Technology and Natural Sciences Doctoral Programme (TNS-DP)

Coordinator, D.Sc.(Tech) Riitta Kamula
Kvantum Institute
Technology and Natural Sciences Doctoral Program
University of Oulu
Doctoral training at the University of Oulu

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UniOGS
Dean and management group

DTC HS
Doctoral degree programs
- Economics and business administration
- Humanities
- Educational sciences
- Geography

HS DP
Eudaimonia

DTC ITEE
Doctoral degree programs
- Computer science and engineering
- Electrical engineering
- Information processing science
- Wireless communications

ITEE DP
InfoTech Oulu

DTC TNS
Doctoral degree programs
- Biotechnology
- Chemistry
- Geosciences, mining engineering and mineral processing
- Geosciences
- Physics and astronomy
- Industrial engineering and management
- Mechanical engineering
- Process and environmental engineering

TNS DP
Kvantum

DTC HBS
Doctoral degree programs
- Biochemistry and molecular medicine
- Dentistry
- Health sciences
- Medicine
- Biology

HBS DP
Biocenter Oulu
Actors

• Director Aulikki Herneoja, D.Sc.(Tech)
• Coordinator Riitta Kamula, D.Sc.(Tech), riitta.kamula at oulu.fi

• Related focus institute: Kvantum Institute
  • Director Prof. Björn Klöve (Faculty of Technology)

• Related focus areas of research 2017-2020:
  • Sustainable materials and systems
  • Changing climate and northern environment
Kvantum Institute

• Tasks include e.g.
  • Promotion of multidisciplinary research and enhancing the quality of research in the two strategic focus areas of research during 2017-2020:
    - Sustainable materials and systems
    - Changing climate and northern environment
  • Coordination of the Technology and Natural Sciences Doctoral Program
  • Web page: http://www.oulu.fi/kvantum
  • Started on 2018; successor of a research institute with a long history in research, research project coordination, and multidisciplinary doctoral training in the fields of natural sciences and technology
TNS-DP Activities

• Supports field specific courses arranged by the research units, research groups etc.
  • Course calender: http://www.oulu.fi/uniogs/node/45750
  • Call for course proposals: https://www.oulu.fi/uniogs/node/46189

• TNS-DP courses (some still under planning; partly in cooperation):
  • Research plan seminars; twice a year: in spring term often stand-alone, in autumn term in co-operation with Kvantum Institute
  • Methodology courses, Funding infos, Doctoral trains

• TNS-DP communications
  • Web pages: http://www.oulu.fi/uniogs/dp/tnsdp
  • TNS-DP doctoral student list – NB: please keep your webOodi contact information updated!
  • Facebook: https://www.facebook.com/AuroraDoctoralProgram/
  • Dissertations – past and future: http://www.oulu.fi/uniogs/node/49531 (currently not up-to-date)
Confirmed courses and events 2020

Spring term 2020

• 13.-14.2.2020 Conducting systematic literature reviews. **NB: Deadline for registrations is Feb. 7, 2020.** University of Oulu, 2 cr

• 2.-3.4.2020 Kvantum Science Days 2020: Capacity building in the Arctic (**NB: applicable for research plan seminar course**). University of Oulu, 1-2 cr

• **UniOGS Arctic Attitude Winter School 2020** courses:
  9.-13.3.2020 Simulation and modelling complex socio-technical systems
  9.-13.3.2020 Zero-to-One innovation: How does IT happen?
  16.-20.3.2020 Statistical methods in medical research
  30.3.-3.4.2020 Advanced Quantitative Research Methods in Human Sciences
  30.3.-3.4.2020 Minimalism in Robotics: From Sensing to Tracking to Autonomy
  30.3.-3.4.2020 Technostress as a Research Area

• 14.4.-7.5.2020 Impact Camp 2020 Spring. University of Oulu, 3 cr

• May 2020 Cultivation and metabolism of anaerobic and oligo-trophic microorganisms. University of Oulu, 3 cr

Autumn term 2020

• 1.-2.12.2020 Environmental change and sustainable resource use – Kvantum Science Days 2020 (**NB: applicable for research plan seminar course**). University of Oulu, 1-2 cr
TNS-DP Research plan seminar possibility twice a year

• Multidisciplinary seminars:
  • Spring term: often one day; when possible in connection with a related seminar
  • Autumn term: in connection with a Kvantum seminar with varying theme

• Researcher presentations by doctoral candidates and other researchers; open for all fields

• Keynotes, workshop on presenting

• Registrations, call for abstracts, course description and program at the web pages (links from the TNS-DP calendar of events)
TNS-DP Research Plan Seminar, 1-2 cr

• Provides tools for active participation in scientific conferences, introduces multidisciplinary approach and research items, and provides possibilities for networking

• Includes preparation and submission of an abstract, public presentation of the research in a form of an oral or a poster presentation, and acting as an opponent in the seminar; workshop on presenting

• Supervisors of the presenting doctoral candidates are invited

• The number of granted credits depends on the amount of participation and additional work

• Course description and instructions: http://www.oulu.fi/uniogs/node/48665
Funded doctoral student positions

All the funded positions (over six months) with more information are announced at

http://www.oulu.fi/university/jobs