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ANATOMAGE · Simulation Technology

International Simulation Week · PROGRAMME · SPAIN · 2027

3 to 7 - MAY

II International Simulation Week:

Experiential Learning in Higher Education

SAN JORGE UNIVERSITY · ZARAGOZA, SPAIN

Simulation as a pillar of Experiential Learning at San Jorge University

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Simulation is a teaching and learning methodology that **recreates real or plausible situations in a controlled environment** so students can practice, make decisions and take on problems similar to those they'll face in their professional futures. With specially designed scenarios, simulation allows students a **risk-free taste of the real world**, fostering **trial**, **error and reflection** as a natural part of the learning process.

Simulation's impact on student learning is quite significant. This methodology fosters **active learning,** wherein students stop passively receiving information and become the protagonists of their own learning. Simulation boosts **comprehension of complex content** develops **practical skills** and enhances universally applicable skills such as **teamwork, communication, critical thinking and decision-making.** It also increases **motivation and commitment**, as it places the student in realistic challenges connecting theory to professional practice.

At San Jorge University, simulation is not just a pedagogical concept: it is translated to **physical spaces and experiences** specifically designed for students to **learn by doing**. These scenarios allow students to face **real situations from their professional futures** in a **safe, technologically advanced environment,** facilitating practical application of theoretical concepts.

The university has specific environments such as **laboratories, simulation classrooms, communications and editing studios, mock trial courtrooms, design workshops** and **tech spaces** where the situations from each discipline are recreated. There they use techniques and apply methodologies such as **case-based learning, role playing, clinical, legal, social and business simulations, virtual laboratories,** advanced simulation of industrial processes and digital twins, audiovisual production studios, urban and architectural simulation as well as advanced problem-solving dynamics. These tools allow students to **practice procedures, make decisions in complex contexts**, interact with **realistic professional** scenarios and subsequently **reflect on their actions**, thereby consolidating **deep, meaningful learning** geared toward professional practice in each field of study.

This model isn't sustained only on infrastructures, methodologies and specialised software, however. The university also has **faculty specifically trained both in designing simulation scenarios and in facilitating these experiences,** handling equipment and organising teaching structures geared toward active learning. This combination of specialised spaces and skilled professors guarantees **meaningful, rigorous simulation experiences aligned with learning objectives.**

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Monday

3 - MAY

Departure bus: 09:15 | Return bus: 17:15
Paseo Echegaray y Caballero on the side of the NH Hotel Ciudad de Zaragoza.

TIME	
09:45 - 10:15	Welcome and Registration
10:15 - 10:45	**Opening Ceremony, Presentation of USJ and Its Educational Model** Main Auditorium, Faculty of Communication and Social Sciences
10:45 - 11:15	Coffee break
11:15 - 12:00	Networking **Meet the Participants** Faculty of Communication and Social Sciences
12:00 - 13:00	Workshop 1 **Simulation as a Methodology** Faculty of Health Sciences
13:00 - 14:30	Lunch
14:30 - 17:00	Workshop 2 **USJ Campus Overview · Academic Perspectives on Architecture, Technology, and Innovation** Faculty of Health Sciences, Faculty of Communication and Social Sciences, School of Architecture and Technology

USJ CAMPUS ACTIVITIES

18:30-20:30	Cultural tour of Zaragoza's historic city centre: **Visit to The Basilica of our Lady of the Pilar** The Basilica of our Lady of the Pilar, Zaragoza, Spain
20:30	Traditional Tapas Dinner Restaurant Méli Mélo, Calle Mayor 45, Zaragoza, Spain

SOCIAL AND CULTURAL ACTIVITIES

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Tuesday

4 - MAY

Departure bus: 08:30 | Return bus: 17:15
Paseo Echegaray y Caballero on the side of the NH Hotel Ciudad de Zaragoza.

TIME	
09:00 - 11:00	Workshop 3 **Virtual Reality Applied to Teaching Practice in Technology and Architecture** School of Architecture and Technology
11:00 - 11:30	Coffee break
11:30 - 13:30	Workshop 4 **Clinical Simulation Spaces. Methodologies in Health Sciences** Faculty of Health Science
13:30 - 15:00	Lunch
15:00 - 17:00	Workshop 5 **Cyberattack Simulation in Professional Settings** School of Architecture and Technology

USJ CAMPUS ACTIVITIES

17:30

Goya Museum
Visit to the Goya Museum in Zaragoza
Calle de Santiago, 28, 50003 Zaragoza

SOCIAL AND CULTURAL ACTIVITIES

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Wednesday

5 - MAY

Departure bus: 08:30 | Return bus: 17:15
Paseo Echegaray y Caballero on the side of the NH Hotel Ciudad de Zaragoza.

