

### Semester 1

| Unit teaching   | Materials                                  | Credits   |                     | Hourly volume weekly |                  |      | Volume Hourly Biannual (15 weeks) | Work Complementary in consultation (15 weeks) | Assessment method  |      |
|---|--|-----------|---------------------|----------------------|------------------|------|-----------------------------------|---|--------------------|------|
|   | Titled                                     |           |                     | Course               | TD               | TP   |                                   |   | Control Continuous | Exam |
| Fundamental EU<br>Code: UEF 1.1<br>Credits: 18<br>Coefficients: 9   | Mathematics 1                              | 6         | 3 3h                | 00                   | 1h30             |      | 67h30                             | 82h30   | 40%                | 60%  |
|   | Physics 1                                  | 6         | 3 3h                | 00                   | 1h30             |      | 67h30                             | 82h30   | 40%                | 60%  |
|   | Structure of matter                        | 6         | 3 3h                | 00                   | 1h30             |      | 67h30                             | 82h30   | 40%                | 60%  |
| Methodological EU<br>Code: UEM 2.1<br>Credits: 9<br>Coefficients: 5 | Physics 1 Practical Work                   | 2         | 1                   |                      |                  | 1h30 | 10:30 p.m.                        | 27:30   | 100%               |      |
|   | Chemistry 1 practical work                 | 2         | 1                   |                      |                  | 1h30 | 10:30 p.m.                        | 27:30   | 100%               |      |
|   | Computer Science 1                         | 4         | 2 1h                | 30                   |                  | 1h30 | 45h00                             | 55h00   | 40%                | 60%  |
|   | Writing methodology                        | 1         | 1 1h                | 00                   |                  |      | 3:00 p.m.                         | 10:00 a.m.                                    |                    | 100% |
| EU Discovery<br>Code: UED 3.1<br>Credits: 1<br>Coefficients: 1      | Careers in science and technologies 1      | 1         | 1 1h                | 30                   |                  |      | 10:30 p.m.                        | 2:30 a.m.                                     |                    | 100% |
| Transversal EU<br>Code: UET 4.1<br>Credits: 2<br>Coefficients: 2    | Foreign language 1 (French and/or English) | 2         | 2 3h                | 00                   |                  |      | 45h00                             | 5:00 a.m.                                     |                    | 100% |
| <b>Total semester 1</b>   |  | <b>30</b> | <b>17 4:00 p.m.</b> | <b>4:30 a.m.</b>     | <b>4:30 a.m.</b> |      | <b>375 hours</b>                  | <b>375 hours</b>                              |                    |      |

### Semester 2

| Unit teaching   | Materials                                  | Credits   | Coefficient | Hourly volume weekly |                  |                  | Volume Hourly Biannual (15 weeks) | Work Complementary in consultation (15 weeks) | Assessment method  |      |
|---|--|-----------|-------------|----------------------|------------------|------------------|-----------------------------------|---|--------------------|------|
|   | Titled                                     |           |             | Course               | TD               | TP               |                                   |   | Control Continuous | Exam |
| Fundamental EU<br>Code: UEF 1.2<br>Credits: 18<br>Coefficients: 9   | Mathematics 2                              | 6         | 3           | 3h00                 | 1h30             |                  | 67h30                             | 82h30   | 40%                | 60%  |
|   | Physics 2                                  | 6         | 3           | 3h00                 | 1h30             |                  | 67h30                             | 82h30   | 40%                | 60%  |
|   | Thermodynamics                             | 6         | 3           | 3h00                 | 1h30             |                  | 67h30                             | 82h30   | 40%                | 60%  |
| Methodological EU<br>Code: UEM 2.2<br>Credits: 9<br>Coefficients: 5 | Physics 2 Practical Work                   | 2         | 1           |                      |                  | 1h30             | 10:30 p.m.                        | 27:30   | 100%               |      |
|   | Chemistry 2 practical work                 | 2         | 1           |                      |                  | 1h30             | 10:30 p.m.                        | 27:30   | 100%               |      |
|   | Computer Science 2                         | 4         | 2           | 1h30                 |                  | 1h30             | 45h00                             | 55h00   | 40%                | 60%  |
|   | Presentation methodology                   | 1         | 1           | 1h00                 |                  |                  | 3:00 p.m.                         | 10:00 a.m.                                    |                    | 100% |
| EU Discovery<br>Code: UED 3.2<br>Credits: 1<br>Coefficients: 1      | Careers in science and technologies 2      | 1         | 1           | 1h30                 |                  |                  | 10:30 p.m.                        | 2:30 a.m.                                     |                    | 100% |
| Transversal EU<br>Code: UET 4.2<br>Credits: 2<br>Coefficients: 2    | Foreign language 2 (French and/or English) | 2         | 2           | 3h00                 |                  |                  | 45h00                             | 5:00 a.m.                                     |                    | 100% |
| <b>Total semester 2</b>   |  | <b>30</b> | <b>17</b>   | <b>4:00 p.m.</b>     | <b>4:30 a.m.</b> | <b>4:30 a.m.</b> | <b>375 hours</b>                  | <b>375 hours</b>                              |                    |      |

