



| 2.1 Themenbereich "Energie – Bau – Infrastruktur" (offener Katalog)                              |  |     |      |        |     |   |   | f |    |   |  | x   | x | x   | x   | x   | x |
|--|--|-----|------|--------|-----|---|---|---|----|---|--|-----|---|-----|-----|-----|---|
| 18-en-2020   | Mini-Forschungsprojekt "Energie – Bau – Infrastruktur"                       | St  | M/S  |        | 1   | 1 |   | f |    | 5 |  | (5) | 5 | (5) | (5) | (5) |   |
| 18-en-2020-pj  | Mini-Forschungsprojekt "Energie – Bau – Infrastruktur"                       |     |      |        |     |   | 2 |   | PJ |   |  |     |   |     |     |     |   |
| <b>Energieeffizientes Bauen</b>  |  |     |      |        |     |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-D3-M015   | Bauen im Bestand und Energetische Sanierung                                  | St  | K    | 90     | 1   | 1 |   | f |    | 6 |  |     | 6 |     | (6) |     |   |
|  |  | bnb | M/S  |        | 0   |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-D3-0010-vl  | Bauen im Bestand und Energetische Sanierung                                  |     |      |        |     |   | 2 |   | VL |   |  |     |   |     |     |     |   |
| 13-A0-M006   | Bauen im Bestand - Verfahrenstechnik und Ökonomie                            | St  | K    | 90     | 1   | 1 |   | f |    | 6 |  | (6) | 6 |     | (6) |     |   |
|  |  | bnb | H    |        | 0   |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-A0-0014-vl  | Bauen im Bestand - Verfahrenstechnik und Ökonomie                            |     |      |        |     |   | 4 |   | VL |   |  |     |   |     |     |     |   |
| 15-01-0427   | Baustoffkunde  | St  | A+K  | 120    | 100 | 1 |   | f |    | 5 |  | 5   |   | (5) |     | (5) |   |
| 15-01-0427-vl  | Baustoffkunde - Vorlesung  |     |      |        |     |   | 2 |   | VL |   |  |     |   |     |     |     |   |
| 15-01-0427-ue  | Baustoffkunde - Übung  |     |      |        |     |   | 2 |   | UE |   |  |     |   |     |     |     |   |
| 15-11-0427   | Bauphysik  |     |      |        | 100 | 1 |   | f |    | 5 |  | 5   |   | (5) |     | (5) |   |
| 15-11-0427-vl  | Bauphysik - Vorlesung  | St  | K    | 120    | 100 |   |   |   | VL |   |  |     |   |     |     |     |   |
| 15-11-0427-ue  | Bauphysik - Übung  | bnb | A    |        | 0   |   |   |   | UE |   |  |     |   |     |     |     |   |
| 13-D3-M020   | Computational Methods for Building Physics and Construction Materials        | St  | K    | 90     | 1   | 1 |   | f |    | 6 |  | 6   |   | (6) |     | (6) |   |
|  |  | bnb | H    |        | 0   |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-D3-0022-vl  | Computational Methods for Building Physics and Construction Materials        |     |      |        |     |   | 2 |   | VL |   |  |     |   |     |     |     |   |
| 13-D3-0023-ue  | Computational Methods for Building Physics and Construction Materials (Ü)    |     |      |        |     |   | 2 |   | UE |   |  |     |   |     |     |     |   |
| 15-02-7525   | Fachmodul F - Gebäudetechnik   | St  | A    | 100    | 100 |   |   | f |    | 5 |  | 5   |   | (5) |     | (5) |   |
| 15-02-7525-vu  | Vorlesung und Übung Gebäudetechnik   |     |      |        | 0   |   | 4 |   | VU |   |  |     |   |     |     |     |   |
| 13-M4-M002   | Facade Technology I  | St  | mP   | 15     | 1   | 1 |   | f |    | 6 |  | (6) | 6 |     | (6) | (6) |   |
|  |  | bnb | H    |        | 0   |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-M4-0002-vu  | Facade Technology I  |     |      |        |     |   | 4 |   | VU |   |  |     |   |     |     |     |   |
| 13-M4-M003   | Facade Technology II   | St  | mP   | 15     | 1   | 1 |   | f |    | 6 |  | 6   |   | (6) |     | (6) |   |
|  |  | bnb | H    |        | 0   |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-M4-0003-vl  | Facade Technology II   |     |      |        |     |   | 2 |   | VL |   |  |     |   |     |     |     |   |
| 13-M4-0004-ue  | Facade Technology II - Exercise  |     |      |        |     |   | 2 |   | UE |   |  |     |   |     |     |     |   |
| 15-01-0447   | Grundlagen der Gebäudetechnologie  |     |      |        | 100 |   |   | f |    | 5 |  | 5   |   | (5) |     | (5) |   |
| 15-01-0447-vl  | Grundlagen Gebäudetechnologie - Vorlesung                                    | St  | mP/K | 15/120 | 100 |   |   |   | VL |   |  |     |   |     |     |     |   |
| 15-01-0447-ue  | Grundlagen der Gebäudetechnologie - Übung                                    |     |      |        | 0   |   |   |   | UE |   |  |     |   |     |     |     |   |
