ERASMUS+
BLENDED INTENSIVE PROGRAMME
ON ASSISTIVE TECHNOLOGY IN MEDICINE

VIRTUAL PART (ONLINE)
7, 14 & 21 MARCH 2024

PHYSICAL PART (ONSITE)
8 – 12 APRIL 2024

TECHNICAL UNIVERSITY OF LIBEREC
INSTITUTE FOR CLINICAL AND EXPERIMENTAL MEDICINE, PRAGUE

ORGANISING INSTITUTION

TECHNICAL UNIVERSITY OF LIBEREC, CZECH REPUBLIC
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UNIVERSITY OF COOPERATIVE EDUCATION, BAUTZEN, GERMANY
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GUEST UNIVERSITY

UNIVERSITY OF BRISTOL, UNITED KINGDOM
SCHOOL OF ENGINEERING MATHEMATICS AND TECHNOLOGY
AND BRISTOL ROBOTICS LABORATORY

KEYNOTE SPEAKER

(GB) DR. ANTONIA TZEMANAKI
- SURGICAL NEEDLE STEERING

MAIN SPEAKERS/LECTURERS

(DE) PROF. DR.-ING. DANIEL RAABE
- SURGICAL ROBOTICS
- ROBOTICS ASSISTED MINIMALLY INVASIVE SURGERY

(DE) DIPL.-ING. MAHDI ABDEL HAQ
- ROBOTICS ASSISTED MINIMALLY INVASIVE SURGERY

(DE) PROF. DR. ALEXANDER FLORY
- ROBOTICS ASSISTED MINIMALLY INVASIVE SURGERY

(SK) PROF. ING. LADISLAV JANOUSEK, PH.D.
- ELECTROMAGNETIC BIOCOMPATIBILITY

(SK) ING. MAROS SMONDRK, PH.D.
- ELECTROMAGNETIC BIOCOMPATIBILITY

(CZ) DOC. ING. DANIEL JIRAK, PH.D.
- BIOMEDICAL IMAGE PROCESSING

(CZ) DOC. ING. JOSEF CERNOHORSKY, PH.D.
- INTRODUCTION TO MOTION CONTROL FOR MEDICAL DEVICES

(CZ) ING. JAN KOPRNICKY, PH.D.
- ELECTROMYOGRAPHY CONTROL OF ROBOTIC SYSTEMS

(CZ) ING. TOMAS SOUCEK
- ELECTROMYOGRAPHY CONTROL OF ROBOTIC SYSTEMS

5 WORKSHOPS IN 5 DAYS

- MODELLING A NEEDLE INSERTING ROBOT IN MATLAB
- ELECTROMAGNETIC FIELD – HUMAN BODY INTERACTION NUMERICAL MODELLING
- MR IMAGING – DATA ACQUIRING AND POSTPROCESSING
- PROGRAMMING MEDICAL DEVICES MOTION CONTROL
- ELECTROMYOGRAPHY SIGNAL ACQUISITION AND PROCESSING FOR ASSISTIVE ROBOTIC SYSTEMS CONTROL