Kursnamn Scientific Best Practice – The art and importance of writing the logbook
Name of course

Omfattning (högskolepoäng) 2 HP
ECTS credits

Tidsperiod Period 2
Course period

Antal platser 20 participants
Maximum number of participants

Undervisningsspråk English
Language of instruction

Kursens syfte samt motivering till varför den bör vara fakultetsgemensam (max 150 ord)
Aim of course and motivation as to why it should be considered “multidisciplinary” to the extent that the faculty should allocate extra financing.

The aim of this course is to empower the students with the tools for proper documenting their research work whether experimental (i.e. in the laboratory or using simulation tools) or theoretical. This can be in the form of a paper and/or electronic individual or group logbook. The course is motivated by the need to provide the students with one of the most important tools in their career for dealing with their work results: i) traceability and reproducibility of the results, ii) intellectual property rights (authorship and patent applications), iii) proof against scientific misconduct. This course makes available to the student a large body of literature and experience drawn from various fields. Depending on the participants background and interests, the course will emphasize common requirements for logbook keeping as well as discuss issues specific to the subject and/or environment they work in. This course is therefore multidisciplinary and of interest for students across several disciplines.

Kursinnehåll, kursens uppläggnings samt examinationsform (max 150 ord)
Contents, study format and form of examination

Lectures on the theoretical and practical aspects of logbook keeping: key elements, role of the logbook in collaborative activities, the electronic logbook and its advantages and disadvantages with the traditional paper notebook, management of logbooks in research groups and institutions, from the logbook to the scientific publication.

Group discussions and reflection over intellectual property and ethical issues (study-case based) pertaining to scientific ownership and the role of the logbook.

Individual and group practical activity: during a simple experiment, students will create an individual and a group logbook which will be discussed in group and peer-reviewed.

Guest lectures from industry a Uppsala Innovation Centre.

The examination is based on: i) attendance to all lectures and group activities and discussions; ii) the individual logbook produced during the course; iii) a short individual and personal reflection on the pre-course laboratory logbooks (if not available on the one written during the course).
Målgrupp/er (specifiera ämnen/inriktningar) samt rekommenderade förkunskaper
Target group/s (specify, if possible, subject/specialization) and recommended background
1st year PhD students (and young post-docs) of the whole faculty. PhD students from other universities are also welcome. No particular background is required but it would be useful for the participants to bring their own laboratory logbooks from undergraduate laboratories.

Huvudansvarig institution Department of Physics and Astronomy
Department with main responsibility

Andra inblandade institutioner (specifiera hur).
Other departments involved (specify how).
None

Kontaktperson/er (namn, e-postadress)
Contact person (name, e-mail address)
Marco Cecconello
marco.ceconello@physics.uu.se

Anmälan om kursdeltagande till
Application from course participants should be sent to
Marco Cecconello
marco.ceconello@physics.uu.se

Senast 4 weeks before the start of the course
Not later than

Kursen har tidigare givits (ange när) med deltagare (ange antal)
The course has previously been given (specify when and number of participants)