**Course description**

Computer vision is the process of using computers to acquire images, transform images, and extract symbolic descriptions from images.  The automatic classification of blood cells in medical images and the robotic control of an unmanned lunar rover are examples of computer vision applications.  This course provides an overview of this field, starting with image formation and low level image processing.  We then go into detail on the theory and techniques for extracting features from images, measuring shape and location, and recognizing objects.  Design ability and hands-on projects will be emphasized, using image processing software and hardware systems.

**Weighing of Assessment**

Final-Term Examination 65 %

Mid-Term Examination 10 %

Practical Examination 15%

Oral exam 10%

Total 100 %