

**Subject card**

|  |   |  |                  |                                     |  |            |     |
|--|---|--|------------------|-------------------------------------|--|------------|-----|
| <b>Subject name and code</b>                       | Counteracting algorithmic discrimination - auditorium classes, PG_00198196  |  |                  |                                     |  |            |     |
| <b>Field of study</b>                              | Administration  |  |                  |                                     |  |            |     |
| <b>Date of commencement of studies</b>             | October 2026  | <b>Academic year of realisation of subject</b>           |                  |                                     | 2027/2028  |            |     |
| <b>Education level</b>                             | Master's studies  | <b>Subject group</b>                                     |                  |                                     | Obligatory subject group in the field of study<br>Subject group related to scientific research in the field of study |            |     |
| <b>Mode of study</b>                               | full-time studies   | <b>Mode of delivery</b>                                  |                  |                                     | at the university  |            |     |
| <b>Year of study</b>                               | 2   | <b>Language of instruction</b>                           |                  |                                     | Polish   |            |     |
| <b>Semester of study</b>                           | 4   | <b>ECTS credits</b>                                      |                  |                                     | 3.0  |            |     |
| <b>Learning profile</b>                            | academic  | <b>Assessment form</b>                                   |                  |                                     | credit   |            |     |
| <b>Conducting unit</b>                             | Department of History of Law -> Faculty of Law and Administration -> Rector   |  |                  |                                     |  |            |     |
| <b>Name and surname of lecturer (lecturers)</b>    | <b>Subject supervisor</b>   |  | dr Jacek Waldoch |                                     |  |            |     |
|  | <b>Teachers</b>   |  |                  |                                     |  |            |     |
| <b>Lesson types</b>                                | <b>Lesson type</b>  | Lecture  | Tutorial         | Laboratory                          | Project  | Seminar    | SUM |
|  | <b>Number of study hours</b>  | 0.0  | 30.0             | 0.0                                 | 0.0  | 0.0        | 30  |
|  | E-learning hours included: 0.0  |  |                  |                                     |  |            |     |
| <b>Learning activity and number of study hours</b> | <b>Learning activity</b>  | Participation in didactic classes included in study plan |                  | Participation in consultation hours |  | Self-study | SUM |
|  | <b>Number of study hours</b>  | 30   |                  | 2.0                                 |  | 43.0       | 75  |
| <b>Subject objectives</b>                          | The objective of the course <i>Counteracting Algorithmic Discrimination Practical Classes</i> is to familiarize students with the issue of algorithmic discrimination in public administration and social life, and to develop their ability to identify, analyze, and assess the risks associated with the use of algorithmic systems and artificial intelligence. The course is intended to prepare students to recognize mechanisms of unequal treatment generated or reinforced by digital technologies, and to explore legal, organizational, and ethical ways of preventing such phenomena. |  |                  |                                     |  |            |     |

