# Model Weekly Time-Tables

**2021-2022**

Teaching units in green are taught at ECAM Lyon.

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>h/week</th>
<th>Semester 2</th>
<th>h/week</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTRICAL ENG.</td>
<td>3</td>
<td>THERMODYNAMICS</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>22</strong></td>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
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</table>
SEMESTER AT STRATHCLYDE UNIVERSITY
Aerospace electives

Semester 3

- MATHS FOR ENG. [3] 3
- FLUID MECHANICS [1] 3
- STRENGTH OF MATER. 3
- KINEMATICS OF MECHANICAL SYSTEMS 3
- MANUFACTURING 3
- HUMANITIES [3] 6

Total hours 21

Semester 4

- INTERNSHIP IN INDUSTRY 4 MONTHS
- SEMESTER AT STRATHCLYDE UNIVERSITY

Semester 5

- EXPERIMENTS AND SIMULATIONS 3
- THERMODYNAMICS AND PROPULSION 3
- HEAT TRANSFER 3
- MACHINE ELEMENTS 8
- TRANSDUCERS & MEASUREMENTS 3

Total hours 26

Semester 6

- COMPOSITE MATERIALS 30
- CONTROL ENGINEERING 38
- FLIGHT MECHANICS 20
- INTERNSHIP IN INDUSTRY 4 MONTHS 26

Total hours April - July

Final projects from October to March
**Teaching units and credits**
Students validate 30 ECTS credits per semester leading to a total of 180 ECTS credits on completion of their degree.

### Semester 1

<table>
<thead>
<tr>
<th>UE-IBENG-1</th>
<th>ECTS</th>
<th>UE-IBENG-1</th>
<th>ECTS</th>
<th>UE-IBENG-1</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical and Materials Engineering-S1</td>
<td>Credits</td>
<td>General Engineering-S1</td>
<td>Credits</td>
<td>Personal development -1-S1 (*)</td>
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<tr>
<td>EC4: NON SCIENTIFIC OPTIONS</td>
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<td>EC4: NON SCIENTIFIC OPTIONS</td>
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<td>(*) choice based on French level</td>
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### Semester 2

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<tr>
<th>UE-IBENG-1</th>
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<td>EC4: NON SCIENTIFIC OPTIONS</td>
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<td>(*) choice based on French level</td>
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<tr>
<td>EC4: SCIENTIFIC PROGRAMMING</td>
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<th>UE-IBENG-2</th>
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</thead>
<tbody>
<tr>
<td>Mechanical and Materials Engineering-S3</td>
<td>Credits</td>
<td>General Engineering-S3</td>
<td>Credits</td>
<td>Personal development -1-S3 (*)</td>
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</tr>
<tr>
<td>EC2: KINEMATICS OF MECHANICAL SYSTEMS</td>
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<td>EC2: INTERNSHIP (end of year 1)</td>
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<td>EC2: LANGUAGE</td>
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<tr>
<td>EC3: MANUFACTURING</td>
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<td>EC3: FLUID MECHANICS</td>
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<td>EC3: CULTURE, SCIENCE AND SOCIETY</td>
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<tr>
<td>EC4: NON SCIENTIFIC OPTIONS</td>
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<td>EC4: NON SCIENTIFIC OPTIONS</td>
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### Semester 4
At the University of Strathclyde [Glasgow-UK]

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>IBENG-2 General Engineering-S4</td>
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<td>IBENG-2 Mechanical and Aerospace Engineering-S4</td>
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<td>IBENG-2 Personal Development-S4</td>
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<tr>
<td>EC1: PROFESSIONAL STUDIES</td>
<td>3</td>
<td>EC1: FLIGHT AND SPACEFLIGHT</td>
<td>5</td>
<td>EC1: ELECTIVE OR FRENCH AS A FOREIGN LANGUAGES</td>
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<tr>
<td>EC2: EXPERIMENTAL AND LABORATORY SKILLS</td>
<td>3</td>
<td>EC2: AERODESIGN</td>
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<tr>
<td>EC3: AUTOMOTIVE SYSTEMS</td>
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<td>EC3: ENGINEERING ANALYSIS [FE]</td>
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### Semester 5

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<td>IBENG-3 Mechanical and Aerospace Engineering-S5</td>
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<td>IBENG-3 Personal and Professional Development-S5</td>
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<td>EC1: HEAT TRANSFER</td>
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<td>EC1: MACHINE ELEMENTS</td>
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<td>EC1: ELECTIVE *</td>
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<td>EC2: EXPERIMENTS AND SIMULATIONS</td>
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<td>EC2: THERMODYNAMICS AND PROPULSION</td>
<td>4</td>
<td>EC2: INTERNATIONAL ENGINEERING PRACTICE [I]</td>
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<td>EC3: TRANSDUCERS AND MEASUREMENTS</td>
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<td>EC3: FINAL PROJECT [I]</td>
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(* depending on French level)

### Semester 6

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<tr>
<td>IBENG-3 Industrial Engineering-S6</td>
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<td>IBENG-3 Aerospace Engineering-S6</td>
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<td>IBENG-3 Personal and Professional Development-S6</td>
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<tr>
<td>EC1: FINAL PROJECT [2]</td>
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<td>EC1: COMPOSITE MATERIALS</td>
<td>2</td>
<td>EC1: ELECTIVE *</td>
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<td>EC3: FLIGHT MECHANICS</td>
<td>2</td>
<td>EC3: INTERNATIONAL CULTURE</td>
<td>1</td>
</tr>
</tbody>
</table>

(* depending on French level)