

Theoretical Course for the Use of Animals in Research for masterstudents and field assistants

ONLINE COURSE April 1-May 30, 2025



WELCOME

- Online course
- INN Evenstad and NINA
- Presentations in English
- Exam; Multiple-choice
English or Norwegian



- Course leader
 - Marianne W. Furnes
 - marianne.furnes@nina.no



Lecturers



Andrea Miller
Associate professor
INN



Børge Moe
Senior researcher
PMSK
Animal welfare Unit
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Jon Martin Arnemo
Professor
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Finn Økland
Senior Researcher
NINA



Kristian Hoel
PMSK
Animal Welfare Unit
Veterinary Institute

ONLINE COURSE

- Designed as a short course
- Meant for project participants who will be handling research animals under a qualified researcher's supervision with full course background (equivalent to former FELASA C)
- Aim: provide sufficient theoretical background to meet the requirements of Norway's regulation for use of animals in research
- The theoretical course must be supplemented by practical training in the field

When?

- The course can be taken any time between April 1 and May 30, 2025
- Estimated to take around 8-10 hours:
 - 1) Video lectures
 - 2) Exam
- Help: Resources and supplementary info - course webpage
- Questions; contact Miller or Furnes

Theoretical course for the Use of Animals in Research - Why?

- Required by law
- EU laws and regulations
- Norwegian laws and regulations



DIRECTIVE 2010/63/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
of 22 September 2010
on the protection of animals used for scientific purposes



Course content

Video and pdf

- The provisions of the law
- 2. Ethics related to the relationship between humans and animals, the intrinsic value of life and the arguments for and against the use of animals for scientific purposes
- 3. Replacement, reduction and refinement (3 R's)
- 4. Design of experiments with reference to the 3 R's.
- 5. Quality assurance, deviation handling and notification (NINA system)
- 6. Animal behavior- general introduction to fear, pain, stress and other impacts for/on animals
- 7. Anesthesia, pain relief and euthanasia
- 8. Use of humane endpoints
- 9. Animal health work and hygiene

Exam (multiple-Choice)

- Open book exam (all resources allowed)
- Must pass the exam to get a certificate
 - ▶ 70% correct answers
 - ▶ All questions based on the lectures
 - ▶ The course can be taken any time between April 1 and May 30. The exam may be taken any time April 28 and May 30.

Contact

- Course leader

Marianne W. Furnes; marianne.furnes@nina.no

Lecturers, see the course web page

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GOOD LUCK WITH THE COURSE !!

Cooperation and expertise for a sustainable future