

Artificial Intelligence (AI) is rapidly transforming scientific research and discovery. This course aims to provide a comprehensive overview of emerging AI tools and the necessary scientific knowledge required for AI-driven innovation and data-driven discovery.

By adopting an integrated approach, the course showcases how machine learning and AI are applied in Science and Technology across diverse fields—including health and life science, environmental science, material science, drug discovery, quantum chemistry, and more.

💡 What You Will Learn

- **Identify and meet Grand Challenges:** Explore potential solutions related to AI for Science.
- **Understand Core Concepts:** Explain the underlying concepts in AI technology and how they drive scientific discovery.
- **Develop Analytical Skills:** Apply logical thinking and quantitative reasoning skills in terms of AI.

🏫 How You Will Learn

- **Course Lectures, Case Studies & Readings:** You will learn and reflect on the Grand Challenges, their underlying AI for Science concepts, and the underlying principles of possible solutions with artificial intelligence tools.
- **Class Participation & Discussion:** Guided by the instructors, you will learn and practise AI for Science processes to strengthen logical thinking and quantitative reasoning skills.

🎓 Who Can Enrol?

Students from ALL Faculties/Schools are welcome!