



FBB3320 Kunskapsgenerering i doktorsutbildningsprocessen 4,0 hp

Knowledge Generation in the PhD Education Process

När kurs inte längre ges har student möjlighet att examineras under ytterligare två läsår.

Fastställande

Kursplan för FBB3320 gäller från och med VT13

Betygsskala

Utbildningsnivå

Forskarnivå

Särskild behörighet

The student should be enrolled in a PhD program and have some basic understanding in biotechnology that allows reading and understanding of biotech research literature from a research methodology

Undervisningspråk

Undervisningspråk anges i kurstillfällesinformationen i kurs- och programkatalogen.

Lärandemål

The goal of this course is give an understanding of how knowledge is generated to support the professional performance of an individual researcher.

Knowledge and understanding

- know the particular goals of the PhD training program to which he/she are enrolled
- be familiar with the elements of general research methodology and their interdependence
- understand the academic requirements with regard to the level of research problems and research methods
- understand the concept of tacit knowledge and its implications In the PhD profession
- have a basic understanding of elements of critical thinking and creativity
- know about development phases in the PhD process
- know about different leader styles in the PhD process (supervisor, student)
- understand how differences in cultural background and individuality affect group dynamics

Skills and ability

- be able to critically review the different elements of formulating: the state-of-the-art in a research area, a research problem, a hypothesis, a research strategy, results interpretation and discussion

Assess and form an attitude

- be able to critically evaluate scientific postulations, questions and texts and express the evaluation to a scientific community
- be able to make a self-assessment of his/her individual progress towards the PhD goals
- be able to perform a professional assessment of a research paper manuscript with respect to its possibility for publishing in accordance to best practice

Kursinnehåll

The course takes place once a week (2 hours, office hours) over one semester. Six lectures and six seminars make up the course. Lectures are chosen to get deeper into the theoretical background of some issues of knowledge generation and seminars are used to actively look at and discuss different parts of the research methodology in a dialogue between students and supervisors.

Kurslitteratur

Published research papers and manuscripts.

Bo Göransson; The practical intellect. Santérus academic press, Sweden.

Literature distributed during the course

Examination

Examinator beslutar, baserat på rekommendation från KTH:s handläggare av stöd till studenter med funktionsnedsättning, om eventuell anpassad examination för studenter med dokumenterad, varaktig funktionsnedsättning.

Examinator får medge annan examinationsform vid omexamination av enstaka studenter.

The mark for the course will be pass/fail. In order to pass the course the following is needed:

- active participation in all lectures and seminars
- read, comment and discuss all research papers dealt with in the course
- presentation of and/or opposition of one research paper
- bring requested material to the discussions upon request
- reading of specific written material
- active participation in the Review exercise

Etiskt förhållningssätt

- Vid grupparbete har alla i gruppen ansvar för gruppens arbete.
- Vid examination ska varje student ärligt redovisa hjälp som erhållits och källor som använts.
- Vid muntlig examination ska varje student kunna redogöra för hela uppgiften och hela lösningen.