### Semester 3

| Unit teaching   | Materials                       | Credits | Coefficient | Hourly volume weekly |         |           | Volume Hourly Biannual (15 weeks) | Work Complementary in consultation (15 weeks) | Assessment method  |      |
|---|---------------------------------|---------|-------------|----------------------|---------|-----------|-----------------------------------|---|--------------------|------|
|   | Titled                          |         |             | Course               | TD      | TP        |                                   |   | Control Continuous | Exam |
| Fundamental EU<br>Code: UEF 1.3.<br>Credits: 10<br>Coefficients: 5  | Mathematics 3                   | 6       | 3           | 3h00                 | 1h30    |           | 67h30                             | 82h30   | 40%                | 60%  |
|   | Waves and vibrations            | 4       | 2           | 1h30                 | 1h30    |           | 45h00                             | 55h00   | 40%                | 60%  |
| Fundamental EU<br>Code: UEF 2.3.<br>Credits: 8<br>Coefficients: 4   | Hydraulic and pneumatic systems | 4       | 2           | 1h30                 | 1h30    |           | 45h00                             | 55h00   | 40%                | 60%  |
|   | Rational mechanics              | 4       | 2           | 1h30                 | 1h30    |           | 45h00                             | 55h00   | 40%                | 60%  |
| Methodological EU<br>Code: UEM 3.3<br>Credits: 9<br>Coefficients: 5 | Probabilities and statistics    | 4       | 2           | 1h30                 | 1h30    |           | 45h00                             | 55h00   | 40%                | 60%  |
|   | Computer Science 3              | 2       | 1           |                      |         | 1h30      | 10:30 p.m.                        | 27:30   | 100%               |      |
|   | Technical drawing               | 2       | 1           |                      |         | 1h30      | 10:30 p.m.                        | 27:30   | 100%               |      |
|   | TP Waves and vibrations         | 1       | 1           |                      |         | 1 hour    | 3:00 p.m.                         | 10:00 a.m.                                    | 100%               |      |
| EU Discovery<br>Code: UED 4.3<br>Credits: 2<br>Coefficients: 2      | Vehicle architecture            | 1       | 1           | 1h30                 |         |           | 10:30 p.m.                        | 2:30 a.m.                                     |                    | 100% |
|   | Automotive measurements         | 1       | 1           | 1h30                 |         |           | 10:30 p.m.                        | 2:30 a.m.                                     |                    | 100% |
| Transversal EU<br>Code: UET 5.3<br>Credits: 1<br>Coefficients: 1    | Technical English               | 1       | 1           | 1h30                 |         |           | 10:30 p.m.                        | 2:30 a.m.                                     |                    | 100% |
| Total semester 3  |                                 | 30      | 17          | 1                    | 30 p.m. | 7:30 a.m. | 4:00 a.m.                         | 375 hours                                     | 375 hours          |      |

