

**VIRTUAL**  
Hospital



Universidad  
**Católica de**  
**Valencia**  
San Vicente Mártir

# PRACTICAL COURSE OF MEDICAL SIMULATION IN HOSPITAL ENVIRONMENTS

**International Summer Course / 2022**

*A place and experience where mistakes turn into opportunities*

# About Catholic University of Valencia

We are a private non-profit University with:

- +11.500** Students,
- +900** Faculty members,
- +90** Postgraduate programmes
- 3** PhD programmes

## The UCV has 8 faculties:

- Psychology
- Education
- Physical Education & Sports
- Philosophy, Arts & Humanities
- Veterinary & Experimental Sciences
- **Medicine and Health Sciences**
- Legal, Economic and Social Sciences
- Canon Law



1st University of Valencia Region in teaching and learning and **among the 4 best universities in Spain** (Ranking CyD 2019).

# Medicine & Health Sciences Faculty

## Degrees:

Medicine, Nursing, Dentistry, Physiotherapy,  
Podiatry and Nutrition.

Training internships made by **small groups** and  
personalized follow-up contribute around **97%**  
overall **satisfaction**.

The Faculty approaches a real clinical assistance  
through the **Health University Center** as well as  
**experiential learning** through **Virtual Hospital UCV**.



# Virtual Hospital UCV

*We train in a scale hospital with real equipment and dummy patients with automatic physiological response*

## **Design**

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A scale real hospital with almost 2.000 m2 where offering practices in real environments is the main purpose. It is one of the best in Europe and equipped with the latest technology.

## **Skills**

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A safe place, where professionals train their technical and non-technical skills.

## **Since 2018**

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Virtual Hospital UCV is an advanced clinical simulation center of Catholic University of Valencia

## **Team**

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Led by a great team. Professors & Researchers working in both fields, healthcare and educational system are the key value in its task.

## **Areas**

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We welcome more than 2000 undergraduate, graduate & postgraduate students every year from: Medicine, Nursing, Podiatry, Physiotherapy, Dentistry, Psychology and Nutrition.



# Virtual Hospital UCV



# Methodology & Learning Resources

We have our own team of doctors and nurses, among other external collaborators.

Their task is to challenge and facilitate things to happen.

We promote a Socratic teaching method: it is not intended to give lessons.

The assistants helped by the instructor are looking for the answers by themselves.

Debriefing time is the final touch. It makes the experience unforgettable.

## ***How do we do it?***

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- Learn by doing.
- Problem-based learning: where error becomes in an good chance to improve.
- Emotions and self-experience are the key in our method.



## Facilities

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- 2 Theatre
- 2 Intensive Care Unit
- 1 Emergencies Department
- 1 Critical Care Box
- 1 Delivery Room
- 5 Labs

## Human Resources

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All professionals are currently working in 7 real hospitals.  
Pre-hospital services, as well as airboned urgencies mainly from Anesthesiology, Intensivist, Gynecology, Pediatrics. Emergency doctors, Nurses and Midwives  
High Sepecialization professionals

## Simulators

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- Pregnant Simulator
- Paediatrics High Fidelity Simulators
- 28 weeks babyborn
- Ecography & Virtual Reality devices
- Hololens, Arrhythmias and trauma simulators
- Cardiac and Pulmonary auscultation
- An another +60 simulators



# Practical Course of Medical Simulation in Hospital Environments

6 ECTS



# The course in the nutshell

- English taught course
- Awarded with 6 ECTS
- 30 places

Skills training stage is scheduled by three different weeks. You will interact with a wide scope of simulators. Starting from simple devices and simulators walking to the most complex and advanced ones. You will train technical and non-technical skills and will take part of many clinical scenarios.

## GOAL

Based on simulation methodology we offer an intensive program for students of medicine on their last degree course.

## METHODOLOGY

Teamwork in small groups. 12-15 students maximum.  
Technical and Non-Technical skills training.  
Scenarios development.

## TARGET

One profile course for students of medicine who wish to train in simulation methodology.

## TIMETABLE

3 weeks on-site training:  
Every day from Monday to Friday from 9am to 1pm

# Subjects

PAEDIATRICS



INTERNAL MEDICINE



PNEUMOLOGY



OBSTETRICS & GINECOLOGY



EMERGENCY



CARDIOLOGY



# Daily Scheduling

## Week 1

20	21	22	23	24
Physiology and Monitoring	Exploration	Respiratory System I	Respiratory System II	Cardiovascular System

## Week 2

27	28	29	30	1
Infections	Techniques I	Techniques II	Techniques III	Gynecology and Obstetrics

## Week 3

4	5	6	7	8
Pediatrics	Emergency I	Emergency II	Cross-sectional clinical cases I	Cross-sectional clinical cases II

