

Agenda BIOMEDIX Summer School

**Summer University “Engineering for Life”
BIOMEDIX Summer School 2026**

On-Site session (First week)

Riga Technical University Campus, Ķīpsala, Rīga, Latvia

Monday 20.07.2026.		
8:30-9:00	Welcome <i>Prof. Yuri Dekhtyar,</i> <i>Poļina Štolca, Deputy Vice-Rector for International Cooperation</i> <i>Leonīds Pakrastiņš. Vice Dean for Administration</i> <i>Ivo Vaicis, Vice-Dean for Innovation</i> <i>Ēriks Badamšins, International Cooperation Project Manager</i>	Zunda krastmala 8, Room 107
9:00-10:00	From biomaterial to patient: biological evaluation of medical devices: focus on regenerative medicine in orthopedics (Remote) <i>Dr. Giorgia Borciani, IRCCS, Italy</i>	
10:00-11:00	Smart materials for biomedical applications <i>Assoc.prof. Giorgia Montalbano, PoliTo, Italy</i>	
11:00-12:00	Extended Reality and Artificial Intelligence: Innovations for Medicine and Wellbeing <i>Prof.Lucio Tommaso De Paolis, Salento, Italy</i>	
12:00-13:00	Time for Lunch	
13:00-14:00	Introduction to BIOMEDIX Summer School, Aims, Tasks and Project <i>Mr.Marks Gorohovs, RTU, Latvia</i> <i>Prof.Razvan Pacurar, TUCN, Romania</i>	Ķīpsalas 6B, Room 318
14:00-15:00	Common Diseases of the Cervical Spine and Treatment Options <i>Dr. Edgars Svolaks, Vidzeme Hospital, Latvia</i>	
15:00-17:00	Laboratory Visit: Biomedical and Nanoengineering Laboratory, MATTI <i>Prof. Yuri Dekhtyar, Mr. Marks Gorohovs, Mr.Māris Šinka</i>	Paula Valdena 1
19:00-21:00	Social event walking tour in Riga <i>Prof. Yuri Dekhtyar, Mr. Hermanis Sorokins, Mr. Marks Gorohovs</i>	Meeting point: Pils laukums (in front of Riga Castle)

Tuesday 21.07.2026.		
9:00-10:30	Laboratory Visit: RSU MITC <i>Ms. Olga Posrednikova, RSU, Latvia</i>	RSU MITC, Anniņmuižas bulvāris 26A, Room 147A/B
10:30-11:30	3D printing and bioprinting technologies for medical applications <i>Prof.Razvan Pacurar, TUCN, Romania</i>	
11:30-13:30	Materialise Presentation & MIMICS Training <i>Justine Michel, Materialize NV, Belgium</i>	
13:30-14:30	Time for Lunch	
14:30-16:00	Development of the project (Segmentation)	

Agenda BIOMEDIX Summer School

Wednesday 22.07.2026.		
9:00-10:30	Low-budget anatomical models imitating soft tissue - the magic of combining Vacuum Casting and FDM printing <i>Magdalena Zukowska, PUT, Poland</i>	RSU MITC, Anniņmuižas bulvāris 26A, Room 147A/B
10:30-12:00	Direct printing of silicones in the medical sector - advantages and challenges <i>Raphael Lichtnecker, ViscoTec, Germany</i>	
12:00-13:00	Time for Lunch	
13:00-16:00	Development of the project (STL preparations)	

Thursday 23.07.2026.		
9:00-10:00	Implementation of Quality Management Systems for POC Manufacturing of Medical Devices <i>Prof. Joaquin Roca González, UPCT, Spain</i>	Ķīpsalas 6B, Room 318
10:00-11:00	Engineering the Future of Regenerative Medicine: Bioactive Materials, Experimental Models, and Regenerative Strategies <i>Sanja Stojanović, NIS, Serbia</i>	
11:00-13:00	Development of the project (Final adjustments, slicing, printing)	
13:00-14:00	Time for Lunch	
14:00-14:30	Joint Photo	Ķīpsalas 6B Entrance

Friday 24.07.2026.		
9:00-12:00	NLL Project Defence	Zunda krastmala 8, Room 107
12:00-12:30	Break	
13:00-17:00	Development of the projects (print post-processing, silicone casting)	Ķīpsalas 6B, Room 318

On-Site session (Second week)

Monday 27.07.2026.		
9:00-10:00	Rational Design of Bionanocomposites for Tissue Engineering via additive 3D Printing Technologies. <i>Prof. Ulviye Bunyatova, Baskent University, Turkey</i>	Ķīpsalas 6B, Room 318
10:00-11:00	Computer-Aided Design in the Linux Ecosystem <i>Prof. Sven Maricic, UNIPU, Croatia</i>	
11:00-13:00	Development of the projects (demoulding, assembly of the phantom)	
13:00-14:00	Time for Lunch	
14:00-17:00	Development of the projects (assembly of the phantom)	Ķīpsalas 6B, Room 318

Agenda BIOMEDIX Summer School

Tuesday 28.07.2026.		
9:00-10:00	Physical Principles of Medical Imaging <i>Prof. Yuri Dekhtyar, RTU, Latvia</i>	Ķīpsalas 6B, Room 318
10:00-13:00	Development of the projects (Validation – US, X-Ray, CT)	Ķīpsalas 6B - Room 307
13:00-14:00	Time for Lunch	
14:30-16:00	Development of the projects (Validation – US, X-Ray, CT)	Ķīpsalas 6B - Room 307
Wednesday 29.07.2026.		
9:00-17:00	Development of the projects (Report/presentations preparations)	Ķīpsalas 6B, Room 318
Thursday 30.07.2026.		
9:00-12:00	Project Defence	Ķīpsalas 6B, Room 318
12:00-12:30	Break	
12:30-13:00	Certificate Award Ceremony and Closing of the Summer School <i>Prof. Yuri Dekhtyar, Marks Gorohovs</i>	