

Curriculum

Integrated Systems and Circuits Design

Master | Work-friendly

1 st Semester	ECTS
Analog Integrated Circuits 1	5
Digital Integrated Circuits 1	5
Integrated Circuits Technology	5
Introduction to Integrated Circuits Design Project	5
Computer Aided Design 1	5
Methods in Systems and Circuits Theory	5
Total	30

2 nd Semester	ECTS
Analog Integrated Circuits 2	5
Digital Integrated Circuits 2	5
Computer Aided Design 2	5
System Modelling and Verification	5
Design and Implementation of Analog Circuits and Systems	5
Design and Implementation of Digital Circuits and Systems	5
Total	30

3 rd Semester	ECTS
Verification of Integrated Circuits and Systems	5
Radio-Frequency Circuits and Systems	5
Integrated Sensors	5
Smart Power Integrated Circuits	5
Advanced Topics in Mixed Signal Design (elective)	5
Integrated Data Converters	
Analog Integrated Circuits 3	
Advanced Topics in System-on-Chip Design (elective)	5
System-on-Chip and Embedded Computing	
Integrated Circuits Design Automation	
Total	30

4 th Semester	ECTS
Master Thesis	24
Master Thesis Seminar	3
Master Exam	3
Total	30
Total Sum	120

ECTS = European Credit Transfer System