



2023 -2024

## Learning materials list

Master System Design year 1

MSD1-S1, MSD1-S2

31-mei-23

| title                                                                           | editi | author                       | publisher           | ISBN          | price  | purchase | MSD1-S1 | MSD1-S2 |
|---------------------------------------------------------------------------------|-------|------------------------------|---------------------|---------------|--------|----------|---------|---------|
| Systems Design and Engineering                                                  | 1e    | Bonnema, G. Maarten          |                     | 9781498751261 | 51,26  | yes      | MSDASDA |         |
| Guide to the Systems Engineering Body of Knowledge (SEBoK)                      | 2,2   | SEBoK                        | DLE                 |               |        | yes      | MSDASDA |         |
| NASA Systems Engineering Handbook                                               |       | NASA                         | DLE                 |               |        | yes      | MSDASDA |         |
| Incose Systems Engineering Handbook                                             |       | Incose                       | DLE                 |               |        | yes      | MSDASDA |         |
| A guide to the Project Management Body of Knowledge                             |       | PROJECT MANAGEMENT INSTITUTE | DLE                 |               |        | yes      | MSDASDA |         |
| Design Concepts and Strategies for Precision Engineering                        | 2     | S. van den Berg              | Fontys              | 9789082971125 | 36,00  | yes      | MSDAMDP |         |
| Dynamics                                                                        | 14    | Hibbeler R.                  | Pearson             | 9780133915389 | 140,00 | yes      | MSDADTM |         |
| Mechanical Vibrations                                                           | 5     | Rao S.                       | Pearson             | 9780132128193 | 80,00  | yes      | MSDADTM |         |
| Siemens NX 10 Nastran                                                           |       | Jaecheol Koh                 | Siemens             | 9781543023299 | 71,35  | yes      |         | MSDAMST |
| Simulations with NX / Simcenter 3D Kinematics, FEA, CFD, EM and Data Management |       | Reiner Anderl                | Hanser Publications | 9781569907122 | 106,22 | yes      |         | MSDAMST |
| Engineering Analysis with NX Advanced Simulation                                |       | Pavel Goncharov              | Wristers            | 9781483417325 | 140,00 | yes      |         | MSDAMST |
| Mechatronic Systems                                                             |       | P.P.J. van den Bosch         | DLE                 | 9998000051768 |        | yes      |         | MSDAMST |
| Sensors and Actuators, engineering system instrumentation                       | 2016  | Clarence W. de Silva         |                     | 9781466506824 | 106,00 | yes      |         | MSDAMSA |
| Design of Experiments for Engineers and Scientists                              |       | Antony Jiju                  | Fontys              | 9780080994178 | 55,00  | yes      |         | MSDAIER |
| Feedback Control of Dynamic Systems                                             | 8     | Gene F. Franklin             |                     | 9781292274522 | 80,55  | yes      |         | MSDACET |

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| <b>Status concerning purchase yes/no</b><br><br>yes = required (necessary purchase)<br>no = purchase in consultation with teacher (in class)<br>The prices of books and readers are indicative prices.<br><br>Materials indicated 'Fontys' as publisher, can be purchased at Fontys as from lesson week 1. | <b>Laptop</b><br><br>A laptop is compulsory for your study.<br><br><a href="#">You will find the required specifications for the laptop on the "Fresh at Fontys" site.</a> |
| <b>Study</b><br>MD1-S1 = Master System Design year 1<br>MD1-S2 = Master System Design year 1                                                                                                                                                                                                               | DLE = Digital Learning Environment                                                                                                                                         |