

Studienablaufplan für den Bachelorstudiengang Ingenieurpädagogik - berufliche Fachrichtung Elektro- und Informationstechnik

| Ifd. Nr. | Modulgruppen/Modul   | 1. Semester        |      | 2. Semester       |      | 3. Semester        |      | 4. Semester       |      | 5. Semester       |      | 6. Semester       |      | 7. Semester       |      | Gesamt            |      |      |  |  |
|----------|--|--------------------|------|-------------------|------|--------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|------|--|--|
|          |  | Kontaktstd. (SWS)  | ECTS | Kontaktstd. (SWS) | ECTS | Kontaktstd. (SWS)  | ECTS | Kontaktstd. (SWS) | ECTS | Kontaktstd. (SWS) | ECTS | Kontaktstd. (SWS) | ECTS | Kontaktstd. (SWS) | ECTS | Kontaktstd. (SWS) | ECTS | %    |  |  |
|          |  | Studienabschnitt 1 |      |                   |      | Studienabschnitt 2 |      |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 1        | Berufliche Fachrichtung - Studienabschnitt 1               | 23                 | 25   | 23                | 24   | 0                  | 0    | 0                 | 0    | 0                 | 0    | 0                 | 0    | 0                 | 0    | 46                | 49   | 23%  |  |  |
| 1.1      | Mathematik 1   | 8                  | 8    |                   |      |                    |      |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 1.2      | Elektrotechnik 1   | 8                  | 9    |                   |      |                    |      |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 1.3      | Informatik 1   | 5                  | 5    | 5                 | 5    |                    |      |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 1.4      | Werkstofftechnik   | 2                  | 3    |                   |      |                    |      |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 1.5      | Mathematik 2   |                    |      | 8                 | 7    |                    |      |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 1.6      | Elektrotechnik 2   |                    |      | 8                 | 9    |                    |      |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 1.7      | Konstruktion   |                    |      | 2                 | 3    |                    |      |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 2        | Berufliche Fachrichtung - Studienabschnitt 2               | 0                  | 0    | 0                 | 0    | 20                 | 23   | 20                | 24   | 0                 | 0    | 8                 | 10   | 0                 | 0    | 48                | 57   | 27%  |  |  |
| 2.1      | Angewandte Systemtechnik                                   |                    |      |                   |      | 6                  | 7    |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 2.2      | Digitaltechnik   |                    |      |                   |      | 6                  | 7    |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 2.3      | Elektrotechnik 3   |                    |      |                   |      | 4                  | 5    |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 2.4      | Elektronische Bauelemente und Schaltungstechnik            |                    |      |                   |      | 4                  | 4    | 4                 | 5    |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 2.5      | Elektrische Messtechnik                                    |                    |      |                   |      |                    |      | 4                 | 5    |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 2.6      | Embedded Systems   |                    |      |                   |      |                    |      | 6                 | 7    |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 2.7      | Regelungstechnik   |                    |      |                   |      |                    |      | 6                 | 7    |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 2.8      | Grundlagen elektr. Maschinen und Antriebe                  |                    |      |                   |      |                    |      |                   |      |                   |      | 4                 | 5    |                   |      |                   |      |      |  |  |
| 2.9      | Hochfrequenztechnik  |                    |      |                   |      |                    |      |                   |      |                   |      | 4                 | 5    |                   |      |                   |      |      |  |  |
| 3        | Unterrichtsfach Informatik*                                | 0                  | 0    | 0                 | 0    | 10                 | 10   | 0                 | 0    | 4                 | 3    | 12                | 15   | 10                | 12   | 36                | 40   | 19%  |  |  |
| 3.1      | Objektorientierte Programmierung (Informatik 2)            |                    |      |                   |      | 6                  | 5    |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 3.2      | Theoretische Informatik                                    |                    |      |                   |      | 4                  | 5    |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 3.3      | Datenbanksysteme   |                    |      |                   |      |                    |      |                   |      |                   |      | 4                 | 5    |                   |      |                   |      |      |  |  |
| 3.4      | Benutzeroberflächenprogrammierung                          |                    |      |                   |      |                    |      |                   |      |                   |      | 4                 | 5    |                   |      |                   |      |      |  |  |
| 3.5      | Mobile & Ubiquitous Computing                              |                    |      |                   |      |                    |      |                   |      |                   |      | 4                 | 5    |                   |      |                   |      |      |  |  |
| 3.6      | SW-Engineering   |                    |      |                   |      |                    |      |                   |      |                   |      |                   |      | 6                 | 7    |                   |      |      |  |  |
| 3.7      | Computernetzwerke  |                    |      |                   |      |                    |      |                   |      |                   |      |                   |      | 4                 | 5    |                   |      |      |  |  |