TIME	
09:00 - 11:00	Workshop 6 **ANATOMAGE - Virtual Dissection: Interdisciplinarity in Teaching Methodology and Practice** Faculty of Health Sciences
11:00 - 11:30	Coffee break
11:30 - 12:30	Workshop 7 **Business Problem-Solving Through Simulation** Faculty of Communications and Social Sciences
12:30 - 13:30	Workshop 8 **Crime Scene Simulation** Faculty of Communications and Social Sciences
13:30 - 15:00	Lunch
15:00 - 17:00	Workshop 9 **60 Minutes Behind the Scenes - USJ TV Studio** USJ TV Studio

USJ CAMPUS ACTIVITIES



Television Studio Simulator

Thursday
6 - MAY

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TIME	
09:00 - 11:00	Departure to Alquézar **Medieval town located in the province of Huesca considered one of the most beautiful towns in Spain** Alquézar, Huesca, Spain
11:00 - 12:30	Vero River Footbridges Hiking Route **Blending nature, scenery and historical heritage**
13:00 - 14:30	Lunch
14:30 - 15:30	Guided tour of the historic centre of Alquézar **Architecture and cultural heritage**
15:30 - 17:30	Return Zaragoza, Spain
20:30	Farewell Dinner Zaragoza, Spain

SOCIAL AND CULTURAL ACTIVITIES



Alquézar, medieval town in Huesca, Spain

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Friday

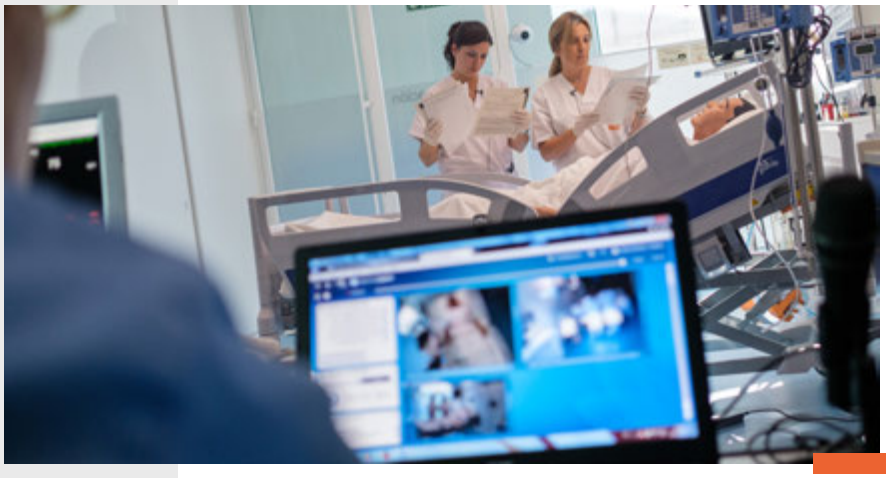
7 - MAY

Departure bus: 08:30 | Return bus: 16:40
Paseo Echegaray y Caballero on the side of the NH Hotel Ciudad de Zaragoza.

TIME	
09:00 - 11:00	Workshop 10 **OSCE: Objective Structured Clinical Examination in Health Sciences Degrees** Faculty of Health Sciences
11:00 - 11:30	Coffee break
11:30 - 13:30	Networking & Individual Meetings
13:30 - 15:00	Lunch
15:00 - 16:00	Panel Session **Success Stories*** Main Auditorium, Faculty of Communications and Social Sciences
16:00 - 16:30	Closing Ceremony **Certificate ceremony** **Closing and acknowledgements** **Group photo** Main Auditorium, Faculty of Communications and Social Sciences

*Presentation and discussion of best practices displayed by participants

USJ CAMPUS ACTIVITIES



Clinical Simulation Space

Further information about the workshops

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Workshop 1

Simulation as a Methodology

Clinical simulation will be presented as an active methodology applicable to different educational contexts, showing how scenarios are designed and adapted to the students' developmental and training levels. In addition, the use of structured debriefing will be explained as a key strategy to guide the experience, encourage participation, and optimize learning.



