

# **280-3D4-EM** FALL 2023 Avionics Department

# **COURSE OUTLINE**

| COURSE:     | Direct-Current Avionics Systems |              |                   |  |
|-------------|---------------------------------|--------------|-------------------|--|
| PROGRAM:    | 280.C0 Avionics techniques      |              |                   |  |
| DISCIPLINE: | 280 Aeronautics                 |              |                   |  |
| WEIGHTING:  | Theory : 2                      | Practice : 2 | Personal study: 2 |  |

| Teacher(s)            | Office | 🕿 post | ⊠ email                                |
|-----------------------|--------|--------|--|
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| Morin, Frédéric       | A-187  | 4397   | fa.morin@cegepmontpetit.ca             |
| Parenteau, Martin     | A-192  | 4675   | martin.parenteau@cegepmontpetit.ca     |
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#### PERIOD OF AVAILABILITY TO STUDENTS

|           | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY |
|-----------|--------|---------|-----------|----------|--------|
| Morning   |        |         |           |          |        |
| Afternoon |        |         |           |          |        |

| Department Coordinators | Office | 🕾 post | 🖂 email or website                      |
|-------------------------|--------|--------|---|
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### 1. PLACE OF THE COURSE IN THE STUDENT'S EDUCATION

This course is offered during the third session of the program.

No course is an absolute prerequisite for this course.

This course is not an absolute prerequisite for any other course. However, this course is part of a program approach. Many of the skills developed in this course will be reinvested in subsequent stages of the program, particularly in the course:

280-4A4-EM: Alternate Current Avionics

This course outline should be kept by the student throughout their studies as it will be useful at the time of the integration activity.

**Transport Canada**: This course outline meets the Transport Canada requirements as outlined in the Training Control Manual (TCM). The department follows the Transport Canada standard of 5% absences from courses (theory and laboratory). The department compiles absences for students enrolled in the *Aircraft Maintenance Techniques* (280.C0) and *Avionics Techniques* (280.D0) programs according to Transport Canada requirements. The application of Transport Canada's policy on the control of absences is available on the *My Success at ÉNA* website under the heading "Privileges granted by Transport Canada".

In the event of a conflict between this syllabus and Standard 566 of the Canadian Aviation Regulations or the CFSM, the latter shall prevail.

#### 2. COMPETENCY OF THE GRADUATE'S PORTRAIT

Perform maintenance on aircraft systems.

#### 3. DEPARTMENTAL OBJECTIVE(S) (CODE AND STATEMENT)

| 025T | To maintain direct-current circuits on an aircraft.                            |
|------|--|
| 0263 | To inspect the operation of simple alternating-current circuits on an aircraft |

#### 4. FINAL COURSE OBJECTIVE

At the end of the course, the student will be able to troubleshoot electrical generation and distribution systems on single piston aircraft

#### 5. LEARNING OBJECTIVES

- 1. Take measurements on DC electrical circuits (series, parallel and mixed).
- 2. Perform check of passive components on DC electrical circuits.
- 3. Perform aircraft power supply and distribution system check on DC electrical circuits.
- 4. Troubleshoot anomalies in aircraft power and distribution systems.