**Semester 4**

| Unit teaching | Materials | Credits | Coefficient | Hourly volume weekly | Volume Hourly | Work Complementary | Assessment method |
|---------------|-----------|---------|-------------|----------------------|---------------|--------------------|-------------------|
|---------------|-----------|---------|-------------|----------------------|---------------|--------------------|-------------------|

|   | Titled                                  |             |           | Course TD TP |  |        | Biannual<br>(15 weeks) | in consultation<br>(15 weeks) | Control<br>Continuous | Exam |
|---|---|-------------|-----------|--------------|--|--------|------------------------|-------------------------------|-----------------------|------|
| Fundamental EU<br>Code: UEF 1.4.<br>Credits: 6<br>Coefficients: 3   | Automotive engines and fuels            | 4           | 2 1h30    | 30 1h30      |  |        | 45h00                  | 55h00                         | 40%                   | 60%  |
|   | Mechanical Manufacturing                | 2           | 1 1h30    |              |  |        | 10:30 p.m.             | 27:30                         |                       | 100% |
| Fundamental EU<br>Code: UEF 2.4<br>Credits: 8<br>Coefficients: 4    | Mathematics 4                           | 4           | 2 1h30    | 30 1h30      |  |        | 45h00                  | 55h00                         | 40%                   | 60%  |
|   | Numerical methods                       | 4           | 2 1h30    | 30 1h30      |  |        | 45h00                  | 55h00                         | 40%                   | 60%  |
| Fundamental EU<br>Code: UEF 3.4<br>Credits: 4<br>Coefficients: 2    | Vehicle aerodynamics                    | 4           | 2 1h30    | 30 1h30      |  |        | 45h00                  | 55h00                         | 40%                   | 60%  |
| Methodological EU<br>Code: UEM 4.4<br>Credits: 9<br>Coefficients: 5 | Drawing Assisted by Computer            | 2           | 1         |              |  | 1h30   | 10:30 p.m.             | 27:30                         | 100%                  |      |
|   | TP Automotive Engines and Fuels         | 2           | 1         |              |  | 1h30   | 10:30 p.m.             | 27:30                         | 100%                  |      |
|   | Vehicle pollution                       | 2           | 1 1h30    |              |  |        | 10:30 p.m.             | 27:30                         |                       | 100% |
|   | Aerodynamics TP                         | 1           | 1         |              |  | 1 hour | 3:00 p.m.              | 10:00 a.m.                    | 100%                  |      |
|   | Mechanical Manufacturing TP             | 2           | 1         |              |  | 1h30   | 10:30 p.m.             | 27:30                         | 100%                  |      |
| EU Discovery<br>Code: UED 5.4<br>Credits: 2<br>Coefficients: 2      | Industrial electricity                  | 1           | 1 1h30    |              |  |        | 10:30 p.m.             | 2:30 a.m.                     |                       | 100% |
|   | Materials Sciences                      | 1           | 1 1h30    |              |  |        | 10:30 p.m.             | 2:30 a.m.                     |                       | 100% |
| Transversal EU<br>Code: UET 6.4<br>Credits: 1<br>Coefficients: 1    | Expression and communication techniques | 1           | 1 1h30    |              |  |        | 10:30 p.m.             | 2:30 a.m.                     |                       | 100% |
| Total semester 4  |   | 30 17 12:00 | 6:00 7:00 |              |  |        | 375 hours              | 375 hours                     |                       |      |

