

# Studienplan Vollzeit

## Bachelorstudiengang Telematik - Angewandte Informatik, B.Eng.

Studententyp Vollzeit

gültig ab WS 2026/2027

| Module  | V         | Ü         | L         | P        | S        | ges. SWS   | PA  | 1.Sem./WiSe |           | 2.Sem./SoSe |           | 3.Sem./WiSe |           | 4.Sem./SoSe |           | 5.Sem./WiSe |           | 6.Sem./SoSe |           |
|---|-----------|-----------|-----------|----------|----------|------------|-----|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
|   |           |           |           |          |          |            |     | SWS         | CP        | SWS         | CP        | SWS         | CP        | SWS         | CP        | SWS         | CP        | SWS         | CP        |
| <b>Informatik</b>                                     |           |           |           |          |          |            |     |             |           |             |           |             |           |             |           |             |           |             |           |
| Technische Informatik                                 | 2         | 0         | 2         | 0        | 0        | 4          | KMP | 4           | 5         |             |           |             |           |             |           |             |           |             |           |
| Betriebssysteme                                       | 2         | 0         | 2         | 0        | 0        | 4          | FMP |             |           | 4           | 4         |             |           |             |           |             |           |             |           |
| Programmierung I                                      | 2         | 0         | 2         | 0        | 0        | 4          | KMP | 4           | 6         |             |           |             |           |             |           |             |           |             |           |
| Algorithmen und Datenstrukturen                       | 4         | 0         | 2         | 0        | 0        | 6          | KMP |             |           | 6           | 5         |             |           |             |           |             |           |             |           |
| Programmierung II                                     | 4         | 0         | 2         | 0        | 0        | 6          | KMP |             |           |             |           | 6           | 5         |             |           |             |           |             |           |
| Datenbanken I   | 2         | 0         | 2         | 0        | 0        | 4          | KMP |             |           |             |           | 4           | 4         |             |           |             |           |             |           |
| Datenbanken II  | 2         | 0         | 2         | 0        | 0        | 4          | KMP |             |           |             |           |             |           | 4           | 4         |             |           |             |           |
| IT-Administration                                     | 0         | 0         | 2         | 0        | 0        | 2          | SMP |             |           | 2           | 2         |             |           |             |           |             |           |             |           |
| Grundlagen Künstliche Intelligenz                     | 4         | 0         | 2         | 0        | 0        | 6          | KMP |             |           |             |           | 6           | 5         |             |           |             |           |             |           |
| Software-Engineering                                  | 2         | 0         | 2         | 0        | 0        | 4          | KMP |             |           |             |           | 4           | 4         |             |           |             |           |             |           |
| Internetprogrammierung                                | 2         | 0         | 2         | 0        | 0        | 4          | KMP |             |           |             |           |             |           | 4           | 4         |             |           |             |           |
| <b>Anwendungsspezifische Module</b>                   |           |           |           |          |          |            |     |             |           |             |           |             |           |             |           |             |           |             |           |
| Interne Kommunikation                                 | 2         | 0         | 2         | 0        | 0        | 4          | KMP | 4           | 5         |             |           |             |           |             |           |             |           |             |           |
| Telematiksysteme                                      | 2         | 0         | 2         | 0        | 0        | 4          | KMP |             |           | 4           | 4         |             |           |             |           |             |           |             |           |
| Mobilkommunikation                                    | 2         | 0         | 2         | 0        | 0        | 4          | KMP |             |           |             |           | 4           | 4         |             |           |             |           |             |           |
| Telekommunikationsnetze und -dienste                  | 2         | 0         | 2         | 0        | 0        | 4          | KMP |             |           |             |           |             |           | 4           | 4         |             |           |             |           |
| Virtual Reality und Simulation                        | 2         | 0         | 2         | 0        | 0        | 4          | KMP |             |           |             |           |             |           | 4           | 4         |             |           |             |           |
| <b>Mathematisch-naturwissenschaftliche Grundlagen</b> |           |           |           |          |          |            |     |             |           |             |           |             |           |             |           |             |           |             |           |
| Mathematik I  | 2         | 2         | 0         | 0        | 0        | 4          | FMP | 4           | 5         |             |           |             |           |             |           |             |           |             |           |
| Mathematik II   | 4         | 2         | 0         | 0        | 0        | 6          | FMP |             |           | 6           | 4         |             |           |             |           |             |           |             |           |
| Grundlagen Elektrotechnik                             | 2         | 0         | 2         | 0        | 0        | 4          | KMP | 4           | 5         |             |           |             |           |             |           |             |           |             |           |
