

## A single year

### Compulsory courses

#### Module 1 : Vehicle dynamics and safety (15 ECTS)

MECA0491-2	<i>Technical english</i> (english language) - FOREM	25	-	-	2
MECA0492-2	<i>Vehicle dynamics</i> (english language) - Pierre DUYSINX	30	20	-	4
MECA0493-2	<i>Vehicle aerodynamics</i> (english language) - Grigorios DIMITRIADIS	15	10	-	2
MECA0494-2	<i>Driveline and braking systems</i> (english language) - Jean-Luc BOZET, Olivier BRULS, Pierre DUYSINX	15	10	-	2
MECA0495-1	<i>Introduction to vehicle safety</i> (english language) - Pierre DUYSINX, Ludovic NOELS	15	10	-	2
MECA0496-2	<i>Materials for automotive applications</i> (english language) - Jacqueline LECOMTE#BECKERS, Ahmed RASSILI	30	20	-	4

Total : 15 credits / 8 weeks / 240 hours of lectures and lab works

Exam : After 8 weeks (mid term of semester 1)

#### Module 2 : Engine and electric propulsion systems (15 ECTS)

MECA0497-1	<i>Vehicle performance</i> (english language) - Pierre DUYSINX	15	15	-	2
MECA0498-1	<i>Internal combustion engines</i> (english language) - Philippe NGENDAKUMANA	30	30	-	4
MECA0499-1	<i>Electric traction motors</i> (english language) - Johan GYSELINCK	15	25	-	2
MECA0500-1	<i>Hybrid electric and fuel cell vehicles</i> (english language) - Pierre DUYSINX, Nathalie JOB	15	25	-	4
MECA0501-1	<i>Thermal and Electrical Management of vehicles</i> (english language) - Vincent LEMORT	15	10	-	2

Total : 15 credits / 8 weeks / 240 hours of lectures and lab works

Exam : After 8 weeks (end of semester 1)

#### Module 3 : Project and internship (30 ECTS)

GEST3050-1	<i>Creativity and design</i> - Bernard SURLEMONT	18	50	-	5
GSTG0012-1	<i>Internship</i> (english language) - COLLÉGIALITÉ	-	-	-	10
GEST3045-1	<i>Project Management</i> (english language) - Stany REGOUT	30	-	-	15