

## M\_Wing25.1

## Studienverlaufs- und Prüfungsplan Wirtschaftsingenieurwesen (M.Sc.)



|           |                                                     |                                                     | Aufwand pro Semester |     |   |     |    |       |       |        | Prüfung |      |       |      |      | Einordnung |       |       |     |          |         |         |    |                        |
|-----------|-----------------------------------------------------|-----------------------------------------------------|----------------------|-----|---|-----|----|-------|-------|--------|---------|------|-------|------|------|------------|-------|-------|-----|----------|---------|---------|----|------------------------|
| Modul-Nr. | Modul                                               |                                                     | ECTS pro Semester    |     |   | Fq. | VE | Hfgk. | KoZ   | EiZ    | AA      | Anw. | Vorl. | Art. | Ben. | Vers.      | Dauer | Vert. | WB. | LF.      | Mit.    | Sprache |    | Fachgebiet             |
|           | Prfg.-Nr.                                           | Veranstaltung                                       | 1                    | 2   | 3 |     |    |       | [h]   | [h]    | [h]     |      |       |      |      |            | [min] |       |     |          |         | V.      | M. |                        |
| MM014     | Modern Production Methods                           |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | dmi     |         |    | Technik                |
|           | TM079                                               | Fiber reinforced plastics and hybrids (FRP)         | 2,5                  |     |   | S   | 1  | 12    | 25,0  | 60,0   | 85,0    | N    |       | KM   | J    | 3          | 120   |       | V   | ahb      | EN      | EN      |    |                        |
|           | TM078                                               | Laser Engineering                                   | 2,5                  |     |   | S   | 1  | 12    | 15,0  | 60,0   | 75,0    | N    |       | KM   | J    | 3          | 90    |       | V   | dmi      | EN      | EN      |    |                        |
| MM020     | Social Skills                                       |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | ba      |         |    | Medien & Kommunikation |
|           | TM020                                               | Verhandlungsführung                                 | 3,0                  |     |   | S   | 1  | 12    | 15,0  | 75,0   | 90,0    | J    |       | PR   | N    | o.B.       |       |       | W   | mt       | DE      | DE      |    |                        |
|           | TM081                                               | Assistenz                                           | 2,0                  |     |   | S   | 1  | 12    | 15,0  | 45,0   | 60,0    | J    |       | SA   | N    | o.B.       |       |       | A   | Doz      | DE      | DE      |    |                        |
| MM031     | Internationale Wirtschaft                           |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | gi      |         |    | Wirtschaft             |
|           | TM067                                               | Internationale Wirtschaft                           | 5,0                  |     |   | S   | 2  | 12    | 30,0  | 120,0  | 150,0   | N    |       | K2   | J    | 3          | 90    |       | VU  | gi       | DE (EN) | EN      |    |                        |
| MM101     | Business Intelligence and Data Science              |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | gre     |         |    | Informatik             |
|           | TM011                                               | Business Intelligence and Data Science              | 5,0                  |     |   | S   | 3  | 12    | 45,0  | 105,0  | 150,0   | N    |       | K2   | J    | 3          | 90    |       | VU  | gre      | DE      | EN      |    |                        |
| MM057     | Seminar IT-Management                               |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | gre     |         |    | Integrationsfach       |
|           | TM024                                               | Seminar                                             | 5,0                  |     |   | W+S | 1  | 12    | 15,0  | 135,0  | 150,0   | J    |       | SA   | J    | 3          |       |       | S   | gre      | DE (EN) | EN      |    |                        |
| MM104     | Seminar Finance & Services                          |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | gi      |         |    | Wirtschaft             |
|           | TM024                                               | Seminar                                             | 5,0                  |     |   | W+S | 1  | 12    | 7,5   | 142,5  | 150,0   | J    |       | SA   | J    | 3          |       |       | S   | Doz      | DE (EN) | EN      |    |                        |
| MM109     | Seminar Marketing und Medienmanagement              |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | afi     |         |    | Wirtschaft             |
|           | TM024                                               | Seminar                                             | 5,0                  |     |   | W+S | 1  | 12    | 7,5   | 142,5  | 150,0   | J    |       | SA   | J    | 3          |       |       | S   | Doz      | DE (EN) | EN      |    |                        |
| MM142     | Umwelttechnik                                       |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | smt     |         |    | Technik                |
|           | TM074                                               | Umwelttechnik                                       | 5,0                  |     |   | S   | 2  | 12    | 30,0  | 120,0  | 150,0   | N    |       | MP   | J    | 3          | 20    |       | V   | smt      | DE      | DE      |    |                        |
| MM145     | Seminar Technik                                     |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | smt     |         |    | Technik                |
