

University of Ljubljana
Faculty *of Computer and
Information Science*



**CALL FOR APPLICATIONS
FOR THE SELECTION OF CANDIDATES FOR THE FIRST CYCLE
UNIVERSITY DOUBLE DEGREE PROGRAMME IN COMPUTER
AND INFORMATION SCIENCE IN THE 2018/2019 ACADEMIC
YEAR**

1 NAME AND ADDRESS OF THE TENDERING AUTHORITY

The tendering authority is the Faculty of Computer and Information Science, University of Ljubljana, Večna pot 113, 1000 Ljubljana (hereinafter: UL UL FRI), carrying out a double degree programme with the Kyungpook National University, South Korea (hereinafter: KNU).

2 SUBJECT OF THE TENDER

The subject of this tender is the admission of students enrolled in the first cycle university programme Computer and Information Science into the double degree programme between KNU and UL UL FRI, which is based on the agreement between KNU and UL UL FRI on the academic cooperation of the double degree programme.

Students can choose to apply on the one of the following programmes:

- Double degree programme of Electronics Engineering
- Double degree programme of Computer Science and Engineering

3 PROCEDURE, CRITERIA, OBLIGATIONS

Students of the first cycle university programme who are selected to enrol in the double degree programme will be enrolled in Year 4 at the host university. The enrolment is based on the requirements of the institution as accredited in the programme.

Students of the first cycle university programme who are selected to enrol in the double degree programme will have Year 1 and 2 recognised at UL FRI and Year 1, 2 and 3 at the KNU. The obligations of the last study year will be carried out at the host university and recognized as Year 3 at UL UL FRI.

Both partner universities will recognise credit points that the students will obtain at the partner university.

Students who wish to fulfil the requirements of this cooperation agreement will spend a one year at the host university, where they will have to complete all study requirements in the scope of the workload that represents:

- A workload for one study year 54 ECTS obtained from courses and 6ECTS will be recognized as credits towards the Bachelor's degree.

- An additional workload equivalent to 12 ETCS that the students will obtain at the host university from the courses Capstone Design Project 1 and 2 (together 8 ECTS) and some other elective courses or summer school.

Students in the double degree programme can choose the courses at the host university from the list enclosed in the attachment which is subject to change. All courses are conducted in English.

Bachelor's thesis

Each student will write a Bachelor's thesis in accordance with the requirements of the academic programme of their home university (6 ETCS) on the topic that is mutually agreed upon by a professor from KNU and a UL UL FRI professor. Both professors will serve as the student's mentors.

Bachelor's thesis defence

Students must have completed all requirements at the partner university and finished their Bachelor's thesis before the final examination can be initiated. The language of the final Bachelor's exam, the thesis paper and the oral defence is English.

The Bachelor's thesis defence usually takes place at the home university. The mentor and other researchers from the partner institution can attend the thesis defence in person or via videoconference. A copy of the full report on the Bachelor's thesis shall be sent to both partner institutions.

The Bachelor's thesis defence committee members are appointed by both partner institutions in accordance with the laws and regulations that are in effect in each country.

For UL UL FRI students the committee shall consist of:

- a mentor at KNU,
- a mentor at UL UL FRI,
- a member of UL UL FRI.

Students who meet all requirements for both academic programmes of this tender shall receive a diploma from both universities. The diplomas shall be awarded separately by each institution. The diploma supplement of each university shall include the information on the student's mobility and specify all academic work completed by the student at the partner institution.

4 NUMBER OF STUDENTS

In the 2018/2019 academic year there are 10 available places for both study programmes (Electrical engineering, Computer Science).

5 SCHOLARSHIP

KNU offers scholarships for a flight ticket in the amount of 1.100€ to students who will enrol to the Electrical engineering programme. There are 3 scholarships available and the students with the highest score (motivation letter, interview, average grade) will be selected.

6 ADMISSION CRITERIA

The tender is open to applications by students who:

- Are enrolled in Year 2 (or have already completed Year 2 and have not yet enrolled into Year 3) of the first cycle University programme in Computer and Information Science at UL UL FRI in the 2017/2018 academic year.
- Have achieved a GPA of at least 8 (very good) in the Year 1 and 2 at the undergraduate level.
- Have an adequate knowledge of English, level at least B2 from the CEFR scale. A committee will test the English knowledge at the interview.

