

| ELO/Subject-mapping  |  | FEM | MDP | RFMSE | VS  | ASE | CAET 1 | AFM | IDE | MBaD | CAET 2 | CFD | VCHBS | ISRAE | Special T. | TM4CFD | FVCA | Internship | Master Thesis |  |       |       |
|--|--|-----|-----|-------|-----|-----|--------|-----|-----|------|--------|-----|-------|-------|------------|--------|------|------------|---------------|---|-------|-------|
|  |  | JCM | ALB | KA    | SPK | SHR | ALB    | EKJ | ALB | KA   | ALB    | EKJ | JCM   | SPK   | all        | EKJ    | SHR  | IS         | MT            |   |       |       |
|  | Semester   | 1   | 1   | 1     | 1   | 1   | 1      | 1   | 2   | 2    | 2      | 2   | 2     | 2     | 2          | 2      | 2    | 3          | 4             |   |       |       |
|  | ASAE core  | X   | X   | X     | X   | X   |        |     |     |      |        |     |       |       | X          |        |      |            | X             | X   |       |       |
|  | MESD core  | X   | X   | X     |     |     | X      | X   | X   |      |        |     |       |       |            |        |      |            | X             | X   |       |       |
|  | ASAE elective  |     |     |       |     |     |        |     | X   |      | X      |     | X     |       | X          |        | X    |            |               |   |       |       |
|  | MESD elective  |     |     |       |     |     |        |     |     | X    | X      | X   | X     |       | X          | X      |      |            |               |   |       |       |
| <b>Generic ELOs</b><br>(this wording directly applicable in resp. courses)   | Competence in the definition and solving of technical tasks                              | ○   | ●   | ●     |     | ●   |        | ●   | ●   | ●    |        | ●   | ○     |       | ●          | ●      | ●    | ●          | ●             | ●   | GELO1 |       |
|  | Awareness of engineering responsibility  |     | ●   | ○     | ●   | ●   |        |     | ●   | ○    |        |     |       |       | ○          |        | ○    | ●          | ●             | ●   | GELO2 |       |
|  | Report writing skills  | ○   | ○   | ●     |     | ○   |        |     | ○   |      |        |     | ○     | ○     |            | ○      | ○    | ○          | ●             | ●   | ●     | GELO3 |
|  | Ability to work as team member   |     | ○   |       | ○   |     |        |     | ○   |      |        |     |       | ●     | ○          |        |      | ○          | ○             |   |       | GELO4 |
|  | Competence in literature research and summary  |     |     | ●     | ○   |     |        | ○   |     |      |        |     |       | ○     |            | ○      |      |            |               | ●   | ●     | GELO5 |
|  | Presentation skills  | ○   | ○   | ○     | ○   | ○   |        | ○   | ○   |      |        |     |       | ○     | ○          | ○      |      | ○          |               | ●   | ●     | GELO6 |
|  | Project management and team leadership skills  |     | ○   |       | ○   |     |        |     | ○   |      |        |     |       | ○     | ○          |        |      | ○          |               | ●   | ●     | GELO7 |
|  | Self-Guided Learning (Lifelong Learning)   | ○   |     | ○     |     |     | ○      |     |     | ○    | ○      |     | ○     |       |            | ●      |      |            |               | ●   | ●     | GELO8 |
| <b>Specific ELOs</b><br>(applicable to specific field/contents of resp. courses, worded specifically in course descriptions) | Knowledge and understanding of methodology of simulation and design                      | ●   | ●   |       |     |     | ○      | ●   |     | ○    | ●      | ●   |       | ●     | ●          |        | ○    | ●          | ●             | SELO1   |       |       |
|  | Knowledge and understanding of scientific fundamentals of technical systems              | ●   | ○   |       |     | ○   | ○      | ○   |     | ○    |        | ●   |       | ●     | ●          |        |      |            | ●             | ●   | SELO2 |       |
|  | Knowledge of technical systems and technologies in the field                             |     | ●   |       | ●   | ●   |        |     |     |      |        |     |       | ●     |            |        |      |            | ●             | ●   | SELO3 |       |
|  | Competence in analysis and modelling of technical scenarios                              |     | ●   |       |     | ●   |        |     |     | ●    |        |     |       |       | ●          |        |      |            | ●             | ●   | SELO4 |       |
|  | Skills of using commercial software for simulation in engineering applications           | ●   |     |       |     | ●   |        |     |     | ●    |        | ●   | ●     |       | ○          |        |      |            | ●             | ●   | SELO5 |       |
|  | Skills of using commercial software for design in engineering applications               |     | ○   |       |     | ●   |        | ○   |     | ●    |        |     |       |       | ○          |        |      |            | ●             | ●   | SELO6 |       |
|  | Knowledge of engineering materials, failure modes and production techniques              |     | ○   |       |     |     | ○      | ●   | ●   | ○    |        |     |       |       |            |        |      |            | ●             | ●   | SELO7 |       |
|  | Knowledge of applicable laws, guidelines, regulations                                    |     | ○   |       |     |     |        | ○   |     |      |        |     | ○     | ●     |            |        |      | ●          | ○             | ○   | SELO8 |       |
|  | Knowledge, understanding and ability to consider the human body in simulation and design |     |     |       |     |     |        | ●   |     |      |        |     | ●     |       |            |        |      |            | ○             | ○   | SELO9 |       |