

Anlage 3

Studienverlaufsplan

| Module Fächer | 1. Sem. | | | | | | 2. Sem. | | | | | | 3. Sem. | | | | | |
|---------------------------------|---------|----------|---|---|---|----------|---------|----------|---|---|---|----------|---------|----------|---|---|---|----------|
| | V | Ü SWS | T | S | P | CP | V | Ü SWS | T | S | P | CP | V | Ü SWS | T | S | P | CP |
| Mathematik 1/P | | | | | | 7 | | | | | | | | | | | | |
| Analysis I und Vektoralgebra | 3 | | | | | 5 | | | | | | | | | | | | |
| Übungen/Anwendersoftware I | | 1 | 2 | | | 2 | | | | | | | | | | | | |
| Mathematik 2/P | | | | | | | | | | | | 7 | | | | | | |
| Analysis II und Vektoranalysis | | | | | | | 3 | | | | | 5 | | | | | | |
| Übungen/Anwendersoftware II | | | | | | | | 1 | 2 | | | 2 | | | | | | |
| Mathematik 3/P | | | | | | | | | | | | | | | | | | 5 |
| Mathemat. Methoden der Physik | | | | | | | | | | | | | 3 | 1 | 2 | | | |
| Physik 1/P | | | | | | 8 | | | | | | | | | | | | |
| Mechanik und Elektrizitätslehre | 3 | 1 | 2 | | | 5 | | | | | | | | | | | | |
| Optik | 2 | | | | | 3 | | | | | | | | | | | | |
| Physik 2/P | | | | | | | | | | | | 9 | | | | | | |
| Magnetismus und Wärmelehre | | | | | | | 3 | 1 | 2 | | | 5 | | | | | | |
| Physikpraktikum | | | | | | | | | | | 4 | 4 | | | | | | |
| Physik 3/P | | | | | | | | | | | | | | | | | | 9 |
| Atom- und Molekülphysik | | | | | | | | | | | | | 3 | 1 | | | | 4 |
| Physikpraktikum/Projektstudium | | | | | | | | | | | | | | | | | 4 | 5 |
| Informatik/P | | | | | | 5 | | | | | | 5 | | | | | | |
| Informatik I | 2 | 2 | | | | 5 | | | | | | | | | | | | |
| Informatik II | | | | | | | 2 | 2 | | | | 5 | | | | | | |

| Module Fächer | 1. Sem. | | | | | | 2. Sem. | | | | | | 3. Sem. | | | | | |
|---|-----------|----------|----------|---|---|-----------|-----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|----------|-----------|
| | V | Ü SWS | T | S | P | CP | V | Ü SWS | T | S | P | CP | V | Ü SWS | T | S | P | CP |
| Technik 1/P | | | | | | 8 | | | | | | | | | | | | |
| Chemie | 2 | | | | | 2 | | | | | | | | | | | | |
| Elektronik I | 2 | | | | | 2 | | | | | | | | | | | | |
| Einführung in die Fertigungstechnik | 2 | | | | | 2 | | | | | | | | | | | | |
| Technische Mechanik und Festigkeitslehre | 2 | | | | | 2 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Technik 2/P | | | | | | | | | | | | 6 | | | | | | |
| Design Fundamentals | | | | | | | 2 | 2 | | | | 4 | | | | | | |
| Elektronik II | | | | | | | 2 | | | | | 2 | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Optische Systeme | | | | | | | | | | | | | | | | | | 4 |
| Optische Systeme | | | | | | | | | | | | | 3 | 1 | | | | 4 |
| | | | | | | | | | | | | | | | | | | |
| Regelungstechnik/P | | | | | | | | | | | | | | | | | | 7 |
| Mess- und Regelungstechnik | | | | | | | | | | | | | 2 | | | | 4 | 7 |
| | | | | | | | | | | | | | | | | | | |
| Materialwissenschaften/P | | | | | | | | | | | | | | | | | | 4 |
| Materialwissenschaften | | | | | | | | | | | | | 3 | 1 | | | | |
| | | | | | | | | | | | | | | | | | | |
| Fremdsprachen | | | | | | 2 | | | | | | 2 | | | | | | |
| Fremdsprachen | 2 | | | | | 2 | 2 | | | | | 2 | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Präsentation¹⁾ | | | | | | | | | | | | 1 | | | | | | 1 |
| Präsentation I, II | | | | | | | | | | 1 | | 1 | | | | 1 | | 1 |
| Summe | 20 | 4 | 4 | | | 30 | 14 | 6 | 4 | 1 | 4 | 30 | 14 | 4 | 2 | 1 | 8 | 30 |

