

	week 3		week 4		week 5		week 6	week 8
	Tue Jan 18	Wed Jan 19	Tue Jan 25	Wed Jan 26	Tue Feb 1	Wed Feb 2	Wed Feb 9	Wed Feb 23
10:15-12:00	L1	L4	L5	L8	L9	L10	exam	Project presentations
13:15-15:00	L2	Ex1	L6	Ex2	Ex3	L11		
15:15-17:00	L3		L7	Project intro				

Lecturer

DM, OK
 CW
 CW
 AK
 DM
 DM
 DM
 DM
 DM
 DM
 ABD
 ABD
 CW
 AP
 DM, CW, IMS, IN
 DM, CW, IMS, IN

PART 1 - Lectures: Basic image analysis methods

L1 Introduction to digital images and MAX IV
 L2 Pointwise operations/Image transforms
 L3 Filtering and pre-processing + morphology
 L4 Color + multispectral images
Ex1 ImageJ
 L5 Segmentation + distance transform
 L6 Feature extraction
 L7 Classification I
 L8 Classification II, machine learning
Ex2 CellProfiler
 L9 Advanced image segmentation
Ex3 TBD
 L10 Research methodology and research ethics in image analysis
 L11 Future perspectives and possibilities on MAX IV images and analysis
 Exam
 Project presentations

PART 2 - Applications and advanced topics

Project intro is an introduction to the project work
 Project presentations in the form of a mini-symposium

DM: Damian Matuszewski

OK: Oxana Klementieva (MAX IV / LU)

CW: Carolina Wählby

AK: Anna Klemm

ABD: Anders Bjorholm Dahl (Professor at the Technical University of Denmark (DTU) and head of QIM: The Center for Quantification of Imaging Data from MAX IV)

AP: Alexandra Pacureanu (research scientist responsible of nanoscale X-ray neuroimaging at ESRF, the European Synchrotron)

IMS: Ida-Maria Sintorn