### 6. COURSE PLANNING

### Theoretical part of the course sequence

|        |  | MODE OF OPERATION  |  | RESOURCES AND  |
|--------|--|--|--|--|
| Course | Objectives   | Contents   | Learning activities  | TECHNOLOGICAL<br>TOOLS<br>(URL link)   |
| 1      | <ul> <li>DC verification on passive<br/>components in a wiring<br/>diagram.</li> <li>Correlate the electrical<br/>components on the wiring diagram<br/>and their physical counterparts.</li> <li>Analyze an aircraft electrical<br/>diagram.</li> <li>Determine the expected<br/>functionality of an electrical<br/>system from WD examination.</li> <li>Understand the purpose of the<br/>Aircraft Maintenance Manual<br/>(AMM).</li> </ul> | <ul> <li>Identification of the various<br/>electrical components</li> <li>Recognition of the physical<br/>electronic parts, their<br/>symbols and designators on<br/>the Wiring Diagram.</li> <li>How to read electrical plans</li> <li>Recognition of the<br/>parameters of a Wiring<br/>Diagram</li> <li>Recognitions of electrical<br/>components, wire types and<br/>connectors (P – Plugs and J<br/>– Jacks)</li> <li>Manufacturer informations<br/>localisation</li> <li>The ATA system</li> </ul> | <ul> <li>Course Outline lectured presentation</li> <li>Group discussion on the Power Generation schematic for a Single Engine DC System</li> <li>Lectured presentation on the use and meaning of a WD and an AMM</li> <li>Individual identification exercise of various physical electrical components</li> <li>Team identification exercise of various electrical components in an aircraft electrical schematic</li> </ul> | <ul> <li>PowerPoint (LÉA)</li> <li>Homeworks (LÉA)</li> <li>Video</li> <li>Other applicables ressources</li> </ul> |
| 2      | <ul> <li>DC Verification of the electrical power supply system on the Single engine mock-up WD:</li> <li>Analyze the Single Engine electrical distribution system.</li> <li>Determine the purpose and functioning of passive components.</li> <li>Determine the current direction through the system (conventional current).</li> </ul>  | <ul> <li>Aircraft technical manuals</li> <li>The different maintenance manuals and their usage</li> <li>Electrical control components in a wiring diagram</li> <li>Switch</li> <li>Relay</li> <li>Contactor</li> <li>Follow the electric signal from source to the ground.</li> <li>Sources (Battery and GPU)</li> <li>Ground points</li> </ul>  | <ul> <li>Lectured presentation and group discussion on the control devices in an electric circuit.</li> <li>Lectured presentation and group discussion on the power generation control devices</li> <li>Groupe exercise on the signal tracing on the mock-up Wiring Diagram <i>MP-A113</i></li> <li>Team scenario on open/closed circuits</li> </ul>   |  |
| 3      | <ul> <li>Take DC measurements of DC electrical circuits (serial, parallel, mixed) with the Ohm law:</li> <li>Notions of power and energy.</li> <li>Serial circuits.</li> <li>Parallel circuits.</li> <li>Power Sources (Generators and Batteries).</li> </ul>  | <ul> <li>Ohm law</li> <li>Relationship between voltage, resistance and current</li> <li>Definitions of electric parameters and their units</li> <li>Power, Energy</li> <li>Kirchhoff law.</li> <li>Identification of serial, parallel and mixed circuits.</li> </ul>   | <ul> <li>Revisions of concepts</li> <li>Lectured presentations</li> <li>Team activities</li> <li>Exercices</li> <li>Homeworks</li> </ul>   |  |

