# Course of Study Microelectronics and Microsystems (Study Cohort w22)

Sample course plan O  Master Microelectronics and Microsystems (IMPMM) Dual study program

Specialisation Microelectronics Complements

| Legend | | | |
|---|---|---|---|
| Core Qualification Compulsory | Specialisation Compulsory | Focus Compulsory | Thesis Compulsory |
| Core Qualification Elective Compulsory | Specialisation Elective Compulsory | Focus Elective Compulsory | Interdisciplinary complement |

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|---|---|---|---|---|
| 1 | **Practical module 1 (dual study program, Master's degree)** | **Practical module 2 (dual study program, Master's degree)** | **Project Work IMPMM** | **Master thesis (dual study program)** |
| 2 | Practical term 1 0 | Practical term 2 0 | | |
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| 11 | **Microsystem Engineering** | **Microsystem Design** | | |
| 12 | Microsystem Engineering VL 2 | Microsystem Design VL 2 | | |
| 13 | Microsystem Engineering PBL 2 | Microsystem Design PR 3 | | |
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| 15 | | | | |
| 16 | | | **Seminar for IMPMM** | |
| 17 | **Microsystems Technology in Theory and Practice** | **Semiconductor Technology** | Seminar for IMPMM SE 2 | |
| 18 | Microsystems Technology VL 2 | Semiconductor Technology VL 4 | | |
| 19 | Microsystems Technology PBL 2 | Semiconductor Technology PR 2 | **Practical module 3 (dual study program, Master's degree)** | |
| 20 | | | Practical term 3 0 | |
| 21 | | | | |
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| 23 | **Integrated Circuit Design** | **Advanced IC Design** | | |
| 24 | Integrated Circuit Design VL 3 | Advanced IC Design VL 2 | | |
| 25 | Integrated Circuit Design GÜ 1 | Advanced IC Design PBL 2 | | |
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| 29 | **Silicon Photonics** | **Optoelectronics I - Wave Optics** | **Optoelectronics II - Quantum Optics** | |
| 30 | Silicon Photonics VL 2 | Optoelectronics I: Wave Optics VL 2 | Optoelectronics II: Quantum Optics VL 2 | |
| 31 | Silicon Photonics PBL 2 | Optoelectronics I: Wave Optics GÜ 1 | Optoelectronics II: Quantum Optics GÜ 1 | |
| 32 | | | | |
| 33 | | **Fibre and Integrated Optics** | | |
| 34 | | Fibre and Integrated Optics VL 2 | | |
| 35 | | Fibre and Integrated Optics GÜ 1 | | |
| 36 | | | | |

Business & Management (from catalogue) - 6LP

Technical Elective Complementary Course for IMPMM - field ET (according to Subject Specific Regulations) - 6LP

Linking theory and practice (dual study program, Master's degree) (from catalogue) - 6LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.