

TEL AVIV UNIVERSITY  
INVITES YOU TO  
**A UNIQUE ONLINE  
LEARNING EXPERIENCE!**



## THE SCIENCES AND AI

This course explores the intersection of life sciences, exact sciences, engineering, and artificial intelligence. Students will delve into scientific topics and witness how AI is transforming research across various fields. They will have the opportunity to engage with young researchers using AI tools and gain insights into the world of research and AI in different areas of knowledge. By examining the symbiotic relationship between AI and scientific research, students will understand how AI enhances data analysis, experimental design, and scientific discovery. The course also highlights how AI fosters interdisciplinary collaborations and drives innovation. Overall, students will gain a comprehensive understanding of the transformative role of AI in scientific inquiry.

▶ **The course will take place via zoom from**

**04:00PM-05:10PM HKT time on the following dates:**

Wednesday	20/03
Wednesday	27/03
Wednesday	03/04
Wednesday	10/04
Wednesday	17/04

▶ **Course fee: HKD3,200**



For more information and to register please contact: Mr Elvis Chu, Programme Director, Inspire Education Association . Tel: 9826-1852 | Email: elvis.chu@inspire-education.org. Or Mrs Michal Shtorch, Asian Representative of TAU University | Email: michalms@tauex.tau.ac.il administration

### ▶ DAY 1 AND 2

#### **UNLEASHING AI TO CONFRONT MEDICAL CHALLENGES**

BY NOAM BEN SHALOM PHD CANDIDATE

Antibiotic-resistant bacteria, elusive viruses, and the complexity of cancer remain significant challenges worldwide, yet to be fully resolved. Throughout the lectures, we will understand these complexities of these problems and learn why our immune response alone cannot effectively combat them. Over the past few years, Artificial Intelligence (AI) has emerged as a crucial ally in overcoming these hurdles, with the belief that it will play a pivotal role in solving these challenges in the future.

### ▶ DAY 3

#### **AI IN MEDICINE AND RESEARCH**

BY TOMER KAGAN PHD CANDIDATE

In this lecture, an MD-PhD doctorant will show you through his experience and what the world has to offer in regards to AI in medicine. Discover current applications transforming diagnostics and treatment, and glimpse into the future of personalized healthcare with cutting-edge technologies. From nurse-robots to AI driven disease prevention, we will see and discuss what is available today and what will be available during your lifetime.

### ▶ DAY 4 AND 5

#### **THE AI REVOLUTION IN BIOMEDICAL ENGINEERING: CHANGING MEDICINE FOR TOMORROW**

BY SHIR BAHIRI PHD CANDIDATE

This lecture invites students on an enlightening journey into the profound impact of artificial intelligence (AI) on the landscape of biomedical engineering and its key applications in medicine. In the lecture, we will emphasize the synergy between AI and biomedical technologies, and we will present how machine learning algorithms and data analysis are reshaping the diagnosis and patient treatment methodologies. Through compelling examples and case studies, students will discover the incredible potential of AI in interpreting medical imaging, drug discovery, and developing personalized treatment plans.

The talk will not only illustrate the technical aspects of AI, but also highlight its real-world impact on healthcare delivery and outcomes. Also, students will gain insights into the evolving intersection of artificial intelligence and biomedical engineering, which will inspire them to consider the possibilities for combinations between them as well as the ethical aspects associated with such advances in medicine.