|        |  | MODE OF OPERATION  |  | RESOURCES AND  |
|--------|--|--|--|--|
| Course | Objectives   | Contents   | Learning activities  | TECHNOLOGICAL<br>TOOLS<br>(URL link)   |
| 4      | <ul> <li>The Ohm law:</li> <li>Mixed circuits.</li> <li>Relationship between electric potential, current and electrical resistance; definition of an electrical current</li> <li>Origins of electricity.</li> <li>Current flow.</li> <li>Current types.</li> <li>Electricity conductors.</li> <li>Static electricity.</li> </ul> Definition of the electric parameters and their measurement units: <ul> <li>Voltage, current and resistance notions.</li> </ul> | <ul> <li>Application of Ohm and Kirchhoff<br/>laws to electrical circuits.</li> <li>Identification of serial parallel<br/>and mixed circuits.</li> <li>Determination of total<br/>resistance of serial circuits.</li> <li>Electric junction/link components.</li> <li>Plug</li> <li>Connector</li> <li>Terminal block</li> <li>Shunt</li> </ul>  | <ul> <li>Revisions of concepts</li> <li>Lectured presentations</li> <li>Team activities</li> <li>Exercices</li> <li>Homeworks</li> </ul> |  |
| 5      | <ul> <li>Perform DC Power Supply and protection device check.</li> <li>Analyze the single engine electrical supply with a battery or a ground power unit (GPU).</li> <li>Determine the role and functionality of passive control components.</li> <li>Determine the current direction through the system (conventional current).</li> </ul>  | <ul> <li>Electrical circuit protection<br/>components</li> <li>Fuse</li> <li>Breaker</li> <li>Resistance of a circular wire.</li> <li>Conductor resistance</li> <li>Types of conductors used in<br/>aeronautics and their<br/>characteristics: AC 43.13-1B<br/>and AC 43.13-2A.</li> <li>Choice of a wire gauge<br/>based on voltage, current<br/>and distance from the<br/>source.</li> </ul> | <ul> <li>Revisions of concepts</li> <li>Lectured presentations</li> <li>Team activities</li> <li>Exercices</li> <li>Homeworks</li> </ul> |  |
| 6      | Theorical evaluation of the concepts   | acquired in courses 1 to 5 (20%  | 6)   | Review of<br>documents, exercises<br>and assignments.  |
| 7      | <ul> <li>Take DC measurements of DC electrical circuits (serial, parallel, mixed) with power supply and batteries:</li> <li>Electrical power supply (Generators and Batteries)</li> <li>Notion of power and energy.</li> <li>Power supply in serial and parallel configuration.</li> <li>Battery types and characteristics.</li> </ul>   | <ul> <li>Types and characteristics of<br/>batteries used in aviation.</li> <li>Lead-acid batteries</li> <li>Nickel-Cadmium batteries</li> <li>Lithium-ion batteries</li> <li>Maintenance manual.</li> </ul>  | <ul> <li>Revisions of concepts</li> <li>Lectured presentations</li> <li>Team activities</li> <li>Exercices</li> <li>Homeworks</li> </ul> | <ul> <li>PowerPoint (LÉA)</li> <li>Homeworks (LÉA)</li> <li>Video</li> <li>Other applicables ressources</li> </ul> |

|        |  | MODE OF OPERATION   |             |  | RESOURCES AND  |
|--------|--|---|-------------|--|--|
| Course | Objectives   | Contents  |             | Learning activities  | TECHNOLOGICAL<br>TOOLS<br>(URL link)   |
| 8      | <ul> <li>Take DC measurements of DC electrical circuits (serial, parallel, mixed) with semi-conductors:</li> <li>Notion of power and energy.</li> <li>Serial circuits.</li> <li>Parallel circuits.</li> <li>Electrical power supply (Generators and Batteries).</li> <li>Verification of a single engine aircraft DC supply and distribution system.</li> <li>Verification of the DC generation system functionality.</li> <li>Verification of the single piston engine DC generation system.</li> </ul> | <ul> <li>Semi-conductors</li> <li>N, P-type materials, PN<br/>jonctions and polarization of<br/>PN jonctions.</li> <li>Recognizing the symbol for<br/>diodes.</li> <li>Functions of diodes <ul> <li>Switching circuits</li> <li>Free-wheel circuits</li> <li>LED</li> <li>Photodiodes</li> <li>Zener Diodes</li> </ul> </li> <li>Electromagnetism.</li> <li>Application of<br/>electromagnetic induction.</li> <li>DC electrical machines</li> <li>DC electrical motor</li> </ul> | •           | Revisions of concepts<br>Lectured presentations<br>Team activities<br>Exercices<br>Research on batteries | <ul> <li>PowerPoint (LÉA)</li> <li>Homeworks (LÉA)</li> <li>Video</li> <li>Other applicables<br/>ressources</li> </ul> |
| 9      | Check the power supply and<br>distribution system: starter and<br>alternator.<br>Perform Aircraft DC Power Supply<br>and DC Distribution System<br>Check.<br>Check operation of DC generation<br>systems<br>Check a DC generation system of a<br>single piston engine.   | <ul> <li>DC electrical machines<br/>(continued)</li> <li>DC alternator</li> <li>Starter-Gen</li> <li>Analysis (using schematics<br/>of a single-engine piston<br/>aircraft): <ul> <li>Electrical power<br/>generation and<br/>distribution system.</li> <li>Starting system.</li> </ul> </li> <li>Voltage regulator</li> </ul>  | •<br>•<br>• | Revisions of concepts<br>Lectured presentations<br>Team activities<br>Exercices<br>Homeworks             |  |
| 11     | Troubleshoot anomalies in the DC generation and distribution   | Generation, distribution and starting systems for single piston   | •           | Revisions of concepts<br>Lectured presentations  |  |
| 12     | system of a single piston<br>engine.   | <ul> <li>Analysis (using schematics</li> </ul>  | •           | Team activities<br>Exercices   |  |
| 13     | <b>~</b>   | of a single-engine piston<br>aircraft):   | •           | Homeworks  |  |
| 14     |  | <ul> <li>Electrical power<br/>generation and<br/>distribution system.</li> <li>COMPLETE electric<br/>supply system analysis</li> <li>Troubleshooting techniques</li> <li>Using test procedures.</li> <li>Using Wiring Diagram</li> <li>Using test points</li> </ul>   |             |  |  |
| 15     | Theorical evaluation of the concepts   |   | %)          |  | Review of documents,<br>exercises and<br>assignments.  |

