课程详述

COURSE SPECIFICATION

以下课程信息可能根据实际授课需要或在课程检讨之后产生变动。如对课程有任何疑问，请联系授课教师。

The course information as follows may be subject to change, either during the session because of unforeseen circumstances, or following review of the course at the end of the session. Queries about the course should be directed to the course instructor.

1.	课程名称 Course Title	人工智能与现代科技的挑战及治理 Challenge and Governance of Artificial Intelligence and Modern Technology
2.	授课院系 **Originating Department**	高等教育研究中心 Center for Higher Education Research
3.	课程编号 **Course Code**	ITC04
4.	课程学分 Credit Value	2
5.	课程类别 **Course Type**	任选课 Free Elective
6.	授课学期 **Semester**	秋季 Fall
7.	授课语言 **Teaching Language**	英文 English
8.	授课教师、所属学系、联系方式（如属团队授课，请列明其他授课教师） **Instructor(s), Affiliation& Contact** （**For team teaching, please list all instructors**）	
9.	实验员/助教、所属学系、联系方式 **Tutor/TA(s), Contact**	无 NA
10.	选课人数限额(可不填) **Maximum Enrolment**（**Optional**）	

11.	授课方式 Delivery Method	讲授 Lectures	习题/辅导/讨论 Tutorials	实验/实习 Lab/Practical	其它(请具体注明) Other（Please specify）	总学时 Total
	学时数 Credit Hours	32	0	0	0	32

12.	先修课程、其它学习要求 Pre-requisites or Other Academic Requirements	无 No
13.	后续课程、其它学习规划 Courses for which this course is a pre-requisite	无 No
14.	其它要求修读本课程的学系 Cross-listing Dept.	无 No

教学大纲及教学日历 SYLLABUS

15. 教学目标 Course Objectives

1.课程将结合教师传授和学生讨论，学生将了解新兴技术发展的政策趋势。

2.让学生更好地理解当前政策辩论的逻辑，训练学生的政策思维能力。

3.系统性了解人工智能军事应用及其治理的广泛争论，并在不同模块给出自己的政策见解。

1. The course will be combined with teacher teaching and student discussion, and students will understand the policy trends of the development of emerging technologies.

2. Let students better understand the logic of current policy debates and train students' policy thinking skills.

3. To systematically understand the wide-ranging debates on the military application of artificial intelligence and its governance, and give your own policy insights in different modules.

16. 预达学习成果 Learning Outcomes

1. 学生将对人工智能技术及其在民用和军用领域带来的广泛挑战有更加全面深入的了解

Students will have a more comprehensive and in-depth understanding of artificial intelligence technology and its extensive challenges in the civilian and military fields

17. 课程内容及教学日历 （如授课语言以英文为主，则课程内容介绍可以用英文；如团队教学或模块教学，教学日历须注明主讲人）
Course Contents (in Parts/Chapters/Sections/Weeks. Please notify name of instructor for course section(s), if this is a team teaching or module course.)

模块 1：人工智能技术应用引发的挑战（6 学时）

人工智能是一项正在发展的技术，其固有的技术缺陷不免引发人们对技术安全和国际稳定的担忧。那么，什么是人工智能技术？它的发展和应用给人类社会带来了哪些冲击，以及何种程度的挑战？

模块 2：大国人工智能"军备竞赛"带来的安全风险（8 学时）

围绕着人工智能产业发展，世界主要国家做出了何种部署？其中尤为引人注目的是中美人工智能竞赛。对于这场大国竞赛，有观点认为它是一场围绕领导权的输死博弈，还有观点则认为其中存在着共同合作来减缓安全困境的空间。那么，我们该如何理解当前中美在人工智能领域的竞赛？

模块 3：全面禁止人工智能军事化可行吗？（6 学时）

国际组织和知识界以何种叙事说服受众接受其主张？人工智能技术的军事应用是否真的违背了国际法基本准则？全面禁止人工智能军事化缘何遭遇挑战？

模块 4：借鉴国际军控经验的治理路径（6 学时）

从国家限制军备竞赛的经验来看，其包括军事自我克制，维持攻防平衡，签订双边或多边国际条约等等。这些国际军控途径的逻辑是什么？在人工智能安全治理中，哪些方式可能更容易被实现？

模块 5：人工智能全球治理和中国的选择（6 学时）

围绕着人工智能全球治理，有哪些重要的治理平台，达成了何种共识？不同国家在人工智能治理方面提出了那些方案，具有怎样的特色呢？

Module 1: Challenges caused by the application of artificial intelligence technology（6 hours）

Artificial intelligence is a developing technology, and its inherent technical defects inevitably cause people to worry about technological security and international stability. So, what is artificial intelligence technology? What impact has its development and application brought to human society, and what degree of challenges?

Module 2: Security risks brought by the "arms race" of artificial intelligence in major powers（8 hours）

Regarding the development of the artificial intelligence industry, what deployments have major countries in the world made? One of the most notable is the China-US artificial intelligence competition. Regarding this great power competition, some believe that it is a loss-and-death game around leadership, while others believe that there is room for joint cooperation to alleviate the security dilemma. So, how do we understand the current Sino-US competition in the field of artificial intelligence?

Module 3: Is a total ban on the militarization of artificial intelligence feasible? （6 hours）

What narratives do international organizations and intellectuals use to persuade the audience to accept their claims? Does the military application of artificial intelligence technology really violate the basic norms of international law? Why does the total ban on the militarization of artificial intelligence encounter challenges?

Module 4: A governance path that draws on the experience of international arms control（6 hours）

Judging from the country's experience in restricting the arms race, it includes military self-restraint, maintaining a balance between offense and defense, signing bilateral or multilateral international treaties, and so on. What is the logic of these international arms control approaches? In artificial intelligence security governance, which methods may be easier to implement?

Module 5: Global governance of artificial intelligence and China's choice（6 hours）

Regarding the global governance of artificial intelligence, what are the important governance platforms and what consensus has been reached? What are the characteristics of those solutions proposed by different countries in terms of artificial intelligence governance?

18. 教材及其它参考资料 Textbook and Supplementary Readings

1.陈琪、朱荣生：《为何担心人工智能冲击国际安全》，《人民论坛》2020 年第 8 期

2.傅莹：《人工智能与国际安全治理路径探讨》，《人民论坛网》2020 年 12 月 24 日

3.Matthijs Maas, "How Viable Is International Arms Control for Military Artificial Intelligence? Three Lessons from Nuclear Weapons," Contemporary Security Policy, Vol. 40, No. 3, 2019

4.Kareem Ayoub and Kenneth Payne, "Strategy in the Age of Artificial Intelligence, " Journal of Strategic Studies, Vol. 39, No. 5-6, 2016

课程评估 ASSESSMENT

19.

评估形式 Type of Assessment	评估时间 Time	占考试总成绩百分比 % of final score	违纪处罚 Penalty	备注 Notes
出勤 Attendance		20		
课堂表现 Class Performance				
小测验 Quiz				
课程项目 Projects				
平时作业 Assignments		80		
期中考试 Mid-Term Test				
期末考试 Final Exam				
期末报告 Final Presentation				
其它（可根据需要改写以上评估方式） Others (The above may be modified as necessary)				

20. 记分方式 GRADING SYSTEM

☐A. 十三级等级制 Letter Grading
√B. 二级记分制（通过/不通过） **Pass/Fail Grading**

课程审批 REVIEW AND APPROVAL

21. 本课程设置已经过以下责任人/委员会审议通过
This Course has been approved by the following person or committee of authority