Modulbezeichnung:	Basics of Materials (CE_BasMater) (Basics of Materials)	7.5 ECTS
Modulverantwortliche/r:	Aruna Prakash, Erdmann Spiecker, Doris Segets	
Lehrende:	Doris Segets, Wolfgang Peukert, Aruna Prakash, Erik Bitzek, Erdmann Spiecker	

Startsemester: WS 2018/2019	Dauer: 2 Semester	Turnus: jährlich (WS)
Präsenzzeit: 75 Std.	Eigenstudium: 150 Std.	Sprache: Englisch

Lehrveranstaltungen:

Attendance of the "Pre-couse on Linux and MATLAB" by Prof. Bitzek is highly recommended (04.10 and 05.10.2018)
Mandatory courses are: winter term, 1L/1T , Materials and Structure (MS), Lecturer: E. Spieker
summer term, 1L/1T, Material Properties I (MPI), Lecturer: A. Prakasch
winter term, 1L, Basics in Computational Materials Science and Process Simulation 1 ($B_{Compu}1$), Lecturer: E. Bitzek, D. Segets, W. Peukert

Inhalt:

Materials science and general materials properties, as well as computational introduction

Lernziele und Kompetenzen:

The students will learn relevant materials scientific foundations, which are relevant for understanding all subsequently considered materials simulations. Furthermore, they will learn about basics in computational materials science, as well as in process simulation.

Verwendbarkeit des Moduls / Einpassung in den Musterstudienplan:

Das Modul ist im Kontext der folgenden Studienfächer/Vertiefungsrichtungen verwendbar:

[1] **Computational Engineering (Rechnergestütztes Ingenieurwesen) (Master of Science)**
(Po-Vers. 2013 | TechFak | Computational Engineering (Rechnergestütztes Ingenieurwesen) (Master of Science) | Wahlpflichtbereich Technisches Anwendungsfach | Computational Material Sciences)