



UNDERGRADUATE STUDY: **AERONAUTICS**

SEMESTER (III)

Syllabus

Academic year 2023/2024

| | | | | | |
|--|------------------------------|-----------------------------|--|-----------------------|------------------------|
| Course: | | Aviation English III | | | |
| Head of course: Ivana Francetić, BA | | | | | |
| Co-lecturers: Siniša Prekratić, MA | | | | | |
| Semester: III | Course code: 95317 | Lectures: 15 | Auditory exercises: 15 | Laboratory exercises: | ECTS credits: 1 |
| Group for lectures: 25 students | | | Group for auditory and laboratory exercises: 25 students | | |

Objective of the course:

- Provide knowledge and information necessary to demonstrate at least Level 4 according to ICAO English Level Proficiency Testing descriptors.

Learning outcomes:

After the completion of the course the student will be able to:

1. Use complex grammatical structures (conditional clauses and passive) in Aviation English texts.
2. Differentiate between six basic instruments in aviation (artificial horizon, airspeed indicator, altimeter, variometer, accelerator, turn-and-bank indicator) in English.
3. Compare types of engines (piston and jet), types of system (hydraulic, electric, fuel, pneumatic and oil systems).
4. Categorize meteorological phenomena (wind, rain, drizzle, snow, thunder, hail, fog, visibility, cloud coverage, air temperature, dew point).
5. Translate precisely from Croatian into English texts on Aviation topics in accordance with the ICAO language descriptors, using glossaries and dictionaries (ICAO English Language Proficiency Requirements - Level 5)
6. Use proper terminology and complex grammatical structures when describing and analyzing routine and non-routine situations and aircraft incidents and accidents (Palermo accident, Hudson river incident)
7. Actively participate in class discussions on aviation industry topics



LECTURES and EXERCISES

| Week | Syllabus | Form of classes | Performed by | Lessons | Remark |
|------|---|-----------------|------------------|---------|--------|
| 1. | <ul style="list-style-type: none"> Explanation of the syllabus and the aims of the course. Introduction into the books and other sources to be used in the course | L | Siniša Prekratić | 2 | |
| 2. | <ul style="list-style-type: none"> Instruments (basic six) Electrical systems Glass cockpit | L | Siniša Prekratić | 1 | |
| | <ul style="list-style-type: none"> Introduction to passive voice | AE | Siniša Prekratić | 1 | |
| 3. | <ul style="list-style-type: none"> Jet engines Parts of jet engine Engine operations | L | Siniša Prekratić | 1 | |
| | <ul style="list-style-type: none"> Present passive | AE | Siniša Prekratić | 1 | |
| 4. | <ul style="list-style-type: none"> Piston engines Parts of engine Internal combustion engine - cycles | L | Siniša Prekratić | 1 | |
| | <ul style="list-style-type: none"> Past passive | AE | Siniša Prekratić | 1 | |
| 5. | <ul style="list-style-type: none"> Turbine engines Engine types – turbofan, turboprop How gas turbine engines work? | L | Siniša Prekratić | 1 | |
| | <ul style="list-style-type: none"> Future passive | AE | Siniša Prekratić | 1 | |



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|-----|--|----|---------------------|---|--|
| 6. | <ul style="list-style-type: none"> 1st revision test | AE | Siniša Prekratić | 2 | |
| 7. | <ul style="list-style-type: none"> Oil system and Cooling system Case study 1 – Palermo accident | L | Siniša Prekratić | 1 | |
| | <ul style="list-style-type: none"> Constructions with Passive | AE | Siniša Prekratić | 1 | |
| 8. | <ul style="list-style-type: none"> Hydraulic, fuel, pneumatic and electrical systems | L | Siniša Prekratić | 1 | |
| | <ul style="list-style-type: none"> Adjectives (Comparison and contrasting) | AE | Siniša Prekratić | 1 | |
| 9. | <ul style="list-style-type: none"> Aviation fuel and environment | L | Siniša Prekratić | 1 | |
| | <ul style="list-style-type: none"> Conditional clauses – type 0 and 1 | AE | Siniša Prekratić | 1 | |
| 10. | <ul style="list-style-type: none"> Meteorology 1 – clouds Sky cover designators | L | Siniša Prekratić | 1 | |
| | <ul style="list-style-type: none"> Conditional clauses – type 2 | AE | Siniša Prekratić | 1 | |
| 11. | <ul style="list-style-type: none"> Meteorology 2 – precipitation, wind and turbulence Case study 2 – Polish president Lech Kaczynski killed in plane crash | L | Siniša Prekratić | 1 | |



