



Graduate School of Health at Karlstad University offers a Doctoral Course in

# RESEARCH METHODOLOGY IN HEALTH SERVICE RESEARCH

## 7,5 ECTS

We are happy to offer 12 places at this digital course for students conducting a PhD within the field of Health Sciences. The course will run between April and September 2021.

### Target group and requirement

Eligible are students admitted to a doctoral programme in Health Sciences or equivalent. The course is primarily for PhD students at Karlstad University, secondly for PhD students admitted to other universities, and thirdly for students with a Master Degree.

### Course content

Instruction is in the form of lectures and seminars and comprises the following components:

- Experimental designs: Cluster, pragmatic, explanatory randomised controlled trials and factorial designs such as the sequential multiple-assignment randomised trial (SMART) and the micro-randomized trial (MRT)
- Multiphase Optimization Strategy - MOST
- SMART and adaptive interventions
- Quasi experimental designs
- Observational study designs
- Systematic literature reviews: overview of reviews, scoping reviews, meta-synthesis and mixed method reviews
- Intervention development and frameworks for complex interventions
- Research ethical principles for literature study designs
- Multimethod versus mixed method

### Learning outcomes

1. differentiate and critically analyse designs commonly applied within health service research
2. Problematise the development, testing and evaluation of complex interventions within health service research and their relation to different designs and frameworks,
3. Identify and formulate a research problem of importance for health service research and critically argue for a design suitable to answer it, and
4. Develop a study protocol for publication in accordance with relevant reporting guidelines for chosen study design.

### Information

The course will be digital and combine synchronous- and asynchronous learning models reinforced by the learning platform Canvas and Zoom. Learning strategies such as jigsaw, 3-2-1 exercises and guided notes will be implemented to support an active and engaged digital learning situation.

### Preliminary schedule:

The course is offered on 50% and will run between the 12<sup>th</sup> April until the 17<sup>th</sup> September. Joint sessions will be conducted every second week (Thursdays) for about 3 – 5 hours.

### Application

Please apply no later than the 31<sup>st</sup> March to:  
Emily.Bergersen@kau.se

### Contact

Course coordinator Emily Bergersen and Edith Roth Gjevjon, Edith.Gjevjon@LDH.no  
Course lead Professor Gunilla Borglin,  
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