| 13-M0-M001   | Glass and Facade Project   | St  | mP   | 15     | 1   | 1 |   | f |    | 6 |  | 6   |   | (6) |     | (6) |   |
|  |  | bnb | H    |        | 0   |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-M0-0002-vl  | Glass and Facade Project   |     |      |        |     |   | 2 |   | VL |   |  |     |   |     |     |     |   |
| 13-M0-0003-ue  | Glass and Facade Project - Exercise  |     |      |        |     |   | 2 |   | UE |   |  |     |   |     |     |     |   |
| 13-D1-M007   | Green Building Design I  | St  | SF   |        | 1   | 1 |   | f |    | 6 |  |     | 6 |     | (6) |     |   |
|  |  | bnb | Pt   |        | 0   |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-D1-0016-ue  | Green Building Design I - Übung  |     |      |        |     |   | 3 |   | UE |   |  |     |   |     |     |     |   |
| 13-D1-0015-vl  | Green Building Design I  |     |      |        |     |   | 1 |   | VL |   |  |     |   |     |     |     |   |
| 13-D1-M008   | Green Building Design II   | St  | M/S  | 15     | 1   | 1 |   | f |    | 6 |  | 6   |   | (6) |     | (6) |   |
|  |  | bnb | HÜ   |        | 0   |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-D1-0018-ue  | Green Building Design II - Exercise  |     |      |        |     |   | 2 |   | UE |   |  |     |   |     |     |     |   |
| 13-D1-0017-vl  | Green Building Design II   |     |      |        |     |   | 2 |   | VL |   |  |     |   |     |     |     |   |
| 13-D3-M001   | Advanced Building Physics  | St  | K    | 90     | 1   | 1 |   | f |    | 6 |  |     | 6 |     | (6) |     |   |
|  |  | bnb | SF   |        | 0   |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-D3-0002-vl  | Advanced Building Physics  |     |      |        |     |   | 2 |   | VL |   |  |     |   |     |     |     |   |
| 13-D3-0002-ue  | Advanced Building Physics - Exercise   |     |      |        |     |   | 2 |   | UE |   |  |     |   |     |     |     |   |
| 15-11-0447   | Smart Building   | St  | SF   | 100    | 1   |   |   | f |    | 5 |  | 5   |   | (5) |     | (5) |   |
| 15-11-0447-vl  | Smart Building Design - Vorlesung  |     |      |        |     |   | 2 |   | VL |   |  |     |   |     |     |     |   |
| 15-11-0447-ue  | Smart Building Design - Übung  |     |      |        |     |   | 2 |   | UE |   |  |     |   |     |     |     |   |
| <b>Infrastrukturplanung</b>  |  |     |      |        |     |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-K4-M007   | Infrastructure Planning  | St  | K    | 120    | 1   | 1 |   | f |    | 6 |  | 6   |   | (6) |     | (6) |   |
|  |  | bnb | HÜ   |        | 0   |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-B2-J006-se  | Economic Assessment Methods  |     |      |        |     |   | 2 |   | SE |   |  |     |   |     |     |     |   |
| 13-B2-J007-se  | System of Infrastructure   |     |      |        |     |   | 2 |   | SE |   |  |     |   |     |     |     |   |
| 13-K4-M004   | International Spatial Development and Planning                               | St  | H    |        | 1   | 1 |   | f |    | 6 |  | 6   |   | (6) |     | (6) |   |
|  |  | bnb | R    |        | 0   |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-K4-0011-se  | International Spatial Development and Planning                               |     |      |        |     |   | 4 |   | SE |   |  |     |   |     |     |     |   |
| 13-K4-M010   | Räumliche Entwicklung und Planungspraxis in Deutschland                      | St  | H    |        | 1   | 1 |   | f |    | 6 |  | 6   |   | (6) |     | (6) |   |
|  |  | bnb | R    |        | 0   |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-K4-0023-se  | Räumliche Entwicklung und Planungspraxis in Deutschland                      |     |      |        |     |   | 2 |   | SE |   |  |     |   |     |     |     |   |
| ...  |  |     |      |        |     |   |   |   |    |   |  |     |   |     |     |     |   |
| <b>2.2 Themenbereich "Energieeffiziente Mobilitäts- und Transportkonzepte" (offener Katalog)</b> |  |     |      |        |     |   |   |   |    |   |  |     |   |     |     |     |   |
| 18-en-2021   | Mini-Forschungsprojekt "Energieeffiziente Mobilitäts- und Transportkonzepte" | St  | M/S  |        | 1   | 1 |   | f |    | 5 |  | (5) | 5 | (5) | (5) | (5) |   |
| 18-en-2021-pj  | Mini-Forschungsprojekt "Energieeffiziente Mobilitäts- und Transportkonzepte" |     |      |        |     |   | 2 |   | PJ |   |  |     |   |     |     |     |   |
| 13-J1-M001   | Bahnsysteme und Bahntechnik  | St  | K    | 90     | 1   | 1 |   | f |    | 6 |  | (6) | 6 |     | 6   |     |   |
|  |  | bnb | M/S  |        | 0   |   |   |   |    |   |  |     |   |     |     |     |   |
