

# Course of Study Electrical Engineering (Study Cohort w19)

Sample course plan C Master Electrical Engineering (ETMS)  
Specialisation Information and Communication Systems

| Core qualification Compulsory          | Specialisation Compulsory          | Focus Compulsory          | Thesis Compulsory            |
|--|------------------------------------|---------------------------|------------------------------|
| Core qualification Elective Compulsory | Specialisation Elective Compulsory | Focus Elective Compulsory | Interdisciplinary complement |

| LP | Semester 1  | Form Hrs/wk | Semester 2  | Form Hrs/wk | Semester 3   | Form Hrs/wk | Semester 4           | Form Hrs/wk |
|----|---|-------------|---|-------------|--|-------------|----------------------|-------------|
| 1  | <b>Digital Communications</b>   |             | <b>Pattern Recognition and Data Compression</b>     |             | <b>Research Project and Seminar in Information and Communication Systems</b> |             | <b>Master Thesis</b> |             |
| 2  | Digital Communications  | VL 2        | Pattern Recognition and Data                        | VL 4        |  |             |                      |             |
| 3  | Digital Communications  | HÜ 1        | Compression   |             |  |             |                      |             |
| 4  | Laboratory Digital Communications   | PR 1        |   |             |  |             |                      |             |
| 5  |   |             |   |             |  |             |                      |             |
| 6  |   |             |   |             |  |             |                      |             |
| 7  | <b>Microwave Engineering</b>  |             | <b>Advanced Concepts of Wireless Communications</b> |             |  |             |                      |             |
| 8  | Microwave Engineering   | VL 2        | Advanced Concepts of Wireless                       | VL 3        |  |             |                      |             |
| 9  | Microwave Engineering   | HÜ 2        | Communications                                      |             |  |             |                      |             |
| 10 | Microwave Engineering   | PR 1        | Advanced Concepts of Wireless                       | HÜ 1        |  |             |                      |             |
| 11 |   |             | Communications                                      |             |  |             |                      |             |
| 12 |   |             |   |             |  |             |                      |             |
| 13 | <b>Microsystem Engineering</b>  |             | <b>Information Theory and Coding</b>                |             | <b>Traffic Engineering</b>   |             |                      |             |
| 14 | Microsystem Engineering   | VL 2        | Information Theory and Coding                       | VL 3        | Traffic Engineering  | VL 2        |                      |             |
| 15 | Microsystem Engineering   | PBL 2       | Information Theory and Coding                       | HÜ 1        | Traffic Engineering Exercises  | UE 1        |                      |             |
| 16 |   |             |   |             | Seminar Traffic Engineering  | SE 2        |                      |             |
| 17 |   |             |   |             |  |             |                      |             |
| 18 |   |             |   |             |  |             |                      |             |
| 19 | <b>Control Systems Theory and Design</b>  |             |   |             |  |             |                      |             |
| 20 | Control Systems Theory and Design   | VL 2        |   |             |  |             |                      |             |
| 21 | Control Systems Theory and Design   | UE 2        |   |             |  |             |                      |             |
| 22 |   |             |   |             |  |             |                      |             |
| 23 |   |             |   |             |  |             |                      |             |
| 24 |   |             |   |             |  |             |                      |             |
| 25 | <b>Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids</b> |             |   |             |  |             |                      |             |
| 26 | Electrical Power Systems II: Operation  | VL 2        |   |             |  |             |                      |             |
| 27 | and Information Systems of Electrical   |             |   |             |  |             |                      |             |
| 28 | Power Grids   | HÜ 2        |   |             |  |             |                      |             |
| 29 | Electrical Power Systems II: Operation  |             |   |             |  |             |                      |             |
| 30 | and Information Systems of Electrical   |             |   |             |  |             |                      |             |
|    | Power Grids   |             |   |             |  |             |                      |             |
|    | Business & Management (from catalogue) - 6LP  |             |   |             |  |             |                      |             |
|    | Non-technical Courses for Master (from catalogue) - 6LP   |             |   |             |  |             |                      |             |
|    | Technical Complementary Course for ETMS (according to Subject Specific Regulations) - 12LP      |             |   |             |  |             |                      |             |

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

