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# PhD-program:

# [PROGRAM CODE] [PROGRAM TITLE]

## Any collaborative faculty (s):

* Include national (and international) PhD schools, e.g. PHET: National Research School in Nanotechnology for Microsystem (NanoNetwork); PHTELE: Research School of Computer and Information Security (COINS).

 […]

## Study program learning outcomes (educational objectives):

## Reproduced in its entirety (knowledge-skill-general competence). Check that the description provided on the web page is consistent with the study catalogue and what is to be reported (copy-paste the respective texts):

* + <http://www.ntnu.edu/studies/phet>
	+ <http://www.ntnu.edu/studies/phelkt>
	+ <http://www.ntnu.edu/studies/phit>
	+ <http://www.ntnu.edu/studies/phma>
	+ <http://www.ntnu.edu/studies/phtk>
	+ <http://www.ntnu.edu/studies/phtele>

The data on which this report builds:

* An indication of who provides and receives the data is set in brackets for each point
* The course reports
	+ The course reports from completed PhD-courses for Spring 2013 [Teacher - Department-Teacher]
	+ If any course from a different department (and faculty) as well as courses gives at PhD Schools are of central meaning to the study program, reports from these courses are also collected. [Department]
* Earlier program reports, if available evaluation memo from last/yearly revision [Department]
* Yearly report from the PhD-candidates and main supervisor, incl. aggregated data [Faculty sends Department]
* Publishing activity at the Department [Faculty sends Department]
* Report from mid-way evaluation [Department]
	+ List of completed mid-way evaluations: Candidate, Thesis title, Date [Department]
* Assessment from PhD evaluation committees [Department]
	+ List of completed disputations: Candidate, Thesis Title, Date [Faculty – Department]
* Recruitment and dropout
	+ Admission (Total number and distribution Norwegian, European, world [Faculty]
	+ Termination (number not completed disputation) [Faculty]
	+ Completed end-conversation [Department]
* Any data for the PhD-study provided from Rector (Implementation, Dropout, Percent failed, Quality of admission, Learning environment evaluation, Candidate evaluation, Employer evaluation etc.)

## The study program coordinator’s assessment of the quality of the study program:

* The coordinator’s assessment of the quality of the study program is based on the data provided above. Give an assessment of whether the study program should undergo a thorough evaluation.
* In the subparagraphs several elements are listed which should be taken into consideration in the quality assessment of a study program. It is not expected specific reporting on each of these subparagraphs, but that they form the basis for the report along with the data provided above. The elements listed follows the "measures" that formed the basis for the Qualifications Framework (KRV) and IME’s monitoring of NTNU’s Quality in the PhD education: common standards and Manual (FU-SAK 7/2013). Several factors are highlighted in the annual report from the supervisor and PhD candidate, and are marked \* [Faculty sends Department].

Recruitment

* Access to (number of applications to vacancies)/recruitment of good applicants (nationally/internationally) to PhD positions.
* What assessment is generally accepted by the academic community and suggested supervisor (s) with regards to expertise, quality and capacity to accept and bring forth new PhD candidates within the stipulated time.
* Recruitment (admission) and dropout, any termination follow-up conversations.

Courses in the academic training

* From course reports
* Aggregated data on the educational component in the annual reporting, "the quality of the training component is high", "The educational component is relevant to the thesis", "training component gives me the breadth of my expertise." \*

Supervision

* Implementation of supervision activities acc. KRV. \*
* Number / proportion of cases where the candidate and / or supervisor stated that the supervision do not work satisfactorily. \*
* Supervisors participating in supervisor training seminars. Internal meetings / discussions regarding supervision.

Internationalization of candidates

* Stay at another university \*
* Participation in international networks / projects\*
* Attendance at conferences\*

Learning environment

* What is done to offer candidates good working conditions in an attractive and including environment? Professional and social?
* Activity/participation in group discussions and seminars. Scientific as well as activities related to innovation and industrial development. \*
* Presentation of own work. \*

Scientific level of research work

* Assessment from PhD assessment committees [Faculty sends Department]
* Own assessment from committees at the Department on approval for disputation and mid-way evaluation.
* Publishing activity at the Department in relation to the PhD program.
* Any comments on “intake quality” of candidate?

Qualitative assessment of achievement of learning objectives

* Supervisors assessment of candidates who have just or are about to end (from Annual Report)
* Summary and assessment of previous assessment elements in the context of the implementation of KRV (matrix learning x measures).

Need for evaluation

* Give an assessment of whether the study program should undergo a more thorough evaluation.

## Action plan

* Measures with responsibilities to follow up and deadline for completion of such.