7 APPLICATION

Students who meet all criteria can submit a completed application form to the International Office no later than 26 March 2018 (in person to International Office UL UL FRI or by registered mail to the following address: UL UL FRI, Večna pot 113, 1000 Ljubljana, which must be marked as »Application for the double degree programme«). Applications sent by mail must be post-dated no later than the above date. Incomplete or late applications will not be considered.

On the basis of the applications received, the UL UL FRI selection committee will review the applications and invite selected candidates to personal interviews no later than 31 March 2018.

A complete application must be submitted for this public tender, which includes:

- a completed and signed application form (attached to this tender);
- a motivation letter of at least one and no more than two pages;
- an English language certificate if applicable.

8 SELECTION OF CANDIDATES

Students will be **selected by an appointed committee on the basis of the following criteria:**

- academic performance in the Year 1 and 2 at undergraduate level, from 0 to 10 points;
- cover letter and personal interview which will take place in the last week of the March/beginning of April, from 0 to 10 points;
- knowledge of English (a part of the interview will be conducted in English), from 0 to 10 points.

Students who submit applications will attend personal interviews in the end of March/beginning of April.

The selection committee will provide a list of selected candidates in the mid of April and inform the candidates and the partner institution about their selection.

8.1. List of accepted students to the double degree programme

The final list of students will be confirmed in September, when the results will show if the students have successfully completed all the requirements for Year 1 and 2 and if they fulfil the requirements for enrolling in Year 3.

Enclosures:

- Application form
- List of courses

Ljubljana, 28 February 2018

APPLICATION

for the double degree programme of the FIRST CYCLE UNIVERSITY BACHELOR PROGRAMME IN COMPUTER AND INFORMATION SCIENCE IN THE 2018/2019 ACADEMIC YEAR

Applications are only open to students who are enrolled in Year 2 (or have already completed Year 2 and have not yet enrolled into Year 3) of the first cycle Computer and Information Science University programme at UL, Faculty of Computer and Information Science in the 2017/2018 academic year.

Please fill out this application form legibly in capital letters. Fill out all fields (some fields are already filled out)!

Student's first and last name _____

Registration number _____

Nationality _____

Permanent address (street/house number, postal code, town)

Contact address (if different from permanent address)

Telephone _____

E-mail _____

Knowledge of foreign languages _____

Application for programme (Electrical Engineering/ Computer science)

Date: _____ Student signature: _____

Mandatory enclosures:

- Motivation letter;
- Foreign language certificate if applicable.

The application and its enclosures should be submitted no later than and including **26 March 2018** to the **International Office UL UL FRI** or by registered mail to the Faculty address: UL UL FRI, Večna pot 113, SI-1000 Ljubljana, marked as »Application for the double degree programme«. Applications sent by mail must be post-dated no later than the above-mentioned date.

Annex A

List of courses offered by KNU to incoming students from the UL UL FRI. The courses listed below are performed in the academic year 2017/18, some changes might appear in the next academic year.

Students enrolled in Electronics Engineering double degree programme need to take majority of courses from the School of Electronics Engineering and for the Computer Science double degree programme from the School of Computer Science and Engineering.

Credit equivalency

ECTS	Korean credits
1	1
3	2
5	3
6	4
8	5
10	6

Spring semester

Course Code	Name of Class (English)	Name of Class (Korean)	College	Department (Major)	Language	Korean Credit
Language courses						
<u>CLTR301001</u>	Korean Language I	Korean Language I	Office of International Affairs	Office of International Affairs	Korean+English	3.0
<u>CLTR302001</u>	Korean Language II	Korean Language II	Office of International Affairs	Office of International Affairs	Korean+English	3.0
Major courses						
<u>COME301001</u>	Discrete Mathematics	이산수학	College of IT Engineering	School of Computer Science and Engineering	English	3.0
<u>COME301002</u>	Discrete Mathematics	이산수학	College of IT Engineering	School of Computer Science and Engineering	Korean+English	3.0
<u>COMP217001</u>	Java Programming	자바프로그래밍	College of IT Engineering	School of Electronics Engineering	Korean+English	3.0
<u>COMP217003</u>	Java Programming	자바프로그래밍	College of IT Engineering	School of Electronics Engineering	Korean+English	3.0

