

哈薩克國立大學化學與化工所
臺北市立大學應用物理暨化學系碩士班
雙聯學制備忘錄

106年1月11日105學年度第1學期第5次系務會議決議通過

- 一、名額：修習雙聯學制學生每年不超過 2 位。
- 二、修業年限：修習雙聯學制學生，至少一年於臺北市立大學應用物理暨化學系碩士班就讀，一年於哈薩克國立大學化學與化工所就讀。
- 三、有關註冊、選課、成績評量、休學、復學等學籍管理事項：依照該學年註冊 學校之相關規定辦理。
- 四、費用：修習雙聯學制學生，必須繳交原就讀學校學費及任何其他費用。有關健保醫療費用，依學生個人需要自行購買。
- 五、雙方學校必須互相確認修習雙聯學制學生所修習的學分及學位的認定。
- 六、修習雙聯學制學生在雙方學校必須都要有指導教授，聯合指導學生。
- 七、一般而言學術論文以英文撰寫為原則，除非簽約學校指導教授的許可，可以其他語言撰寫，然，論文摘要必須是英文撰寫。
- 八、簽約學校必須提供修習雙聯學制學生住宿。
- 九、其他未盡事宜，悉依兩校相關規定，由兩系協調後決議。
- 十、本備忘錄修改時經由兩系所系務會議通過後，依照雙方校內規定核准後實施。終止備忘錄時亦同。

MEMORANDUM OF UNDERSTANDING ON A DOUBLE DEGREE PROGRAM
BETWEEN
FACULTY OF CHEMISTRY AND CHEMICAL TECHNOLOGY, AL-FARABI KAZAKH NATIONAL
UNIVERSITY, THE REPUBLIC OF KAZAKHSTAN
AND
DEPARTMENT OF APPLIED PHYSICS AND CHEMISTRY, UNIVERSITY OF TAIPEI, TAIPEI

Under the Agreement of Academic Exchange and the Memorandum on Student Exchange concluded on July 1, 2015 between al-Farabi Kazakh National University and University of Taipei, the Faculty of Chemistry and Chemical Technology at Al-Farabi Kazakh National University and the Department of Applied Physics and Chemistry at University of Taipei implement the double degree program in science and engineering as follows in order to further facilitate mutual cooperation and educational research exchange in the graduate program.

1. Double Degree Program (hereafter referred to as "DD Program")

A DD Program shall be a program that is part of the research development framework and one in which students from each respective university obtain a degree from each university by receiving education and research supervision from both universities while enrolled in both.

2. Number of students to be exchanged

The DD Program shall allow each university to annually send maximum two students.

3. Nomination of students to be sent and selection method

The students participating in the DD Program during the term of this Memorandum will be selected initially by the home university, and the host university will make final admission decisions in each case. Applications each year must meet the deadlines designated by each university.

4. Student status

Students who wish to obtain a double degree (hereafter referred to as "DD Student") will be of regular students status and must follow enrollment procedures by the date designated by the host university.

5. Period of study

As a general rule, the period of study shall be at least two years, one year at KazNU and one year at University of Taipei upon approval by both universities.

6. Requirements for completion of a program

The DD student shall take courses of students and fulfill the requirements for completion of the graduate program at both universities to obtain a degree from each respective institution.

7. Course registration

Course registration and examinations are implemented in accordance with the regulation of the host university.

16. Revision and termination of the Memorandum of Understanding

This MoU will be effective from the date of signing by both parties for the duration of the Agreement of Academic Exchange and the Memorandum on Student Exchange between Al-Farabi Kazakh National University and the University of Taipei. Both universities shall consult each other if the situation arises in which the Memorandum of Understanding is found to need revision or termination.

17. Other

Necessary matters concerning administration of the DD program in addition to what is prescribed in the Memorandum of Understanding shall be specified separately upon consultation of both universities.

DATE:

Chair, Yueh-Er Wu
Department of Applied Physics and Chemistry
University of Taipei

DATE:

Yerdos Ongarbayev, Dean
Faculty of Chemistry and Chemical Technology
Al-Farabi Kazakh National University

6M072000 –Chemical Technology of Inorganic Substances Al-Farabi Kazakh National University Term of Training - 2 years Specialization: «Physical chemistry» Year 1 Total ECTS Students must complete Core Compulsory Module + Core Elective Module + Specialized Elective Module Transferable Module			Chemical Technology of Inorganic Substances University of Taipei Term of Training – 2 years		
Year 1, Semester 1 Semester Start Date: Semester End Date:	Module Credits (ECTS)	C= Compulsory SE= Specialized Elective T = Transferable Module	Year 1, Semester 1 Semester Start Date: Semester End Date:	Module Credits	
State compulsory modules			Mandatory professional modules		
History and Philosophy of Science	2 Credits (3)	C	Seminar (1)	0.5 Credits	
Foreign Language	2 Credits (3)	C	Advanced Inorganic Chemistry (1)	3 Credits	
			Advanced Analytical Chemistry (1)	3 Credits	
Mandatory professional modules			Specialized Elective Modules		
Topical issues of mineral raw	2 Credits (3)	C			

Specialized Elective Modules. 8 credits			Independent Study (1)	1 Credits	
Module 1			Seminar (3)	0.5 Credits	
Halurgic method of inorganic substances and materials production	2 Credits (3)	SE	Specialized Elective Modules		
Technochemical calculations	2 Credits (3)	SE	Organometallic Chemistry	3 Credits	
Module 2			Σ Semester 3	6.5 Credits	
Management and economics of the chemical industry	2 Credits (3)	SE	Year 2, Semester 2 Semester Start Date: Semester End Date:	Module Credits	
Mathematical modeling and sustainability of chemical processes	2 Credits (3)	SE	Mandatory professional modules		
Transferable Modules			Master's Thesis (2)	2 Credits	
Research Practice I	1 Credits (1,5)	T	Independent Study (2)	1 Credits	
Master's Research Work II	1 Credits (1,5)	T	Seminar (4)	0.5 Credits	
Σ Semester 2			Σ Semester 4	3.5 Credits	
Year 2, Semester 3 Semester Start Date: Semester End Date:					
Module Credits (ECTS)		C= Compulsory SE= Specialized Elective	Σ 2 years	28 Credits	
Specialized Elective Modules. 12 credits					
Module 3					
Environmental aspects of the uranium industry of	3 Credits (4,5)	SE			