| 13-J1-0001-vl  | Bahnsysteme und Bahntechnik  |     |      |        |     |   | 2 |   | VL |   |  |     |   |     |     |     |   |
| 13-J1-0002-ue  | Bahnsysteme und Bahntechnik - Übung  |     |      |        |     |   | 2 |   | UE |   |  |     |   |     |     |     |   |
| 13-J1-M002   | Bahnbetrieb: Modellierung, Planung, Disposition I                            | St  | mP/K | 20/60  | 1   | 1 |   | f |    | 3 |  | 3   |   | (3) |     | (3) |   |
| 13-J1-0003-vl  | Bahnsysteme und Bahntechnik C  |     |      |        |     |   | 2 |   | VL |   |  |     |   |     |     |     |   |
| 13-J1-M006   | Bahnbetrieb: Modellierung, Planung, Disposition II                           | St  | mP/K | 20/60  | 1   | 1 |   | f |    | 3 |  | 3   |   | (3) |     | (3) |   |
| 13-J1-0008-se  | Bahnbetrieb: Modellierung, Planung, Disposition II                           |     |      |        |     |   | 2 |   | SE |   |  |     |   |     |     |     |   |
| 13-J1-M011   | Bahnbetrieb: Modellierung, Planung, Disposition III                          | St  | mP/K | 20/60  | 1   | 1 |   | f |    | 3 |  | 3   |   | (3) |     | (3) |   |
| 13-J1-0011-vl  | Bahnbetrieb: Modellierung, Planung, Disposition III                          |     |      |        |     |   | 2 |   | VL |   |  |     |   |     |     |     |   |
| 13-J1-M004   | Bahnbetrieb: Sichere Durchführung I  | St  | mP/K | 20/60  | 1   | 1 |   | f |    | 3 |  | 3   |   | (3) |     | (3) |   |
| 13-J1-0004-vu  | Bahnbetrieb: Sichere Durchführung I  |     |      |        |     |   | 2 |   | VU |   |  |     |   |     |     |     |   |
| 18-gt-2020   | Control of Drives  | St  | K    | 90     | 1   | 1 |   | f |    | 5 |  | 5   |   | (5) |     | (5) |   |
| 18-gt-2020-ue  | Control of Drives  |     |      |        |     |   | 2 |   | UE |   |  |     |   |     |     |     |   |
| 18-gt-2020-vl  | Control of Drives  |     |      |        |     |   | 2 |   | VL |   |  |     |   |     |     |     |   |
| 18-bt-2150   | Elektrische Antriebssysteme für E-Mobility                                   | St  | mP/K | 30/90  | 1   | 1 |   | f |    | 4 |  | 4   |   | (4) |     | (4) |   |
| 18-bt-2150-ue  | Elektrische Antriebssysteme für E-Mobility                                   |     |      |        |     |   | 1 |   | UE |   |  |     |   |     |     |     |   |
| 18-bt-2150-vl  | Elektrische Antriebssysteme für E-Mobility                                   |     |      |        |     |   | 2 |   | VL |   |  |     |   |     |     |     |   |
| 18-bt-2140   | Elektrische Bahnen   | St  | K+Pt | 90     | 1   | 1 |   | f |    | 5 |  | 5   |   | (5) |     | (5) |   |
| 18-bt-2140-vl  | Elektrische Bahnen   |     |      |        |     |   | 3 |   | VL |   |  |     |   |     |     |     |   |
| 16-04-5010   | Grundlagen der Flugantriebe  | St  | K    | 90     | 1   | 1 |   | f |    | 8 |  | 8   |   | (8) |     | (8) |   |
| 16-04-5010-vl  | Grundlagen der Flugantriebe  |     |      |        |     |   | 4 |   | VL |   |  |     |   |     |     |     |   |
| 18-bt-2050   | Grundlagen der Schienenfahrzeugtechnik                                       | St  | K    | 60     | 1   | 1 |   | f |    | 3 |  | 3   |   | (3) |     | (3) |   |



|  |  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
|--|--|----|-----|---------|----|----------|---|---|---|---|--|---|--|-----|-----|-----|-----|-----|
| 11-02-3460   | Geothermal Engineering   | St | K   |         | 90 | 1        | 1 |   | f |   |  | 6 |  | 6   | (6) |     |     |     |
| 11-02-3460-uu  | Geothermal Engineering   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 13-L2-M010   | Grundwassermodellierung  | St | mP  |         | 30 | 1        | 1 |   | f |   |  | 3 |  | 3   | (3) |     |     |     |
| 13-L2-0013-vl  | Grundwassermodellierung im Wasserbau   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| <b>Solar</b>   |  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 05-21-1485   | Angewandte Optik   |    | bnb | mP/K/Pt |    | 30/90/30 | 1 | 0 |   | f |  | 5 |  | 5   | (5) |     | (5) |     |
| 05-23-4121-ue  | Angewandte Optik   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 05-21-4121-vl  | Angewandte Optik   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 11-01-2005   | Fundamentals and Technology of Solar Cells                                       | St |     | M/S     |    | 15-30/60 | 1 | 1 |   | f |  | 4 |  | 4   | (4) |     | (4) |     |
| 11-01-8401-vl  | Fundamentals and Technology of Solar Cells                                       |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| <b>Wasser und Wind</b>   |  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 13-L2-M006   | Numerische Modellierung im Wasserbau   | St |     | mP      |    | 30       | 1 | 1 |   | f |  | 3 |  | 3   | (3) | (3) | (3) | (3) |
