lawful operation of immediate and wider environment
- seek to find a comprehensive, systemic solution to the legal problems, and to find the optimum solution.

## Methodology to be used:

Besides the theoretical lectures, case studies, classroom discussions, group assignments will be provided.

## Detailed class schedule, 1<sup>st</sup> – 15<sup>th</sup> week:

<u>Date of class</u>	<u>Topics to be discussed, readings required for the class</u>	<u>Preparation before the class</u>
week 1	Introduction to basic legal concepts - branches of law, legal hierarchy, characteristics of legal reasoning and thinking, legal logic	
week 2	The data economy: data protection and IT law. Data science and cyber security	
week 3	Introduction to the concept of LegalTech - history of its development, concept, history of technology, technology used and support for legal activity	
week 4	Artificial Intelligence- legal background, regulation, liability, ethics and societal changes, ANI (machine learning) database analytics, text recognition, face recognition, voice recognition	
week 5	DLP - history of blockchain, the technology and its legal implications, enforcement and enforceability in court, applications (smart contract, crypto currency, exchange rate risk, crypto mining, NFT)	
week 6	Legal Transformation - LegalTech in the law firm, LegalTech in the corporate legal department, (mapping, change management, knowledge sharing, collaboration opportunities, coexistence and separation of old and new, training and engagement, feedback, project management)	
week 7	Contract management: contract lifecycle, paperless office,	

	document automation, archiving, electronic signature	
week 8	<b>FALL BREAK</b>	
week 9	Administration of justice: eJustice, ODR/ADR; eDiscovery, and compliance tools; Legal Design; MI vision	
week 10	Working in a group to solve a development project task	
week 11	Working in a group to solve a development project task	
week 12	Working in a group to solve a development project task	
week 13	<i>Presentations</i>	
week 14	<i>Presentations</i>	
	Final evaluation	to be confirmed

**Assignments:** There are several case studies to be read. Many companies consider case analyses skills valuable. There is no point of discussion and learning if you do not read the cases.

Students will have one **home assignment in groups of 5-6**.

**Development project tasks, from which student groups can choose:**

1. Chat Bot - design, programming and testing of a communication tool for legal work in IBM Watson environment
2. development of a legal reasoning system - development and test of a system to support legal work in a MATLAB environment,
3. Development of a legal knowledge model (ontology) (using OWL, METALEX or other similar language representation)
4. Design and programming of DLP system - legal obligation assurance, enforcement, smart contract, fraud detection (AML), market place platforms,
5. law firm - digital transformation based on case study, project plan, efficiency measurement, change management
6. LegalTech start up - from idea to implementation

**It is strongly recommended that all groups...**

- Elect a spokesperson / chairperson to coordinate the individual efforts of the group. Please note that marks for individual group members may be adjusted based on their contribution to the group project.
- Inform teaching staff before Week 10 if the group feels that the contributions of group members have been unequal. Adjustments to marks of individual group members to reflect their proportionate contribution cannot be considered after this point.
- In the event of a group becoming dysfunctional, the course director must be informed as soon as possible so that remedial action can be taken.

**Assessment, grading:**

1. Total score: 100
  - a. Learning activity
    - i. Processing of literature.
    - ii. deepening skills in the use of IT tools.
2. Considerations
  - a. Competent understanding of the project task: 10 points
  - b. Explicit definition of the development objective: 15 points
  - c. Implementation of the development (achieving operability): 60 points
  - d. Presentation of development: 15 points

**Class participation:** Not to be confused with attendance, class participation is the practice of engaging your professor and fellow students during presentations and discussions with thoughtful and timely contributions. If you miss classes it will have an impact on your participation points!

*Opinions vary, civility is constant.* You should feel free to question or disagree with other students; however, such disagreement must be based on the idea and not the person. Respect for your peers and professor is the sine qua non of great discussions and great learning experiences.

DO NOTE THAT EVERY POINT IS EARNED, NOT NEGOTIATED!

**Plagiarism**

Any and all statements contained in any assignment or paper that are based upon ideas or words of another must be properly credited to the original author or source. Paraphrasing the ideas or words of another is acceptable so long as the original author or source is cited. DO NOT quote words or expressions from existing works verbatim without designating the passage as a quote and crediting the source. Any student who plagiarizes the work of any other person (author, professor, student, parent, friend, etc.) is committing academic dishonesty and misconduct.

Any student caught committing plagiarism will automatically fail the course.

**Compulsory readings:**

- Leyh, Gregory, editor. *Legal Hermeneutics: History, Theory, and Practice*. Berkeley: University of California Press, c1992 1992. <http://ark.cdlib.org/ark:/13030/ft4779n9h2/>
- Susanne Chistie (Sophia Adams Bhatti, Akber Dattoo, Dr Drago Indjic) 2020., *The LegalTech Book*, Wiley, West Sussex, UK
- Case studies and materials distributed by the instructors.

**Grade Conversion Table for Programs and Courses taught in English**

<i>Percentage achieved</i>	<i>Hungarian Grade</i>	<i>ECTS Grade</i>	<i>International Grade</i>	<i>Explanation</i>
97-100	5	A	A+	Excellent
94-96	5	A	A	Excellent
90-93	5	A	A-	Excellent
87-89	5	B	B+	Excellent/Very good
84-86	4	C	B	Good
80-83	4	C	B-	Good
77-79	4	C	C+	Good
74-76	3	D	C	Satisfactory
70-73	3	D	C-	Satisfactory
67-69	3	D	D+	Satisfactory
64-66	2	D	D	Low pass/Sufficient
51-63	2	E	D-	Low pass/Sufficient
0-50	1	FX/F	F	Fail, 0 credit
	N		N	No grade received, 0 credit