TU WIEN Informatics

TU Wien Informatics Doctoral School

Information Event
October 2, 2023

Andreas Steininger

TU WIEN Informatics

Doctoral Education at our Faculty

common roof formed by

TU Wien Informatics Doctoral School

different ways of funding a doctoral degree at our faculty

Doctoral Colleges	Teaching Assistants	Research Assistants	Self-Funded PhDs	…

different areas, different institutes, different supervisors, …

but the same curriculum, process, evaluation criteria apply to every doctoral student

currently 390

the Doctoral School is not a secluded club –
every doctoral student is considered member of our Doctoral School

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Excellent Education for Doctoral Students

- ✓ Excellent Supervision
- ➢ Well-thought Dissertation Process
- ➢ Quality Assurance
- ➢ Structured Curriculum
- ➢ Top-class Guest Professors
- ➢ Information & Support of Students
- ➢ Teambuilding & Socializing

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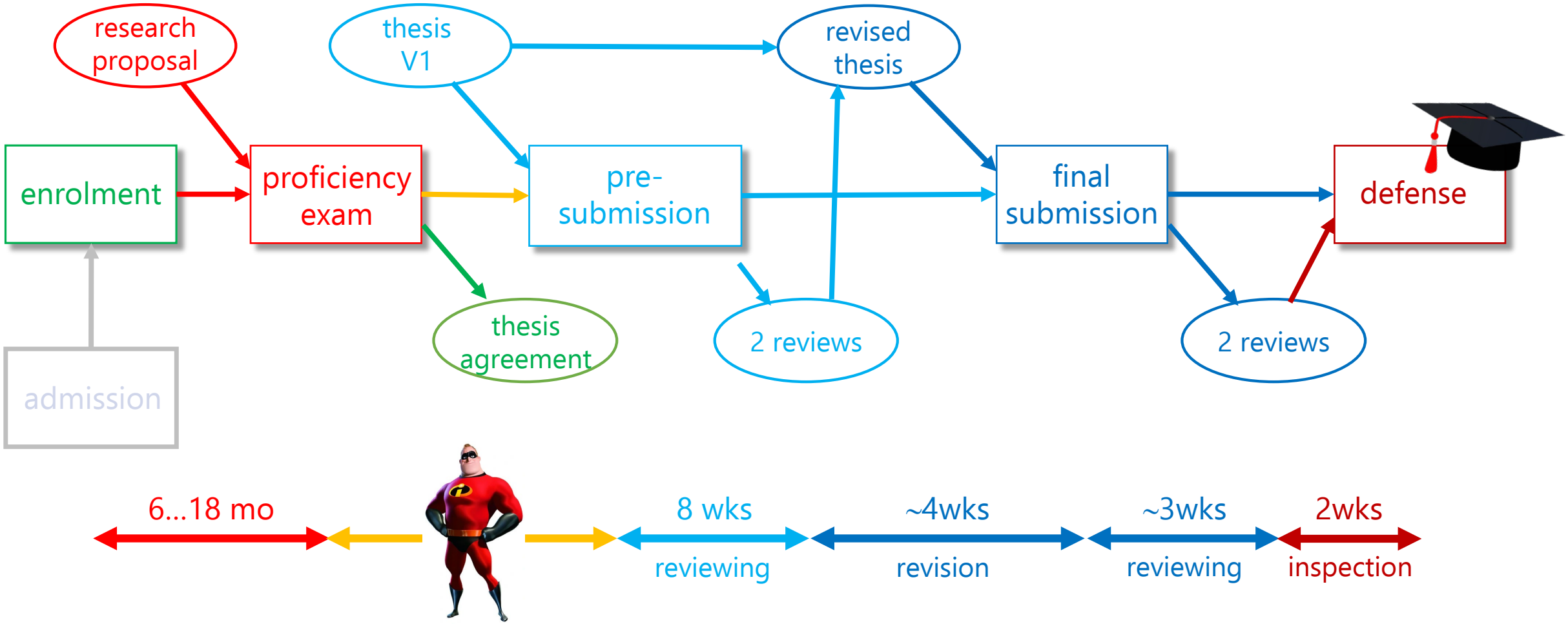
TU Wien Informatics Doctoral School

- **Mission:**
  - ✓ …to provide you with an environment that encourages you to contribute to technology advancement through systematic, yet creative research. Our program enables you to become an independent researcher capable of generating, pursuing, and communicating novel research ideas. To achieve this, you will be involved in research activities as soon as possible.

