Programme for Master Thesis Presentation and Opposition
Degree Project in Technology and Health, Second Cycle, HL207X
18 January 2021

https://kth-se.zoom.us/j/66724704616
Examiner: Sebastiaan Meijer

**Time: 9:00-9:45**
**Student:** Ilja Leiko
**Title:** Improving Type 1 Diabetes Patients’ Quality of Life Through Data Collection
**Main supervisor:** Adam Darwich
**Opponent student:** Adam Smith

**Time: 10:00-10:45**
**Student:** Tanmina Azad
**Title:** Promotion of Physical Activities of Night Shift Nurses with Gamification. A Study of Investigating of Physical Activity among Night Shift Nurses and Promoting Gamification
**Supervisor:** Maksims Kornevs
**Opponent student:** Ilja Leiko

**Time: 11:00-11:45**
**Student:** Adam Smith
**Title:** Reduce Stress among Nurses through Gamification. Finding Stress Factors among Nurses and Reducing them through Gamification
**Supervisor:** Maksims Kornevs
**Opponent student:** Tanmina Azad
Programme for Master Thesis Presentation and Opposition
Degree Project in Medical Engineering, Second Cycle, HL205X
18 January 2021

https://kth-se.zoom.us/j/65067539009

Time: 12:00-12:45
Student: Ludivine Amathieu
Title: A Light-Activated Adhesive to Fix Meshes in Intraperitoneal Laparoscopic Ventral Hernia Repair: Light Activation Efficiency and Fixation Strength Assessments
Supervisor: Elisa Bitton
Opponent student: Federica Aresu
Reviewer: Tobias Nyberg

Time: 13:00-13:45
Student: Balázs Szabó
Title: High density EMG based estimation of lower limb muscle characteristics using feature extraction
Supervisor: Ruoli Wang
Opponent student: Ludivine Amathieu
Reviewer: Svein Kleiven

Time: 14:00-14:45
Student: Ruoyu Huang
Title: 3D Freehand Ultrasonography in quantifying muscle morphological parameteres in lower extremity
Supervisor: Ruoli Wang
Opponent student: Balázs Szabó
Reviewer: Svein Kleiven

Time: 15:00-15:45
Student: Federica Aresu
Title: High density sEMG and bipolar sEMG based estimation and comparison of ankle joint kinetics using machine learning
Supervisor: Ruoli Wang
Opponent student: Ruoyu Huang
Reviewer: Svein Kleiven
Programme for Master Thesis Presentation and Opposition
Degree Project in Medical Engineering, Second Cycle, HL205X
19 January 2021

https://kth-se.zoom.us/j/68292557813

Time: 12:00-12:45
Student: Claire Diaz
Title: Combination of IMU and EMG for object mass estimation using machine learning and musculoskeletal modeling
Supervisor: Joris Voerman
Opponent student: Libo Xu
Reviewer: Jonas Willén

Time: 13:00-13:45
Student: Libo Xu
Title: GAN-based Automatic Segmentation of thoracic aorta from non-contrast-enhanced CT images
Supervisor: Chunliang Wang
Opponent student: Claire Diaz
Reviewer: Örjan Smedby

Time: 14:00-14:45
Student: Evgenija Kravchenko
Title: Association between cognitive measures, global brain surface area, genetics, and screen-time in young adolescents. Estimation of causal inference with help of machine learning
Supervisor: Bruno Sauce
Opponent student: Libo Xu
Reviewer: Xiaogai Li