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| Learning outcomes  | Course outcome   | Subject outcome   | Method of verification   |
|  | [ADMINMU2_K02] positively evaluates legal solutions that protect individual rights, particularly in the context of the functioning of the state and the information society, and also possesses an in-depth awareness of the legal necessity to undertake actions that safeguard and balance the public interest, social interest, and the individual interests of persons in various aspects of social and economic life.   | The student positively evaluates legal solutions aimed at protecting individual rights, particularly in the context of the functioning of the state and the information society, and has an advanced awareness of the legal necessity to take measures that protect and balance the public interest, the social interest, and the individual interests of persons in various aspects of social and economic life, especially in situations related to the use of algorithmic systems. | [SK2] presentation/project/paper/report<br>[SK4] test/exam - oral or written |
|  | [ADMINMU2_W03] has advanced knowledge and understanding of current dilemmas related to the functioning of administration and the application of legal institutions within the state, public administration, and the economy, including in the context of the creation and development of various forms of entrepreneurship, with particular emphasis on regulations concerning new technologies.   | The student has advanced knowledge and understanding of current dilemmas concerning the functioning of public administration and the application of legal institutions in the sphere of the state, administration, and the economy, including the creation and development of various forms of entrepreneurship, with particular emphasis on the law of new technologies and the legal problems related to counteracting algorithmic discrimination.                                  | [SW4] test/exam - oral or written<br>[SW2] presentation/project/paper/report |
| [ADMINMU2_U01] using their own knowledge and other sources of information, is able to identify, analyze, and resolve complex problems, formulate their own theses, and interpret phenomena related to the organization and functioning of public administration as well as selected domains of social and economic life, particularly those characteristic of the state and the information society. | The student, using their own knowledge and various sources of information, is able to identify, analyze, and resolve complex problems related to algorithmic discrimination, formulate their own arguments, and interpret phenomena concerning the organization and functioning of public administration as well as selected areas of social and economic life, in particular those characteristic of the state and information society.   | [SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written  |  |
| Subject contents   | The course covers issues related to the use of algorithmic systems and artificial intelligence tools in public administration, the economy, and social life, with particular emphasis on the risk of unequal treatment and discrimination. The classes address the basic concepts connected with algorithmic decision-making, the sources and mechanisms of bias in data and models, as well as the legal, social, and organizational consequences of algorithmic discrimination. The course analyzes selected examples of the use of algorithmic systems in recruitment, public services, the justice system, the labour market, insurance, credit scoring, and administrative activities. An important part of the course is also devoted to national, European, and international standards for the protection of individual rights, including the principle of equal treatment, personal data protection, transparency of administrative action, and accountability for decisions supported by algorithms. During the practical classes, students analyze case studies, assess legal and ethical risks, and propose measures to counteract algorithmic discrimination in the functioning of the state and the information society. |   |  |
| Prerequisites and co-requisites  |  |   |  |
| Assessment methods and criteria  | Subject passing criteria   | Passing threshold   | Percentage of the final grade  |
|  | test   | 51.0%   | 50.0%  |
|  | presentation   | 51.0%   | 50.0%  |

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| Recommended reading  | Basic literature         | <ul style="list-style-type: none"> <li>• Sandra Wachter, Brent Mittelstadt, Chris Russell, <b>Why Fairness Cannot Be Automated: Bridging the Gap Between EU Non-Discrimination Law and AI</b></li> <li>• Solon Barocas, Moritz Hardt, Arvind Narayanan, <b>Fairness and Machine Learning</b></li> <li>• Virginia Eubanks, <b>Automating Inequality</b></li> <li>• Cathy O'Neil, <b>Weapons of Math Destruction</b></li> <li>• Karen Yeung, Martin Lodge (eds.), <b>Algorithmic Regulation</b></li> <li>• Reuben Binns, <b>Fairness in Machine Learning: Lessons from Political Philosophy</b></li> <li>• Lilian Edwards, Michael Veale, <b>Slave to the Algorithm? Why a Right to an Explanation Is Probably Not the Remedy You Are Looking For</b></li> <li>• Article 29 Working Party / EDPB, <b>Guidelines on Automated Individual Decision-Making and Profiling for the Purposes of Regulation 2016/679</b></li> <li>• <b>Rozporządzenie Parlamentu Europejskiego i Rady (UE) 2016/679 (RODO / GDPR)</b></li> <li>• <b>Akt w sprawie sztucznej inteligencji (AI Act)</b></li> </ul> |
|  | Supplementary literature | <ul style="list-style-type: none"> <li>• Virginia Eubanks, <b>Automating Inequality: How High-Tech Tools Profile, Police, and Punish the Poor</b></li> <li>• Cathy O'Neil, <b>Weapons of Math Destruction: How Big Data Increases Inequality and Threatens Democracy</b></li> <li>• Solon Barocas, Moritz Hardt, Arvind Narayanan, <b>Fairness and Machine Learning</b></li> <li>• Karen Yeung, Martin Lodge (eds.), <b>Algorithmic Regulation</b></li> <li>• Reuben Binns, <b>Fairness in Machine Learning: Lessons from Political Philosophy</b></li> </ul>   |
|  | eResources addresses     |   |
| Example issues/<br>example questions/<br>tasks being completed |                          |   |
| Work placement   | Not applicable           |   |

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