Critical care patient simulation



Exhibition model printed in the 3D printing workshop

Workshop 2

USJ Campus Overview · Academic Perspectives on Architecture, Technology, and Innovation

San Jorge University has developed a campus project with particular attention to landscape integration, environmental care, and the aesthetic quality of its buildings, understanding that these factors contribute to the well being of students and staff while enhancing the learning experience.

The university offers innovative learning spaces designed to ensure that students not only acquire theoretical and technical knowledge but also develop the skills and competencies needed to adapt quickly and effectively to their professional careers.

Simulation environments, creative methodologies, and a maker centered educational approach transform theory into practice and abstract concepts into tangible experiences. At every step, students discover their ability to think critically, work collaboratively, and respond to the challenges of a constantly changing society.

Workshop 3

Virtual Reality Applied to Teaching Practice in Technology and Architecture

Virtual Reality will be introduced as a teaching tool for generating interactive scenarios that allow students to explore, visualize, and manipulate complex content. Through VR headset demonstrations and interdisciplinary collaborative projects, its potential to enhance experiential learning will be showcased. The session will also analyze how this technology fosters active learning, spatial understanding, and experimentation within simulated environments.



Virtual Reality Workshop Maker Spaces

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Further information about the workshops

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Workshop 4

Clinical Simulation Spaces. Methodologies in Health Sciences

Clinical simulation will be presented as an active methodology applicable to different educational contexts, showing how scenarios are designed and adapted to the students' developmental and training levels. In addition, the use of structured debriefing will be explained as a key strategy to guide the experience, encourage participation, and optimize learning.



Simulation with Photocells and Jump Platforms



Biomedical Laboratory · Histology Facilities

Workshop 5

Cyberattack Simulation in Professional Settings

The use of platforms such as Hack The Box will be presented to reproduce real attacks through CTF challenges and Pro Labs that simulate complete enterprise networks. The session will include practical examples of pentesting, forensic analysis, and incident response, illustrating how these simulations allow participants to work through the full cycle of an attack and develop technical competencies in a safe and highly realistic controlled environment.

Workshop 6

ANATOMAGE
Virtual Dissection: Interdisciplinarity in Teaching Methodology and Practice

The introduction of the Anatomage virtual dissection table as an educational tool in Anatomy practice sessions will be presented. This advanced technology offers an interactive three-dimensional visualization of real anatomical structures at life size, enabling users to explore, manipulate, and digitally "dissect" the human body in great detail. Its use supports a deeper understanding of spatial relationships between structures, promotes active learning, and innovatively complements traditional classroom activities.



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Workshop 7

Business Problem-Solving Through Simulation

Using the Case Method, participants analyse a business challenge and translate theory into practice through a LEGO or Jenga simulation. The workshop highlights strategic thinking, teamwork, and evidence-based decision-making.



USJ + Ideas Box

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Further information about the workshops

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Crime Scene Simulation

Workshop 8

Crime Scene Simulation

The workshop will simulate a crime scene, in where all the agents involved take part in collecting hints/clues. With this activity students learn how to work in a professional context and apply all the competences learned throughout their degree program.



Television Studio Simulator

Workshop 9

60 Minutes Behind the Scenes - USJ TV Studio

This workshop is framed within the course “Presentation in Television”. In this learning activity students practice their knowledge and tools in presenting the contents within a television environment. They simulate a daily professional environment in a TV set, as if it was a TV news program. The students write the headlines and practice their communication skills, in front of and behind the cameras. They simulate as if they were a TV presenter.

Workshop 10

OSCE: Objective Structured Clinical Examination in Health Sciences Degrees

OSCE will be presented as an assessment system currently being implemented transversally across the Faculty of Health Sciences, aimed at objectively and systematically evaluating students’ clinical competencies through simulation stations. Specifically, the session will outline the implementation experience in the Physiotherapy Degree, highlighting its practical application in assessing professional skills, clinical reasoning, and communication within simulated contexts.



Simulated Physiotherapy patient case

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The University may adjust the schedule or activities if needed for organizational, academic, or unforeseen reasons.

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