|           | TM024                                               | Seminar                                             | 5,0 oder 5,0         |     |   | W+S | 1  | 12    | 15,00 | 135,00 | 150,00  | J    |       | SA   | J    | 3          |       |       | S   | Doz      | DE (EN) | DE      |    |                        |
| MM167     | Fallstudien IT-Strategie und Digital Leadership     |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | gre     |         |    | Integrationsfach       |
|           | TM025                                               | Fallstudien IT-Strategie                            | 3,0                  |     |   | S   | 1  | 12    | 15,0  | 75,0   | 90,0    | N    |       | SA   | J    | 3          |       |       | PR  | rpo      | DE (EN) | DE/EN   |    |                        |
|           | TM026                                               | Digital Leadership                                  | 2,0                  |     |   | S   | 1  | 12    | 15,0  | 45,0   | 60,0    | N    |       | SA   | J    | 3          |       |       | VU  | rpo      | DE      | DE      |    |                        |
| MM172     | Industrial Internet of Things                       |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | cbu     |         |    | Integrationsfach       |
|           | TM086                                               | Industrial Internet of Things                       | 3,0                  |     |   | S   | 1  | 12    | 15,0  | 75,0   | 90,0    | N    |       | K2   | J    | 3          | 90    |       | V   | cbu      | EN      | EN      |    |                        |
|           | TM087                                               | Industrial Internet of Things Lab                   | 2,0                  |     |   | S   | 1  | 12    | 15,0  | 45,0   | 60,0    | J    |       | PR   | N    | 3          |       |       | P   | bos      | EN      | EN      |    |                        |
| MM173     | Financial Markets                                   |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | gi      |         |    | Wirtschaft             |
|           | TM093                                               | Financial Markets                                   | 5,0                  |     |   | S   | 2  | 12    | 30,0  | 120,0  | 150,0   | N    |       | K2   | J    | 3          | 90    |       | V   | gi       | DE      | DE      |    |                        |
| MM153     | Ökonometrie                                         |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | fbo     |         |    | Wirtschaft             |
|           | TM053                                               | Ökonometrie                                         | 5,0                  |     |   | S   | 2  | 12    | 30,0  | 120,0  | 150,0   | N    |       | SA   | J    | 3          |       |       | V   | fbo      | DE      | DE      |    |                        |
| MM182     | Sustainable & Digital Brand & Performance Marketing |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | afi     |         |    | Integrationsfach       |
|           | TM099                                               | Sustainable & Digital Brand & Performance Marketing | 5,0                  |     |   | S   | 2  | 12    | 30,0  | 120,0  | 150,0   | N    |       | K2   | J    | 3          | 90    |       | VU  | afi      | DE      | DE      |    |                        |
| MM193     | Systems Engineering                                 |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | dmi     |         |    | Integrationsfach       |
|           | TM114                                               | Systems Engineering                                 | 3,0                  |     |   | S   | 1  | 12    | 15,0  | 75,0   | 90,0    | N    |       | K2   | J    | 3          | 90    |       | V   | dmi      | EN      | EN      |    |                        |
|           | TM115                                               | Systems Engineering Lab                             | 2,0                  |     |   | S   | 1  | 12    | 15,0  | 45,0   | 60,0    | J    |       | AB   | N    | 3          |       |       | U   | dmi      | EN      | EN      |    |                        |
| MM028     | Organisationslehre und Strategisches Management     |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | fbo     |         |    | Wirtschaft             |
|           | TM004                                               | Organisationslehre                                  |                      | 2,5 |   | W   | 1  | 12    | 15,0  | 60,0   | 75,0    | N    |       | KM   | J    | 3          | 120   |       | V   | fbo      | DE      | DE      |    |                        |
|           |                                                     | Strategisches Management                            |                      | 2,5 | W | 1   | 12 | 15,0  | 60,0  | 75,0   | N       |      | VU    |      |      |            |       | fbo   | DE  | DE       |         |         |    |                        |
| MM036     | Automatisierung in der Fertigung                    |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | aha     |         |    | Technik                |
|           | TM047                                               | Automatisierung in der Fertigung                    |                      | 2,0 |   | W   | 1  | 12    | 15,0  | 45,0   | 60,0    | N    |       | KM   | J    | 3          | 75    |       | VU  | aha      | EN      | EN      |    |                        |
|           | TM048                                               | Workshop CNC                                        |                      | 1,0 |   | W   | 1  | 12    | 7,5   | 22,5   | 30,0    | J    |       | AB   | N    | o.B.       |       |       | W   | ig       | EN      | EN      |    |                        |
|           | TM049                                               | Workshop SPS                                        |                      | 1,0 |   | W   | 1  | 12    | 7,5   | 22,5   | 30,0    | J    |       | AB   | N    | o.B.       |       |       | W   | ssc      | EN      | EN      |    |                        |
