

Module title					Abbreviation
Introduction to Labview 11-LVW-152-m01					
Module coordinator				Module offered by	
Managing Director of the Institute of A		pplied Physics Faculty of Physics and Astronomy			
ECTS Method of grading		Only after succ. compl. of module(s)			
6 numerical grade					
Duration Module level		Other prerequisites			
1 semester graduate					
Contents					
each LabVIEW learning phase. LabVIEW Basic provides a systematic introduction to the functions and applicati- on fields of the development environment of LabVIEW. The students become acquainted with dataflow program- ming and with common LabVIEW architectures. They learn to develop LabVIEW applications for various applicati- on fields, from assessment and measurement applications up to data collection, device control, data recording and measurement analysis. In the advanced course "NI LabVIEW Core 2", the students learn to develop compre- hensive standalone applications, including the graphical development environment LabVIEW. The course builds upon LabVIEW Basic 1 and provides an introduction to the most common development technologies, in order to enable the students to successfully implement and distribute LabVIEW applications for different application fields. Course topics include techniques and procedures for the optimisation of application performance, e.g. through an optimised reuse of existing codes, usage of file I/O functions, principles of data management, event computing and methods of error handling. After finishing the course, the students have the ability to apply Lab- VIEW functions according to individual requirements, which enables a fast and productive application develop- ment. Intended learning outcomes The students have specific and advanced knowledge in the application field of LabVIEW. They know the princip- les of working with LabVIEW and are able to develop applications, e.g. for recording and analysing measuring da- ta.					
Courses (type, number of weekly contact hours, language — if other than German)					
V (1) + R (3) Module taught in: German or English					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether					
 a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: Once a year, winter semester 					
Additional information					
Workload					

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Teaching cycle

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Bachelor's degree (1 major) Physics (2015)

Bachelor's degree (1 major) Nanostructure Technology (2015)

Bachelor's degree (1 major) Physics (2020)

Bachelor's degree (1 major) Nanostructure Technology (2020)

Bachelor's degree (1 major) Quantum Technology (2021)

exchange program Physics (2023)

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