



## 1. University and faculty/department

**Kyrgyz-Uzbek International University named after Batyraly Sydykov (KUIU)** was established in 1994 to strengthen cooperation between Kyrgyzstan and Uzbekistan in the fields of education, science, and culture. The university's primary goal is to train specialists through higher education and foster cultural ties between the peoples of Kyrgyzstan and the region.

**Mission of the University:** The mission of KUIU is the comprehensive development of the educational process, strengthening intercultural connections, providing quality education, and preparing globally competitive specialists. The university plays an important role in promoting ethnic tolerance, unity, and intercultural understanding.

**Structure and Education:** KUIU offers various educational programs at the bachelor's, master's, and doctoral levels. The university provides education in more than 30 specialties across diverse fields. It emphasizes both theoretical knowledge and practical experience through modern facilities and infrastructure.

**International Cooperation:** KUIU actively develops international relations, collaborating with many foreign universities. The university offers academic mobility and international internships for its students and faculty.

**Students and Faculty:** Currently, KUIU has over 14,000 students, many of whom come from the southern regions of the country. The university employs more than 450 faculty members, including highly qualified professors and practitioners in various fields.

For more information, visit: <https://kumu.kg/наш-университет/>

## **Faculty of Engineering and Technology**

The history of the Faculty of Engineering and Technology runs parallel to the development of the Kyrgyz-Uzbek International University.

In 1994, alongside the reorganization of the Osh Technological College into the Kyrgyz-Uzbek Higher College, the Faculty of Engineering and Technology was established within the college to organize higher engineering education.

As the number of professional specializations at the Faculty of Engineering and Technology grew, additional faculties were established between 1994 and 2008, including:

- 1994–2008: Faculty of Engineering and Technology (ITF)
- 1995–2008: Faculty of Light Industry, later renamed Faculty of Clothing Design and Service (FDOS)
- 2005–2006: Faculty of Energy and Information Systems (FEIS)
- 2006–2008: Faculty of Computer Technologies and Telecommunications (FCTT)
- 2006–2008: Faculty of Energy and Transport (FET)

In 2008, these faculties were merged back into the Faculty of Engineering and Technology.

### *Current Status:*

Today, the Faculty of Engineering and Technology enrolls around 1,000 students across its daytime, evening, and distance learning programs. It includes two departments and four research centers. The faculty has a staff of 39 people, including three professors with doctoral degrees and eight associate professors with candidate degrees.

### *Location:*

79 N. Isanov Street, Block B, 2nd and 3rd floors of Building 2, Batyrally Sydykov Kyrgyz-Uzbek International University, Osh City.

For more information, visit: <https://itf.kumu.kg>

## **Department of Mechanical Engineering and Energy**

The Department of Mechanical Engineering and Energy is equipped with classrooms and laboratories for each course. Lectures, practical sessions, and laboratory classes are conducted at a high academic and methodological level.

The department offers a total of 52 disciplines, 23 of which are general education courses, while the rest are specialized subjects. These disciplines are taught according to the curriculum, and the necessary educational materials are available for each course.

Extracurricular activities for students are actively encouraged through various interest-based clubs. In the Experimental Research Center, faculty members and students participate in competitions at the city and national levels. Annually, faculty members develop and publish methodological guides for students on their disciplines.

To ensure deeper knowledge in specialized fields, innovative teaching methods are employed, and new technologies are actively used during lessons. Coursework assignments are an integral part of the curriculum and are conducted at a high level. The topics for coursework are reviewed, discussed, and approved at department meetings. Approved topics are distributed to students, who complete their work under faculty supervision. Completed coursework is presented and defended before a departmental commission.

Classrooms and laboratories are specifically designed for the courses taught. All lectures, practicals, and laboratory sessions are conducted at a high academic and methodological level.

The Department of Mechanical Engineering and Energy maintains close and productive collaboration with higher education institutions, research institutes, and enterprises in both the Kyrgyz Republic and CIS countries.