| 3.8      | SW-Modul   |                    |      |                   |      |                    |      |                   |      | 4                 | 3    |                   |      |                   |      |                   |      |      |  |  |
| 4        | Unterrichtsfach Mechatronik*                               | 0                  | 0    | 4                 | 5    | 4                  | 5    | 0                 | 0    | 4                 | 5    | 12                | 15   | 8                 | 10   | 32                | 40   | 19%  |  |  |
| 4.1      | Fertigungstechnik  |                    |      |                   |      |                    |      |                   |      |                   |      | 4                 | 5    |                   |      |                   |      |      |  |  |
| 4.2      | Technische Mechanik (II)                                   |                    |      | 4                 | 5    |                    |      |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 4.3      | Automatisierungstechnik                                    |                    |      |                   |      |                    |      |                   |      |                   |      | 4                 | 5    |                   |      |                   |      |      |  |  |
| 4.4      | CNC-Programmierung & Koordinatenmesstechnik                |                    |      |                   |      |                    |      |                   |      |                   |      | 4                 | 5    |                   |      |                   |      |      |  |  |
| 4.5      | Maschinendynamik   |                    |      |                   |      | 4                  | 5    |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 4.6      | Mechatronische Systeme                                     |                    |      |                   |      |                    |      |                   |      |                   |      |                   |      | 4                 | 5    |                   |      |      |  |  |
| 4.7      | Robotik  |                    |      |                   |      |                    |      |                   |      |                   |      |                   |      | 4                 | 5    |                   |      |      |  |  |
| 4.8      | SW-Modul   |                    |      |                   |      |                    |      |                   |      | 4                 | 5    |                   |      |                   |      |                   |      |      |  |  |
| 5        | Sozialwissenschaften / Berufspädagogik                     | 4                  | 5    | 2                 | 0    | 0                  | 0    | 8                 | 10   | 0                 | 0    | 4                 | 5    | 4                 | 5    | 22                | 25   | 12%  |  |  |
| 5.1      | Begleitete schulpraktische Studien                         | 4                  | 5    | 2                 |      |                    |      |                   |      |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 5.2      | Grundlagen der Berufspädagogik und Didaktik                |                    |      |                   |      |                    |      | 4                 | 5    |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 5.3      | Einführung in die pädagogische Psychologie                 |                    |      |                   |      |                    |      | 4                 | 5    |                   |      |                   |      |                   |      |                   |      |      |  |  |
| 5.4      | Einführung in die empirisch-pädagogische Forschung         |                    |      |                   |      |                    |      |                   |      |                   |      | 4                 | 5    |                   |      |                   |      |      |  |  |
| 5.5      | Berufliche Weiterbildung und Lernen im Prozess der Arbeit  |                    |      |                   |      |                    |      |                   |      |                   |      |                   |      | 4                 | 5    |                   |      |      |  |  |
| 6        | Praxisphase  | 0                  | 0    | 0                 | 0    | 0                  | 0    | 0                 | 0    | 6                 | 27   | 0                 | 0    | 0                 | 0    | 6                 | 27   | 13%  |  |  |
| 6.1      | Praxisphase im Betrieb                                     |                    |      |                   |      |                    |      |                   |      | 0                 | 22   |                   |      |                   |      |                   |      |      |  |  |
| 6.2      | Praxisseminar  |                    |      |                   |      |                    |      |                   |      | 2                 | 0    |                   |      |                   |      |                   |      |      |  |  |
| 6.3      | Praxisbegleitende Lehrveranstaltungen (BWL u. Projektman.) |                    |      |                   |      |                    |      |                   |      | 4                 | 5    |                   |      |                   |      |                   |      |      |  |  |
| 7        | Bachelor-Abschluss   | 0                  | 0    | 0                 | 0    | 0                  | 0    | 0                 | 0    | 0                 | 0    | 0                 | 0    | 2                 | 12   | 2                 | 12   | 6%   |  |  |
| 7.1      | Bachelorarbeit   |                    |      |                   |      |                    |      |                   |      |                   |      |                   |      | 0                 | 12   |                   |      |      |  |  |
| 7.2      | Bachorseminar  |                    |      |                   |      |                    |      |                   |      |                   |      |                   |      | 2                 | 0    |                   |      |      |  |  |
|          | Summe mit Informatik:                                      | 27                 | 30   | 25                | 24   | 30                 | 33   | 28                | 34   | 10                | 30   | 24                | 30   | 16                | 29   | 160               | 210  | 100% |  |  |
|          | Summe mit Mechatronik:                                     | 27                 | 30   | 29                | 29   | 24                 | 28   | 28                | 34   | 10                | 32   | 24                | 30   | 14                | 27   | 156               | 210  | 100% |  |  |

Module der Fakultät MB/UT

\* Es ist entweder Informatik oder Mechatronik zu wählen.