



**VSB TECHNICAL
UNIVERSITY
OF OSTRAVA**

Agreement on completion of a course within the IPSA foreign programme

concluded between

Institut Polytechnique des Sciences Avancées (IPSA)
63 boulevard de Brandebourg, 94200 IVRY-SUR-SEINE, FRANCE

and

VSB – Technical University of Ostrava, ID: 61989100
Relates to: Faculty of Mechanical Engineering (FME)
17. listopadu 2172/15, 708 00 Ostrava – Poruba, CZECH REPUBLIC

as follows:

I. Objective:

- Both universities have agreed on cooperation consisting in the fact that VSB – Technical University of Ostrava will allow a maximum of 80 interested IPSA students to complete the course specified below at VSB-TUO, with teaching concentrated in one semester.
- This one-semester foreign programme is designed as a special programme for IPSA students within the cooperation between the Faculty of Mechanical Engineering at VSB-TUO and IPSA.
- Teaching will take place from 13 September to 17 December 2021 at VSB-TUO.

II. Selection of students:

- IPSA will present to its students the destinations of one-semester foreign programmes by the end of January.
- The selection of candidates takes place in March.
- Students proposed by IPSA who will be interested in studying at VSB-TUO must submit an online application for exchange students, which is available at <https://www.vsb.cz/studium/exchange-students/exchange-programme/>. Without submitting the application, the applicant will not be admitted.
- The list of proposed students will be sent by the project coordinator Yasmine Nobre to the project coordinator Mgr. Pavla Karásková at VSB-TUO until mid-April.

III. Prerequisites from on the part of VSB-TUO and IPSA:

1. VSB-TUO carries out the teaching of subjects in English according to the study plan specified in the annex to this Agreement, which is an integral part of this Agreement.
2. VSB-TUO will provide the necessary study materials for the course participants.
3. VSB-TUO will provide the possibility of assistance to students in the form of the buddy programme.

The evaluation process at VSB-TUO:

1. Each subject will be evaluated in accordance with the Study Plan specified in this Agreement, according to the ECTS grading scale.
2. The conditions of completion are part of the Study Plan.

IV. Price

1. The contracting parties have expressly agreed that for the implementation of the course at VSB-TUO, IPSA will pay EUR 2020 for each course participant.
2. IPSA undertakes to pay the price mentioned above by 31 December 2021, on the basis of an invoice which VSB undertakes to issue by 31 October 2021.

V. Other arrangements

1. VSB-TUO FME will provide students with assistance in providing suitable accommodation such as university dormitories. Accommodation costs, including meals, are fully paid by the student.
2. Each student pays his/her own costs for international transport.
3. IPSA is required to ensure that each student holds the European Health Insurance Card.
4. The coordinator of the VSB-TUO FME course, Mgr. Pavla Karásková, will send a report on study results at the end of the semester to the IPSA contact person, who is the coordinator of the course, Yasmine Nobre, no later than eight weeks after the last day of teaching under this Agreement.
5. The names of the subjects are given below; the course participants will obtain a document Confirmation of Stay confirmed by the Dean of the Faculty of Mechanical Engineering, VSB-TUO.

VI. Final arrangements

1. The Agreement shall have the following annexes, the contents of which shall form an integral part of this Agreement:
 - Study Plan of the course
2. This Agreement is drawn up bilingually, in the Czech and English languages. The contracting parties have expressly agreed that the Czech version takes precedence and also in the event of any discrepancy between the Czech and English versions, the provisions contained in the Czech version shall prevail.
3. This Agreement and the relations arising from it are governed by Czech law.
4. The contracting parties have expressly agreed that disputes arising from this Agreement will be resolved by legal action while arranging the jurisdiction of the court in Ostrava.
5. This Agreement is created in 2 copies; each party will receive one copy.
6. The Agreement may be amended only by successively numbered written amendments.
7. The contracting parties declare that the Agreement was concluded on the basis of their true and free will, free from error, that they have been acquainted with the content of the Agreement, fully understood it and agree with it without reservation, as evidenced by their signatures.

On behalf of Polytechnique des Sciences Avancées

Managing Director

Date: 05/11/2021

On behalf of VSB-TUO, Faculty of Mechanical Engineering

prof. Ing. Robert Čep, Ph.D.
Dean

Date

Study plan for the semester abroad (autumn semester Aero 4 in September 2021)

I. Subjects for all students

Students select four of the five topics according to their specialization, with the first two being mandatory:

Number and name in the Edison system	Subject	Teacher	Number of hours	Examination
470-8542/01 Special Methods of Cat. Analysis	Mathematics: Probability & Statistics for Engineering		40	3 written tests during the semester (33 points) - examination 4 examples 67 points
352-0560/01 Automation	Automation: Linear & Continuous Systems Design		48	project 35 points, examination - written test 40 points, theoretical part 25 points
352-0561/01 Automation: Linear System State Space Representation	Automation: Linear Systems State Space Representation		24	project 35 points, examination - written test 40 points, theoretical part 25 points
338-0547/01 Ideal Fluid Dynamics	Aerodynamics: Perfect Fluid Dynamics (II)		24	written test - 35 points, examination - 4 examples 40 points, 2 theoretical questions 25 - 25 points
342-0671/C1 Avionics	Avionics: Introductory Course		24	project 40 points during the semester, examination - written test 60 points
346-0001/C3 Additive Manufacturing	Additive Manufacturing		12	Written test - 35 points, exam - 65 points
712-0003/02 Czech Language for Foreigners	Czech language and Culture		28	2 written tests - 35 points, examination - written test 40 points, oral examination 25 points

II. Subjects for the specialization Aerospace Vehicles

330-0101/01 Introduction to Mechanical Vibrations and Structural Dynamics	Mé45	Mechanics: Introduction to Mechanical Vibrations and Structural Dynamics		32 h	2 written tests during the semester 35 points examination - 2 examples 40 points, 2 questions 25 points
338-0548/01 Real Fluid Dynamics	Aé42	Aerodynamics: Real Fluid Dynamics		36 h	2 written tests during the semester 35 points, examination - 65 points 2 questions out of 20

III. Subjects for the specialization Aerospace Systems & Avionics

352-0562/01 Digital Control System Design	Au42	Automation: Digital Control System Design		48 h	project 35 points, examination - written test 40 points, theoretical part 25 points
450-8301/01 Microcontrollers and Their Applications	In41	Computer Science: Microcontrollers and Their Applications		36 h	semester - project 20 points, 2 written tests 20 points, examination - written test 40 points, oral examination 20 points

IV. Subjects from the university curricula

The above subjects required by IPSA represent about 260 hours.

V. Explanation of ECTS at VSB-TUO:

Students will receive +30 ECTS credits per semester. The grading scale is as follows:

ECTS grading scale	Local grading scale	Definition
A	91 - 100 points	excellent
B	81 - 90 points	excellent minus
C	71 - 80 points	very good
D	61 - 70 points	very good minus
E	51 - 60 points	good
Fx	30 - 50 points	failed (additional work required)
F	Less than 30 points	failed (a considerable amount of additional work is required)