Slide 1

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Slide 2

FACULTEIT INGENIEURSWETENSCHAPPEN EN ARCHITECTUUR

MASTER'S THESIS 2023-2024

Industrial Engineer Informatica

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Slide 3

CREDITS MASTER'S THESIS

Semester 1	30	Semester 2	30
Network and computer security	6	System Administration	6
Machine Learning	6		
Advanced Algorithms	6	Elective courses	12
System design	3		
Elective course	3	Master's thesis 6 half days a week	12
Master's thesis 3 half days a week	6		

➢Three credits ~ 80 hours
➢Depending on the student's curriculum
➢Sometimes unbalanced distribution of credits over the two semesters

Elaborate in the work plan

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Slide 4

EXPECTATIONS FOR THE CONTENT MASTER'S THESIS

➢Company: technology
  ➢exploration innovative aspect
  ➢in-depth analysis
➢UGent: literature study
➢Tangible end result, thoroughly evaluated
➢Implementation
  ➢analysis and design
  ➢thoroughly tested
  ➢not just executive work
➢Reporting

See criteria

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TIMING MASTER'S THESIS : YEAR COURSE

➢ Choice of master's thesis topic
  ➢ Capture after personal contact
➢ Submit work plan (October 20)
➢ Interim presentation: last week of first semester (18-22 December)
➢ Submit/read 25 pages of thesis (March 31)
➢ Submit/read 95% thesis (May 25)
➢ Final submit thesis (June 6)
➢ Defense: June 26-28

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WORK PLAN

See work plan

➢ Translating the master's thesis proposal on assignment
➢ Keep in mind 18SP vs 24SP: less time for exploratory phase
➢ Concrete objectives, approach and evaluation criteria must be clear quickly:
  ➢ getting to know master's thesis topic better through interaction with supervisors/supervisors,
  ➢ literature study
➢ Guide through the master's thesis
➢ Clarified research content versus implementation expectations

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MASTER'S THESIS CONTRACT

➢ Master's thesis
  ▪ in collaboration with company
  ▪ student works outside UGent building
→ Master's thesis **contract must be signed**.
Three copies with original signatures or electronically signed.
End date in contract: 09/09/2024

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CONFIDENTIAL MASTER'S THESIS

➢ Thesis may be censored for publication in Plato.
  ▪ The assessment committee must receive a complete uncensored version.
  ▪ Non-disclosure agreement with members of the assessment committee.
➢ Embargo publication date (in Plato)

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NDA WITH STUDENTS

- Complete a unilateral declaration of confidentiality
  - Master's thesis in research group UGent: see [Tech Transfer](#)
  - Analogous document if cooperation with company.
- Only the student signs this document
  - Best at the start of the master's thesis

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ARTIFICIAL INTELLIGENCE (AI)

- Artificial Intelligence (AI) is playing an increasingly important role in the digital society.
- Students must learn how to use AI in a responsible and ethical manner.
- ChatGPT, GitHub CoPilot and Google Bard may be used during the master's thesis.
- Make agreements about which data may be used in an AI tool.
- The student remains responsible for the final text!
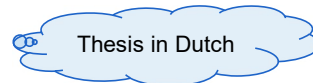- The thesis must explain in detail how AI was used in the appendix.

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COACHING MASTER'S THESIS

- Read work plan
- Present 3 days a week in one semester
  - thesis and project space provided
- Consultation with the student every two weeks
- Organizing an interim presentation for the student
- Giving feedback to the student
  - about the progress
  - the first 25 pages
  - the first draft thesis

Thesis in Dutch

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INTERIM PRESENTATION

- Last week before the Christmas holidays: 18-22/12
- With all supervisors/promoters involved
- The first results are discussed
- Discussion about the further course
- Possible adjustment of objectives, ...

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DEFENSE:

3 moments:
- January 2024 (special session)
- June/July 2024 (1st session)
- September 2024 (2nd session)

Shifting deadlines...

See deadlines

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MASTER'S THESIS - ASSESSMENT

- Assessment committee: at least one external person who is not involved in the master's thesis
- The end result of the master's thesis is compared with the set goals.
- Classification is used in final evaluation
- The assessment committee gives the end points in consultation

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FINAL EVALUATION BY ASSESSMENT COMMITTEE

Assessment of	Industrial Engineer	Civil Engineer
Personal Aspects	10%	30%
Practical Realisation	40%	
Dissertation	30%	50%
Oral Defence	20%	

Other evaluation forms

Other classification

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EVALUATION FORMS/ CLASSIFICATION

Evaluatieformulieren

Ingenieurswetenschappen

See FEA website - Masterproef

→ Evaluatieformulier masterproef ingenieurswetenschappen

→ Evaluation form master dissertation in Engineering

Rubric voor beoordeling masterproef ingenieurswetenschappen (Nederlandstalige versie / English version)

Industriële wetenschappen

→ Evaluatieformulier masterproef industriële wetenschappen

→ Evaluation form master dissertation in Engineering Technology

Rubric voor beoordeling masterproef industriële wetenschappen (Nederlandstalige versie / English version)

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INFORMATION

> Own website: **masterproef.tiwi.ugent.be**

> FEA website: civil engineer/ industrial engineer
> **http://www.ugent.be/ea/nl/faculteit/diensten/studentenadministratie/masterproef**

Industrial Engineer Informatica

Masterproef

Modaliteiten

→ Masterproefmodaliteiten voor opleidingen **ingenieurswetenschappen** 2022-2023

→ Masterproefmodaliteiten voor opleidingen **industriële wetenschappen** 2022-2023

2023-2024

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CONTACT

> Marleen Denert: marleen.denert@ugent.be
> ▪ administrative questions
> For companies: Ghent University Supervisor
> > substantive follow-up
> > regular contact with the student
> > present at interim presentation
> > Plato: fill in data

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QUESTIONS

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FACULTEIT INGENIEURSWETENSCHAPPEN EN ARCHITECTUUR

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