| 13-L2-0007-vl  | Numerische Modellierung im Wasserbau   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 13-L2-M001/3   | Wasserbau II: Flussbau, Hochwasserschutz und Wasserkraftnutzung                  | St |     | K       |    | 45       | 1 | 1 |   | f |  | 3 |  | 3   | (3) |     |     |     |
| 13-L2-0009-vl  | Wasserbau II: Flussbau, Hochwasserschutz und Wasserkraftnutzung                  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 13-L2-M018   | Wasserbau III: Verkehrswasserbau, Gewässerentwicklung, Ökohydraulik              | St |     | mP      |    | 30       | 1 | 1 |   | f |  | 3 |  | 3   | (3) |     |     |     |
| 13-L2-0011-vl  | Wasserbau III: Verkehrswasserbau, Gewässerentwicklung, Ökohydraulik              |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 13-L2-M003/3   | Wasserbau IV: Wasserbauliches Versuchswesen                                      | St |     | mP      |    | 30       | 1 | 1 |   | f |  | 3 |  | 3   | (3) |     | (3) |     |
| 13-L2-0005-vl  | Wasserbau IV: Wasserbauliches Versuchswesen                                      |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 16-10-5220   | Wind-, Wasser- und Wellenkraft   | St |     | mP/K    |    | 30/90    | 1 | 1 |   | f |  | 4 |  | 4   | (4) |     |     |     |
| 16-10-5220-vl  | Wind-, Wasser- und Wellenkraft   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| <b>Elektrische Energie</b>   |  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-ke-2020   | Hochspannungsschaltgeräte und -anlagen   | St |     | mP      |    | 45       | 1 | 1 |   | f |  | 3 |  | 3   | (3) |     | (3) |     |
| 18-ke-2020-vl  | Hochspannungsschaltgeräte und -anlagen   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-ke-2060   | Energiekabelanlagen  | St |     | mP/K    |    | 30/90    | 1 | 1 |   | f |  | 3 |  | 3   | (3) |     |     |     |
| 18-ke-2060-vl  | Energiekabelanlagen  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-ke-2010   | Hochspannungstechnik II  | St |     | K       |    | 120      | 1 | 1 |   | f |  | 4 |  | 4   | (4) |     | (4) |     |
| 18-ke-2010-vl  | Hochspannungstechnik II  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-ke-2010-ue  | Hochspannungstechnik II  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-ke-2030   | Blitzphysik und Blitzschutz  | St |     | K       |    | 120      | 1 | 1 |   | f |  | 3 |  | 3   | (3) |     | (3) |     |
| 18-ke-2030-vl  | Blitzphysik und Blitzschutz  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-gt-2010   | Advanced Power Electronics   | St |     | K       |    | 90       | 1 | 1 |   | f |  | 5 |  | 5   | (5) |     |     |     |
| 18-gt-2010-vl  | Advanced Power Electronics   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-gt-2010-ue  | Advanced Power Electronics   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-gt-2030   | Anwendungen, Simulation und Regelung leistungselektronischer Systeme             | St |     | M/S     |    |          | 1 | 1 |   | f |  | 8 |  | 8   | (8) | (8) | (8) | (8) |
| 18-gt-2030-se  | Anwendungen, Simulation und Regelung leistungselektronischer Systeme             |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-bt-2010   | Energy Converters - CAD and System Dynamics                                      | St |     | K       |    | 120      | 1 | 1 |   | f |  | 7 |  | 7   | (7) |     |     |     |
| 18-bt-2010-vl  | Energy Converters - CAD and System Dynamics                                      |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-bt-2010-ue  | Energy Converters - CAD and System Dynamics                                      |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-bt-2040   | Neue Technologien bei elektrischen Energiewandlern und Aktoren                   | St |     | K       |    | 60       | 1 | 1 |   | f |  | 4 |  | 4   | (4) |     | (4) |     |
| 18-bt-2040-ue  | Neue Technologien bei elektrischen Energiewandlern und Aktoren                   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-bt-2040-vl  | Neue Technologien bei elektrischen Energiewandlern und Aktoren                   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-bt-2070   | Elektrothermische Prozesstechnik   | St |     | K       |    | 80       | 1 | 1 |   | f |  | 3 |  | 3   | (3) |     | (3) |     |
| 18-bt-2070-vl  | Elektrothermische Prozesstechnik   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-bt-2091   | Energetisches Praktikum I  | St |     | M/S     |    |          | 1 | 1 |   | f |  | 5 |  | 5   | (5) |     |     |     |
