情報学のオープンサイエンス化 ― DXがもたらす革新 ―

"Open Scientification" of Informatics

基本的な考え方 Our Beliefs

研究活動を通して専門性を高めていくだけではなく、周辺分野および自然・人間・文化・社会と課題の関連を意識し、広い視野から研究課題を位置付けることは、世の中を先導し、新しい技術・価値・知識を生み出していく上で必要不可欠な能力です。オープンサイエンスカリキュラムでは、追求する専門分野の学術的専門性を高めるにとどまらず、その背景と位置付けを的確に把握できる力を育成します。特に、学際的な研究姿勢、社会問題に根ざした視点、国際的に活躍できる能力、社会・技術課題への実践的な取り組みや問題解決のための技能を育み、専門分野の殻を超え、学術界・産業界・国際社会において真に活躍・貢献できる人材を養成します。

It is vital for students to learn about issues that face the natural world, humans, culture, and society, and to situate their research topic within these issues. This process is as important as enhancing students' expertise through research activities. Acquiring these skills is essential for becoming global leaders and creating new technologies, social values, and knowledge. The Curriculum of Open Sciences aims to develop students' academic expertise in their chosen discipline and accurately grasp its background and its social impact. In particular, students should learn to grapple with problems from an interdisciplinary lens, be conscious of social issues, be active internationally, explore practical approaches to addressing social and technological challenges, and propose solutions to these complex problems. The final goal of the curriculum is to develop talented individuals who can pierce through the boundaries of their specialization and impact the academic world, industry, and societies around the world.

カリキュラム構成 Curriculum

各自の基盤とする学術分野の専門性をさらに発展させ、高い学識の獲得と広い視点に基づく思考能力の醸成を目的とした教育・研究カリキュラムです。コンピュータ・情報通信・人工知能に代表される情報工学をはじめとした多様な学術分野を、自然・人間・文化・社会における諸問題と有機的に結びつけて学び研究することで、実社会を基盤とした課題意識、国際連携を通した国際人としての姿勢、研究・開発を進めるための実践的技能を自発的に身につけることを目指します。各人が挑戦する研究テーマについて、関連した専門分野などから多角的に議論する環境を提供することで、広い視野と深い専門性の双方の獲得を実現・追求します。

The curriculum aims to develop each student's expertise in their specialization, and improve their ability to think broadly. Students should be aware of real-world issues, gain an international perspective on these topics through global collaboration, and learn practical skills for conducting research and personal growth. The core education and research areas covered by this program are information technology, such as computer science, communication, and artificial intelligence, as well as courses related to the natural world, humans, culture, and society. Interdisciplinary education and research are also emphasized as ways to help students confront these real-world issues. A crucial component of the curriculum is cultivating discussions among students with various specializations and research topics. These discussions are vital for each student to pursue their research with both academic depth and breadth.