Integrated circuits have seen an unprecedented development over the last six decades. Fabrication technologies with structure sizes down to 5 nm allow always more complex, more reliable and more cost efficient solutions, reaching new application areas. Due to new requirements and especially due to the enormous complexity, new challenges in the design of integrated systems and circuits have to be faced. The master degree programme ISCD – Integrated Systems and Circuits Design provides the necessary knowledge to tackle these challenges.

JOBS AND CAREER
The typical graduate will be working for integrated circuit manufacturers, fabless foundries, design houses or suppliers of system solutions using VLSI components.

Research and development in the field of microelectronics is done in close cooperation with Austrian and international partners. So, students have the opportunity to write their master thesis with a company or apply for an internship. For more information on current and completed projects in the area of microelectronics: www.fh-kaernten.at/iscd

COURSE INFORMATION
The first 2 semesters consist of basic courses. The specialization in either analogue or digital integrated circuits and integrated systems solutions, takes place in the 3rd semester. In the last semester students write their thesis, which is accompanied by seminars, presentations and technical discussions.

The practical aspect is emphasized by project modules, spanning from 1st to 3rd semester - starting with designing an integrated circuit in a small team and later implementing the testchip. After the fabrication of the testchip, samples will be evaluated by the students with state of the art test equipment.

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"In the last decades several High Tech Companies did settle down in the South of Austria, in Carinthia. I started my career over here in the end Nineties. In my former job, as Manager at INTEL Austria, and also now, as Site Manager of MaxLinear Austria, I appreciate a lot the excellent cooperation with Fachhochschule Kärnten, especially with the ISCD team. Learning at the ISCD gives the student the chance to get in touch with people from world class companies in the field of Semiconductor Design and Manufacturing. Graduating at ISCD does mean that you will be best prepared for an exciting and excellent paid job in the High Tech Semiconductor Industry. This statement does get underlined by the fact that several employees from MaxLinear Austria went this way – from ISCD Master Program directly to our team, working with us on leading edge Communication IC product development projects."

PETER PESSL, COMMERCIAL MANAGER MAXLINEAR AUSTRIA GMBH

DATES
Start: 1 October 2024
Study guidance: info@fh-kaernten.at | +43 5 50500 7700
FH Days and information events: all dates at www.fh-kaernten.at/study-guidance

COSTS
Tuition fee: € 363.36 per semester
Student Union Fee: around € 22, annual adjustment