| 18-bt-2090-tt  | Praktikumsvorbereitung (für alle angebotenen Praktika)                           |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-bt-2091-pr  | Energetisches Praktikum I  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-bt-2092   | Energetisches Praktikum II   | St |     | M/S     |    |          | 1 | 1 |   | f |  | 5 |  | 5   | (5) |     | (5) |     |
| 18-bt-2090-tt  | Praktikumsvorbereitung (für alle angebotenen Praktika)                           |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-bt-2092-pr  | Energetisches Praktikum II   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-bt-2130   | Projektseminar Energiewandler und Antriebstechnik                                | St |     | M/S     |    |          | 1 | 1 |   | f |  | 6 |  | (6) | 6   | (6) | (6) | (6) |
| 18-bt-2130-pj  | Projektseminar Energiewandler und Antriebstechnik                                |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| ...  |  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| <b>2.5 Themenbereich „Multimodale Energiesysteme und Nachhaltigkeitsbewertung“ (offener Katalog)</b> |  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-en-2024   | Mini-Forschungsprojekt „Multimodale Energiesysteme und Nachhaltigkeitsbewertung“ | St |     | M/S     |    |          | 1 | 1 |   | f |  | 5 |  | (5) | 5   | (5) | (5) | (5) |
| 18-en-2024-pj  | Mini-Forschungsprojekt „Multimodale Energiesysteme und Nachhaltigkeitsbewertung“ |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-hs-2030   | Elektrische Energieversorgung II   | St |     | K       |    | 90       | 1 | 1 |   | f |  | 5 |  | 5   | (5) |     |     |     |
| 18-hs-2030-vl  | Elektrische Energieversorgung II   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-hs-2030-ue  | Elektrische Energieversorgung II   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-hs-2080   | Elektrische Energieversorgung III  | St |     | K       |    | 90       | 1 | 1 |   | f |  | 3 |  | 3   | (3) |     | (3) |     |
| 18-hs-2080-vl  | Elektrische Energieversorgung III  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 16-20-5100   | Energie und Klimaschutz  | St |     | K       |    | 90       | 1 | 1 |   | f |  | 4 |  | 4   | (4) |     |     |     |
| 16-20-5100-vl  | Energie und Klimaschutz  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 13-K3-M016   | Energy Efficiency  | St |     | mP/K    |    | 15/60    | 1 | 1 |   | f |  | 3 |  | 3   | (3) |     |     |     |
| 13-K3-0016-vl  | Energy Efficiency  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 16-09-3204   | Energieeffizienz und Energieflexibilität in der Produktion                       | St |     | mP      |    | 30       | 1 | 1 |   | f |  | 4 |  | 4   | (4) |     |     |     |
| 16-09-3204-vl  | Energieeffizienz und Energieflexibilität in der Produktion                       |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-st-2010   | Energiemanagement & Optimierung  | St |     | mP/K    |    | 25/90    | 1 | 1 |   | f |  | 6 |  | 6   | (6) |     | (6) |     |
| 18-st-2010-pr  | Praktikum Energiemanagement & Optimierung  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-st-2010-ue  | Energiemanagement & Optimierung  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-st-2010-vl  | Energiemanagement & Optimierung  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 16-13-3294   | Energieversorgung und Umweltschutz   | St |     | K/mP    |    | 90/15    | 1 | 1 |   | f |  | 4 |  | 4   | (4) |     |     |     |
| 16-13-3294-vl  | Energieversorgung und Umweltschutz   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-st-2080   | Energiewende gestalten   | St |     | M/S     |    |          | 1 | 1 |   | f |  | 6 |  | 6   | (6) |     |     |     |
| 18-st-2080-pr  | Energiewende gestalten – Planspiel   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-st-2080-se  | Energiewende gestalten – Seminar   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-st-2080-vl  | Energiewende gestalten - Vorlesung   |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 18-hs-2010   | Netzwirtschaft und Netzbetrieb in der Praxis                                     | St |     | K       |    | 90       | 1 | 1 |   | f |  | 3 |  | 3   | (3) |     | (3) |     |
| 18-hs-2010-vl  | Netzwirtschaft und Netzbetrieb in der Praxis                                     |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 13-K3-M020   | Advanced Life Cycle Assessment of Products and Systems                           | St |     | mP      |    | 15       | 1 | 1 |   | f |  | 3 |  | 3   | (3) |     | (3) |     |
