

# **Photogrammetry I**

## **Lectures & Tutorials Formalities 2024**

**Cyrill Stachniss**

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# Slides & Language

- Photogrammetry is taught in English
- Slides are provided via eCampus
- Self-contained slides
- All other material is optional
- Exam will be bi-lingual  
(questions in German and in English)

# The Team



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Lectures



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Tutorials & Support

# My Expectations

- Stimulate **interest** in photogrammetry and computer vision
- **Understand** the key concepts
- **Implement** own solutions
- **Questions** and discussions, **ask!**
- Give **feedback early**
- **No plagiarism**
- 5-Minute preparation

# 5 Minute Preparation Videos




# Lecture Recordings 2021/22

Suchen

+

5

**Photogrammetry** Lecture



**Cyrril Stachniss** Alle wiedergeben


**Lecture:**  
**Photogrammetry I & II**  
(2021, Uni Bonn, Cyrril Stachniss)

68 Videos • 31.916 Aufrufe • Zuletzt am 16.09.2021 aktualisiert

Öffentlich ▾


↻ ↗ ...

Keine Beschreibung

 **Cyrril Stachniss**

**SORTIEREN**


**Photogrammetry** Lecture



**Introduction to Photogrammetry (Cyrril Stachniss, 2021)**


Cyrril Stachniss 55:38

**What Cameras Measure - 5 Minutes with Cyrril**



Cyrril Stachniss 5:22


**Camera Basics** Lecture



**Camera Basics and Propagation of Light (Cyrril Stachniss, 2021)**


Cyrril Stachniss 1:31:16

**Image Histograms - 5 Minutes with Cyrril**




Cyrril Stachniss 5:16

**Image Histograms - Part 1: Histograms and Point Operators (Cyrril Stachniss, 2021)**



Cyrril Stachniss 45:32

**Image Histograms - Part 2: Histograms Transformations (Cyrril Stachniss, 2021)**



Cyrril Stachniss 59:58

<https://www.youtube.com/playlist?list=PLgnQpQtFTOGRYjqjdZxTEQPZuFHQa7O7Y>

# Module B36 - Photogrammetrie

Photogrammetry I (summer term)

- Lecture: 3h
- Tutorials: 2h

Photogrammetry II (winter term)

- Lecture: 2h
- Tutorials: 1h

Overall work load: 10 ETCS = 300h

# Expected Time To Be Invested

- Photo 1+2: 10 ETCS = 300h
- Semester = 13 weeks of teaching
- Photo 1: 3+2 = 62.5%
- Photo 2: 2+1 = 37.5%

## Calculation

- Exam preparation: 60h (240h remain)
- Photo 1:  $240\text{h} * 62.5\% = 150\text{h}$
- Photo 2:  $240\text{h} * 37.5\% = 90\text{h}$
- **Photo 1:**  $150\text{h}/13 \text{ weeks} = \mathbf{11.5\text{h/week}}$
- **Photo 2:**  $90\text{h}/13 \text{ weeks} = \mathbf{7\text{h/week}}$



# Timing

## Lectures start c.t.:

- Tue **8:15**-10:00
- Thu **10:15**-12:00
- 4h vs. 3h of lectures per week?

## Tutorials:

- Mon **08:30**-10:00
- Start next week

# Exam

- Written exam at the end of the winter term after the Photo II course
- Exam admission (Studienleistung)
  - 50% of the points from the homework assignments of Photo I **and**
  - 50% of the points from the homework assignments of Photo II

# **Tutorials and Homework Assignments**

# Tutorials

- Tutorials are there to support you
- Tutorials give you the chance to **ask detailed questions on**
  - **Homework assignment**
  - **Course material**
- It is not mandatory to attend (but recommended)
- Scheduling of tutorials via eCampus

# Homework Assignments

- Homework assignments are given out via eCampus
- Programming exercises using **Python**
- Every assignment has a **fixed submission date**
- Submit your solution **on time**
- Submission via eCampus
- Submission in **groups of 2 students**

**No Plagiarism!**

# Plagiarism

- Plagiarism leads to **failing** the **exam admission**
- This holds for the group that **copied** the homework
- This holds also for the group that **provided the solution**
- Copying **previous solutions** is also regarded as plagiarism

# **Python Tutorial Needed?**



**Questions?**