

#### Block view of the study programme

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#### Block 1

##### Compulsory courses

##### Module 1 : Vehicle dynamics and safety

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

Total : 15 credits / 8 weeks

Exam : After end of semester 1

##### Module 2 : Engine and electric propulsion systems

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

Total : 15 credits / 8 weeks

Exam : End of the semester 1

##### Module 3 : Project and Internship

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