

Intro to P1+P2+Masterseminar  
Computer Science (CS) +  
Mediainformatics (MI) +  
Business informatics (BI)

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# Outline

- The idea
- Requirements
- Expectations
- Timeline
- How to find a topic
  
- These slides are also here:  
<https://teaching.vda.univie.ac.at/p1-p2-masterseminar/>

# The Idea

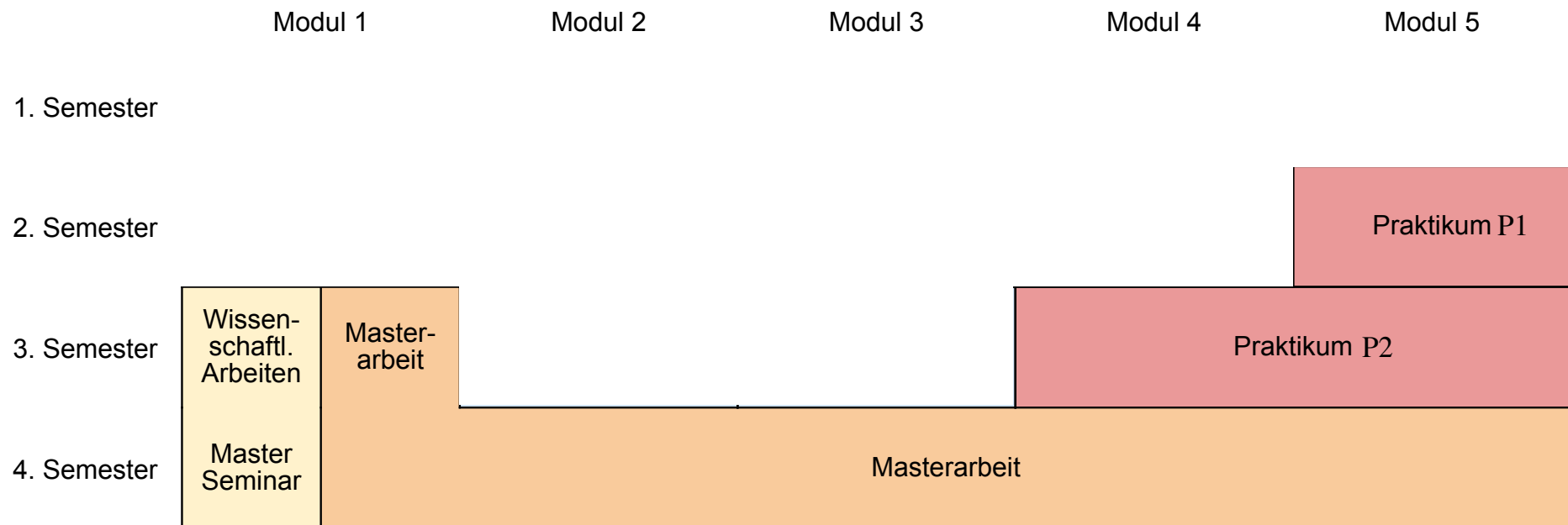
There are three stages in your Master /  
for your scientific contributions:

- 2nd semester: 6 ECTS practicum
- 3rd semester: 12 ECTS practicum
- 3rd+4th semester: 30 ECTS Master thesis + 3 ECTS Masterseminar

