Nonlinear Life Summer School 2024

Blended Intensive Programme on Biomedical Engineering and Medical Physics

PRELIMINARY PROGRAM

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

7 September
Self-learning and preparation for the project
Social event

8 September
Self-learning and preparation for the project

9 September
Project defense
Departure from Lecce

Lectures in presence

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

Joaquín Francisco Roca Gonzáles – 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