## Sequence of the practical part of the course

|        |   | MODE OF OPERATION   |  | RESOURCES AND   |
|--------|---|---|--|---|
| Course | Objectives  | Contents  | Learning activities  | TECHNOLOGICAL TOOLS<br>(URL link)   |
| 2      | <ul> <li>Take measurements on direct current electrical circuits.</li> <li>Perform DC Verification of Passive Components: <ul> <li>Operation of electrical control devices.</li> <li>Operation of electrical protective devices.</li> </ul> </li> </ul> | <ul> <li>Presentation of the course outline<br/>and sequence</li> <li>Avionics Laboratory Safety<br/>Concepts</li> <li>Recall of power of 10</li> <li>Resistance Color Code</li> <li>Resistance measurement</li> <li>Principle and use of an<br/>analog multimeter</li> <li>Principle and Use of a Digital<br/>Bench Multimeter</li> <li>Principle and use of a<br/>portable digital multimeter</li> <li>Measurement of resistors,<br/>relays and switches</li> <li>circuit breakers and fuses</li> </ul> | <ul> <li>Workshop familiarization</li> <li>Workshop experiments</li> </ul> | <ul> <li>PowerPoint (LÉA)</li> <li>Laboratory<br/>documents (LÉA)</li> <li>Electrical<br/>components</li> <li>Training board and<br/>didactic panels</li> </ul> |
| 3      |   | <ul> <li>Construction and<br/>measurement of electrical<br/>circuits 1</li> </ul>   |  |   |
| 4      |   | Construction and<br>measurement of electrical<br>circuits 2   |  |   |
| 5      | Practical Assessment 1  |   |  |   |
| Ū      | Analysis and verification of simple e   | electrical components and circuits  | S  |   |
| 6      | Perform Aircraft DC Power<br>Supply and Distribution System   | <ul> <li>Explanation and<br/>demonstration of how to use<br/>the ground power unit with</li> </ul>  | Workshop experiments     Studied systems:                                  | <ul> <li>Laboratory<br/>documents (LÉA)</li> </ul>  |
| 7      | Check.  | the mockup.   | - Anticollision<br>- Position light  | PowerPoint (LÉA)  |
| 8      |   | <ul> <li>Use of mockup as operator<br/>Use of AMM to perform<br/>maintenance checks (block</li> </ul>   | - Landing light<br>- Fuel indication system.                               | Single-engine     didactic mockup   |
| 9      |   | 500).   | - Starter system   | (MP-A113)   |
| 10     | Practical Assessment 2<br>Individual battery maintenance scer   |   |  | Mockup technical<br>documentation   |
| 11     | Troubleshoot anomalies in the DC generation and distribution system   | Troubleshooting of the single<br>engine mockup (MP-A113)<br>using the voltmeter or  | Team troubleshooting<br>exercises on mock-up MP-<br>A113                   | <ul> <li>Troubleshooting<br/>form (LÉA)</li> </ul>  |
| 12     | of a single piston engine.  | ohmmeter in accordance<br>with the 14 V Single Piston   |  |   |
| 13     |   | Engine Procedures Manual (AMM)  |  |   |
| 14     |   |   |  |   |
| 15     | Practical Assessment 3<br>Individual troubleshooting of an airc   | raft system   |  |   |

