

| | Tue Oct 11 | Wed Oct 12 | Tue Oct 18 | Wed Oct 19 | Tue Oct 25 | Wed Oct 26 | Wed Nov 2 | Wed Nov 9 | Wed Nov 16 | Wed Nov 23 | Wed Nov 30 |
|-------------|------------|------------|------------|------------|------------|------------|-----------|-----------|------------|-------------|------------|
| 10:15-12:00 | L1 | L4 | L5 | L7 | L8 | | exam | P1 | P2 | P report in | P present. |
| 13:15-15:00 | L2 | C1 | L6 | C2 | L9 | C3 | | | | | |
| 15:15-17:00 | L3 | | | | L10 | | P intro | | | | |

Lecturer

| | Lectures: Basic image analysis methods |
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| Ida-Maria | L1 Introduction (presentation of participants, digitization, project intro, file formats/compression) |
| Kristina | L2 Pointwise operations/Image transforms |
| Ida-Maria | L3 Filtering and pre-processing + morphology |
| Robin | L4 Segmentation + distance transform |
| Carolina | L5 Research methodology and research ethics in image analysis |
| Robin | L6 Color + multispectral images |
| Carolina | L7 Feature extraction |
| Marine | L8 Classification I |
| Marine o Robin | L9 Classification II + intro Ilastik |
| Carolina | L10 Example pipelines + repetition |

Computer exercises

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| Ida-Maria | C1 ImageJ |
| Carolina | C2 CellProfiler |
| Robin | C3 Ilastik |

Applications and advanced topics

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| P intro is an introduction to the project work |
| P1 Project specific lectures/seminars and discussion of project plans |
| P2 Project specific lectures and feedback on project progression |
| P report deadline (sent by email) |
| P presentations in the form of a mini-symposium |

Examples of project specific lectures and advanced topics

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| Robin | Interactive/advanced iage segmentation |
| Robin | Image registration |
| Robin | Hands-on exercise on 3D slicer |
| Ida-Maria | Electron Microscopy image analysis |
| Carolina | Cell image analysis |
| Carolina | Image-based screening |
| Carolina | Hands-on advanced functions in CellProfiler and CellProfiler Analyst |
| Fredrik N | Paper seminar on structure from motion |
| Natasa | Paper seminar on deconvolution |