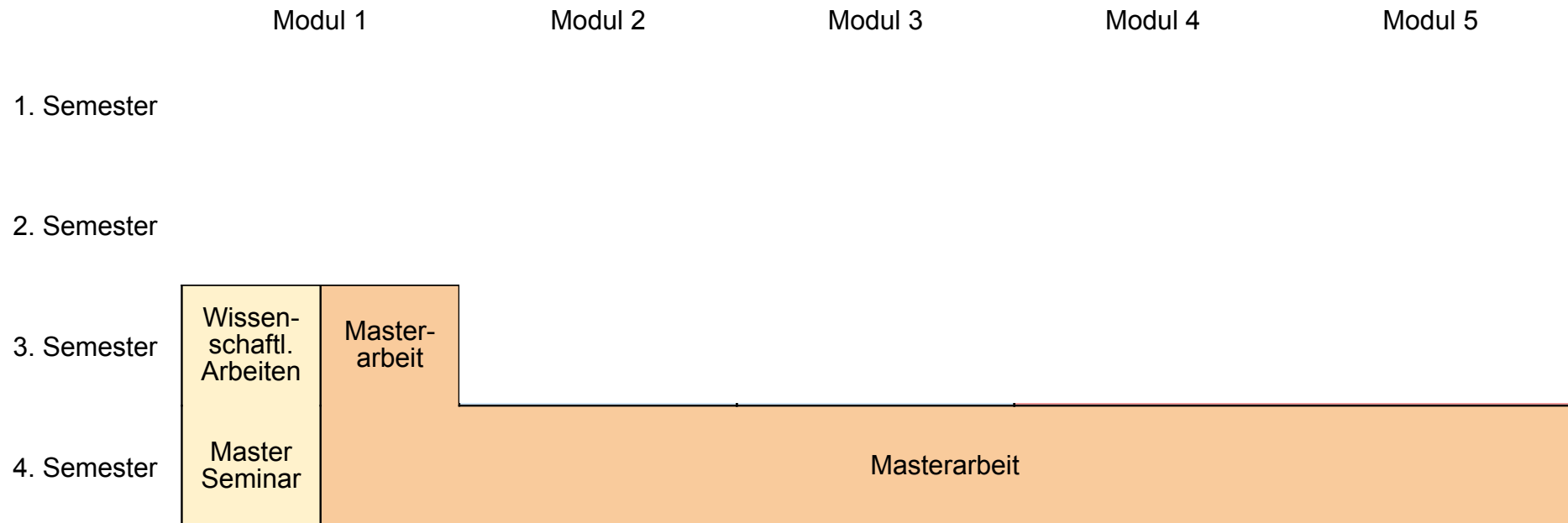
# We offer help

- Practice P1+P2: help in finding a topic
- VU Academic research and writing: solidifying the scientific approach
- Masterseminar: solidifying + communicating the topic

# The idea — CS + MI



# The idea — BI



# The idea — V1

- Master topic comes from P2 and P2 builds on P1

## However

- if P1 didn't work, there is a chance to switch topics for P2
- in **extreme** cases, P2 didn't work either, there is a chance to switch topics for the thesis

# The idea — V2

- P1 + P2 allow you to get “your feet wet” on different topics in different research labs. It helps to expose you to different research approaches.

## However

- by the time you choose your thesis topic you need to be all prepared to do great work!



# The idea — Masterseminar

- Here you are writing a survey paper on the topic you have chosen. This will become your literature review chapter for your thesis.
- you will review (in a conference system) the survey papers of your peers
- you will present your survey paper in a conference style setting
- Instead of a survey paper, you can also opt for writing a research proposal

# Requirements

- P1+P2: you are supposed to put what you learned in the previous courses into practice by developing a software tool
- Thesis: you are supposed to tackle the state-of-the-art in a well defined research topic

# Requirements

- Master seminar: you are supposed to present your thesis topic to your peers to get early feedback and to become aware of related work / what others are doing

# Formal requirements

	CS	MI	BI
P1	12 ECTS from a cluster	12 ECTS from CG or MM	NA
P2	P1, 12 ECTS from a cluster	P1, 12 ECTS from CG or MM	NA
Master-seminar	P1, ASE	P1, ASE	ASE, MEM, IOP, BPM

# Req — CS

- “The topic of your thesis arises out of one of the modules of specialization.”

