

Cycle view of the study programme

B1 Or Th Pr Au Cr

Compulsory courses (B1 : 60Cr)

Module 1 : Vehicle dynamics and safety

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|------------|--|----|----|----|----|-----|---|
| MECA0525-1 | <i>Performance and dynamics of vehicles</i> (english language) - Mustapha BELHABIB, Pierre DUYSINX - [4h Labo., 8h Proj., 1d FW] | B1 | Q2 | 30 | 15 | [+] | 5 |
| MECA0063-1 | <i>Vehicle architecture and components</i> (english language) - Emmanuel TROMME - [30h Proj.] | B1 | Q2 | 30 | 30 | [+] | 5 |
| ACER0084-1 | <i>Advanced Topics in Automotive Engineering</i> (english language) - [10h Labo., 10h Proj., 2d FW] | B1 | Q1 | - | 40 | [+] | 5 |

Total : 15 credits / 8 weeks

Exam : After end of semester 1

Module 2 : Engine and electric propulsion systems

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| MECA0041-1 | <i>Internal combustion engine</i> (english language) - Part 1 Fundamental aspects - Marc NÉLIS - [1d FW, 15h Proj.] - Part 2 Application to propulsion - Marc NÉLIS - [10h Proj., 0,5d FW] | B1 | Q2 | 15 | 15 | [+] | 5 |
| | | | | 10 | 10 | [+] | |
| MECA0527-1 | <i>Electric, hybrid and fuel cell vehicles</i> (english language) - Pierre DUYSINX - [5h Labo., 15h Proj.] | B1 | Q1 | 30 | 10 | [+] | 5 |
| MECA0501-1 | <i>Thermal Energy Management in vehicles</i> (english language) - Vincent LEMORT | B1 | Q1 | 26 | 26 | - | 5 |

Total : 15 credits / 8 weeks

Exam : End of the semester 1

Module 3 : Project and Internship

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| PROJ0020-1 | <i>Innovation for sustainable engineering</i> (english language) - [100h Proj.] | B1 | Q1 | 10 | - | [+] | 5 |
| ASTG0112-1 | <i>Internship</i> (english language) - COLLÉGIALITÉ | B1 | TA | - | - | - | 10 |
| ATFE3045-1 | <i>Automotive Project</i> (english language) - COLLÉGIALITÉ | B1 | TA | 30 | - | - | 15 |