- **Services** (in tight cooperation with the Deans of Academic Affairs & Dean‘s Office):
  - ✓ maintain unified interface inside and to the outside (webpage, Q&A)
  - ✓ implement the basic curriculum (mandatory lectures)
  - ✓ organize guest lectures (selection, invitation, operation…)
  - ✓ organize special courses in house (Current Trends in CS, Proposal Writing)
  - ✓ stimulate teambuilding (social events)
  - ✓ keep contact to doctoral students, provide aid (relay info, give pointers when problems)
  - ✓ inform (events), coordinate, provide facts & figures

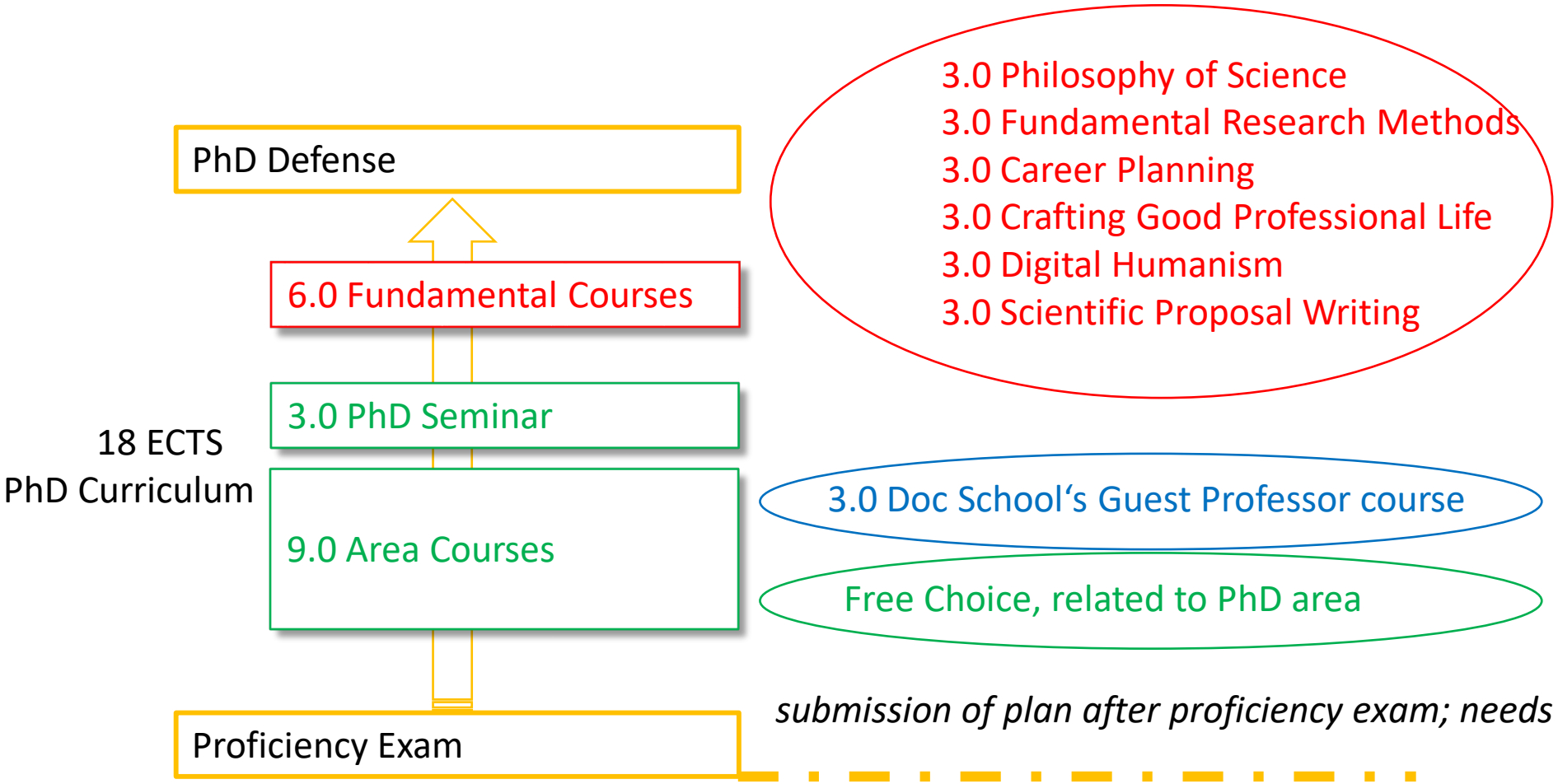
The Path to the Doctoral Degree



Quality Assurance

- ✓ early feedback & transparency through proficiency exam
- ✓ extra guidance by PE members: National Expert & Chair
- ✓ extra certainty through clear commitments in thesis agreement
- ✓ grading of thesis by 2 independent experts
- ✓ possibility for thesis revision
- ✓ thesis & reviews open for inspection by faculty

Structured Curriculum



Curriculum Structure

As a reminder: In total minimum18 ECTS required

- **fundamental courses**
  - Philosophy of Science (M)
  - Research & Career Planning for Doctoral Students (M)
  - Fundamental Research Methods for Doctoral Students (M)
  - Crafting Good Professional Life
  - Digital Humanism
  - Scientific Proposal Writing

  min 6 ECTS, min 1 methodology

- **area courses**
  - PhD seminar, 3 ECTS
  - visiting professor courses, min 3 ECTS
  - own choice of courses related to research area

  min 12 ECTS, at most 6 ECTS seminar or PV

submission of plan after proficiency exam; need approval!

