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| SUBJECT: Optimization for large-scale data | | |
| MASTER DEGREE: Master in Big Data Analytics Coordinator: Carlos Ruiz Mora | ECTS: 3 | QUARTER: 1 |

| TIMETABLE FOR THE SUBJECT | | | | | | | | |
|----------------------------------|----------------|---|-----------------------|----------|---|--------------------------|------------------------|------------------------------|
| WEEK | SESSION | DESCRIPTION OF EACH SESSION | GROUP (X mark) | | Indicate if a different lecture room is needed (computer, audiovisual, etc.) | HOMEWORK PER WEEK | | |
| | | | 1 | 2 | | DESCRIPTION | ATTENDING HOURS | HOMEWORK Max. 7H/WEEK |
| 1 | 1 | Linear Models I: Introduction to Optimization | X | | | Theory | 1,5h | 2h |
| 1 | 2 | Linear Models I: Introduction to Pyomo/Python | X | | Computers Lab | Lab | 1,5h | 2h |
| 2 | 3 | Linear Models II: Algorithms | X | | | Theory | 1,5h | 2h |
| 2 | 4 | Linear Models II: Application Examples | X | | Computers Lab | Lab | 1,5h | 2h |
| 3 | 5 | Discrete Models I: Theory | X | | | Theory | 1,5h | 2h |
| 3 | 6 | Discrete Models I: Application Examples | X | | Computers Lab | Lab | 1,5h | 2h |
| 4 | 7 | Discrete Models II: Algorithms | X | | | Theory | 1,5h | 2h |
| 4 | 8 | Discrete Models II: Application Examples | X | | Computers Lab | Lab | 1,5h | 2h |
| 5 | 9 | Nonlinear Models I: Theory | X | | | Theory | 1,5h | 2h |
| 5 | 10 | Nonlinear Models I: Application Examples | X | | Computers Lab | Lab | 1,5h | 2h |
| 6 | 11 | Nonlinear Models II: Algorithms | X | | | Theory | 1,5h | 2h |
| 6 | 12 | Nonlinear Models II: Application Examples | X | | Computers Lab | Lab | 1,5h | 2h |
| 7 | 13 | Uncertainty models: Theory | X | | | Theory | 1,5h | 2h |
| 7 | 14 | Uncertainty models: Application Examples | X | | Computers Lab | Lab | 1,5h | 2h |
| TOTAL HOURS | | | | | | | 21 | 28 |