| 13-K3-0020-se  | Advanced Life Cycle Assessment of Products and Systems                           |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 13-K3-M003   | Modellierung von Stoffstromsystemen I  | St |     | K       |    | 90       | 1 | 1 |   | f |  | 6 |  | 6   | (6) |     | (6) |     |
| 13-K3-0006-vl  | Stoffstromanalyse und Life Cycle Assessment (Ökobilanz)                          |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 13-K3-0007-ue  | Stoffstromanalyse und Life Cycle Assessment (Ökobilanz) - Übung                  |    |     |         |    |          |   |   |   |   |  |   |  |     |     |     |     |     |
| 13-K3-M015   | Modeling of Material Flow Systems II   | St |     | mP/K    |    | 15/90    | 1 | 1 |   | f |  | 6 |  | 6   | (6) |     | (6) |     |



|  |   |  |     |      |  |        |   |   |   |   |    |            |           |                        |           |           |           |           |           |           |           |
|--|---|--|-----|------|--|--------|---|---|---|---|----|------------|-----------|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 02-23-3001-ku  | Policy-Analyse im Kontext von Energy Science und Engineering                                    |  | St  | H    |  |        | 1 | X | 2 | f | KU |            |           |                        |           |           |           |           |           |           |           |
| 18-st-2040   | Projektseminar Energieinformationssysteme   |  | St  | M/S  |  |        | 1 | 1 |   | f |    |            | 6         |                        | 6         | (6)       | (6)       | (6)       | (6)       |           |           |
| 18-st-2040-pj  | Projektseminar Energieinformationssysteme   |  |     |      |  |        |   |   | 3 |   | PJ |            |           |                        |           |           |           |           |           |           |           |
| 13-F0-M012   | Umweltinformationssysteme   |  | St  | K    |  | 90     | 1 | 1 |   | f |    |            | 6         |                        | 6         | (6)       | (6)       | (6)       |           |           |           |
| 13-F0-0018-vl  | Umweltinformationssysteme   |  | bnb | HÜ   |  |        | 0 | X | 2 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 13-F0-0019-ue  | Umweltinformationssysteme - Übung   |  |     |      |  |        |   | X | 2 |   | UE |            |           |                        |           |           |           |           |           |           |           |
| 16-10-5120   | Fluidenergiemaschinen   |  | St  | mP/K |  | 30/90  | 1 | 1 |   | f |    |            | 4         |                        | 4         | (4)       | (4)       | (4)       |           |           |           |
| 16-10-5120-vl  | Fluidenergiemaschinen   |  |     |      |  |        |   | X | 2 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 16-64-5130   | Introduction to Turbulence  |  | St  | mP   |  | 30     | 1 | 1 |   | f |    |            | 6         |                        | 6         | (6)       | (6)       | (6)       |           |           |           |
| 16-64-5130-vl  | Introduction to Turbulence  |  |     |      |  |        |   | X | 3 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 16-64-5130-ue  | Introduction to Turbulence  |  |     |      |  |        |   | X | 1 |   | UE |            |           |                        |           |           |           |           |           |           |           |
| 16-19-5020   | Numerische Strömungssimulation  |  | St  | mP   |  | 30     | 1 | 1 |   | f |    |            | 6         |                        | 6         | (6)       | (6)       | (6)       |           |           |           |
| 16-19-5020-vl  | Numerische Strömungssimulation  |  |     |      |  |        |   | X | 3 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 16-19-5020-ue  | Numerische Strömungssimulation  |  |     |      |  |        |   | X | 1 |   | UE |            |           |                        |           |           |           |           |           |           |           |
| 16-98-3054   | Transportphänomene  |  | St  | K    |  | 120    | 1 | 1 |   | f |    |            | 6         |                        | 6         | (6)       | (6)       | (6)       |           |           |           |
| 16-98-4054-vl  | Transport Phenomena   |  |     |      |  |        |   | X | 3 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 16-98-4054-ue  | Transport Phenomena   |  |     |      |  |        |   | X | 1 |   | UE |            |           |                        |           |           |           |           |           |           |           |