## general CS

- Algorithms
- Data Analysis
- Parallel Computing
- Networks
- Computer Graphics
- Multimedia
- Information Management & Systems Engineering
- Internet Computing & Software Technology

## Scientific Comp.

- Algorithms
- Data Analysis
- Parallel Computing
- Networking

## Data Science

- Algorithms
- Data Analysis
- Parallel Computing

# Req — Mediainformatics

- “The topic of your thesis arises out of one of the modules of extended Mediainformatics, Computer Graphics or Multimedia.”

# Req —

# Businessinformatics

- “Das Thema der Masterarbeit ist aus einem der Module der Pflichtmodulgruppe Wirtschaftsinformatik zu entnehmen.”
  - Geschäftsprozessmanagement
  - Knowledge Engineering
  - Interoperabilität
  - Metamodellierung
  - Digitale Ökonomie
  - Sichere Digitale Wirtschaft
- PS: Wir sehen dies schon ein wenig breiter.

# Expectations

- It's work, i.e. studying is a full-time job!
  - 6 ECTS (P1) =  
150h of your time or 10h/week
  - 12 ECTS (P2) =  
300h of your time or 20h/week
  - 3 ECTS (Masterseminar) =  
75h of your time or 5h/week
  - 30 ECTS (Thesis) =  
750h of your time in a semester



# Expectations

- P1+P2: find topic
  - best before the start of the semester (but not necessary)
  - latest by deadline for dropping the course
- Masterseminar: you should already have a topic and supervisor for your master thesis!
- meet at least 4 times during the semester with your supervisor
  1. in the beginning to clarify the topic
  2. after 4 weeks to clarify progress and milestones
  3. one month before end of semester to clarify progress and expectations
  4. end of the semester: to present your results

# Grading

- P1: Evaluation of the entire project, the implementation of the prototype as well as the written report.
- Masterseminar:
  - 70% of the grade: quality of the survey paper / thesis proposal
  - 10% of the grade: quality of the reviews
  - 20% of the grade: quality of the presentation
  - In order to pass the course you need to achieve at least half of the points for the paper, the reviews, and the presentation, each.

# Plagiarism

You will need to write your report / submission in your own words. When referring to the contents of other papers, e.g., regarding the considered problem settings or findings, you need to clearly mark this by adding a reference and, if appropriate, quotes. If you fail to do so, this would be plagiarism and will result in an “X”.

In the case of an existing survey on your topic, your paper should be substantially different. Please consult your supervisor to agree on the focus of your survey.

# Timeline

This Moodle course: [2024W Praktikum Informatik P1+P2](#)

- **Oct 14** (deadline for dropping the course): confirm a topic and supervisor, enter into Moodle (link to Moodle course will be provided)
- **Oct 14**: if you have no topic, either drop the course or email me, and I will assign you a topic
- **Oct 14**: if I don't hear from you and you don't enter a topic, I will drop you from the course
- Meet with supervisor at least twice in-between
- **Jan 31**: finish all requirements and have results presented

# Additional deadlines

## Masterseminar

- **Oct 14th:** enter a topic or be dropped
- Meet with your supervisor at least twice between agreeing on a topic and presenting your final result.
- **Dec 1st** — submission of your expose/survey paper in the conference system
- **Dec 20th** — finishing all the assigned reviews
- **Jan 17th** — presentation day
- (deadlines are strict; no extension is possible)

# How to find a topic

# General remarks

- you want to enjoy it! — what was the most fun subject thus far?
- take advantage of your strength (programming, math, design, ...)
- search for it early (you don't want one assigned)
- talk to potential supervisors!