For more information, visit: <https://itf.kumu.kg/окуу-усулдук-ишмердүүлүк-3/>

## 2. Expected outcome from mobilities

Student and staff mobility in the fields of Electrical Energy and Electrical Engineering (specialty 640200) and Computer Science and Information Technology, with a focus on solar panels and programming, plays a crucial role in modern education within the energy sector. Given the growing interest in renewable energy sources and sustainable development, such mobility programs open new horizons for students and faculty by granting access to advanced research and technologies.

### *Key Directions and Opportunities for Mobility*

#### *1. Student Mobility in Energy and Programming*

Students specializing in energy supply can participate in various international exchange programs to deepen their knowledge of energy-saving resources and develop programming skills for their management and optimization.

Key mobility areas:

Educational programs and internships in solar energy:

Students can undertake internships at leading companies and research institutions working with alternative energy sources. Activities may include practical work on installing and maintaining solar panels, as well as participation in research to enhance their efficiency and integration with other energy sources.

Exchange programs with universities that actively research renewable energy sources, particularly in countries with advanced solar energy technologies (e.g., Greece).

Internships at solar energy companies, including those involved in manufacturing solar panels or developing software for their efficient use.

#### *Programming and solar panel management:*

As smart grid technologies and automation advance, programming skills are essential for developing and operating solar energy systems. Students can learn to

create algorithms for monitoring, optimizing, and managing solar panels and integrating them into intelligent energy management systems.

Courses and workshops on solar panel programming may be offered as part of university education, short-term courses, or summer schools. Topics may include developing software for managing solar stations, using algorithms to maximize energy production efficiency, and working with big data to predict and analyze solar activity.

*International conferences and hackathons:*

Students can participate in international programming competitions and innovation challenges in solar energy. For example, hackathons where teams from different countries develop software for solar panels or work on solutions to improve their efficiency.

***2. Faculty Mobility in Solar Energy and Programming***

Faculty members specializing in electrical energy can participate in international exchange programs to deepen their expertise in solar energy and programming for smart energy systems development.

Key mobility areas:

Research exchanges and participation in international projects:

Faculty can engage in scientific and educational exchanges, collaborating with colleagues from leading research centers in solar energy. This may include joint scientific work on new solar panel technologies or software solutions for integrating solar panels into smart grids.

Faculty can work on projects related to using solar panels in intelligent energy systems, programming automated energy flow management systems, and monitoring solar installations.

Participation in international scientific conferences on solar energy and programming will allow faculty to broaden their academic perspectives and explore new trends and teaching methods.

*Training and professional development*

Faculty can attend advanced training courses on the latest achievements in solar energy and applying software technologies in this field. These courses may be organized at partner universities or research centers.

Courses and summer schools on solar energy and programming:

Faculty may be invited to participate in summer schools organized by leading universities to enhance their qualifications in areas such as integrating solar panels into distributed energy systems, programming management and monitoring systems, and using analytical and algorithmic tools to improve the efficiency of solar energy installations.

#### *Programs and Projects Supporting Mobility:*

*Erasmus+:*

Exchange programs under Erasmus+ can cover topics in solar energy and programming, offering students and faculty the opportunity to study at leading European universities developing these fields.

*Global research projects:*

Universities can collaborate with international organizations and private companies involved in solar energy to organize joint projects and internships within scientific research, including creating innovative solutions for improving solar panel efficiency and their integration into energy networks.

#### *Benefits of Mobility for Students and Faculty:*

*For students:*

Mobility provides access to new educational resources, state-of-the-art laboratories, and research projects, facilitating the acquisition of unique knowledge and skills necessary for working with alternative energy sources and programming their optimization.

*For faculty:*

Opportunities to exchange experiences and participate in international scientific projects enable faculty to broaden their horizons, adopt new teaching methods, and engage in cutting-edge research.

Student and faculty mobility in the fields of Electrical Energy and Electrical Engineering and Computer Science and Information Technology, focusing on alternative energy sources and programming, offers vast opportunities for learning, experience exchange, and collaborative scientific projects. This contributes to the development of sustainable energy technologies and effective solutions for managing renewable energy sources.