#### 7. SUMMATIVE EVALUATION PROCEDURES

| Deadline<br>(date) | Description of the evaluation activity  | Context<br>of realization and mode of<br>evaluation   | Learning<br>objective(s) | Evaluation criteria  | Weight (%) |
|--------------------|---|---|--------------------------|--|------------|
| Week 6             | <b>Exam 1</b><br>Identification and analysis of basic<br>electrical components and circuits.<br>Determination of DC electrical circuit<br>parameters.               | <ul> <li>✓ Questionnaire provided in class at<br/>time of review.</li> <li>✓ Development questions dealing with<br/>scenarios.</li> <li>✓ no documentation</li> <li>✓ individual</li> </ul> | 1, 2, 3                  | - Accuracy of calculations<br>- Diagnostic accuracy<br>- Accuracy of methodology<br>applied                            | 20         |
| Week<br>15         | <b>Exam 2</b><br>Theoretical analysis, verification and<br>troubleshooting of aircraft electrical<br>systems. Determination of DC<br>electrical circuit parameters. | <ul> <li>✓ Questionnaire provided in class at time of review.</li> <li>✓ Development questions dealing with scenarios.</li> <li>✓ no documentation</li> <li>✓ individual</li> </ul>         | 1, 2, 3, 4               | <ul> <li>Accuracy of calculations</li> <li>Diagnostic accuracy</li> <li>Accuracy of methodology<br/>applied</li> </ul> | 40         |

#### Conduct of the practical part of the course

#### Weight Deadline Context Learning Evaluation criteria Description of the evaluation activity (date) of realization and mode of evaluation objective(s) (%) - Appropriate use of technical 1, 2 ✓ Individual evaluation on didactic information panel - Compliance of technical **Practical assessment 1** $\checkmark$ Electrical circuit to be made verification operations Week 5 Vverification of DC electric circuits according to a drawing provided 10 - Circuit accuracy containing passive components ✓ Perform electrical measurements - Compliance of technical according to the provided evaluation operations when taking workbook measurements 3 - Correct battery ✓ Individual evaluation on didactic characterization panel - Correct description of the ✓ Verification of the needs and **Practical assessment 2** maintenance requirements resources Summative workshop on the - Precise description of battery Week 10 5 ✓ Individual preparation (research-type) concepts of aircraft battery handling and stocking in to be prepared by the student before maintenance accordance with the the practical assessment maintenance guide $\checkmark$ Validate the information winth the maintenance guide

Subtotal: 60%.

| Week 15 | <b>Practical assessment 3</b><br>Analysis, verification and troubleshooting<br>of DC primary generation aircraft<br>equipped with DC generators | <ul> <li>✓ Individual evaluation on didactic panel</li> <li>✓ Verification and Troubleshooting</li> <li>✓ 1 malfunction placed by the teacher for evaluation purposes</li> <li>✓ List of tests to be performed provided in class</li> <li>✓ Perform tests according to a procedure provided, in order to validate the compliance of the unit</li> </ul> | 3, 4 | <ul> <li>Appropriate use of technical<br/>information</li> <li>Compliance of technical<br/>verification operations</li> <li>Precise description of the<br/>observed anomaly</li> <li>Accurate assessment of<br/>symptoms</li> <li>Precise identification of<br/>probable causes</li> <li>Judicious planning</li> <li>Compliance of technical<br/>operations when taking<br/>measurements</li> <li>Precise identification of the<br/>cause of the anomaly</li> <li>Clarity of troubleshooting<br/>conclusion</li> </ul> | 25 |
|---------|---|---|------|--|----|
|---------|---|---|------|--|----|

Subtotal :

40%

TOTAL : 100%

#### Extracurricular activities of an aeronautical nature.

In order to increase their knowledge of the aviation environment, the Avionics Department strongly advises students to actively participate in the development of and take part in any extracurricular activities of an aeronautical nature such as visits (industries, operators, airports, air traffic management, military bases, museums, theme parks, etc.), conferences or events organized both within and outside the National School of Aerotechnics.

