# COURSE DETAIL

| PHOTOGRAMMETRIC COMPUTER VISION |
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| **Country**<br>Germany |
| **Host Institution**<br>Technical University Berlin |
| **Program(s)**<br>Technical University Berlin |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Computer Science |
| **UCEAP Course Number**<br>130 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>Photogrammetric Computer Vision |
| **UCEAP Transcript Title**<br>PHOTOGR COMP VISION |
| **UCEAP Quarter Units**<br>8.50 |
| **UCEAP Semester Units**<br>5.70 |

**Course Description**

This course covers geometric basics of sensor orientation and object reconstruction, including homogeneous coordinates, projectivity and perspective, modelling of image formation, inner and outer orientation, orientation of uncalibrated and calibrated cameras, spatial resection, least-squares adjustment, orientation of the image pair, relative and absolute orientation, spatial triangulation, multi-view geometry, bundle block adjustment, image digitalization, and radiometric basics.

**Language(s) of Instruction**
English

**Host Institution Course Number**
0433 L120

**Host Institution Course Title**
Photogrammetric Computer Vision

**Host Institution Course Details**
https://moseskonto.tu-berlin.de/moses/modultransfersystem/bolognamodule/beschre...

**Host Institution Campus**

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**
Institut für Technische Informatik und Mikroelektronik

**Course Last Reviewed**
2021-2022

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