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Important Sources of Information

- Information of the Dean's Office about Doctoral Study Process
  https://informatics.tuwien.ac.at/study-services/doctoral-graduation/
- Webpage of the TU Wien Informatics Doctoral School
  https://informatics.tuwien.ac.at/doctoral/
- Standard Procedure for Doctoral Program at the Faculty of Informatics
  https://informatics.tuwien.ac.at/doctoral/procedure/
- Registration to Doctoral School news:
  https://inn.tuwien.ac.at/socialevents_doctoralstudents
- Admission Office
  https://www.tuwien.at/en/studies/admission/the-conditions-for-international-students/doctoral-programme/

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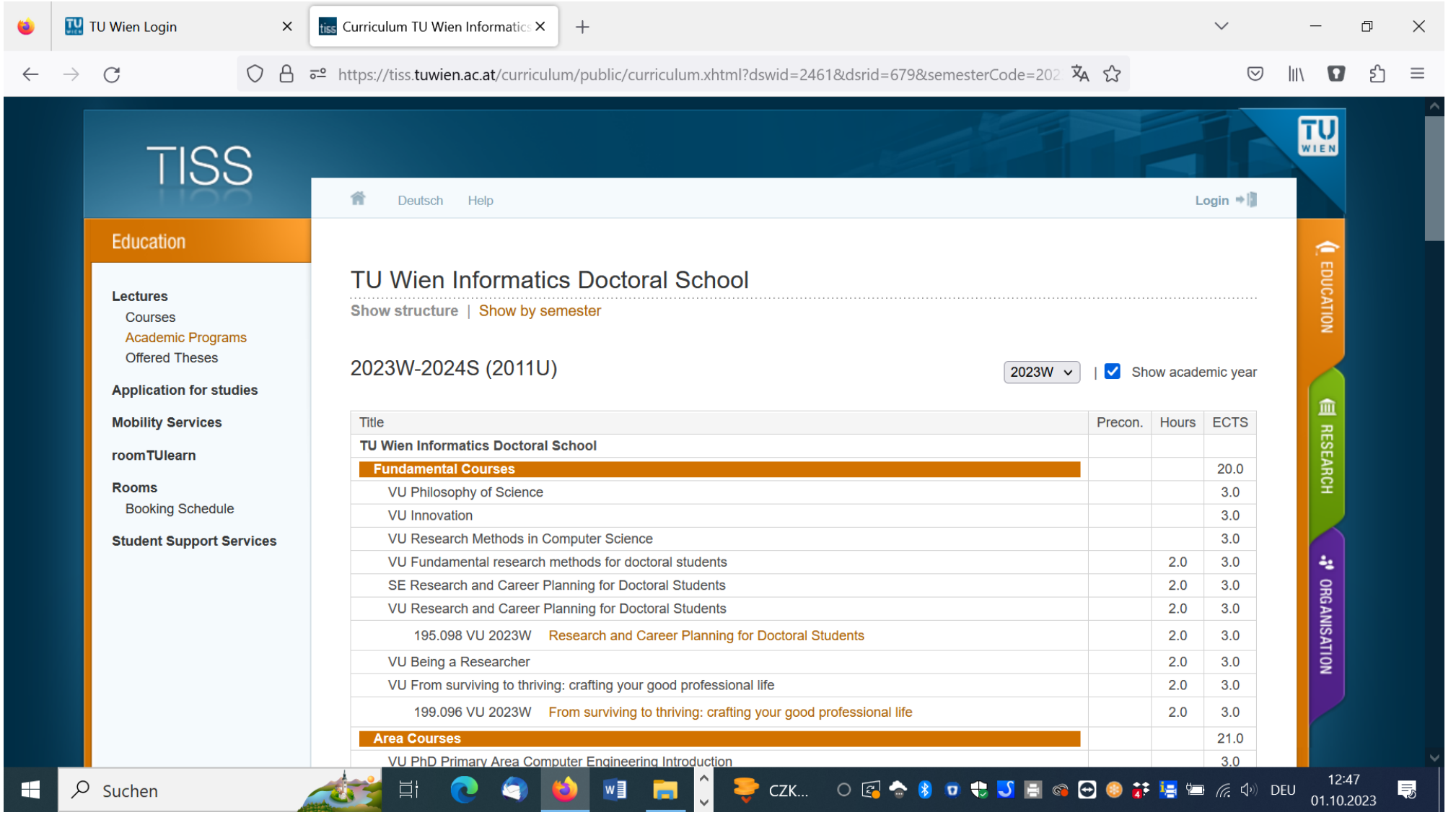
Curriculum TISS