| Module Fächer | 4. Sem. | | | | | 5. Sem. | | | | | 6. Sem. | | | | |
|-----------------------------------|---------|----------|---|---|----------|---------|----------|---|---|----------|---------|----------|---|---|----|
| | V | Ü SWS | S | P | CP | V | Ü SWS | S | P | CP | V | Ü SWS | S | P | CP |
| Photonik 1/P | | | | | 9 | | | | | | | | | | |
| Festkörperphysik | 2 | | | | 3 | | | | | | | | | | |
| Optoelektronik | 2 | | | | 2 | | | | | | | | | | |
| Quantenoptik | 3 | 1 | | | 4 | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Photonik 2/P | | | | | 7 | | | | | | | | | | |
| Photonikpraktikum | | | | 4 | 6 | | | | | | | | | | |
| Photonikseminar | | | 2 | | 1 | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Lasertechnik1/P | | | | | 6 | | | | | | | | | | |
| Optische Kommunikationstechnik | 2 | | | | 2 | | | | | | | | | | |
| Materialbearbeitung I | 2 | | | | 2 | | | | | | | | | | |
| Lasermedizintechnik I | 2 | | | | 2 | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Lasertechnik2/P | | | | | | | | | | 6 | | | | | |
| Lasergeräteentwicklung | | | | | | 3 | 1 | | | 4 | | | | | |
| Lasermedizintechnik II | | | | | | 2 | | | | 2 | | | | | |
| | | | | | | | | | | | | | | | |
| Materialtechnologie/P | | | | | 8 | | | | | | | | | | |
| Materialbearbeitung II | 2 | | | | 2 | | | | | | | | | | |
| Vakuum- und Kryotechnik | 2 | | | | 2 | | | | | | | | | | |
| Werkstoffanalytik | 3 | 1 | | | 4 | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Sensor- und Mikrotechnik/P | | | | | | | | | | 8 | | | | | |
| Dünne Schichten | | | | | | 2 | | | | 2 | | | | | |
| Integrierte Optik | | | | | | 2 | | | | 2 | | | | | |
| Optische Messtechnik | | | | | | 3 | 1 | | | 4 | | | | | |

| Module Fächer | 4. Sem. | | | | | 5. Sem. | | | | | 6. Sem. | | | | |
|--|-----------|----------|----------|----------|-----------|-----------|----------|----------|----------|-----------|---------|----------|---|---|-----------|
| | V + | Ü SWS | S | P | CP | V+ | Ü SWS | S | P | CP | V | Ü SWS | S | P | CP |
| Technische Vertiefungsfächer/WP | | | | | | | | | | 12 | | | | | |
| Projekt I | | | | | | | | | 4 | 6 | | | | | |
| Projekt II | | | | | | | | | 4 | 6 | | | | | |
| | | | | | | | | | | | | | | | |
| Nichttechnisches Wahlpflicht- fach/WP | | | | | | | | | | 1 | | | | | |
| Wahlpflichtfach | | | | | | 2 | | | | 1 | | | | | |
| | | | | | | | | | | | | | | | |
| Grundlagen der Betriebswirtschaftslehre/P | | | | | | 2 | | | | 2 | | | | | |
| | | | | | | | | | | | | | | | |
| Präsentation¹⁾ | | | | | | | | | 1 | 1 | | | | | |
| Präsentation III | | | | | | | | | 1 | 1 | | | | | |
| | | | | | | | | | | | | | | | |
| Praxisphase | | | | | | | | | | | | | | | 16 |
| | | | | | | | | | | | | | | | |
| Bachelor-Arbeit/ Kolloquium | | | | | | | | | | | | | 2 | | 14 |
| | | | | | | | | | | | | | | | |
| Summe | 20 | 2 | 2 | 4 | 30 | 16 | 2 | 1 | 8 | 30 | | | | | 30 |

¹⁾ Das Modul **Präsentation** besteht aus drei Präsentationen im 2., 3. und 5. Fachsemester

- CP = Kreditpunkt
- P = Pflichtmodul
- S = Seminar
- SWS = Semesterwochenstunde
- T = Tutorium
- Ü = Übung
- V = Vorlesung
- WP = Wahlpflichtmodul