| | | | | | |
|-----|---|----|------------------|---|--|
| | <ul style="list-style-type: none"> Conditional clauses – type 3 | AE | Siniša Prekratić | 1 | |
| 12. | <ul style="list-style-type: none"> Meteorology 3 – weather hazards (ice, fog, thunderstorms, windshear, CAT, microburst) | L | Siniša Prekratić | 1 | |
| | <ul style="list-style-type: none"> Conditional clauses – mixed types | AE | Siniša Prekratić | 1 | |
| 13. | <ul style="list-style-type: none"> Animal hazard Case study 3 – Hudson river incident | L | Siniša Prekratić | 1 | |
| | <ul style="list-style-type: none"> Revision of Conditional clauses | AE | Siniša Prekratić | 1 | |
| 14. | <ul style="list-style-type: none"> 2nd revision test | AE | Siniša Prekratić | 2 | |
| 15. | <ul style="list-style-type: none"> Review of the 2nd revision test – revisions for the final exams | AE | Siniša Prekratić | 2 | |

L = Lectures; **AE** = Auditory Exercises; **LE** = Laboratory Exercises; **S** = Seminars



STUDENT OBLIGATIONS AND EXAMS

Conditions for obtaining signatures:

The student acquires the right to get a signature for $\geq 80\%$ of attendance during the lectures and attendance at $\geq 70\%$ of exercises. The attendance in the percentage lower than 80% at lectures and exercises may be justified by adequate medical note. There are no pre-conditions from other courses except basic knowledge of the English language.

Written exam:

There are two ways of passing the exam:

- a) **Revision tests** – consists of writing two written tests during the semester. The first test can be attended by all students enrolled in the course in the current academic year. The second test at the end of the semester can be attended by the students who have acquired a positive grade from test 1.
- b) **Written exam** – consists of a final written exam during regular examination periods. The written exam can be taken by students who have met the course attendance requirements.

Oral exam: To attend the oral part of exam, the student has to pass two written revision tests or the final written exam.

LITERATURE

a) Obligatory literature:

1. Material published on Merlin system
2. Raymond Murphy: **ENGLISH GRAMMAR IN USE**, CUP, Cambridge (the latest edition)
3. Additional materials brought to the class by the lecturer

b) Recommended literature:

1. Henry Emery&Andy Roberts: **Aviation English**, Macmillan, 2010
2. C. Douglas Billet: **Ready for Take-Off**, Media Training Cooperation, Cannes, 2000
3. S. Ellis&t. Gerighty: **English for Aviation**, OUP, 2008
4. Various audio and video material (on Merlin)





COURSE METHODOLOGY

1. LECTURES

Lectures follow material given on Merlin. Grammar topics rely on the book **English Grammar in Use**. Grammar and syntax are explained during lectures, especially topics relevant to non-native speakers of English. Various language functions are explained during the lectures (questions, imperatives, obligations) which are especially important for Aviation English as a language for specific purposes. Aviation English terminology is introduced and practiced.

2. AUDITORY EXERCISES

The primary function of the auditory exercises is to practice speaking skills (actively and passively). Audio materials are used. Main language skills are practiced: speaking, listening, reading, and writing (with the emphasis on the two first mentioned.) Since grammatical structures are to be practiced as well, the students will be given various grammatical exercises for work at home and in the class as well.

Students are provided with complete authorized instructional material in print form.

Students exercise reading, the emphasis being put on correct pronunciation and accent. Specific language functions (asking questions, finding information, giving advice and orders etc.) are dealt with in detail.





4. DOCUMENTATION

Electronic records of attendance of lectures and exercises (students confirm attendance using student cards) are kept. All written exams are kept at the Department of aeronautics.

5. SCORING SYSTEM

Table 1 The scoring system for the monitoring of students and explained credit values in ECTS credits

| no | Segment: | Required credits to be achieved: | | Remark: | ECTS credits |
|----------|---------------------------------|----------------------------------|------|---------|--------------|
| | | Min. | Max. | | |
| 1. | Attendance | | | | 0.2 |
| 2. | 2 revision tests = written exam | | | | 0.4 |
| 3. | Oral exam | | | | 0.4 |
| Σ | | | | | 1 |





Table 2 – Grades and percentages:

| Achieved % in the written exam | Grade |
|--------------------------------|----------------|
| 95 – 100% | Excellent (5) |
| 88 – 94 % | Very good (4) |
| 81 – 87 % | Good (3) |
| 75 – 80% | Sufficient (2) |

Information for students (scoring system, course plan, learning outcomes, syllabus, literature, lecturer office hours, exam results and all other information):

- <http://www.fpz.unizg.hr>

