

**According to the curriculum developed for the master's degree program
70710411 – Alternative energy sources at Jizzakh Polytechnic Institute
REVIEW**

In order to implement the Law of the Republic of Uzbekistan “On Education,” to fundamentally reform the content of education, and to ensure that the quality of trained specialists corresponds to the requirements of the deep economic and social reforms being carried out in the country, as well as to the advanced global standards in education, science, technology, and technological development, special attention is directed to the content of qualification requirements.

The qualification requirements and curriculum of the master's program 70710411 – Alternative energy sources have been developed in accordance with the Law of the Republic of Uzbekistan “On Education,” Resolution No. PQ-3775 of the President of the Republic of Uzbekistan dated June 5, 2018, “On additional measures to improve the quality of education in higher education institutions and ensure their active participation in the large-scale reforms being implemented in the country,” Order No. 259 of the Ministry of Higher Education, Science and Innovation of the Republic of Uzbekistan dated June 9, 2023, “On improving the development process of normative-methodological documents of higher education,” and Order No. 168 of the Ministry dated May 20, 2024, “On introducing amendments and additions to the State Standard of the Republic of Uzbekistan O‘z DSt 3557:2021 ‘State Educational Standard of Higher Education. Classifier of higher education fields and specialties’,” as well as other normative legal documents regulating the higher education system and international best practices.

The curriculum of the master's program was developed on the basis of the credit–module system and is aimed at ensuring that students master compulsory and elective subjects, complete internships, and as a result acquire the knowledge, skills, and professional competencies required for their professional activities. It also considers the acquisition of knowledge and skills necessary for conducting future academic and pedagogical activities.

The updated qualification requirements and curriculum for the master's program 70710411 – Alternative energy sources are harmonized with international experience, with particular emphasis on ensuring that learners acquire deep knowledge, independent thinking, and high professional competence. The curriculum clearly outlines the practical skills, competencies, and conceptual understanding expected from students during the learning process, their awareness of the requirements, and their ability to apply them effectively. The qualification

requirements and curriculum allocate significant attention to studying the contemporary problems facing science and technology, using modern methods and technologies to find effective solutions, conducting seminar sessions, promoting independent learning, and analyzing acquired information.

In developing the qualification requirements, principles of democratization and humanization of education, preservation of national identity in the context of globalization, and integration into the global educational space were observed. The composition of subjects in each block of the qualification requirements and their proportions were reviewed from the perspective of strengthening graduates' ability to apply their theoretical knowledge in practice. The distribution of time allocated for theoretical, practical, experimental, and independent study activities is aimed at reinforcing theoretical knowledge and forming the ability to successfully apply it in practice.

During the development of the qualification requirements and the curriculum, the demands and proposals of related higher education institutions were taken into consideration.

In conclusion, the updated qualification requirements and curriculum developed for training masters in the specialty 70710411 – Alternative energy sources are well-structured, aimed at bringing the higher education learning process to the level of international standards, and cover all aspects necessary for training highly qualified specialists. They meet the requirements of the State Standardization System of the Republic of Uzbekistan, and their approval is recommended.

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**Jizzax politexnika institutida 70710411-Muqobil energiya manbalari
magistratura mutaxassisligi bo'yicha ishlab chiqilgan o'quv rejasiga
TAQ R I Z**

“Ta’lim to’g’risida”gi O‘zbekiston Respublikasi Qonunini ijro etish, ta’lim mazmunini tubdan isloh qilish, tayyorlanayotgan kadrlar sifatining respublikada amalga oshirilayotgan chuqur iqtisodiy va ijtimoiy islohotlar talablariga, shuningdek ta’lim, fan, texnika va texnologiyalar rivojlanishining ilg‘or jahon darajasiga muvofiqligini ta’minlash bevosita malaka talablarining mazmuniga bog‘liq.