|           | TM050                                               | Workshop Steuerungstechnik                          |                      | 1,0 |   | W   | 2  | 6     | 11,25 | 18,75  | 30,00   | J    |       | AB   | N    | o.B.       |       |       | W   | bos      | EN      | EN      |    |                        |
| MM150     | Digital Transformation                              |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | gre     |         |    | Integrationsfach       |
|           | TM015                                               | Digital Transformation                              |                      | 5,0 |   | W   | 2  | 12    | 30,0  | 120,0  | 150,0   | N    |       | K2   | J    | 3          | 90    |       | V   | gre      | DE      | EN      |    |                        |
| MM181     | Sustainability Economics and Digital Platforms      |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | gi      |         |    | Integrationsfach       |
|           | TM102                                               | Sustainability Economics and Digital Platforms      |                      | 5,0 |   | W   | 2  | 12    | 30,0  | 120,0  | 150,0   | N    |       | KM   | J    | 3          | 90    |       | VU  | gi       | DE (EN) | DE/EN   |    |                        |
| MM034     | Marktforschung                                      |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | afi     |         |    | Wirtschaft             |
|           | TM066                                               | Marktforschung                                      |                      | 5,0 |   | W   | 2  | 12    | 30,0  | 120,0  | 150,0   | N    |       | KM   | J    | 3          | 90    |       | VU  | afi      | DE      | DE      |    |                        |
| MM049     | Security Management                                 |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | gb      |         |    | Integrationsfach       |
|           | TM008                                               | Security Management                                 |                      | 5,0 |   | W   | 2  | 12    | 30,0  | 120,0  | 150,0   | N    |       | KM   | J    | 3          | 90    |       | VU  | gb       | EN      | EN      |    |                        |
| MM108     | Digitale Medien                                     |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | afi     |         |    | Wirtschaft             |
|           | TM051                                               | Digitale Medien                                     |                      | 5,0 |   | W   | 2  | 12    | 30,0  | 120,0  | 150,0   | N    |       | SA   | J    | 3          |       |       | V   | bau      | DE      | DE      |    |                        |
| MM113     | Mergers and Acquisitions                            |                                                     |                      |     |   |     |    |       |       |        |         |      |       |      |      |            |       |       |     |          | web     |         |    | Wirtschaft             |
|           | TM065                                               | Mergers and Acquisitions                            |                      | 5,0 |   | W   | 2  | 12    | 30,0  | 120,0  | 150,0   | N    |       | K2   | J    | 3          | 120   |       | V   | hie, ysi | DE      | DE      |    |                        |

|                 |                                                      |                                                                  | Aufwand pro Semester |     |      |     |    |       |      |       |       | Prüfung |       |      |      |       | Einordnung |                          |                        |     |      |         |       |                        |
|-----------------|------------------------------------------------------|------------------------------------------------------------------|----------------------|-----|------|-----|----|-------|------|-------|-------|---------|-------|------|------|-------|------------|--------------------------|------------------------|-----|------|---------|-------|------------------------|
| Modul-Nr. Modul |                                                      |                                                                  | ECTS pro Semester    |     |      | Fq. | VE | Hfgk. | KoZ  | EiZ   | AA    | Anw.    | Vorl. | Art. | Ben. | Vers. | Dauer      | Vert.                    | WB.                    | LF. | Mit. | Sprache |       | Fachgebiet             |
|                 | Prfg.-Nr.                                            | Veranstaltung                                                    | 1                    | 2   | 3    |     |    |       | [h]  | [h]   | [h]   |         |       |      |      |       | [min]      |                          |                        |     |      | V.      | M.    |                        |
| MM143           | Energietechnik                                       |                                                                  |                      |     |      |     |    |       |      |       |       |         |       |      |      |       |            | Energie- & Umwelttechnik |                        |     | smt  |         |       | Technik                |
|                 | TM080                                                | Energietechnik                                                   |                      | 5,0 |      | W   | 2  | 12    | 30,0 | 120,0 | 150,0 | N       |       | MP   | J    | 3     | 20         |                          |                        | VU  | smt  | DE      | DE    |                        |
| MM163           | Agiles Projektmanagement und Change Management       |                                                                  |                      |     |      |     |    |       |      |       |       |         |       |      |      |       |            | IT-Management            |                        |     | gre  |         |       | Medien & Kommunikation |