### 3. Links to Faculty Websites

1. Kyrgyz-Uzbek International University named after B. Sydykov:

<https://kumu.kg/>

2. Vice-Rector for International Relations and Strategic Development:

<https://international.kumu.kg/>

3. Engineering and Technology Faculty:

<https://itf.kumu.kg/>

### 4. The strategic plan of the Kyrgyz-Uzbek International University named after B.Sydykov

The strategic planning of the Kyrgyz-Uzbek International University named after B.Sydykov is aimed at integrating UNIWA's goals and promoting sustainable development through the following priorities:

1. Education: Enhancing the quality of training with a focus on digital and energy competencies.
2. Research: Developing scientific projects in the fields of renewable energy and sustainable technologies.
3. International Cooperation: Exchange programs, partnerships with leading universities, and participation in global initiatives.
4. Innovation: Establishing startup centers and supporting entrepreneurial initiatives for sustainable development.

5. Social Responsibility: Inclusion, gender equality, and environmental awareness in educational and social processes.

These measures are aimed at shaping a sustainable future and align with global challenges.

5. Here are the links to the strategic plan of our university, if available through the webpage:

<https://kumu.kg/стратегия-развития/>

[https://drive.google.com/file/d/18R0ttngAFM\\_9-2cNYgm6O5KaHmxiA\\_Zh/view](https://drive.google.com/file/d/18R0ttngAFM_9-2cNYgm6O5KaHmxiA_Zh/view)

## 6. List of courses offered to ERASMUS students

### **640200 - Electrical Power Engineering and Electrical Engineering**

№	ЭиЭз-1-22
1	Абашов Гадамбай Курбандурдиевич
2	Абдыракманов Жусуп Имаралиевич
3	Абжапаров Нурланбек Замирбекович
4	Акылбеков Курсантбек Акылбекович
5	Аминов Ильдар Фаритович
6	Аширбоев Бобур Хуршид угли
7	Жан Али
8	Имарбек уулу Койлубек
9	Камалов Эрбол Эркинбекович
10	Камчыбеков Азамат Искендерович
11	Карабаев Улан Сулайманович
12	Кубанычбек уулу Нуржигит
13	Кулдошев Бобурмирзо Рахмонжон угли



14	Кыдыров Равшанбек Муратович
15	Нуралиев Расул Абдугофурович
16	Рахимов Абдусалом Нематжон угли
17	Рашид уулу Улукмырза
18	Рустамбеков Дилёрбек Достонбек угли
19	Сабырбек уулу Урустамбек
20	Салиев Саидмансур Махмуджанович
21	Туланов Назирбек Улугбек угли
22	Тургунов Отабек Абдусалом угли
23	Умаров Нурилло Иброхимжонович
24	Хабаев Бобур Хусниддин угли
25	Эгембердиев Эмир Бекзатович
26	Эшхожоев Альберт Райимкулович

№	ЭиЭз-1-21
1	Абдувалиев Длярбек Дилмуратович
2	Абдуллаев Жамшидбек Ахмадали угли
3	Абдумоннобов Сардоржон Ахроржон угли
4	Абдурахимов Хусниддин Зиёитдинович
5	Абдурахманов Азизбек Ахроржон угли
6	Абдыкадыров Алмазбек Рысбаевич
7	Аминжонов Алишер Нематжон угли
8	Аскарбек уулу Искак
9	Бахромов Давлатбек Махамаджон угли
10	Жовлиев Дилшодбек Отабекович
11	Йузук Ахмет Нуман Синан
12	Камолов Хумоюншоҳ Мамиржон угли
13	Каримов Мухамаджон Муролимжон угли

14	Муталлибжанов Жамшидбек Кобилжон угли
15	Нуриддинов Жавлонбек Бобомурод угли
16	Оз Месут
17	Сойипов Элёр Бокижонович
18	Сулайманов Курстанали Рахманалиевич
19	Тешабаев Азизбек Хасанбай угли
20	Толкун уулу Ноорузбек
21	Хайитов Муминжон Муроджон угли
22	Хакимов Бобиржон Баходир угли
23	Холмирзаев Муроджон Махмуджонович
24	Шерматов Акжол Авазбекович

