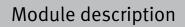


Principles of Classification of Patterns 11-KVM-092-m01	
Module coordinator Module offered by	
Managing Director of the Institute of Applied Physics Faculty of Physics and Astronomy	
ECTS Method of grading Only after succ. compl. of module(s)	
3 numerical grade	
Duration Module level Other prerequisites	
1 semesterundergraduateCertain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective de at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment the course of the semester, the lecturer will put their registration for sessment into effect. Students who meet all prerequisites will be added to assessment at a later date, students will have to obtain the qualification to assessment admission to assessment admission to assessment anew.	
Contents	
Signals such as images, but also acoustic records, spectra, electrical measurements often contain recurring pat- terns. These patterns are often classified and analysed by observers, e.g. by a doctor when analysing an ECG. More and more automatic procedures are adopted to take on these tasks and classify patterns. The lecture will discuss principles of different classifiers such as "minimum distance" and "maximum likelihood".	
Intended learning outcomes	
The students have specific and advanced knowledge in the field of pattern recognition. They know methods of classifying patterns in measuring data as well as ways to automatise these processes. They are able to apply these methods to practical problems.	
Courses (type, number of weekly contact hours, language — if other than German)	
V + R (no information on SWS (weekly contact hours) and course language available)	
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)	
a) written examination (90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English	
Allocation of places	
Additional information	
Workload	
Teaching cycle	
Peferred to in LPO L (warringtion conclusions for teaching degree are service as)	
Referred to in LPO I (examination regulations for teaching-degree programmes)	

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Module appears in

Bachelor' degree (1 major) Physics (2010) Bachelor' degree (1 major) Physics (2012) Master's degree (1 major) Physics (2010) Master's degree (1 major) Nanostructure Technology (2010) Master's degree (1 major) FOKUS Physics - Nanostructuring Technology (2010) Master's degree (1 major) FOKUS Physics (2010)

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