

	Example study paths for track "Computational Engineering"	CMS Track	Contents of COR modules that should be priory 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	Machine Learning 1 (SS) Computer Vision 1 (WS)	Optical Computing (WS) Modeling of nanoelectronic devices (WS) Numerische Bauelementesimulation (WS)	
2	Graphics	CE	CMS-COR-MLD CMS-COR-HPC CMS-COR-SAP	Computer Graphics 1 (WS) Computer Vision 1 (WS)	Machine Learning 1 (SS) User Interface Engineering (WS) Data Visualization (WS)	not in combination with CMS-COR-VIZ possible
3	Waves and Radio	CE	CMS-COR-NUM CMS-COR-SAP CMS-COR-VIZ	Antennen (SS) Wellenausbreitung (SS) Gekoppelte Simulation und Echtzeitsimulation (WS)	Numerische Verfahren der Theoretischen Elektrotechnik (SS) Wissenschaftliches Programmieren (SS) Optical Computing (WS)	Lectures partly in german
4	Mechanics	CE	CMS-COR-MLD CMS-COR-HPC CMS-COR-SED	Systemdynamik (SS) Gekoppelte Simulation und Echtzeitsimulation (WS) Mehrkörpersysteme - Praktikum (SS/WS)	Machine Learning 1 (SS) Data Visualization (WS) Computer Vision 1 (WS)	Lectures partly in german not in combination with CMS-COR-VIZ possible
				Please note that the lecture Computer Vision 1 will possibly not be offered in Winter 2019/20.		
				As alternatives, lectures with the same effort from the modules CMS-CE-EL1 and CMS-CE-EL2 are:		
				• Scientific Visualization (Data Visualization is prerequisite)		
				• System Dynamics (partly in German)		
				• Particle Methods		