

# Nonlinear Life Summer School 2024

Blended Intensive Programme on Biomedical Engineering and Medical Physics

## PRELIMINARY PROGRAM

<p style="text-align: center;"><a href="#">15 July (remotely)</a></p>
Introduction of the School – Yuri Dekhtyar, Lucio Tommaso De Paolis
Lecture 1: Filip Górski - University of Poznan, Poland <i>Cutting tumors and healing hands: a few stories about use of XR in medicine</i>
Lecture 2: Franco Milano - Chulalongkorn University, Thailandia <i>Possible replace of the Linear No-threshold Model in Radiation Protection</i>
<p style="text-align: center;"><a href="#">16 July (remotely)</a></p>
Lecture 3: Joaquín Francisco Roca Gonzáles - University of Cartagena, Spain <i>Ubiquitous Artificial Intelligence in Medical Devices</i>
Lecture 4: Daiga Behmane - Rīgas Stradiņa Universitāte , Latvia <i>Health technology assessment for medical devices: prospects for the future</i>
Discussions on the projects to be reached
Organization of the groups
<p style="text-align: center;"><a href="#">17 July (remotely)</a></p>
Lecture 5: Yuri Dekhtyar - Riga Technical University, Latvia <i>Physical fundamentals of CT, MRI, PET</i>
Self-learning and preparation for the project
<p style="text-align: center;"><a href="#">18 July (remotely)</a></p>
Lecture 6: Valerio De Luca - University of Salento, Italy <i>eXtended Reality in medicine</i>
Self-learning and preparation for the project
<p style="text-align: center;"><a href="#">19 July (remotely)</a></p>
Self-learning and preparation for the project
<b>ACTIVITIES IN PRESENCE</b>
<a href="#">3 September</a>
Arrival to Lecce
<a href="#">4 September</a>
Lectures/workshop in accordance with the program of the XR Salento 2024 Conference
<a href="#">5 September</a>
Lectures/workshop in accordance with the program of the XR Salento 2024 Conference

<a href="#">6 September</a>
Lectures/workshop in accordance with the program of the XR Salento 2024 Conference
<a href="#">7 September</a>
Self-learning and preparation for the project
Social event
<a href="#">8 September</a>
Self-learning and preparation for the project
<a href="#">9 September</a>
Project defense
Departure from Lecce

## Lectures in presence

Yuri Dekhtyar – Riga Technical University, Latvia  
*Electrical functionalization of nanoobjects for bio needs*

Joaquín Francisco Roca González – University of Cartagena, Spain  
*Biomedical Engineering as paradigm of Convergence of Science and Technology for well-being*

Razvan Pacurar - Technical University of Cluj-Napoca, Romania  
*3D printing and rapid tooling methods for medical applications*