|                 | TM018                                                | Agiles Projektmanagement                                         |                      | 3,0 |      | W   | 1  | 4     | 5,0  | 85,0  | 90,0  | J       |       | KM   | J    | 3     | 60         |                          |                        | VU  | sla  | DE (EN) | DE/EN |                        |
|                 | TM019                                                | Change Management                                                |                      | 2,0 |      | W   | 1  | 12    | 15,0 | 45,0  | 60,0  | N       |       | KM   | J    | 3     | 60         |                          |                        | VU  | aah  | DE      | DE    |                        |
| MM174           | Startup Strategy & Business Plan - A Simulation Game |                                                                  |                      |     |      |     |    |       |      |       |       |         |       |      |      |       |            | Finance & Services       | A1, A2, A3, A7, A8, A9 |     | fko  |         |       | Wirtschaft             |
|                 | TM094                                                | Startup Strategy & Business Plan - A Simulation Game             |                      | 5,0 |      | W   | 1  | 12    | 7,5  | 142,5 | 150,0 | J       |       | PF   | J    | 3     |            |                          |                        | di  | fko  | DE      | DE    |                        |
| MM175           | International Service Business: Concepts & Cases     |                                                                  |                      |     |      |     |    |       |      |       |       |         |       |      |      |       |            | Finance & Services       | A1, A2, A3, A4, A5, A6 |     | gi   |         |       | Wirtschaft             |
|                 | TM095                                                | International Service Business: Concepts & Cases                 |                      | 5,0 |      | W   | 2  | 12    | 30,0 | 120,0 | 150,0 | J       |       | K2   | J    | 3     | 90         |                          |                        | V   | gi   | DE      | DE    |                        |
| MM183           | Sustainable Technologies and Climate Change          |                                                                  |                      |     |      |     |    |       |      |       |       |         |       |      |      |       |            | Energie- & Umwelttechnik |                        |     | dmi  |         |       | Integrationsfach       |
|                 | TM103                                                | Sustainable Technologies and Climate Change                      |                      | 3,0 |      | W   | 1  | 12    | 15,0 | 75,0  | 90,0  | N       |       | KM   | J    | 3     | 90         |                          |                        | V   | dmi  | DE      | EN    |                        |
|                 | TM104                                                | Project Sustainable Technologies and Climate Change              |                      | 2,0 |      | W   | 1  | 2     | 2,5  | 57,5  | 60,0  | J       |       | SA   | J    | 3     |            |                          |                        | PR  | dmi  | DE      | EN    |                        |
| MM195           | AI and Optimization for Industrial Applications      |                                                                  |                      |     |      |     |    |       |      |       |       |         |       |      |      |       |            | Industrie 4.0            |                        |     | cbu  |         |       | Integrationsfach       |
|                 | TM118                                                | Introduction to Industrial AI, Data-driven Industry 4.0 Concepts |                      | 3,0 |      | W   | 2  | 6     | 15,0 | 90,0  | 105,0 | N       |       | K2   | J    | 3     | 90         |                          |                        | V   | cbu  | EN      | EN    |                        |
|                 | TM119                                                | Predictive Maintenance Lab                                       |                      | 2,0 |      | W   | 1  | 6     | 7,5  | 37,5  | 45,0  | J       |       | PR   | N    | 3     |            |                          |                        | P   | cbu  | EN      | EN    |                        |
| MM050           | Master-Thesis                                        |                                                                  |                      |     |      |     |    |       |      |       |       |         |       |      |      |       |            |                          |                        |     | Doz  |         |       | Integrationsfach       |
|                 | TM009                                                | Master-Thesis                                                    |                      |     | 27,0 | W+S | 0  | 12    | 0,0  | 840,0 | 840,0 | N       |       | SA   | J    | 2     |            |                          |                        | TS  | Doz  | DE      | DE    |                        |
| MM058           | Master-Kolloquium                                    |                                                                  |                      |     |      |     |    |       |      |       |       |         |       |      |      |       |            |                          |                        |     | Doz  |         |       | Integrationsfach       |
|                 | TM010                                                | Master-Kolloquium                                                |                      |     | 3,0  | W+S | 0  | 12    | 0,0  | 60,0  | 60,0  | N       | MM050 | KO   | J    | 2     | 60         |                          |                        | K   | Doz  | DE      | DE    |                        |

| <b>Spalte</b>     | <b>Bedeutung</b>                                                                                                   |
|-------------------|--------------------------------------------------------------------------------------------------------------------|
