

National learning outcomes for a doctoral degree

Knowledge and understanding

- demonstrate broad knowledge within – and a systematic understanding of – the research field, and in-depth and current specialist knowledge within a limited part of the research field, and
- demonstrate familiarity with scientific methods in general and with the specific research field's methods in particular.

Skills and abilities

For a doctoral degree, the doctoral student must

- demonstrate a capacity for scientific analysis and synthesis, and for independent critical review and assessment of new and complex phenomena, issues and situations,
- demonstrate an ability to identify and formulate issues – critically, independently, creatively and with scientific accuracy – and to plan and, using appropriate methods, carry out research and other advanced tasks within specified time limits, and to evaluate and review this work,
- with a thesis, demonstrate the ability to make a significant contribution towards the development of knowledge through his or her own research,
- demonstrate an ability – in both national and international contexts, both orally and in writing, and in an authoritative manner – to present and discuss research and research findings in dialogue with the scientific community and with society as a whole,
- demonstrate an ability to identify the need for additional knowledge, and
- demonstrate the conditions – both within research and education and in other advanced professional contexts – to contribute towards the development of society and to support other people's learning.

Judgement and approach

For a doctoral degree, the doctoral student must

- demonstrate intellectual independence and scientific integrity, and the ability to make research ethics assessments, and
- demonstrate a deeper insight into the potential and limitations of science, its role in society and people's responsibility for how it is used.