# International Bachelor of Engineering – Electrical Engineering and Information Technology

**SEMESTER**     **FWPM** = Specialist required Elective Courses                                **CREDIT POINTS (CP)**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1** | IBR13 Mathematics 1.1 (5 CP) | | | | | IBR15 Applied Informatics (5 CP) | | | | | IBR16 Engineering Mechanics 1: Statics (5 CP) | | | | | IBR14 Electrical Engineering 1.1 (5 CP) | | | | | IBR11 German B1.1 (5 CP) | | | | | IBR12 German B1.2 (5 CP) | | | | |
| **2** | IBR23 Mathematics 1.2 (5 CP) | | | | | IBR24 Physics 1 (5 CP) | | | | | IBR25 IT-Systems (5 CP) | | | | | IBR25 Electrical Engineering 1.2 (5CP) | | | | | IBR21 German B2.1 (5 CP) | | | | | IBR22 German B2.2 (5 CP) | | | | |
| **3** | IBR33 Mathematics 2 (5 CP) | | | | | IBR25 AC Circuits and Electric Fields (10 CP) | | | | | | | | | | IBR25 Digital Technology (5 CP) | | | | | IBR31 Technical German 1 (5 CP) | | | | | IBR32 Technical German 2 (5 CP) | | | | |
| **4** | EIT31 Object-Oriented Programming (5 CP) | | | | | EIT32 Microcomputer Technology (5 CP) | | | | | EIT33 Electronic Devices (5 CP) | | | | | EIT34 Electric Measurement Technology (5 CP) | | | | | EIT35 Signals and Systems (5 CP) | | | | | EIT3-P Project Work Electronic Modules (5 CP) | | | | |
| **5** | EIT41 Communication Protocols (5 CP) | | | | | EIT42 Electric Drives (5 CP) | | | | | EIT 43 Continuous Control Systems (5 CP) | | | | | EIT44 Digital Signal Processing (5 CP) | | | | | EIT45 Electronic Circuits (5 CP) | | | | | EIT4-P Project Work System Components (5 CP) | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | Internship component during studies | | | | |
| **6** | Internship in Germany or abroad | | | | | | | | | | | | | | | | | | | | | | | | | EIT-PL Lectures for Practical Internship (6 CP) | | | | |
| | FWPM | | | | | EIT62 Power Electronics (5 CP) | | | | | EIT4-P Project Work System Components (5 CP) | | | | | Internship component during studies | | | | | | | | | | | | | | |
| **7** | EIT61 Software Engineering (5 CP) | | | | | EIT64 High-Frequency Technology (5 CP) | | | | | EIT63 Electronic Control Unit Development (5 CP) | | | | | EIT6-P Project Work System Integration (5 CP) | | | | | FWPM | | | | | EIT62 Power Electronics (5 CP) | | | | |
| | | | | | | | | | | | | | | | | | | | | | Internship component during studies | | | | | | | | | |
| **8** | EIT71 Machine Learning (5 CP) | | | | | EIT72 Communications (5 CP) | | | | | FWPM | | | | | | | | | | BA Bachelor`s Thesis (12 CP) | | | | | | | | | |

**in total 240 CP**

**Module legend:**

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| ■ | Rosenheim study model <u>with</u> practical semester |
| ■ | Rosenheim study model <u>without</u> practical semester |
| ■ | German as a foreign language |
| □ | Modules taught in German |