COMP217007	Java Programming	자바프로그래밍	College of IT Engineering	School of Electronics Engineering	Korean+English	3.0
COMP217008	Java Programming	자바프로그래밍	College of IT Engineering	School of Electronics Engineering	English	3.0
COMP217010	Java Programming	자바프로그래밍	College of IT Engineering	School of Electronics Engineering	English	3.0
COMP217018	Java Programming	자바프로그래밍	College of IT Engineering	School of Computer Science and Engineering	Korean+English	3.0
COMP311001	Logic Circuit Design	논리회로설계	College of IT Engineering	School of Electronics Engineering	English	3.0
COMP311002	Logic Circuit Design	논리회로설계	College of IT Engineering	School of Electronics Engineering	English	3.0
COMP311005	Logic Circuit Design	논리회로설계	College of IT Engineering	School of Electronics Engineering	English	3.0
COMP312006	Operating Systems	운영체제	College of IT Engineering	School of Computer Science and Engineering	English	3.0
COMP324003	Artificial Intelligence	인공지능	College of IT Engineering	School of Computer Science and Engineering	English	3.0
COMP329001	SW Convergence Communication	SW융합커뮤니케이션	College of IT Engineering	School of Computer Science and Engineering	Korean+English	3.0
COMP330001	SW Project Management Technic	SW프로젝트관리기법	College of IT Engineering	School of Computer Science and Engineering	Korean+English	3.0
COMP413001	Computer Graphics	컴퓨터그래픽스	College of IT Engineering	School of Computer Science and Engineering	English	3.0
COMP414002	Computer Networks	컴퓨터망	College of IT Engineering	School of Computer Science and Engineering	Korean+English	3.0
COMP416001	Embedded System Practice	임베디드시스템 실습	College of IT Engineering	School of Computer Science and Engineering	Korean+English	3.0
COMP417001	Computer Ethics	컴퓨터윤리	College of IT Engineering	School of Computer Science and Engineering	Korean+English	3.0
CVLE251001	Introduction to Parameter Estimation	파라미터 추정론	College of IT Engineering	Major in Construction IT	English	3.0
EECS312001	Network Programming	네트워크프로그래밍	College of IT Engineering	School of Computer Science and Engineering	Korean+English	3.0
EECS312002	Network Programming	네트워크프로그래밍	College of IT Engineering	School of Computer Science and Engineering	English	3.0

<u>E ECS324002</u>	Electronic Circuits Design	전자회로설계	College of IT Engineering	School of Electronics Engineering	English	3.0
<u>E ECS499001</u>	English for IT Engineering Profession	IT공학전문영어	College of IT Engineering	School of Electronics Engineering	English	4.0
<u>E ECS499002</u>	English for IT Engineering Profession	IT공학전문영어	College of IT Engineering	School of Electronics Engineering	English	4.0
<u>E LEC243009</u>	Circuit Theory1	회로이론1	College of IT Engineering	School of Electronics Engineering	English	3.0
<u>E LEC246009</u>	Electronic Circuits2	전자회로2	College of IT Engineering	School of Electrical Engineering	English	3.0
<u>E LEC246010</u>	Electronic Circuits2	전자회로2	College of IT Engineering	School of Electrical Engineering	English	3.0
<u>E LEC247007</u>	Logic Circuits	논리회로	College of IT Engineering	School of Electronics Engineering	English	3.0
<u>E LEC321002</u>	Signal and Systems	신호및시스템	College of IT Engineering	School of Electronics Engineering	English	3.0
<u>E LEC321005</u>	Signal and Systems	신호및시스템	College of IT Engineering	School of Electronics Engineering	English	3.0
<u>E LEC321008</u>	Signal and Systems	신호및시스템	College of IT Engineering	School of Electrical Engineering	English	3.0
<u>E LEC323002</u>	Microprocessors	마이크로프로세서	College of IT Engineering	School of Electronics Engineering	English	3.0
<u>E LEC323007</u>	Microprocessors	마이크로프로세서	College of IT Engineering	School of Electronics Engineering	Korean+English	3.0
<u>E LEC332001</u>	Automatic Control	자동제어	College of IT Engineering	School of Electronics Engineering	English	3.0
<u>E LEC333004</u>	Electronic Devices	전자소자	College of IT Engineering	School of Electronics Engineering	English	3.0
<u>E LEC431001</u>	Electric Power Engineering	전력공학	College of IT Engineering	School of Electrical Engineering	English	3.0
<u>E LEC431002</u>	Electric Power Engineering	전력공학	College of IT Engineering	School of Electrical Engineering	English	3.0
<u>E LEC447001</u>	Bioelectronics	생체전자공학	College of IT Engineering	School of Electronics Engineering	English	3.0
<u>E LEC503001</u>	Bio-convergence Imaging Engineering	융합의료이미징공학	College of IT Engineering	School of Electronics Engineering	English	3.0
<u>I TEC401021</u>	Capstone Design Project 1	종합설계프로젝트1	College of IT Engineering	School of Computer Science and Engineering	Korean+English	4.0
<u>I TEC402002</u>	Capstone Design Project 2	종합설계프로젝트2	College of IT Engineering	School of Electronics Engineering	Korean+English	4.0

