OSTBAYERISCHE
TECHNISCHE HOCHSCHULE
REGENSBURG

# Courses for International Master Study Programme

# Electrical and Microsystems Engineering

Courses are always subject to change

**Basic courses (in total 26 ECTS)**

| | |
|---|---|
| Advanced Engineering Mathematics | Winter and Summer Semester |
| Applied Optics | Summer Semester |
| Advanced Optoelectronics | Winter Semester |
| **or** | |
| Selected topics of electrical engineering | Winter semester |
| Photonics and Laser | Winter Semester |
| **or** | |
| Engineering Chemistry | Summer Semester |

**Consolidation courses (only 4 needed)**

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|---|---|
| LED Technology | Summer Semester |
| Labview Projects | Summer Semester |
| Electronic Product Engineering | Summer Semester |
| Multiprocessor and Multicore | Block course September and |
| Design for Reliable Embedded Systems | February/March |
| Advanced Semiconductor Technology | Block courses in semester break or during semester |
| Cybernetics | Winter Semester |
| Fiberoptic Communication | Winter Semester |
| Surface Engineering of Semiconductor Materials | Winter Semester |
| Nanoparticles for Information Technologies | Winter Semester |
| Quantum Theory 1 | Winter Semester |
| Quantum Theory 2 | Summer Semester |
| Partial Differential Equations | Summer Semester |
| Advanced Packaging | Winter Semester |

**Interdisciplinary courses (in total 12 ECTS, 1 block need to be selected)**

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**Block 1**

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|---|---|
| Research Methodology | Winter and Summer Semester |
| Project Management | Winter and Summer Semester |
| German Language (7ECTS total, 4 ECTS/course) | Winter and Summer Semester |

**Block 2**

| | |
|---|---|
| German Economy and Society | Winter and Summer Semester |
| How to apply in English | Winter and Summer Semester |
| German Language (7ECTS total, 4 ECTS/course) | Winter and Summer Semester |

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|---|---|
| **Project Thesis** | 180 hours (Laboratory of OTH Regensburg) |
| **Master Thesis with disputation** | 6 months |