| 18-gt-4010   | Normen-, Prüf- und Zulassungswesen in der Elektrotechnik  |  | St  | mP   |  | 30     |   |   |   | f |    |            | 3         |                        | 3         | (3)       | (3)       | (3)       |           |           |           |
| 18-gt-4010-vl  | Normen-, Prüf- und Zulassungswesen in der Elektrotechnik  |  |     |      |  |        |   | X | 2 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 18-gt-2040   | Echtzeitanwendungen und Kommunikation mit Microcontrollern und programmierbaren Logikbausteinen |  | St  | K    |  | 120    |   |   |   | f |    |            | 4         |                        | 4         | (4)       | (4)       | (4)       |           |           |           |
| 18-gt-2040-vl  | Echtzeitanwendungen und Kommunikation mit Microcontrollern und programmierbaren Logikbausteinen |  |     |      |  |        |   | X | 1 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 18-gt-2040-pt  | Echtzeitanwendungen und Kommunikation mit Microcontrollern und programmierbaren Logikbausteinen |  |     |      |  |        |   | X | 2 |   | PR |            |           |                        |           |           |           |           |           |           |           |
| <b>Energiernetze</b>   |   |  |     |      |  |        |   |   |   |   |    |            |           |                        |           |           |           |           |           |           |           |
| 05-27-2930   | Statistische Physik von Netzwerken  |  | St  | Pt   |  | 30     | 1 | 1 |   | f |    |            | 5         | unregelmäßiges Angebot |           |           |           |           |           |           |           |
| 05-27-1010-se  | Statistische Physik von Netzwerken  |  |     |      |  |        |   | X | 2 |   | SE |            |           |                        |           |           |           |           |           |           |           |
| <b>Physikalische und chemische Grundlagen</b>  |   |  |     |      |  |        |   |   |   |   |    |            |           |                        |           |           |           |           |           |           |           |
| 07-04-0009   | Chemische Kinetik (M.PC8)   |  | St  | K/mP |  | 120/30 | 1 | 1 |   | f |    |            | 4         | alle 3 Semester        |           |           |           |           |           |           |           |
| 07-04-0009-vl  | Chemische Kinetik (M.PC8)   |  |     |      |  |        |   | X | 2 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 07-04-0009-ue  | Übung Chemische Kinetik (M.PC8)   |  |     |      |  |        |   | X | 1 |   | UE |            |           |                        |           |           |           |           |           |           |           |
| 07-06-0008   | Chemische Produktionsverfahren (M.TC7)  |  | St  | K/mP |  | 120/20 | 1 | 1 |   | f |    |            | 3         | alle 3 Semester        |           |           |           |           |           |           |           |
| 07-06-0008-vl  | Chemische Produktionsverfahren (M.TC7)  |  |     |      |  |        |   | X | 2 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 07-04-0006   | Elektrochemie (M.PC5/M.AC9)   |  | St  | mP   |  | 60     | 1 | 1 |   | f |    |            | 4         | alle 3 Semester        |           |           |           |           |           |           |           |
| 07-04-0006-vl  | Elektrochemie (M.PC5)   |  |     |      |  |        |   | X | 2 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 07-04-0006-ue  | Übung Elektrochemie (M.PC5)   |  |     |      |  |        |   | X | 1 |   | UE |            |           |                        |           |           |           |           |           |           |           |
| 18-ke-2070   | Elektromagnetische Verträglichkeit  |  | St  | K    |  | 120    | 1 | 1 |   | f |    |            | 4         |                        | 4         | (4)       | (4)       | (4)       |           |           |           |
| 18-ke-2070-vl  | Elektromagnetische Verträglichkeit  |  |     |      |  |        |   | X | 2 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 18-ke-2070-ue  | Elektromagnetische Verträglichkeit  |  |     |      |  |        |   | X | 1 |   | UE |            |           |                        |           |           |           |           |           |           |           |
| 07-03-0023   | Homogene Katalyse (M.AC4)   |  | St  | K    |  | 60     | 1 | 1 |   | f |    |            | 3         | alle 3 Semester        |           |           |           |           |           |           |           |
