

ANATOMAGE · Simulation Technology

20
26
PROGRAMME · SPAIN · International Simulation Week

 **4 to 9 - MAY**

**International Simulation Week:
Experiential Learning in
Higher Education**

SAN JORGE UNIVERSITY · ZARAGOZA, SPAIN

Simulation as a pillar of Experiential Learning at San Jorge University

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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Cofinanciado por
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Monday

 4 - MAY

TIME



09:30 - 10:00

Welcoming and Registration

10:00 - 10:15

Opening Ceremony

 Main Auditorium, Faculty of Communication and Social Sciences

10:15 - 10:45

**San Jorge University's Educational Model:
Simulation as an Interdisciplinary Mainstay Across All Areas**

 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

12:15 - 13:15

Workshop 1
Simulation as a Methodology

 Faculty of Communication and Social Sciences

13:15 - 14:30

Lunch

14:30 - 16:00

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

19:00-21:00

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

21:00

Traditional Tapas Dinner

 City Centre, Zaragoza, Spain

SOCIAL AND CULTURAL ACTIVITIES



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Tuesday

 5 - MAY


TIME



10:00 - 11:30

Workshop 3

Clinical Simulation Spaces. Methodologies in Health Sciences

 Faculty of Health Sciences

11:30 - 12:00

Coffee break

12:00 - 13:30

Workshop 4

Virtual Reality Applied to Teaching Practice in Technology and Architecture

 School of Architecture and Technology

13:30 - 15:00

Lunch

15:00 - 16:30

Workshop 5

Virtual Dissection: Interdisciplinarity in Teaching Methodology and Practice

 Faculty of Health Sciences

USJ CAMPUS ACTIVITIES

19:00-21:00

Cultural tour of La Aljafería

Visit to Zaragoza's emblematic Mudéjar palace

 The Aljafería Palace, Zaragoza, Spain

SOCIAL AND CULTURAL ACTIVITIES



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Wednesday

 6 - MAY

TIME 

10:00 - 11:30

Workshop 6
Cyberattack Simulation in Professional Settings
 School of Architecture and Technology

11:30 - 12:00

Coffee break

12:00 - 13:30

Workshop 7
Crime Scene Simulation
 Faculty of Communication and Social Sciences

13:30 - 15:00

Lunch

15:00 - 16:30

Workshop 8
60 Minutes Behind the Scenes - USJ TV Studio
 Faculty of Communication and Social Sciences

USJ CAMPUS ACTIVITIES



Television Studio Simulator



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Thursday

 7 - MAY

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 Trek
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

21:00

Gala Dinner

 Aura Restaurant, Zaragoza, Spain

SOCIAL AND CULTURAL ACTIVITIES



Alquezar, medieval town in Huesca, Spain



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Friday

 8 - MAY

TIME



09:30 - 11:00

Workshop 9

OSCE: Objective Structured Clinical Examination in Health Sciences Degrees

 Faculty of Health Sciences

11:00 - 11:30

Coffee break

11:30 - 12:30

Workshop 10

Business Problem-Solving Through Simulation

 Faculty of Communications and Social Sciences

12:30 - 13:30

Panel

Success Stories*

 Faculty of Communications and Social Sciences

13:30 - 14:30

Lunch

14:30 - 15:15

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



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Saturday

9 - MAY

OPTIONAL

TIME

10:00-12:00

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INTERNATIONAL



See what we did
in previous years

Terrorist Attack Simulation

The Master's Degree in Emergency, Critical and Urgent Care Nursing at Universidad San Jorge organises an **annual multiple-casualty incident simulation exercise** involving several emergency services, allowing students to practice assisting victims and **activating emergency protocols in a real-world setting**.

The objective of this project is for students to **put into practice everything they have learned** throughout the master's program and to develop the ability to **coordinate with other teams** and **work in a multidisciplinary manner**, just as they would in real life.

This activity enables students to **demonstrate the competencies and skills acquired** during the program by attending to multiple injured **traffic accident victims, providing advanced life support** and **responding to patients in life-threatening emergencies**—all scenarios included across the master's different modules.

In addition to volunteers, students from San Jorge University's Audiovisual Communications degree participate by **covering the event** and **simulating how media professionals report** on this type of incident.



Terrorist Attack Simulation · 2025



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Further information about the workshops

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 3

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



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Further information about the workshops

Workshop 4 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



Workshop 5 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 6 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.



Biomedical Laboratory · Histology Facilities



Workshop 7 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.

Crime Scene Simulation



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Further information about the workshops



Television Studio Simulator

Workshop 9

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



USJ + Agora

Workshop 10

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.



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

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