# Day | Topic | Content

June 20th	Physiology and Monitoring	Taking of physiological constants: TA, Fc, Fr, Glycemia, T <sup>a</sup> , Sat O <sub>2</sub> , / ECG / Clinical simulation cases.
June 21st	Exploration	Pulmonary auscultation and Cardiac auscultation / Ultrasound Basic: Buttoning and cutting plans / Clinical simulation cases.
June 22nd	Respiratory System I	Oxygen therapy and Manual Ventilation: Supraglottic/ Clinical simulation cases.
June 23rd	Respiratory System II	Non-Invasive Mechanical Ventilation / Invasive Mechanical Ventilation / Clinical simulation cases.
June 24th	Cardiovascular System	Reading and Interpretation of the EKG. Electrical therapies of arrhythmias. Fluid therapy / Clinical simulation cases.
June 27th	Infections	EPI's / Asepsia and Sepsis / Clinical simulation cases.
June 28th	Techniques I	Intravenous and intraosseous punctures / Bandages / Probes.
June 29th	Techniques II	Sutures / Punctures Respiratory and Cardiac Systems. / Clinical cases
June 30th	Techniques III	Ultrasound: Ultrasound and Eco-guided Punctures / Ultrasound Advanced in Woman & Man's patients / Clinical simulation cases.
July 1st	Gynaecology and Obstetrics	Gynaecological and obstetric clinical exploration / Manual delivery with PROMPT/ Advanced Labour with / Clinical simulation cases.
July 4th	Paediatrics	Clinical examination of Newly born to finished and paediatric. The febrile child / Clinical simulation cases.
July 5th	Emergency I	Basic & Advanced CPR (European Resuscitation Council) / Clinical simulation cases.
July 6th	Emergency II	Initial traumatological assistance adult and paediatric/ Neurological examination / Clinical simulation cases.
July 7th	Cross-sectional clinical cases I	Cross-sectional clinical cases of all treated areas.
July 8th	Cross-sectional clinical cases II	Cross-sectional clinical cases of all treated areas.

# Programme Leaders



**Juan Antonio Sinisterra**  
*Emergency Practitioner*



**Victor Gascón**  
*Intensive care  
specialist*



**Óscar Martínez**  
*Gynecologist*



**José Leoncio  
Pérez**  
*Cardiologist*



**Francisco Javier  
Escribá**  
*Anesthesiologist*



**Eloina Casanoves**  
*Intensive care  
specialist*



**María Garcés**  
*Pediatrician*



**Augusto Saldaña**  
*Family and  
Community Specialist*



**Jorge Casaña**  
*Nurse*



**José Belda**  
*Pneumologist*

# Explore & have fun!

This intensive summer course, includes the academic simulation program itself, as well as freetime group activities that helps to enhance other skills such as teamwork and networking. The offered experiences are:

**Monday June 20th**



Get to know the city of Valencia with our bike tour with guide

**Wednesday June 22nd**



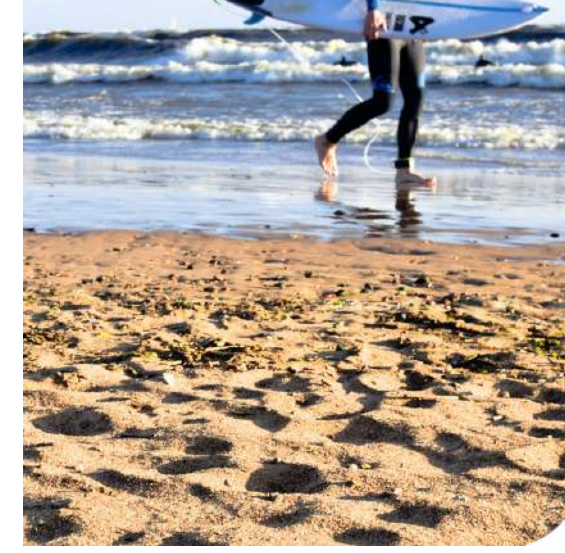
Immerse yourself in local culture with a visit to the Cathedral, St. Nicholas Church & Lonja

**Friday June 24th**



Visit and enjoy the Oceanographic

**Thursday June 30th**



Ride the waves in a paddlesurf experience in Patacona

**Thursday July 7th**



Paella in a tradicional venue in the countryside (bus included)

# Do you need help with Accommodation?

We can help you get settled with Spanish families or send you information of flats or students residence the UCV has agreements with.

## Homestays

Stay with a nice **Spanish family** and live a real language and cultural immersion. Plus...you won't need to bother about cooking! All meals are provided.

## Flats / Student Residence

You prefer staying in a **flat** or a student **residence**? Don't worry, we will provide you with useful information to book your stay in a safe and nice place.

