

Example study paths for track "Computational Engineering"	CMS Track	Contents of COR modules that should be priority known or selected	CMS-CE-EL1 (8 SWS)	CMS-CE-EL2 (12 SWS)	Comment
1	Electronics	CE CMS-COR-MLD CMS-COR-NUM CMS-COR-SAP	Elektromechanical Networks (WS) (3 SWS) Future Computing Strategies in Nano-Electronic Systems (WS) (3 SWS) Coupled Simulation and Realtime Simulation (WS) (2 SWS)	Future Computing Strategies in Nano-Electronic Systems (3 SWS) (WS) Numerische Verfahren der Theoretischen Elektrotechnik (3 SWS) (SS) (german) Optical Computing (6 SWS) (WS)	
2	Machine Learning and Visualization	CE CMS-COR-MLD CMS-COR-HPC CMS-COR-FAI	Computer Graphics 1 (WS) (4 SWS) Machine Learning 2 (SS) (2 SWS) Computer Vision 2 (SS) (2 SWS)	Computer Vision 1 (WS) (4 SWS) User Interface Engineering (WS) (4 SWS) Data Visualization (WS) (4 SWS)	not in combination with CMS-COR-VIZ possible
3	Software Engineering	CE CMS-COR-SSE CMS-COR-HPC CMS-COR-MLD	Design Patterns and Frameworks (4 SWS) (WS) Digitization and Data Analytics: Architectures, Methods and Consequences (4 SWS) (SS)	Particle Methods (SS) (4 SWS) Optical Computing (WS) (6 SWS) Electromechanical networks (WS) (3 SWS)	
4	Mechanics	CE CMS-COR-MLD CMS-COR-HPC CMS-COR-SED	System Dynamics (SS) (4 SWS) Coupled Simulation and Realtime Simulation (WS) (2 SWS) Multibody Dynamics - Practical Exercise (SS/WS) (2 SWS)	Machine Learning 2 (SS) (2 SWS) Electromechanical networks (WS) (3 SWS) Computer Vision 1 (WS) (4 SWS) Wissenschaftliches Programmieren (SS) (3 SWS) (german)	
		Abbreviations			
		SWS	Semester-Wochen-Stunden (Hours per Week)		
		SS	Summer Semester		
		WS	Winter Semester		