

| DTM - Study Plan - Summer Semester Start |   | Summer             |      | Winter             |      | Summer             |      | Winter             |      | Summer             |      | Winter             |      | Summer             |      | Total              |      |      |
|--|---|--------------------|------|--------------------|------|--------------------|------|--------------------|------|--------------------|------|--------------------|------|--------------------|------|--------------------|------|------|
|  |   | 1st Semester       |      | 2nd Semester       |      | 3rd Semester       |      | 4th Semester       |      | 5th Semester       |      | 6th Semester       |      | 7th Semester       |      | contact time (SWS) | ECTS | %    |
| No.                                      | Module groups / modules   | contact time (SWS) | ECTS | contact time (SWS) | ECTS | contact time (SWS) | ECTS | contact time (SWS) | ECTS | contact time (SWS) | ECTS | contact time (SWS) | ECTS | contact time (SWS) | ECTS | contact time (SWS) | ECTS | %    |
|  |   | Study Section 1    |      |                    |      | Study Section 2    |      |                    |      | Study Section 3    |      |                    |      |                    |      |                    |      |      |
| 1  | Fundamentals of Mathematics, Informatics and Scientific Methods | 4                  | 5    | 4                  | 5    | 8                  | 10   | 4                  | 5    | 4                  | 5    | 0                  | 0    | 0                  | 0    | 24                 | 30   | 14%  |
| 1.1                                      | Mathematics   |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 1.2                                      | Algorithms and Data Structures                                  | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 1.3                                      | Object-oriented Coding  |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |      |
| 1.4                                      | Statistics and Quantitative Methods                             |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 1.5                                      | Information Systems and Databases                               |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 1.6                                      | Research and Evaluation Methods                                 |                    |      |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |      |
| 2  | Digital Technology  | 4                  | 5    | 4                  | 5    | 4                  | 5    | 8                  | 10   | 0                  | 0    | 4                  | 5    | 0                  | 0    | 24                 | 30   | 14%  |
| 2.1                                      | IIoT Technology   |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 2.2                                      | Product Management  | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 2.3                                      | Sensors for Smart Systems                                       |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |      |
| 2.4                                      | Communication Technology  |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |      |
| 2.5                                      | Production Technology   |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 2.6                                      | Innovation and Technology Lifecycle Management                  |                    |      |                    |      |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |      |
| 3  | Management  | 4                  | 5    | 8                  | 10   | 0                  | 0    | 4                  | 5    | 0                  | 0    | 0                  | 0    | 4                  | 5    | 20                 | 25   | 12%  |
| 3.1                                      | Fundamentals of Business Administration                         |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 3.2                                      | Principles of Accounting and Finance                            |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 3.3                                      | Business Processes Management                                   | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 3.4                                      | Digital Marketing and eCommerce                                 |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |      |
| 3.5                                      | Business Simulation   |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |      |
| 4  | Integrative Modules   | 0                  | 0    | 0                  | 0    | 8                  | 10   | 4                  | 5    | 0                  | 0    | 8                  | 10   | 8                  | 10   | 28                 | 35   | 17%  |
| 4.1                                      | Project Management and Agile Methods                            |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |      |
| 4.2                                      | Logistics 1   |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 4.3                                      | Industrial Engineering  |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 4.4                                      | Ethics in Business and Technology                               |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |      |
| 4.5                                      | Entrepreneurial Project 1: Developing a digital solution        |                    |      |                    |      |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |      |
| 4.6                                      | Entrepreneurial Project 2: Business Plan for a Digital Product  |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |      |
| 4.7                                      | Research Project  |                    |      |                    |      |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |      |
| 5  | Language and Soft Skills  | 12                 | 15   | 8                  | 10   | 4                  | 5    | 4                  | 5    | 0                  | 0    | 0                  | 0    | 0                  | 0    | 28                 | 35   | 17%  |
| 5.1                                      | English for Academic Purposes                                   |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 5.2                                      | Technical English   | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 5.3                                      | Intercultural Communication                                     | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 5.4                                      | Basic Elective 1  | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 5.5                                      | Basic Elective 2  |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 5.6                                      | Basic Elective 3  |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |                    |      |      |
| 5.7                                      | Basic Elective 4  |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |                    |      |                    |      |      |
| 6  | Specialization Modules  | 0                  | 0    | 0                  | 0    | 0                  | 0    | 0                  | 0    | 0                  | 0    | 12                 | 15   | 4                  | 5    | 16                 | 20   | 10%  |
| 6.1                                      | Specialization Elective 1                                       |                    |      |                    |      |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |      |
| 6.2                                      | Specialization Elective 2                                       |                    |      |                    |      |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |      |
| 6.3                                      | Specialization Elective 3                                       |                    |      |                    |      |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |                    |      |      |
| 6.4                                      | Specialization Elective 4                                       |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      | 4                  | 5    |                    |      |      |
| 7  | Practical Phase   |                    |      |                    |      |                    |      |                    |      | 25                 |      |                    |      |                    |      | 0                  | 25   | 12%  |
| 7.1                                      | Internship  |                    |      |                    |      |                    |      |                    |      | 25                 |      |                    |      |                    |      |                    |      |      |
| 8  | Bachelor's Degree   |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |                    | 10   | 0                  | 10   | 5%   |
| 8.1                                      | Bachelor Thesis   |                    |      |                    |      |                    |      |                    |      |                    |      |                    |      |                    | 10   |                    |      |      |
|  | <b>Total</b>  | 24                 | 30   | 24                 | 30   | 24                 | 30   | 24                 | 30   | 4                  | 30   | 24                 | 30   | 16                 | 30   | 140                | 210  | 100% |