Title	Precon.	Hours	ECTS
TU Wien Informatics Doctoral School			
Fundamental Courses			20.0
VU Philosophy of Science			3.0
VU Innovation			3.0
VU Research Methods in Computer Science			3.0
VU Fundamental research methods for doctoral students		2.0	3.0
SE Research and Career Planning for Doctoral Students		2.0	3.0
VU Research and Career Planning for Doctoral Students		2.0	3.0
195.098 VU 2023W Research and Career Planning for Doctoral Students		2.0	3.0
VU Being a Researcher		2.0	3.0
VU From surviving to thriving: crafting your good professional life		2.0	3.0
199.096 VU 2023W From surviving to thriving: crafting your good professional life		2.0	3.0
Area Courses			21.0
VU PhD Primary Area Computer Engineering Introduction			3.0

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Top-class Guest Professors

Guest Professors — TU Wien Inf | Curriculum TU Wien Informatics

https://informatics.tuwien.ac.at/guests/

2023

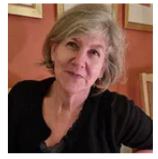
Ricardo Baeza-Yates
Northeastern University
USA

Pedro Cabalar
University of A Coruña
Spain

Antonio A. Casilli
Polytechnic Institute of Paris
France

Werner Dietl
University of Waterloo
Canada

Gordana Dodig-Crnko...
Mälardalen University and Chal...
Sweden



Ann Light
University of Sussex
UK

George Metakides
Digital Enlightenment Forum
Netherlands

Matti Tedre
University of Eastern Finland
Finland

Suchen

CZK...

DEU 12:48 01.10.2023

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Area Courses by Guest Professors – WS23

all VU 3.0

- **Program Analysis**
  Course 199.014
  Course start: Oct 3
  Lecturer: Prof. Werner Dietl,
  University of Waterloo, Canada

- **Democracy in the Digital Era**
  Course 199.015
  Course start: Nov 6
  Lecturer: Prof. George Metakides,
  Digital Enlightenment Forum, NL

- **Algorithms for Graph Analysis**
  Course 199.016
  Course start: Oct 30
  Lecturer: Prof. Martin Nöllenburg
  Guest researcher: Prof. Petra Mutzel,
  University of Bonn, Germany

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Fundamental Courses – Winter Term

- **From surviving to thriving: crafting your good professional life,**
  course 199.096
  schedule: course start Oct 6
  Lecturer: Prof. Geraldine Fitzpatrick

- **Research and Career Planning for Doctoral Students,**
  course 195.098 = course 184.778
  schedule: course start Oct 13
  - Lecturer: Prof. Georg Gottlob

- **Philosophy of Science,**
  course 195.080
  schedule: to be announced
  - Lecturer: Prof. Matti Tedre / University of Eastern Finland

Fundamental Courses – Preview Summer Term

- **Fundamental Research Methods for Doctoral Students,** course 195.079
  - Introduction to Methodologies and Paradigms
  - Qualitative Methods
  - Formal Methods
  - Quantitative Methods
  - Design Methods

- **ProWriting – Effective Research Project Proposal Writing for Public Funding** course 195.109
  - Lecturers: S. Biffl, A. Ciabattoni, C. Maszl-Kantner, E. Schludermann, A. Steininger

Current Trends in Computer Science (VU 1.5, 195.072)

- Ring lecture with talks given by the guest professors of the current study year
- offered throughout winter and summer term
- Highly probable that we have at least 5 talks in total during this study year 2023/24

First talk scheduled for Oct 12, 2023.

requirements for positive grade:

Preferably students attend 4 talks, choose 3 of those for their report and give a summary of at least 2 pages for each.

For students who can only attend 3 talks this summary must comprise at least 3 pages for each talk.

(The course will end after the summer term, a further combination with talks of the winter term 24/25 will not be possible.)

Information, Teambuilding, Socializing

- Regular Info Events (process, upcoming guest prof courses, Q&A,...)
- Social Events
  - Special-focus Guided Tours
    („Vienna for students“, „Hidden Secrets of Vienna“, ..
  - Visit & Tour of Ottakringer Beer Brewery
  - Visit of Vienna Museum of History
  - Visit of Christmas Market
  - …

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You want to receive information about future social events

- please register here:

https://inn.tuwien.ac.at/socialevents_doctoralstudents

Thank you!