Informatics and Research

- **Information systems (IS, Informatics, Applied IT)**
  - IS is a discipline concerned with the development and use of information systems by individuals, groups, organizations, and society, where usually those information systems involve the use of information technology.

- **Computing (Computer Science)**
  - Computing is a discipline concerned with the development and use of computer-based products, but it tends to concentrate primarily on the technological rather than the social aspects of information systems.

- **Research**
  - A planned investigation driven by a research question, structured by a research design, that ends up with conclusions based on evidence and arguments, presented in a way that makes it possible for peers to criticize and/or use the research (report, thesis, paper, article).

Literature example

- **Purpose**
  - The purpose with the ‘Thesis Course in Informatics’
    - is to independently carry out a major scientific endeavor in relation to the subject Informatics in order to accomplish what is needed to be considered a master or a bachelor.

  - This means:
    - to independently integrate and use knowledge obtained from previous informatics courses to solve problems identified, by using a research design

Structure

- Bachelor 15hp (spring thesis) starts in the end March
- Seminars are held in May
- Examination in June
- Tutors are assigned in March
- Students have the right to a tutor during two semesters
- Extra examinations are given in August and January 2016
- Students have the right to five examinations
- The formal end of the course is January 2016

A Thesis in Informatics...

- ...is not a transcript of previous thesis or other publications!
- A thesis is not an application or a system that is developed for a company or an organization.
- A thesis is not systems analysis or a business model.
- A thesis presents NEW and grounded knowledge developed using a research design
- A thesis is written in groups of two students
- A thesis often cover 60-100 pages.
Criteria for evaluating Thesis Works in Informatics (Established Research Values)

- **Relevance;**
  - in terms of choice of problem/subject and treatment of subject.

- **Originality and clarity**
  - in the knowledge contribution and in arguments.

- **Creativity;**
  - in terms of knowledge contribution and treatment of subject.

- **Scientific grounding;**
  - in terms of relevant connection to existing theory and research.

- **Generalization;**
  - in terms of the value that the new knowledge has beyond the study.

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Criteria for evaluating Thesis Works in Informatics (Established Research Values)

- **Congruence;**
  - in terms of different parts in the thesis.

- **Research methods**
  - in terms of design and arguments for the design.

- **Research methods**
  - in terms of implementation of the research design during the study.

- **Presentation;**
  - in terms of clearness concerning the structure of the thesis and the accuracy in the language in the thesis.

- **Cumulativity;**
  - in terms of the ability build on previously developed knowledge.

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Directions and advice

Important to read and understand the content in the document: "To Perform a Degree Project within Informatics at the School of Business and IT – Directions and advice”.

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Thesis Process 15/30 hp (fall thesis)

- Information meeting / Course kick-off December
- Registration of the degree project Deadline: 2015-02-xx (February)
- Supervisor assignment Middle of March
- Planning report and research method course January - March
- Supervision and thesis work April - June, with final seminars in mid-May
- 30 days before final seminars: Detail information sent out about the course will end
- Reviewers recommendation to submit thesis for examination will be provided after the final seminar
- Final push to complete the thesis based on the comments from the final seminar
- Submission of thesis for examination first week of June
- Examination in writing provided in end of June
- Submission of final manuscript for evaluation (Urkund), grading and publication (BADA)
- Extra examinations is provided in August and January 2016
- Course ends in January 2016; this means that the supervisor assignment terminates.
Next step

- An email will be sent out in January/February with instructions how to start the registration of the degree project.
- Swedish: http://www.hb.se/hit/inf-examen

Questions

Examples – thesis subjects (2014)

- Green IS - a systematic literature review
- Säkerhetshantering inom molnet
- Användaracceptansen vid IT-förändringsarbete
- Zachmans ramverk för ökade vinster i verksamheter
- Hemelektronikbranschens anpassning till mobil e-handeln
- Molnbaserade affärssystem
- Flermetodersforskning - ger det en bredare bild av användbarhet på e-handelssidor?
- ITIL i verksamheter
- Bristande kvalitet i användbarhetskrav
- Spelifiering för affärsnytta
- CRM-system - en byggsten för kundlojalitet
- Unity vs. Monogame - a SWOT analysis on which is best for today (spelmotorer)

Examples – thesis subjects (2013)

- Kryptologi
- Designprinciper för kommunikation
- Problembaserade metoder
- Bring Your Own Device
- IT-investeringar och affärsnytta
- Kravhantering i agil SU
- Near Field Communication
- Designprinciper för e-handel
- IT-outsourcing to China
- Användarcentrerad SU
- Semantiska webben

Contact...

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