

# Prof. Asia LACHIR (Maroka) vieslekcijas Arhitektūras un dizaina institūtā

**7. maijā 14:30–16:05, 116. auditorijā**

## **Impact of Urban Forms on Urban Heat Island and Building Energy Efficiency**

The lecture explores the concept of the urban heat island (UHI) and its connection to urban design and building energy consumption. Special emphasis will be placed on a practical method for architects to integrate UHI considerations into the urban design process. This employ the urban climate generator within a parametric design environment to assess the UHI effect on building energy demands and optimize urban forms for enhanced energy efficiency.

**8. maijā 10:15–11:50, 308. auditorijā**

## **Climate analysis and integration in early architectural design: practical work using climate consultant**

The workshop aims to initiate students to use climate consultant, a free software to visualize and analyze climate data for an architectural project.

**8. maijā 12:30–14:05, 433. auditorijā**

## **Impact of urban forms on thermal comfort in outdoor spaces**

The lecture investigates thermal comfort in outdoor spaces and its relation with urban design. It presents a case study in Morocco where we focus on urban forms and assess how they affect thermal comfort in outdoor spaces. For this, we use visual programming in Computer Aided Design (CAD) software, by the means of Ladybug tools, to estimate urban heat island and simulate thermal comfort with the Universal Thermal Climate Index (UTCI) within areas with different morphologies in the city of Marrakech.