Data:	PP. MA. Nr. 3215 / Examination number: 44504  Version: 08.03.2022  Start Year: WiSe 2018
Module Name:	Personal Programming Project
(English):	
Responsible:	Eidel, Bernhard / Prof. DrIng. habil.
Lecturer(s):	Rheinbach, Oliver / Prof. Dr.
	<u>Kiefer, Björn / Prof. PhD.</u>
	<u>Prakash, Aruna / DrIng.</u>
	<u>Eidel, Bernhard / Prof. DrIng. habil.</u>
Institute(s):	Institute of Numerical Mathematics and Optimization
	Institute of Mechanics and Fluid Dynamics
Duration:	22 Week(s)
Competencies:	The students will develop and document their own software tool for a
	subject relevant to the course Computational Materials Science (e.g.,
	Dislocation or Molecular Dynamics, Finite Elements Method FEM,
	Discrete Element Method or advanced data analysis). Furthermore, they
	will use this method to simulate material behavior, to calculate a
	physical property or to analyze existing/own simulated data.
Contents:	Most important ingredients are: Developing the tool, commenting the
	source file, documentation and running a successful example to verify
	the code.
Literature:	None
Types of Teaching:	S1 (WS): By the end of the second semester, the students decide on a topic. Then, the students design a concept for their project, which has to be discussed and approved by the responsible lecturer. After approval, the students register at examination office for the project. The final report has to be delivered within 22 weeks. / project (22 Wo)
Pre-requisites:	Recommendations:
	None
Frequency:	yearly in the winter semester
Requirements for Credit	For the award of credit points it is necessary to pass the module exam.
Points:	The module exam contains:
	AP: Final Report (source code, documentation, analysis of an example
	solved with their numerical tool)
	AP: Presentation and defending of the project [20 min]
Credit Points:	7
Grade:	The Grade is generated from the examination result(s) with the following
	weights (w):
	AP: Final Report (source code, documentation, analysis of an example
	solved with their numerical tool) [w: 4]
	AP: Presentation and defending of the project [w: 1]
Workload:	The workload is 210h.