Finalizing your  
specific topic ...  
arranged by labs



# Theory and Applications of Algorithms (TAA)

- <https://taa.cs.univie.ac.at/teaching/open-topics/>
- Possible supervisors:
  - Kathrin Hanauer (kathrin.hanauer@univie.ac.at)
  - Gramoz Goranci (gramoz.goranci@univie.ac.at)
  - Wilfried Gansterer  
(wilfried.gansterer@univie.ac.at)

# Cooperative Systems (COSY)

- <http://cosy.cs.univie.ac.at/teaching/open-topics/>
- Possible supervisors:
  - Peter Reichl (peter.reichl@univie.ac.at)
  - Pls send email for appointment ... and/or come to the "Topic Speed Dating" meeting on Monday, Oct 7, 2024, at 11:30 am SR8

# Data Mining + Machine Learning

- <http://dm.cs.univie.ac.at/teaching/open-topics/>
- possible supervisors:
  - Christian Böhm ([christian.boehm@univie.ac.at](mailto:christian.boehm@univie.ac.at))
  - Nils Kriege ([nils.kriege@univie.ac.at](mailto:nils.kriege@univie.ac.at))
  - Claudia Plant ([claudia.plant@univie.ac.at](mailto:claudia.plant@univie.ac.at))
  - Benjamin Roth ([benjamin.roth@univie.ac.at](mailto:benjamin.roth@univie.ac.at))
  - Sebastian Tschatschek  
([sebastian.tschatschek@univie.ac.at](mailto:sebastian.tschatschek@univie.ac.at))
  - Yllka Velaj ([yllka.velaj@univie.ac.at](mailto:yllka.velaj@univie.ac.at))

# Education, Didactics and Entertainment Computing

- [http://entertain.univie.ac.at/entertainment\\_topics\\_EC.pdf](http://entertain.univie.ac.at/entertainment_topics_EC.pdf)

- Possible Supervisors

- Prof. Dr. Michael Hlavacs

- Prof. Dr. Michael Hlavacs (michael.hlavacs@univie.ac.at)

**No projects this semester**

# Multimedia Information Systems (MIS)

- <https://mis.cs.univie.ac.at/teaching/open-topics-practical-courses-theses/>
- possible supervisors:
  - Wolfgang Klas  
([wolfgang.klas@univie.ac.at](mailto:wolfgang.klas@univie.ac.at))

# NeuroInformatics (NI)

- <https://ni.cs.univie.ac.at/teaching/open-topics>
- possible supervisors:
  - Moritz Grosse-Wentrup  
([moritz.grosse-wentrup@univie.ac.at](mailto:moritz.grosse-wentrup@univie.ac.at))

# Scientific Computing

- <https://sc.cs.univie.ac.at/teaching/open-topics/>
- possible supervisors:
  - Siegfried Benkner  
([siegfried.benkner@univie.ac.at](mailto:siegfried.benkner@univie.ac.at))
  - Eduard Mehofer ([eduard.mehofer@univie.ac.at](mailto:eduard.mehofer@univie.ac.at))
  - Atakan Aral ([atakan.aral@univie.ac.at](mailto:atakan.aral@univie.ac.at))
  - Enes Bajrovic ([enes.bajrovic@univie.ac.at](mailto:enes.bajrovic@univie.ac.at))

# Software Architecture

- <http://swa.cs.univie.ac.at/teaching/open-topics/>
- possible supervisors:
  - Uwe Zdun  
([uwe.zdun@univie.ac.at](mailto:uwe.zdun@univie.ac.at))



# Visualization and Data Analysis

- <http://vda.cs.univie.ac.at/teaching/open-topics/>
- Main contact:
  - Torsten Möller  
([torsten.moeller@univie.ac.at](mailto:torsten.moeller@univie.ac.at))
  - Laura Koesten ([laura.koesten@univie.ac.at](mailto:laura.koesten@univie.ac.at))
- We will meet with interested students on  
Oct 9/10

# Workflow Systems and Technology

- <https://wst.cs.univie.ac.at/teaching/open-topics/>
- possible supervisors:
  - Han van der Aa  
([han.van.der.aa@univie.ac.at](mailto:han.van.der.aa@univie.ac.at))

# Security & Privacy

- <https://sec.cs.univie.ac.at/teaching/>
- possible supervisors:
  - Edgar Weippl  
(edgar.weippl@univie.ac.at)
  - Sebastian Schrittwieser  
(sebastian.schrittwieser@univie.ac.at)