ITEC402003	Capstone Design Project 2	종합설계프로젝트2	College of IT Engineering	School of Computer Science and Engineering	Korean+English	4.0
ITEC402005	Capstone Design Project 2	종합설계프로젝트2	College of IT Engineering	School of Computer Science and Engineering	Korean+English	4.0
ITEC402006	Capstone Design Project 2	종합설계프로젝트2	College of IT Engineering	School of Computer Science and Engineering	Korean+English	4.0
ITEC419001	Introduction to Data Science	데이터과학기초	College of IT Engineering	School of Computer Science and Engineering	English	3.0

Fall semester

Language courses				
Code	Title in English		Credit	Language
CLTR301001	Korean Language I		3	(Korean+English)
CLTR302001	Korean Language II		3	(Korean+English)
Major courses				
Code	Title in Korean	Title in English	Credit	Language
COME301010	이산수학	Discrete Mathematics	3	(Korean+English)
COME301011	이산수학	Discrete Mathematics	3	(Korean+English)
COME311002	확률및통계	Probability & Statistics	3	(English)
COME331010	자료구조	Data Structure	3	(Korean+English)
COMP216002	자료구조응용	Data Structure Applications	3	(Korean+English)

COMP225001	디지털설계및실험	Digital Design & Lab	3	(English)
COMP411005	컴퓨터구조	Computer Architectures	3	(English)
ELEC245008	전자회로1	Electronic Circuits1	3	(English)
ELEC245011	전자회로1	Electronic Circuits1	3	(English)
ELEC245012	전자회로1	Electronic Circuits1	3	(English)
ELEC311007	물리전자	Physical Electronics	3	(English)
ELEC462001	시스템프로그래밍	System Programming	3	(English)
ENGR212001	공학수학 2	Engineering Mathematics 2	3	(Korean+English)
ENGR212005	공학수학 2	Engineering Mathematics 2	3	(English)
COMP311001	논리회로설계	Logic Circuit Design	3	(English)
COMP311002	논리회로설계	Logic Circuit Design	3	(English)
COMP311003	논리회로설계	Logic Circuit Design	3	(English)
COMP311004	논리회로설계	Logic Circuit Design	3	(English)
COMP323001	데이터통신	Data Communications	3	(English)
COMP411001	컴퓨터구조	Computer Architectures	3	(English)
COMP423001	프로그래밍언어론	Programming Languages	3	(English)

EECS324001	전자회로설계	Electronic Circuits Design	3	(English)
EECS324002	전자회로설계	Electronic Circuits Design	3	(English)
EECS499001	IT공학전문영어	English for IT Engineering Profession	4	(English)
EECS499002	IT공학전문영어	English for IT Engineering Profession	4	(English)
EECS499003	IT공학전문영어	English for IT Engineering Profession	4	(English)
ELEC321001	신호및시스템	Signal and Systems	3	(English)
ELEC331002	통신이론	Communication Theory	3	(English)
ELEC332002	자동제어	Automatic Control	3	(English)
ELEC436001	전력계통공학	Electric Power Systems	3	(English)
ELEC436002	전력계통공학	Electric Power Systems	3	(English)
COMP319001	알고리즘1	Algorithms 1	3	(English)
COMP427001	병렬프로그래밍	Parallel Programming	3	(English)
COMP437001	의료정보학시스템	Health Informatics Systems	3	(Korean+English)
COMP730001	소프트웨어공학특론	Advanced Software Engineering	3	(Korean+English)
COMP735001	알고리즘설계 및 분석	Design and Analysis of Algorithms	3	(Korean+English)
ELEC715001	컴퓨터그래픽개론	Introduction to Computer Graphics	3	(Korean+English)

ELEC748001	영상신호처리	Digital Image Processing	3	(Korean+English)
ELEC801001	형태인식론	Pattern Recognition	3	(English)
ELEC962001	제어공학특강1	Topics in Control Engineering1	3	(English)