Course title	Clean room technology
EDP designation	MECB411A
Person(s) responsible for the module	Prof. Dr. Olivier Schecker
Lecturer	Prof. Dr. Olivier Schecker
Classification (level)	*4th semester bachelor*
Recommended content requirements	-
Type	Lecture with laboratory work
Scope (SWS)	2
Scope (ECTS)	2
Workload (time hours)	-
Evaluation (grade; BE/NB)	BE
Turnus	Each semester
Teaching and examination language	English - parts can be done in German depending of students
Contents	Fundamentals of cleanroom technology, cleanrooms for various applications, contamination aspects in the production of microsystems, definition of clean media and cleanroom classes, aerosols, flows, cleanroom concepts, clothing and behavior in cleanrooms, design of cleanroom workstations, acceptance of cleanrooms. Practical work to deepen one of the topics covered in the lecture.
Intended learning outcomes (competencies)	Students can evaluate cleanrooms theoretically and practically. They are able to initiate planning processes for the realization of cleanrooms. Furthermore, students are able to work in cleanrooms. They are familiar with the behaviors required for working in cleanrooms and can thus be used in the production and research of integrated circuits.
Teaching methods	☒Lecture ☒Group work ☐Exercises ☐Simulation ☐Video feedback ☒Other: practical work
Audit performance	
Notes	
Usability	Microelectronics, microsystems, precision mechanics, microstructuring production and development areas