| 07-03-0005-vl  | Homogene Katalyse (M.AC4)   |  |     |      |  |        |   | X | 2 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 07-03-0024   | Mesoskopische Chemie (M.AC5)  |  | St  | K    |  | 60     | 1 | 1 |   | f |    |            | 3         | alle 3 Semester        |           |           |           |           |           |           |           |
| 07-03-0006-vl  | Mesoskopische Chemie (M.AC5)  |  |     |      |  |        |   | X | 2 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 07-04-0010   | Physikalische Festkörperchemie - Kondensierte Materie A (M.PC9)                                 |  | St  | K/mP |  | 120/30 | 1 | 1 |   | f |    |            | 4         | alle 3 Semester        |           |           |           |           |           |           |           |
| 07-04-0010-vl  | Physikalische Chemie des Festkörpers (Kondensierte Materie A) (M.PC9)                           |  |     |      |  |        |   | X | 2 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 07-04-0010-ue  | Übung Physikalische Chemie des Festkörpers - Kondensierte Materie A (M.PC9)                     |  |     |      |  |        |   | X | 1 |   | UE |            |           |                        |           |           |           |           |           |           |           |
| 07-04-0011   | Physikalische Chemie der weichen Materie - Kondensierte Materie B (M.PC10/M.TH8/M.MC4)          |  | St  | K/mP |  | 120/30 | 1 | 1 |   | f |    |            | 4         | alle 3 Semester        |           |           |           |           |           |           |           |
| 07-04-0011-ue  | Übung Physikalische Chemie der weichen Materie - Kondensierte Materie B (M.PC10/M.TH8/M.MC4)    |  |     |      |  |        |   | X | 1 |   | UE |            |           |                        |           |           |           |           |           |           |           |
| 07-04-0011-vl  | Physikalische Chemie der weichen Materie - Kondensierte Materie B (M.PC10/M.TH8/M.MC4)          |  |     |      |  |        |   | X | 2 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 07-03-0046   | Non-conventional synthesis methods in materials chemistry                                       |  | St  | Pt   |  | 15     | 1 | 1 |   | f |    |            | 3         |                        | 3         | (3)       | (3)       | (3)       |           |           |           |
| 07-03-0046-vl  | Non-conventional synthesis methods in materials chemistry                                       |  |     |      |  |        |   | X | 2 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| 07-04-0005   | Spektroskopie (M.PC4)   |  | St  | K/mP |  | 120/30 | 1 | 1 |   | f |    |            | 4         | alle 3 Semester        |           |           |           |           |           |           |           |
| 07-04-0005-ue  | Übung Chemische Spektroskopie (M.PC4)   |  |     |      |  |        |   | X | 1 |   | UE |            |           |                        |           |           |           |           |           |           |           |
| 07-04-0005-vl  | Chemische Spektroskopie (M.PC4)   |  |     |      |  |        |   | X | 2 |   | VL |            |           |                        |           |           |           |           |           |           |           |
| ...  |   |  |     |      |  |        |   |   |   |   |    |            |           |                        |           |           |           |           |           |           |           |
| <b>3. Wahlbereich/Elective Courses (Typ § 30 Abs. 6, Bereich mit uneingeschränktem Modulwechsel)</b> |   |  |     |      |  |        |   |   |   |   |    | <b>o</b>   | <b>12</b> | <b>x</b>               | <b>x</b>  | <b>x</b>  | <b>x</b>  | <b>x</b>  | <b>x</b>  | <b>x</b>  | <b>x</b>  |
| <b>Gesamtkataloge der TU Darmstadt sowie speziell zusammengestellte Kataloge</b>                     |   |  |     |      |  |        |   |   |   |   |    |            |           |                        |           |           |           |           |           |           |           |
| <b>Empfohlene Module können auf der Webseite eingesehen werden</b>                                   |   |  |     |      |  |        |   |   |   |   |    |            |           |                        |           |           |           |           |           |           |           |
| <b>Summe</b>   |   |  |     |      |  |        |   |   |   |   |    | <b>120</b> | <b>15</b> | <b>15</b>              | <b>15</b> | <b>15</b> | <b>15</b> | <b>15</b> | <b>15</b> | <b>15</b> | <b>15</b> |

Stand: 23.03.2024 (SB, CH, EZ & FJ)