



MÄLARDALEN UNIVERSITY
SWEDEN

Course Overview for 2021/2022
AMM02

Course Overview for the Master's Programme in Sustainable Energy Systems, 120 credits

Programme code: AMM02

Valid for the academic year 2021/2022

This is a translation of the original course overview in Swedish which has been examined and approved by the study director at School of Business, Society and Engineering, 2021-02-11

About the course overview

Each study programme has a set programme syllabus in which, among other things, all courses included in the programme are stated, divided into academic years. The programme syllabus is complemented annually with a course overview in which is stated the study period the course is given, in which campus city it is given, whether it collides with another course etc. The course overview is valid for one academic year at a time.

C1, C2 etc. in the study period columns refer to the timetable positions and show whether the courses collide or not. Courses with the same C value collide, and courses with different C values do not collide. Courses with the "X" value may collide with other courses within the study period.

The following applies to current C value.

C1 = monday pm + wednesday am

C2 = monday am + thursday am

C3 = tuesday am + thursday pm

C4 = tuesday pm + friday am

C5 = wednesday pm + friday pm

In the column "pg/comp" "pg" indicates that you have guaranteed admission to the course for that particular study period and that programme semester. "comp" indicates that you are applying in competition with all the other programme students at MDH. In the column for "city" "E" indicates that the course is given in Eskilstuna and "V" that it is given in Västerås.



Level classification of progressive specialisation

The University uses the following designations for classification of progressive specialisation, where “G” indicates that the course is part of a programme at first-cycle level and “A” that the course is part of a programme at second-cycle level:

| | |
|-----|---|
| G1N | course with only upper secondary entry requirements |
| G1F | course with less than a 60-credit course/ course at first-cycle level as entry requirements |
| G1E | course containing a specially designed degree project for a Higher Education Diploma |
| G2F | course of at least 60 credits / courses at first-cycle level as entry requirements |
| G2E | course of at least 60 credits / courses at first-cycle level as entry requirements and which contain a degree project for a Bachelor’s degree |
| GXX | course which cannot be classified according to the above model |
| A1N | course with only course/courses at first-cycle level as entry requirements |
| A1F | course with course/courses at second-cycle level as entry requirements |
| A1E | course containing a degree project for a Master’s degree of 60 credits |
| A2E | course containing a degree project for a Master’s degree of 120 credits |
| AXX | course which cannot be classified according to the above model |

Choice within the programme

There are no choices within the program. The students are admitted to all courses within the program.

Other information

The courses are given in English.



Terms 1 and 2 for programmes starting in the autumn term 2021

| Title/Course name | Course code | Level/ Specialisation | Credits | Study periods | | | | | | | | pg/ comp | Rate of study, city |
|---|-------------|--------------------------|---------|-----------------------|-----------------------|-----------------------|-----------------------|-----|----|----------------|----------------|-------------|------------------------|
| | | | | HT1 | | HT2 | | VT1 | | VT2 | | | |
| | | | | a | b | a | b | a | b | a | b | | |
| Energy Engineering | | | | | | | | | | | | | |
| Introduction to sustainable energy system | ERA217 | G2F | 7,5 | C4 | C4 | | | | | | | Pg | Part time V |
| International energy systems | ERA301 | A1N | 7,5 | | | | | C1 | C1 | | | Pg | Part time V |
| Process modelling | ERA311 | A1N | 7,5 | | | | | C2 | C2 | | | Pg | Part time V |
| Process simulation | ERA312 | A1N | 7,5 | | | | | | | C1 C3 C4 | C1 C3 C4 | Pg | Part time V |
| Process optimization | ERA303 | A1N | 7,5 | | | | | | | C2 | C2 | Pg | Part time V |
| Mathematics/Applied Mathematics | | | | | | | | | | | | | |
| Numerical methods with MATLAB | MAA042 | G1F | 7,5 | C1 C5 ¹ | C1 C5 ¹ | | | | | | | pg | Part time V |
| Applied matrix analysis | MAA704 | A1N | 7,5 | | | C4 C5 ² | C4 C5 ² | | | | | Pg | Part time V |
| Computer Science | | | | | | | | | | | | | |
| Programming | DVA117 | G1N | 7,5 | | | C1 C3 | C1 C3 | | | | | Pg | Part time V |

¹C1+friday pm ²C4+wednesday pm

Terms 3 and 4 for programmes starting in the autumn term 2020

| Title/Course name | Course code | Level/ Specialisation | Credits | Study periods | | | | | | | | pg/ comp | Rate of study, city |
|---|-------------|--------------------------|---------|---------------|----------|----------|----------|---|---|---|---|-------------|------------------------|
| | | | | 1 | | 2 | | 3 | | 4 | | | |
| | | | | a | b | a | b | a | b | a | b | | |
| Energy Engineering | | | | | | | | | | | | | |
| Sustainable Energy Systems - Advanced studies | ERA306 | A1F | 20 | C2 C5 | C2 C5 | C2 C5 | C2 C5 | | | | | pg | Part time V |
| Sustainable Energy Systems - Project | ERA305 | A1F | 10 | C3 | C3 | C3 | C3 | | | | | pg | Part time V |
| Degree Project in Sustainable Energy Systems | ERA401 | A2E | 30 | | | | | X | X | X | X | pg | Full time V |



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