#### 8. MANDATORY EQUIPMENT REQUIRED

Safety clothing and equipment in accordance with ÉNA standards.

EISMIN, THOMAS K. – *Aircraft Electricity & Electronics, \*<u>7th Edition</u>, McGraw-Hill, 2019. ISBN 978-1-260-10821-7 (paper version strongly recommanded)* 

#### 9. **BIBLIOGRAPHY**

EISMIN, THOMAS K. – Aircraft Electricity & Electronics, \*7th Edition, McGraw-Hill, 2019. ISBN 978-1-260-10821-7

#### **10. CONDITIONS FOR SUCCESS IN THE COURSE**

#### (1) Note of passage

The passing grade for a course is 60% (PIEA, section 5.1m).

#### (2) Attendance at summative evaluations

Attendance at summative evaluation activities is mandatory (IEP, section 5.2.5.1).

#### (3) Delivery of the work

Work required by a professor must be submitted on the date, place, and time specified. Penalties for tardiness are established according to departmental rules (PIEA, section 5.2.5.2).

Penalties for late work are: Unless agreed upon with the instructor, late work is penalized at a rate of 10% per day late, and a grade of zero will be assigned to the work beginning on the sixth day late. Work required by week 15 may not be turned in late.

See the "Departmental Rules" section at: https://mareussite.cegepmontpetit.ca/ena/mon-parcours/mon-programme/regles-departementales/

#### (4) Material presentation of the work

The student must respect the "Normes de présentation matérielle des travaux écrits" adopted by the Cégep. These standards are available at http://rmsh.cegepmontpetit.ca/normes-de-presentation-materielle-des-travauxecrits-du-cegep/.

<u>Penalties for failure to meet standards are</u>: When an assignment turned in is deemed unacceptable due to presentation, grading of that assignment will be delayed until the assignment is turned in within the standards set by the instructor. In this case, the penalties for late submission of work will apply.

See the "Departmental Rules" section at: <u>https://mareussite.cegepmontpetit.ca/ena/mon-parcours/mon-programme/regles-departementales/</u>

#### (5) Quality of the French language

The assessment of language quality (PIEA, section 5.3.1) must meet the criteria and values established by the department. The departmental procedure for evaluating the quality of French is: https://mareussite.cegepmontpetit.ca/ena/mon-parcours/mon-programme/regles-departementales/

#### **11. HOW TO PARTICIPATE IN THE COURSE**

Laboratory Safety and Use of Premises:

Student occupancy of laboratory space and use of laboratory equipment must be under the supervision of a professor or technician, unless otherwise specified.

Any student whose behavior in the lab presents a risk to others present will, after warning by the instructor, be excluded from the lab until the case is reviewed by the instructor and the Avionics Department Coordinator.

Safety glasses and shoes must be worn by all (faculty and students) for all lab sessions, whether the session is in the workshop, the hangars, or one of the school's technical libraries.

Students are encouraged to consult the website for rules specific to this course: <a href="https://mareussite.cegepmontpetit.ca/ena/mon-parcours/mon-programme/regles-departementales/">https://mareussite.cegepmontpetit.ca/ena/mon-parcours/mon-programme/regles-departementales/</a>

As stated in Section 5.3.4 of the PIEA, attendance is evidence of the student's commitment to his/her studies. The instructor must record absences in the electronic absence management system or on a logbook for the student to review.

#### **12. INSTITUTIONAL POLICIES AND RULES**

All students enrolled at the École nationale d'aérotechnique of Cégep Édouard-Montpetit must be aware of the content of certain institutional policies and regulations and comply with them. These include the Institutional Policy on the Evaluation of Learning (PIEA), the Institutional Policy on the French Language (PILF), the Policy for a Harassment and Violence-Free Learning and Working Environment (PPMÉTEHV), the Conditions of Admission and Academic Progress, and the Procedure for Handling Student Complaints in the Context of Educational Relations.

The full text of these policies and regulations is available on the College's website at http://www.cegepmontpetit.ca/ena/a-propos-de-l-ecole/reglements-et-politiques. In the event of a discrepancy between the texts appearing elsewhere and the full text, the latter is the only legal and applied version.

#### **APPENDIX**

None.