Please do not hesitate to ask for further information  
[\*hospital.virtual@ucv.es\*](mailto:hospital.virtual@ucv.es)

# Practical Information

- Certified Courses by Catholic University of Valencia (6 ECTS).
- One of the most comprehensive clinical simulation programs.
- Starting date: 20/06/2022 - Ending date: 08/07/2022.
- Apply from now to June 15th, 2022.
- It is taught in English (Simultaneous translation for large groups available).
- Minimum attendance of 15 participants.
- Fee: 1400 € (course + "explore & have fun" activities).
- We may help you with accommodation arrangements.
- Questions? Interested? Write us at: [\*\*hospital.virtual@ucv.es\*\*](mailto:hospital.virtual@ucv.es)





# Get in touch

We will be more than happy to answer any question you may have  
[hospital.virtual@ucv.es](mailto:hospital.virtual@ucv.es)

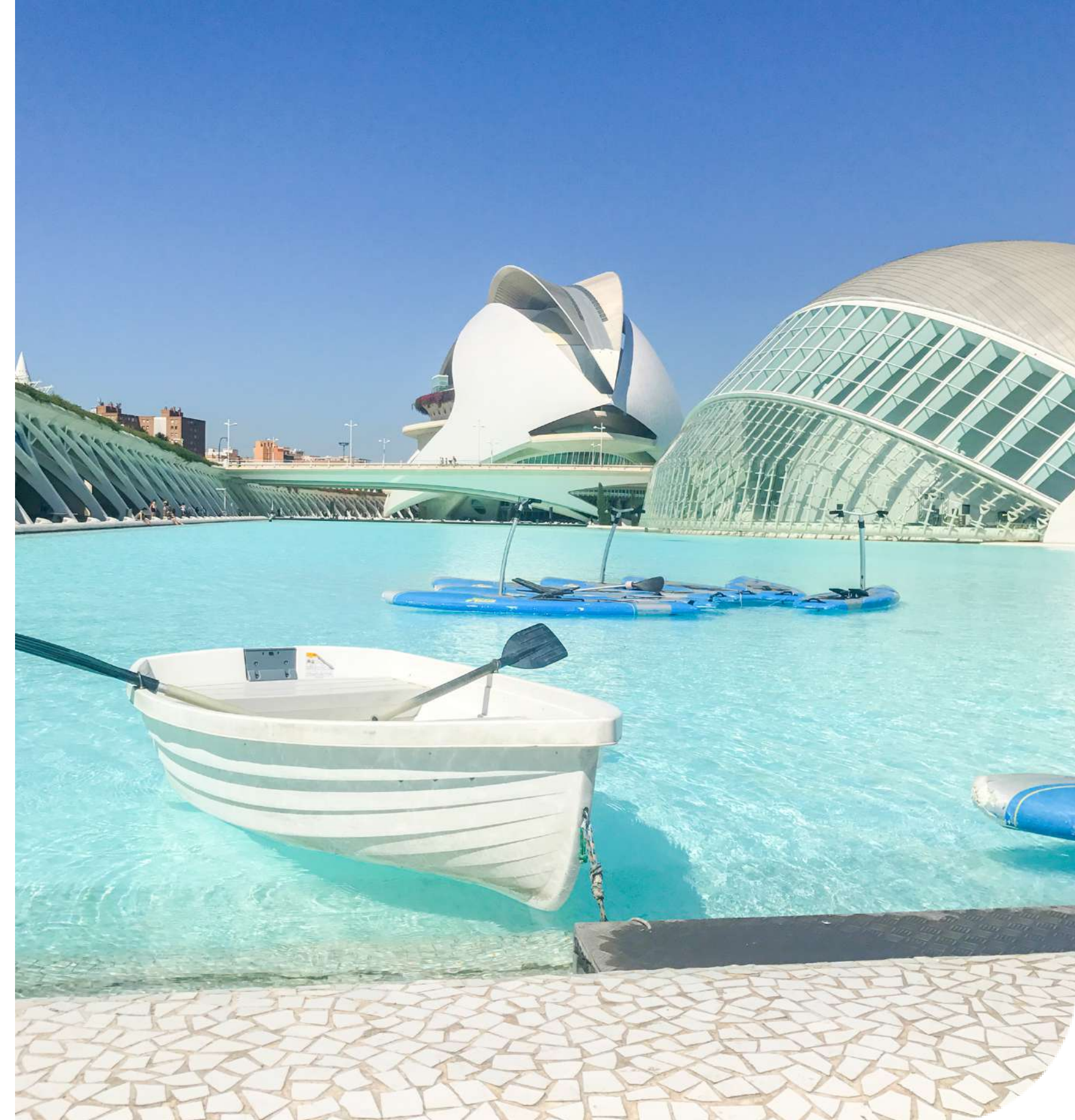
## Come to see us! We are in Valencia

Valencia was founded as a Roman colony in 138 BC. Their monuments and customs are considered World Heritage by UNESCO.

It is the third biggest city in Spain located in the Mediterranean Coast which enjoys a mild weather.

It offers an amazing transport network by International Airport, High Speed Train, Highways, and Seaport.

A project in collaboration with:



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