UPM VIRTUAL INTERNATIONAL SUMMER SCHOOL

June 15th to July 31st, 2020

> Online courses addressing some of the hottest technology trends delivered in English, combined with a taste of Spanish language and culture.

KEY FEATURES

- Get acquainted with the latest technological trends and benefit from the insight of industry experts.
- Experience learning in a multicultural online classroom with peers from different parts of the world.
- Learn basic Spanish and gain an appreciation of Spanish culture in anticipation of your exchange or visit to Spain.

APPLY

- Students can choose any combination of courses.
- Course tuition fees for
    - Spanish language courses: €120 per course
    - Technology courses: €120 per course
    - Architecture courses: €480 per course

    Technology and Architecture courses discounts are available for groups of over 10 students from partner institutions, early bird registration (before May 31st, 2020), and UPM students. A limited number of tuition fee scholarships are available.

ORGANIZED BY

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https://blogs.upm.es/decatech/en/a-unique-opportunity-for-university-students

TECHNOLOGY

Cybersecurity is about balancing risks and opportunities in the cyber-space, the global interconnection of digital networks. Cybersecurity is designed to protect digital property, personal information, and business transactions from accidents, errors, and deliberate attacks.

Autonomous vehicle technologies involve environment perception and decision making so vehicles could take control of some driving actions. **Connected vehicle** technologies allow vehicles to communicate with each other and the world around them in order to obtain a more detailed information.

Biomedical technology deals with innovation in biomedical technologies especially trends in the development of new devices or solutions that solve specific unmet needs.

NewSpace has become an increasingly widespread concept in various types of space missions due to the standardization, the relatively simple design and the low cost of small satellites, making space more accessible and making it available to practically anyone.

The shift to **clean energy** technologies is urgent in order to limit climate change. Renewable energy sources (solar, wind, biomass,…) will be the core of our energy system, and a number of technological challenges should be addressed to ease the transition.

Technology companies increasingly rely on personally and culturally diverse, multidisciplinary teams. By **leading diversity**, managers assure that all team members feel they are treated respectfully and fairly, are valued and sense that they belong, and are confident and inspired, and teams achieve high performance.

Big Data Analytics is concerned with extracting the value potentially hidden in data to support decision-making processes. Challenges include analysis, capture, data curation, search, sharing, storage, transfer, visualization, querying, updating and information privacy.

Artificial Intelligence refers to intelligence that allows machines to emulate intelligent behavior or to do things that, most of the time, people do better. AI technologies have a major impact on our daily activities in business, as individuals, and as a society.

ARCHITECTURE

The **VOIDS & CONDENSERS** workshops allude to a semantic paradox: vacuum strategy versus condenser accumulation. The workshop addresses the public space as a place of negotiation, spontaneous social representations, tribunes for demonstrations and demands, scenarios that can be reprogrammed according to circumstances, temporary supports for citizens movements, urban showcases of contradictory society, accumulators of layers of collective memory.

Focus on [Madrid]: a town of remote origins. Its heyday was in 1561, when Philip II moved his court from the nearby city of Toledo to the Real Alcázar in Madrid. Spain's capital has grown, absorbed and transformed with historical developments and events. Void & Condenser scenario: Madrid's iconic Plaza Mayor.

Focus on [Ahmedabad]: a wall city founded in 1411, which flourished through trade with China, and seat of the Mahatma Ghandhi's non-violent movement against British colonial rule. Void & Condenser scenario: Ahmedabad's iconic Bhadra Square.

SPANISH LANGUAGE AND CULTURE

Cervantes Institute AVE Global program and UPM Language Center tutor to follow up learning for students of Common European Framework of Reference for Languages (CEFR) levels A1 through to B1 during the first 30 hours of the course. With the 90-day AVE Global course, students will have plenty of time to complete the language proficiency level.