**Semester 5**

| Unit<br>teaching  | Materials                                 | Credits   | Coefficient | Hourly volume<br>weekly |                  |                  | Volume<br>Hourly<br>Biannual<br>(15 weeks) | Work<br>Complementary<br>in consultation<br>(15 weeks) | Assessment method     |      |
|---|---|-----------|-------------|-------------------------|------------------|------------------|--|--|-----------------------|------|
|   | Titled                                    |           |             | Course                  | TD               | TP               |  |  | Control<br>Continuous | Exam |
| <b>Fundamental EU</b><br><b>Code: UEF 1.5</b><br><b>Credits: 10</b><br><b>Coefficients: 5</b>   | Air conditioning and automotive comfort   | 6         | 3           | 1h30                    | 1h30             | 1h30             | 67h30                                      | 82h30  | 40%                   | 60%  |
|   | Vehicle systems simulation                | 4         | 2           | 1h30                    | 1h30             |                  | 45h00                                      | 55h00  | 40%                   | 60%  |
| <b>Fundamental EU</b><br><b>Code: UEF 2.5</b><br><b>Credits: 8</b><br><b>Coefficients: 4</b>    | Braking systems                           | 2         | 1           | 1h30                    |                  |                  | 10:30 p.m.                                 | 27:30  | 40%                   | 60%  |
|   | Performances and dynamic vehicle behavior | 6         | 3           | 3 hours                 | 1h30             |                  | 67h30                                      | 82h30  | 40%                   | 60%  |
| <b>Methodological EU</b><br><b>Code: UEM 3.5</b><br><b>Credits: 9</b><br><b>Coefficients: 5</b> | TP Assembly and disassembly of engines    | 2         | 1           |                         |                  | 1h30             | 10:30 p.m.                                 | 27:30  | 100%                  |      |
|   | Car maintenance and Garage schedule       | 4         | 2           | 3:00 a.m.               |                  |                  | 45h00                                      | 55h00  | 40%                   | 60%  |
|   | Methods and tools of Diagnosis            | 3         | 2           | 1h30                    |                  | 1 hour           | 37h30                                      | 37h30  | 40%                   | 60%  |
| <b>EU Discovery</b><br><b>Code: UED 4.5</b><br><b>Credits: 2</b><br><b>Coefficients: 2</b>      | Automotive electricity                    | 2         | 2           | 1h30                    | 1h30             |                  | 45 hours                                   | 5h   | 40%                   | 100% |
| Transversal EU<br>Code: UET 5.5<br>Credits: 1<br>Coefficients: 1                                | Standards and Safety                      | 1         | 1           | 1h30                    |                  |                  | 10:30 p.m.                                 | 2h30   |                       | 100% |
| <b>Total semester 5</b>   |   | <b>30</b> | <b>17</b>   | <b>3:00 p.m.</b>        | <b>6:00 a.m.</b> | <b>4:00 a.m.</b> | <b>375 hours</b>                           | <b>375 hours</b>                                       |                       |      |

**Semester 6**

| Unit<br>teaching   | Materials                                     | Credits | Coefficient | Hourly volume<br>weekly |      |           | Volume<br>Hourly<br>Biannual<br>(15 weeks) | Work<br>Complementary<br>in consultation<br>(15 weeks) | Assessment method     |      |
|--|---|---------|-------------|-------------------------|------|-----------|--|--|-----------------------|------|
|  | Titled  |         |             | Course TD               | TP   |           |  |  | Control<br>Continuous | Exam |
| Fundamental EU<br>Code: UEF 1.6.<br>Credits: 10<br>Coefficients: 5     | Automotive Electronics                        | 6       | 3           | 3 hours                 | 1h30 |           | 67h30                                      | 82h30  | 40%                   | 60%  |
|  | Vehicle manufacturing                         | 4       | 2           | 1h30                    |      | 1h30      | 45h00                                      | 55h00  | 40%                   | 60%  |
| Fundamental EU<br>Code: UEF 2.6<br>Credits: 8<br>Coefficients: 4       | Automotive Materials                          | 4       | 2           | 1h30                    | 1h30 |           | 45h00                                      | 55h00  | 40%                   | 60%  |
|  | Resistance of materials                       | 4       | 2           | 1h30                    | 1h30 | 1h00      | 60h00                                      | 65h00  | 40%                   | 60%  |
| EU<br>Methodological<br>Code: UEM 3.6<br>Credits: 9<br>Coefficients: 5 | Technical inspection and<br>vehicle expertise | 1       | 1           | 1h30                    |      |           | 10:30 p.m.                                 | 27:30  |                       | 100% |
|  | End of cycle project                          | 8       | 4           |                         |      | 6:00 a.m. | 90h00                                      | 82h30  | 100%                  |      |
| EU Discovery<br>Code: UED 4.6<br>Credits: 2<br>Coefficients: 2         | Automobile Accident<br>Analysis               | 2       | 2           | 1h30                    | 1h30 |           | 45h00                                      | 5:00 a.m.  | 40%                   | 60%  |
| Transversal EU<br>Code: UET 5.6<br>Credits: 1<br>Coefficients: 1       | Project management                            | 1       | 1           | 1h30                    |      |           | 10:30 p.m.                                 | 2h30   |                       | 100% |
| Total semester 6   |   | 30      | 17          | 12:00                   | 6:00 | 7:00      | 375 hours                                  | 375 hours  |                       |      |