| Modul-Nr.         | Modulnummer                                                                                                        |
| Modul             | Bezeichnung des Moduls                                                                                             |
| Prfg.-Nr.         | Prüfungsfachnummer                                                                                                 |
| Veranstaltung     | Bezeichnung der Lehrveranstaltung                                                                                  |
| ECTS pro Semester | Angabe, in welchem Semester in einer Fachrichtung das Modul mit wie vielen ECTS liegt                              |
| Fq.               | Frequenz (W = Wintersemester, S = Sommersemester, W+S = jedes Semester)                                            |
| VE                | Veranstaltungseinheit (1 = 75 Minuten / Woche)                                                                     |
| Hfgk.             | Anzahl Wochen                                                                                                      |
| KoZ               | Kontaktzeit                                                                                                        |
| EiZ               | Selbststudium                                                                                                      |
| AA                | Arbeitsaufwand                                                                                                     |
| Anw.              | Anwesenheit                                                                                                        |
| Vorl.             | erforderliche Vorleistungen                                                                                        |
| Art               | Prüfungsform (s. Tabelle unten)                                                                                    |
| Ben.              | Benotung (J = Ja, N = Nein)                                                                                        |
| Vers.             | Anzahl der Versuche (* 4. Versuch = mündliche Nachprüfung)                                                         |
| Dauer             | Dauer der Prüfung                                                                                                  |
| Vert.             | Vertiefungsrichtung                                                                                                |
| WB                | Wahlblockzuordnung                                                                                                 |
| LF.               | Veranstaltungsform (s. Tabelle unten)                                                                              |
| Mit.              | Mitarbeiterkürzel                                                                                                  |
| Sprache V.        | Vorlesungssprache (DE = Deutsch, EN = Englisch)                                                                    |
| Sprache M.        | Sprache der Unterrichtsmaterialien (DE = Deutsch, EN = Englisch)                                                   |
| Fachgebiet        | Informatik / Integrationsfach / Mathematik / Technik / Wirtschaft / Medien & Kommunikation / Fremdsprachen & Recht |

| <b>Kürzel</b> | <b>Prüfungsform</b>                            | <b>Kürzel</b> | <b>Veranstaltungsform</b>                              |
|---------------|------------------------------------------------|---------------|--------------------------------------------------------|
| AB            | Abnahme                                        | A             | Assistenz                                              |
| AS            | Assessment                                     | BC            | Bootcamp                                               |
| AU            | Ausland                                        | BR            | Betriebliches Praktikum                                |
| BP            | Begleitprüfung                                 | di            | Mehrere Veranstaltungsarten                            |
| FP            | Teilnahme                                      | F             | Fallstudie                                             |
| K1            | Klausur + ggf. Bonus                           | K             | Kolloquium                                             |
| K2            | Klausur / Mündliche Prüfung + ggf. Bonus       | P             | Praktikum                                              |
| KL            | Klausur                                        | PR            | Projekt                                                |
| KM            | Klausur / Mündliche Prüfung                    | S             | Seminar                                                |
| KO            | Kolloquium                                     | TS            | Thesis                                                 |
| LA            | Laborabschluss                                 | U             | Übung / Praktikum / Planspiel                          |
| LP            | Laborprüfung                                   | Y             | Veranstaltungen an ausländischer Hochschule            |
| LT            | Lerntagebuch                                   | V             | Vorlesung                                              |
| MP            | Mündliche Prüfung                              | VU            | Vorlesung mit integrierter Übung / Workshop / Assignm. |
| PB            | Praktikumsbericht / Protokoll                  | W             | Workshop                                               |
| PF            | Portfolio-Prüfung                              |               |                                                        |
| PFK           | Portfolio-Prüfung mit Kompensationsprüfung     |               |                                                        |
| PR            | Präsentation / Referat                         |               |                                                        |
| SA            | Schriftl. Ausarbeitung (ggf. mit Präsentation) |               |                                                        |