<b>№</b>	<b>ЭиЭз-1-20</b>
1	Абдулазизов Ахрорбек Усарбой угли
2	Абдурауфов Тимур Юсуфжонович
3	Адаев Нурсултан Элдиярович
4	Азимов Асрорбек Азамжон угли
5	Ахмадалиев Пахлавонжон Абдусалом угли
6	Байматов Алишер Абдигани угли
7	Бакиров Нодир Боходир угли
8	Боронбаев Максатбек Маманович
9	Бузаков Эдем Фарихович
10	Ибрагимов Гайбулло Хамидулло угли
11	Исаков Ислонжон Мавланжанович
12	Исмоилов Бахтиёржон Баходиржон угли
13	Камилов Данил Жаныбекович
14	Каюмов Нурмухаммад Абдугоффор угли
15	Кодиркулов Шахобиддин Бакир угли

16	Нумонов Ахаджон Шавкатжон угли
17	Соипов Алишер Хусан угли
18	Сотволдиев Улугбек Сохиб угли
19	Суюмбоев Хасанбой Зокиржон угли
20	Ташканбаев Азизбек Муродович
21	Тургунов Баркамол Султонали угли
22	Убайхонов Ахмадхон Вохидхонович
23	Усанов Зиёдбек Комилжонович
24	Хусанбаев Хожиакбар Халимжан угли
25	Шахабидин уулу Нурдин

№	ЭиЭз-2-20
1	Абдурахимов Бекзат Абдурахимович
2	Абдурахмонов Нурилло Мухаммаджон угли
3	Абдылдаев Дастан Манасович
4	Байыш уулу Талгарбек
5	Бакиров Зоҳиджон Гайратжанович
6	Ботиров Аслиддин Аъзамжон угли
7	Жилгелдиев Нурлан Осконович
8	Ибрагимов Илёсбек Мамиржон угли
9	Игамбердиев Шерзодбек Азизбекович
10	Караматов Бексултан Мамажакыпович
11	Касымов Ибрагим Бакытбекович
12	Комилжонов Бунёдбек Гуломкодир угли
13	Косимов Аслиддин Сахобиддин угли
14	Курманбек уулу Дастан

15	Кылычбек уулу Азиретали
16	Мамазокиров Шоиржон Исакжон угли
17	Марат уулу Салмоорбек
18	Мухаммадхонов Ахмадулло Комилхон угли
19	Отаханов Рахматилла Рахимжонович
20	Полотов Айталы Сааталыевич
21	Сайдилда уулу Жайылбек
22	Тагаев Азамат Саматович
23	Туланов Рахматулла Хайрулла угли
24	Туракулов Мансурбек Нумонжон угли
25	Хайитов Умиджон Йулдашбоевич
26	Хожиев Бехруз Рузимурод угли

## 7. Strengths of the university

1. Geographical Location: The university is located in the heart of Central Asia, promoting cross-border cooperation among the countries of the Great Silk Road.
2. Multilingual Environment: Instruction in multiple languages (Kyrgyz, Uzbek, Russian, English) provides access to a wide range of students.
3. Experience in Intercultural Integration: The university successfully brings together students from many countries, creating a model for international cooperation.
4. Sustainable Technology Development: The university is actively working on implementing projects in renewable energy and sustainable development.

### *Exceptional Examples of Opportunities:*

1. Development of Regional Sustainable Development Programs: Joint research and projects in green economy, energy, and resource management.

*Example: Implementation of solar energy initiatives and resource management software.*

2. International Academic Mobility: Opportunities for student and faculty exchanges to enhance their qualifications in key UNiWA areas.

*Example: Exchange programs under Erasmus+ or other international initiatives.*

3. Creation of Incubators and Accelerators: Support for student startups focused on sustainable development.

*Example: Partnerships with international companies to introduce innovations in alternative energy and its digitization in Kyrgyzstan.*

4. Educational Programs for a Sustainable Future: Development of courses dedicated to non-traditional and renewable energy sources, smart cities, and digital technologies.

*Example: Joint training with UNIWA partners on relevant topics.*

These strengths and opportunities enhance the university's potential to implement global sustainable development goals and partnerships.

## 8. Links to Erasmus+ dissemination

<https://international.kumu.kg>

<https://drive.google.com/file/d/1VuuFsZlphczxG2XoHv6st4weU08cQxNj/view>