| Grundlagen Nachrichtentechnik                         | 2         | 0         | 2         | 0        | 0        | 4          | KMP |             |           | 4           | 4         |             |           |             |           |             |           |             |           |
| Kryptologie   | 4         | 0         | 2         | 0        | 0        | 6          | KMP |             |           |             |           |             |           | 6           | 4         |             |           |             |           |
| Stochastik  | 4         | 2         | 0         | 0        | 0        | 6          | FMP |             |           |             |           |             |           |             |           | 6           | 4         |             |           |
| <b>Allgemeine Grundlagen</b>                          |           |           |           |          |          |            |     |             |           |             |           |             |           |             |           |             |           |             |           |
| Kommunikations- und Präsentationstraining             | 0         | 4         | 0         | 0        | 0        | 4          | SMP | 4           | 4         |             |           |             |           |             |           |             |           |             |           |
| Projektmanagement                                     | 2         | 2         | 0         | 0        | 0        | 4          | KMP |             |           |             |           |             |           | 4           | 4         |             |           |             |           |
| BWL für Telematik                                     | 2         | 0         | 2         | 0        | 0        | 4          | SMP |             |           |             |           |             |           |             |           | 4           | 4         |             |           |
| Recht (Grundwissen für Telematik)                     | 2         | 2         | 0         | 0        | 0        | 4          | SMP |             |           |             |           |             |           |             |           |             |           | 4           | 4         |
| Telematik und Gesellschaft                            | 2         | 0         | 2         | 0        | 0        | 4          | SMP |             |           |             |           |             |           |             |           |             |           | 4           | 4         |
| <b>Wahlpflichtmodule</b>                              |           |           |           |          |          |            |     |             |           |             |           |             |           |             |           |             |           |             |           |
| Wahlpflichtmodul I                                    | 2         | 0         | 2         | 0        | 0        | 4          | *** |             |           |             |           |             |           |             |           | 4           | 4         |             |           |
| Wahlpflichtmodul II                                   | 2         | 0         | 2         | 0        | 0        | 4          | *** |             |           |             |           |             |           |             |           | 4           | 4         |             |           |
| Wahlpflichtmodul III                                  | 2         | 0         | 2         | 0        | 0        | 4          | *** |             |           |             |           |             |           |             |           | 4           | 4         |             |           |
| Wahlpflichtmodul IV                                   | 2         | 0         | 2         | 0        | 0        | 4          | *** |             |           |             |           |             |           |             |           | 4           | 4         |             |           |
| Wahlpflichtmodul V                                    | 2         | 0         | 2         | 0        | 0        | 4          | *** |             |           |             |           |             |           |             |           |             |           | 4           | 4         |
| Wahlpflichtmodul VI                                   | 2         | 0         | 2         | 0        | 0        | 4          | *** |             |           |             |           |             |           |             |           |             |           | 4           | 4         |
| <b>Summe der Semesterwochenstunden</b>                | <b>74</b> | <b>14</b> | <b>54</b> | <b>0</b> | <b>0</b> | <b>142</b> |     | <b>24</b>   |           | <b>26</b>   |           | <b>24</b>   |           | <b>26</b>   |           | <b>26</b>   |           | <b>16</b>   |           |
| <b>Summe CP Lehre</b>                                 |           |           |           |          |          | <b>139</b> |     |             | <b>30</b> |             | <b>23</b> |             | <b>22</b> |             | <b>24</b> |             | <b>24</b> |             | <b>16</b> |
| <b>CP für Betriebspraktika</b>                        |           |           |           |          |          | <b>15</b>  |     |             |           |             | <b>7</b>  |             |           |             |           |             |           | <b>8</b>    |           |
| <b>CP für Projektstudium</b>                          |           |           |           |          |          | <b>14</b>  |     |             |           |             |           | <b>7</b>    |           | <b>7</b>    |           |             |           |             |           |
| <b>CP für Bachelorarbeit</b>                          |           |           |           |          |          | <b>11</b>  |     |             |           |             |           |             |           |             |           |             |           |             | <b>11</b> |
| <b>CP für Kolloquium</b>                              |           |           |           |          |          | <b>1</b>   |     |             |           |             |           |             |           |             |           |             |           |             | <b>1</b>  |
| <b>Summe CP</b>                                       |           |           |           |          |          | <b>180</b> |     |             | <b>30</b> |             | <b>30</b> |             | <b>29</b> |             | <b>31</b> |             | <b>32</b> |             | <b>28</b> |

V Vorlesung  
 Ü Übung  
 L Labor  
 P Projekt  
 S Seminar

WiSe Wintersemester  
 SoSe Sommersemester  
 SWS Semesterwochenstunden  
 PA Prüfungsart  
 CP Credit Points

FMP Feste Modulprüfung  
 SMP Studienbegl. Modulprüfung  
 KMP Kombinierte Modulprüfung  
 \*\* Die Prüfungsart ist in einem gesonderten Wahlpflichtkatalog zu entnehmen