Faculty of Arts and Social Sciences
Information Systems

Syllabus

AI Applications in Law

Course Code:	ISAD21
Course Title:	AI Applications in Law
	AI-applikationer inom juridik
Credits:	7.5
Degree Level:	Master's level
Progressive Specialisation:	Second cycle, has only first-cycle course/s as entry requirements (A1N)

Major Field of Study:
IKA (Information Systems)

Course Approval
The syllabus was approved by the Faculty of Arts and Social Sciences 2025-09-05, and is valid from the Autumn semester 2026 at Karlstad University.

Prerequisites
A degree of Bachelor, 180 ECTS credits, in one of the main fields of study Information Systems, Computer Science, Business Administration, or Working Life Science, or a degree project of at least 15 ECTS credits at the G2E level in one of these fields, and upper secondary level English 6 or English level 2, or equivalent

Learning Outcomes
Upon completion of the course, students should be able to:
1. give an account of the concept Legal Tech and the use of various IT tools in the legal domain,
2. give an account of concepts related to artificial intelligence (AI) and machine learning (ML),
3. demonstrate basic knowledge of legal problems and challenges that may arise when businesses and authorities use systems for automated decision-making and generative AI,

4. demonstrate basic knowledge of the relationship between research questions, research methods, and research results in legal informatics related to AI, and
5. develop prompting strategies methodically for critical analysis of a selection of generative AI services.

Content
The course treats the broad concept Legal Tech which is an umbrella term for technology, especially software, used to deliver legal services and also for systems that support the work of legal practitioners. Their work is facilitated by powerful text databases that include laws, preparatory legal work, court rulings (praxis), and legal literature (doctrine). At the same time, there is a development towards streamlining the processes of businesses and authorities, which can result in automated decision-making which lacks human judgement. The course has a special focus on applications of artificial intelligence (AI) - both generative AI and machine learning (ML) - in legal work processes.

Instruction is in the form of lectures followed by discussion seminars chaired by lecturers from Information Systems and Law and external guest lecturers, laboratory sessions on AI use, and presentation seminars.

Reading List
See separate document.

Examination
Learning outcomes 1-3 are assessed based on a written exam.
Learning outcomes 2-5 are assessed based on an individual written hand-in assignment presented orally in seminars.

If students have a decision from Karlstad University entitling them to Targeted Study Support due to a documented disability, the examiner has the right to give such students an adapted examination or to examine them in a different manner.

Grades
One of the grades Distinction (VG), Pass (G), or Fail (U) is awarded in the examination of the course.

Quality Assurance
Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate
A course certificate will be provided upon request.

Additional information
The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.