DEPARTMENT OF SOCIOLOGY
COURSE SYLLABUS

Course Details								
Code				**Academic Year**			**Semester**	
SOZ 027							Fall	
Title				**T**	**A**	**L**	**ECTS**	
Sociology and Artificial Intelligence				3	0		6	
Language	German							
Level	**Undergraduate**	X	**Graduate**		**Postgraduate**			
Department / Program	Sociology							
Forms of Teaching and Learning	Face to face							
Course Type	**Compulsory**		**Elective**	X				
Objectives	The course introduces students to the basics of artificial intelligence from a sociological perspective.							
Content	The students acquire a general knowledge of artificial intelligence in relation to the sociology of digital interactions.							
Prerequisites	None							
Coordinator	Assoc. Prof. Dr. Valentin Rauer							
Lecturer(s)	Assoc. Prof. Dr. Valentin Rauer							
Assistant(s)	None							
Work Placement	None							
Course Methods and Techniques	Lecture, Discussion, Homework							
Recommended or Required Reading								
Books / Lecture Notes	Michael Heinlein / Norbert Huchler (Hg.) 2024: Künstliche Intelligenz, Mensch und Gesellschaft: Soziale Dynamiken und gesellschaftliche Folgen einer technologischen Innovation. Wiesbaden: Springer VS.							
Other Sources	Roger Häußling / Claudius Härpfer / Marco Schmitt (Hg.) (2024): Soziologie der Künstlichen Intelligenz. Perspektiven der Relationalen Soziologie und Netzwerkforschung, Bielefeld: Transcript.							
Additional Course Material								
Documents	-							
Assignments	-							
Exams	-							
Course Composition								
Mathematics und Basic Sciences							%	
Engineering							%	
Engineering Design							%	

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Social Sciences		%100
Educational Sciences		%
Natural Sciences		%
Health Sciences		%
Expert Knowledge		%

Assessment

Activity	Count	Percentage(%)
Midterm Exam		
Quiz		
Assignments	1	20
Attendance	1	20
Recitations		
Project		
Final Exam	1	60
Total	**3**	**100**

ECTS Points and Workload

Activity	Count	Duration	Workload (Hours)
Lectures	14	3	42
Self-Study	13	9	117
Assignments			
Presentation/Seminar Preparation			
Midterm Exam			
Recitations	1	3	3
Laboratory			
Projects			
Final Exam	1	3	3
		Total Workload	**165**
		ECTS Points (Total Workload / Hours)	**6**

Learning Outcomes

01	Students can explain the basics of Artificial Intelligence.
02	Students can relate Artificial Intelligence of sociological Concepts and Knowledge.
03	Students can explain the relation between Artificial Intelligence and Society.
04	Students learn analytical skills to better understand the social dimension of the opportunities, challenges and problems of artificial intelligence.

Weekly Content

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1	Introduction
2	Question: Why artificial intelligence from a social science perspective?
3	Basic concepts of artificial intelligence
4	Algorithms and algorithm cultures
5	Machine learning and big data
6	From companies to platforms
7	From social interaction to transformation
8	Midterm, Repetition
9	Opportunities and risks for democracies
10	Opportunities and risks for principles of responsibility and liability
11	Opportunities and risks for personality, individuality and creativity
12	Opportunities and risks for education and knowledge
13	Methodological opportunities and risks: one method for everything?
14	Repetitions, summary and discussion
15	Final

Contribution of Learning Outcomes to Program Objectives (1-5)

	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
1	5		5		5	5	4	5	5			
2	5		5		5	5	4	5	5			
3	4		5	2	3	5	5	5	5	4	4	4
4	4		5	2	5	5	5	5	5	4	4	4

Contribution Level 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High

https://obs.tau.edu.tr/oibs/bologna/progLearnoutcomes.aspx?lang=tr&curSunit=6048

Compiled by:	Assoc. Prof. Dr. Valentin Rauer
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