

Anwendungsfach Materials Science für den Masterstudiengang Data Science (gem. § 52 FPODataScience)

Modul Nr.	Modulbezeichnung	Modulverantwortlicher	Lehrveranstaltung	SWS					Gesamt ECTS	Workload-Verteilung pro Semester in ECTS-Punkten:				Art und Umfang der Prüfung/Studienleistung	Modul Nr.
				V	Ü	P	S	T		1. Sem	2. Sem	3. Sem	4. Sem		
6	Advanced Semiconductor Technologies – Photovoltaic Systems I – Fundamentals	Christoph Brabec	Advanced Semiconductor Technologies - Photovoltaic Systems for Power Generation - Design Implementation and Characterization	2					5	[5]		[5]		Oral exam (15 min.) or 2 lab practicals with final reports (11-15 pages) or participation and a talk at the Solar Energy Seminar	6
			Lab Work Characterization and Advanced Defect Imaging of PV Modules and Systems (optional)			3				[]		[]			
			Seminar and Conference Participation on Solar Energy (optional)				2			[]		[]			
	Materials and Structure	Erdmann Spiecker, Johannes Will	Materials and Structure (Werkstoffe und ihre Struktur)	2					5	[5]		[5]		Written exam (90 min., ungraded)	
	Materials Informatics	Paolo Moretti	Computational models of biomaterial failure (optional)	2					5	[]	[]	[]	[]	Oral exam (15 min.)	
			Computational Materials Engineering and Data Science for Industrial Application (optional)	2						[]	[]	[]	[]		
			Data Driven Materials Science	2						[5]	[5]	[5]	[5]		
Thermodynamics and Mechanics of Materials	Erik Bitzek	Thermodynamics and Mechanics of Materials	2					5	[5]		[5]		Written exam (90 min.)		
Summe Anwendungsfach Materials Science für den Masterstudiengang Data Science								15	5	0-5	5-10	0			

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