

Scientific C++ Programming (Basics)					
Module-No./Abbreviation	Credits	Workload	Term	Frequency	Duration
CE-W09/SCPB	3 CP	90 h	1 st Sem.	Winter term	1 Semester
Courses Scientific C++ Programming (Basics)			Contact hours 2 SWS (30 h)	Self-Study 60 h	Group Size: No Restrictions
Prerequisites -					
Learning goals / Competences: After successfully completing the module, the students <ul style="list-style-type: none"> • are familiar with basic programming concepts and constructs in C++, • are able to design and develop C++ applications and to work with C++ environments, • can review and contribute to basic C++ projects. 					
Content The lecture provides an introduction to C++ programming. Basics programming concepts such as types, statements, functions, pointers, memory management and data structures are introduced. Best practices as well as the organization and development of C++ projects are discussed. An introduction to C++ compilers, debugging concepts and development tools is provided. In hands-on sessions, programming exercises are used to discuss and illustrate the presented content.					
Teaching methods / Language Block course (equiv. to 2 SWS) / English					
Mode of assessment Written examination (120 min., 100%)					
Requirement for the award of credit points Passed final module examination					
Module applicability -					
Weight of the mark for the final score -					
Module coordinator and lecturer(s) Prof. Dr. A. Vogel, Assistants					
Further information					