70710411-Muqobil energiya manbalari magistratura mutaxassisligining malaka talablari va o‘quv rejasi O‘zbekiston Respublikasining “Ta’lim to’g’risida” Qonuni, O‘zbekiston Respublikasi Prezidentining 2018 yil 5 iyundagi “Oliy ta’lim muassasalarida ta’lim sifatini oshirish va ularning mamlakatda amalga oshirilayotgan keng qamrovli islohotlarda faol ishtirokini ta’minlash bo‘yicha qo‘shimcha chora-tadbirlar to’g’risida”gi PQ-3775-sonli, O‘zR OTFIVning 2023 yil 9 iyundagi “Oliy ta’limning me’yoriy-uslubiy hujjatlarini ishlab chiqish jarayonini takomillashtirish to’g’risida”gi 259-sonli hamda O‘zR OTFIVning 2024 yil 20 maydagi “O‘z DSt 3557:2021 “Oliy ta’limning davlat ta’lim standarti. Oliy ta’lim yo‘nalishlari va mutaxassisliklari klassifikatori” O‘zbekiston Respublikasining Davlat standartiga o‘zgartirish va qo‘shimchalar kiritish to’g’risida”gi 168-sonli buyruqlari, oliy ta’lim sohasini tartibga soluvchi boshqa normativ huquqiy hujjatlarga hamda xorij tajribalariga muvofiq ishlab chiqilgan.

Magistratura mutaxassisligi o‘quv rejasi kredit-modul tizimi asosida shakllantirilgan va kasbiy kompetensiyalariga qo‘yiladigan talablarga muvofiq, talabalar majburiy va tanlov fanlarini o‘zlashtirishi, amaliyotlarni o‘tishi va natijada kasbiy faoliyatida zarur bilim, ko‘nikma va malaka kompetensiyalarini egallashini ta’minlovchi mazmunda hamda kelgusida ilmiy-pedagogik faoliyat olib borishlari uchun zarur bo‘lgan bilim va ko‘nikmalarga ega bo‘lishini hisobga olgan holda ishlab chiqilgan.

70710411-Muqobil energiya manbalari magistratura mutaxassisligi bo‘yicha tuzilgan yangilangan malaka talablari va o‘quv rejasi xorij tajribasi asosida uyg‘unlashtirilgan, ta’lim oluvchilarda chuqur bilim, mustaqil fikrlash, yuksak kasb-kor malakasi shakllanishini ta’minlashga alohida e’tibor qaratilgan, magistrnlarning fanlarni o‘zlashtirish jarayonida tajriba, ko‘nikmalar hamda tasavvurga ega bo‘lish, qo‘yilgan talablarni bilishi va ulardan samarali foydalana olish kabilar to’g’ri ko‘rsatilgan. Malaka talablari va o‘quv rejasida fan va texnika oldida turgan dolzarb muammolarni o‘rganish va ularni ijobiy yechimini izlab topishda zamonaviy uslub va texnologiyalarga, seminar mashg‘ulotlariga, mustaqil bilim olish hamda olingan ma’lumotlarni tahlil qilishga keng o‘rin berilgan.

Malaka talablarini ishlab chiqishda ta'limni demokratlashtirish, insonparvarlashtirish, globallashtirish sharoitida o'ziga xoslikni saqlash va jahon ta'lim makoniga integrallashtirish tamoyillariga amal qilingan. Malaka talablaridagi bloklar bo'yicha fanlar tarkibi, ularning o'zaro nisbatlari bitiruvchilarning tanlagan mutaxassisligi bo'yicha olgan nazariy bilimlarini amaliyotda qo'llay olish ko'nikmasini kuchaytirish nuqtai nazaridan qayta ko'rib chiqilgan. Fanlar uchun belgilangan vaqt budjetining nazariy, amaliy, tajriba, mustaqil ishlar uchun taqsimoti bitiruvchining nazariy bilimlarini mustahkamlash va ularni amaliyotda muvaffaqiyat bilan qo'llash ko'nikmasini shakllantirishga qaratilgan.

Malaka talablari va o'quv rejasini ishlab chiqishda turdosh oliy ta'lim muassasalarining talab va takliflari inobatga olingan.

Xulosa qilib aytganda, 70710411-Muqobil energiya manbalari magistratura mutaxassisligi bo'yicha magistrlar tayyorlash uchun tuzilgan yangilangan malaka talablari va o'quv rejasi oliy ta'lim o'quv jarayonini jahon andozalari darajasiga yetkazishga yo'naltirilgan bo'lib, har tomonlama yetuk mutaxassislar tayyorlashga oid masalalarni o'z ichiga olgan va sifatli tuzilgan, O'zbekiston Respublikasi davlat standartlash tizimi qoidalari talablarini qoniqtiradi hamda uni tasdiqlashni taklif qilaman.

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