

Nr.	Module	lectures	SWS				ECTS-points	Workload-						exams	
			V	Ü	P	S		1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.	6. Sem.		
B1	Mathematics I (GOP)		4	2			7,5	7,5							PL (K, 90 min.)
B2	Foundations of chemical reaction engineering (GOP)		2	2			5	5							PL (K, 90 min.)
B3	Physics I (GOP)		3	1			5	5							PL (K, 90 min.)
B4	Renewable energies (GOP)		2	2			5	5							PL (K, 90 min.)
B5	Elective module I, vgl. §41		(2-3)	(1-2)			5			5					PL ¹
B6	Mathematics II (GOP)		4	2			7,5		7,5						PL (K, 90 min.)
B7	Interface engineering and particle technology (GOP)		2	3			5		5						PL (K, 90 min.)
B8	Electrochemistry (GOP)		2	3			5		5						PL (K, 90 min.)
B9	Physics II		3	1			5		5						PL (K, 90 min.)
B10	Materials and structure		1	1		2	5		5						PL (K, 90 min.)
B11	Fundamentals of electrical engineering		2	2			5		5						PL (K, 90 min.)
B12	Mathematics III		4	2			7,5			7,5					PL (K, 90 min.)
B13	Thermodynamics and heat and mass transfer		4	2			7,5			7,5					PL (K, 90 min.)
B14	Microeconomics		2	2			5	5							PL (K, 90 min.)
B15	Measurement systems		2	1		2	5			5					PL (K, 90 min.)
B16	Active project	Active project													
		Advanced seminar	1	1		3	5			5					PL (SeL)
B17	Chemical thermodynamics		2	2			5				5				PL (K, 90 min.)

B18	Fluid dynamics		2	2			5				5			PL (K, 90 min.)
B19	Chemical reaction engineering		2	2			5				5			PL (K, 90 min.)
B20	Decentralized energy supply		2	2			5				5			PL (K, 90 min.)
B21	Scientific computing in engineering		2		4		5				5			PL (K, 90 min.)
B22	Fundamentals of energy resources		2	2			5				5			PL (K, 90 min.)
B23	Electrocatalysis		2	2			5				5			PL (K, 90 min.)
B24	Data science for engineers		2	2			5				5			PL (K, 90 min.)
B25	Process systems dynamics 1		2	2			5				5			PL (K, 90 min.)
B26	Energy economics		2	2			5				5			PL (K, 90 min.)
B27	Storage technologies		2	2			5				5			PL (K, 90 min.)
B28	Elective module II, see §41		(2-3)	(1-2)			5				5			PL ¹
B29	Sustainability management		2	2			5					5		PL (K, 90 min.)
B30	Laboratory course process engineering				10		10						10	SL (PrL)
B31	Bachelor's thesis	Thesis					15						12	PL (BA) und PL (Seminarleistung) (80% + 20%)
		Advanced seminar				2							3	
							180	27,5	32,5	30	30	30	30	
		Summe SWS:	139-143				Summe ECTS-Punkte:			180				