

KURSPLAN

Advanced Research Methods in Supply Chain Operations Management, 7,5 högskolepoäng

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Kurskod:	TARR21	Utbildningsnivå:	Avancerad nivå
Fastställd av:	VD 2021-03-01	Utbildningsområde:	Tekniska området
Reviderad av:	Utbildningschef 2024-08-08	Ämnesgrupp:	IE1
Gäller fr.o.m.:	2024-08-19	Fördjupning:	A1N
Version:	3	Huvudområde:	Produktionssystem

Lärandemål

After a successful course, the student shall

Kunskap och förståelse

- display knowledge of central concepts in research philosophy and science
- display knowledge of central concepts in research methods
- demonstrate comprehension of research-methodology knowledge within supply chain operations management (SCOM)

Färdighet och förmåga

- demonstrate skills needed to participate in research and engineering-development projects
- demonstrate the ability to independently design SCOM research
- demonstrate the ability to present research projects in written and oral form

Värderingsförmåga och förhållningssätt

- demonstrate the ability to make research decisions within SCOM with regard to scientific aspects, while considering ethical considerations for research and engineering-development projects
- demonstrate the ability to identify needs for further knowledge and take responsibility for his/her own knowledge development
- demonstrate an understanding of the opportunities and limitations of science and the role of science in society

Innehåll

The main goal is to prepare the student to perform research on graduate and post-graduate levels. The student should be able to independently design, execute and evaluate a smaller research project, and be able to participate in a larger research project, within SCOM. The course aims to make the student familiar with the philosophical and methodological underpinnings of the SCOM field. To reflect SCOM, both quantitative and qualitative research methods will be

included.

The course includes all stages of a research project, from definition of the purpose, to the presentations of the results. This scope includes activities such as literature review, considerations of relevance, preparation, planning and execution of a study, presenting implications and conclusions, and considering the study from a philosophical standpoint.

The course includes seminars and an project and:

- Research ethics
- Report writing and reference management
- Philosophy of science
- Research methodology
- Research methods
- Data types
- Data collection
- Data interpretation
- Analysis
- Research design

Undervisningsformer

Seminars, lectures, exercises, tutoring.

Undervisningen bedrivs på engelska.

Förkunskapskrav

The applicant must hold the minimum of a bachelor's degree (i.e the equivalent of 180 ECTS credits at an accredited university) in Engineering or Technology. The bachelor's degree should comprise a minimum of 15 credits in mathematics. Proof of English proficiency is required.

Examination och betyg

Kursen bedöms med betygen Underkänd eller Godkänd.

The final grade will only be issued after satisfactory completion of all assessments.

Poängregistrering av examinationen för kursen sker enligt följande system:

Examinationsmoment	Omfattning	Betyg
Projekt	5 hp	U/G
Inlämningsuppgifter	2,5 hp	U/G

Kurslitteratur

Kurslitteraturen fastställs två månader innan kursstart.

Titel: Research methodology: for engineers and other problem-solvers

Författare: Säfsten, K.; Gustavsson, M. (2020)

Förlag: Studentlitteratur

ISBN: 9789144122304 (print)