

**According to the curriculum developed for the master's degree program
70730308 – Construction Materials Technologies at Jizzakh Polytechnic Institute**

REVIEW

The implementation of the Law of the Republic of Uzbekistan “On Education”, fundamental reform of the content of education, ensuring that the quality of trained specialists meets the requirements of the profound economic and social reforms being implemented in the country, as well as the advanced global level of development in education, science, engineering and technology, directly depends on the content of qualification requirements.

The qualification requirements and curriculum for the Master's degree specialty **70730308 – Construction Materials Technologies** 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 Innovations of the Republic of Uzbekistan dated June 9, 2023, “On improving the process of development of normative and methodological documents of higher education”, Order No. 168 of the Ministry dated May 20, 2024, concerning 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”, other normative and legal documents regulating the higher education system, as well as international experience.

The curriculum for the Master's degree specialty has been developed on the basis of the credit-module system and is aimed at providing students with in-depth knowledge of modern technologies for the production of construction materials, methods for evaluating their properties, improvement of production processes, development of new and efficient construction materials, and application of modern technologies in industrial production.

The curriculum provides for the acquisition of compulsory and elective subjects, internships, independent study and research activities. This contributes to the development of professional competencies necessary for graduates to organize and manage technological processes at construction-material production enterprises, control product quality, develop modern construction materials and technologies, and introduce innovative solutions into industrial practice.

The updated qualification requirements and curriculum for **70730308 – Construction Materials Technologies** are harmonized with modern trends in the development of the construction materials industry, innovative technologies and advanced international practices. Particular attention is paid to developing students' deep

theoretical knowledge, independent thinking, research skills, ability to analyze experimental results, and ability to find effective solutions to modern technological and production problems.

The curriculum also provides significant attention to the study of the composition, structure and properties of construction materials, assessment of their quality indicators, improvement of production technologies, implementation of energy- and resource-efficient technologies, and production of modern composite and high-performance construction materials.

In developing the qualification requirements, the close relationship between education and industrial practice, the needs of modern manufacturing enterprises, development prospects of the construction materials industry, and the knowledge and skills required for graduates' professional activities have been taken into consideration. The composition of subjects and the allocation of academic hours among theoretical, practical, experimental and independent study are aimed at developing graduates' ability to effectively apply their acquired knowledge in professional practice.

In particular, cooperation with enterprises operating in the construction materials industry, implementation of modern technologies in production processes, improvement of product quality, efficient utilization of local raw materials, and development of practical skills for producing competitive construction materials further increase the relevance of this Master's specialty.

For enterprises operating in the construction materials sector, including **"BASALT HOLDING" LLC**, it is particularly important to train highly qualified specialists who possess advanced knowledge of modern technologies, are capable of analyzing production processes, and have the necessary skills to assess and improve the quality of construction materials. The proposed curriculum is aimed at developing the theoretical and practical competencies required for training such specialists.

In conclusion, the updated qualification requirements and curriculum developed for the Master's degree specialty **70730308 – Construction Materials Technologies** meet the current requirements of the construction materials industry and are aimed at organizing higher education in accordance with advanced international practices and modern industrial requirements. The curriculum covers the key aspects necessary for training highly qualified and competitive specialists in the field of construction materials technologies.

The qualification requirements and curriculum comply with the requirements of the State Standardization System of the Republic of Uzbekistan, and **I recommend their approval.**

Director of "BASALT HOLDING" LLC



**70730308 – Qurilish materiallari texnologiyalari magistratura mutaxassisligi
bo'yicha ishlab chiqilgan o'quv rejasiga**

TAQRIZ

“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.

70730308 – Qurilish materiallari texnologiyalari magistratura mutaxassisligining malaka talablari va o‘quv rejasi O‘zbekiston Respublikasining “Ta’lim to’g’risida”gi 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-son qarori, O‘zbekiston Respublikasi Oliy ta’lim, fan va innovatsiyalar vazirligining 2023-yil 9-iyundagi “Oliy ta’limning me’yoriy-uslubiy hujjatlarini ishlab chiqish jarayonini takomillashtirish to’g’risida”gi 259-son buyrug‘i hamda 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-son buyrug‘i, oliy ta’lim sohasini tartibga soluvchi boshqa normativ-huquqiy hujjatlar hamda xorijiy tajribalar asosida ishlab chiqilgan.

Magistratura mutaxassisligining o‘quv rejasi kredit-modul tizimi asosida shakllantirilgan bo‘lib, zamonaviy qurilish materiallarini ishlab chiqarish texnologiyalarini chuqur o‘rganish, ularning xossalarini baholash, ishlab chiqarish jarayonlarini takomillashtirish, yangi va samarali qurilish materiallarini yaratish hamda ishlab chiqarishda zamonaviy texnologiyalarni qo‘llash bo’yicha zarur bilim, ko‘nikma va kasbiy kompetensiyalarni shakllantirishga yo‘naltirilgan.

O‘quv rejada magistrarning majburiy va tanlov fanlarini o‘zlashtirishi, amaliyotlarni o‘tashi, mustaqil ta’lim olishi hamda ilmiy-tadqiqot faoliyatini olib borishi uchun zarur shart-sharoitlar nazarda tutilgan. Bu esa bitiruvchilarning qurilish materiallari ishlab chiqarish korxonalarida texnologik jarayonlarni tashkil etish va boshqarish, mahsulot sifatini nazorat qilish, zamonaviy qurilish materiallari va texnologiyalarini ishlab chiqish hamda amaliyotga joriy etish bo’yicha kasbiy kompetensiyalarini rivojlantirishga xizmat qiladi.

70730308 – Qurilish materiallari texnologiyalari magistratura mutaxassisligi bo’yicha yangilangan malaka talablari va o‘quv rejasi qurilish materiallari sanoatining zamonaviy rivojlanish tendensiyalari, innovatsion texnologiyalar va ilg‘or xorijiy tajribalar asosida uyg‘unlashtirilgan. O‘quv jarayonida magistrlarda chuqur nazariy

bilim, mustaqil fikrlash, ilmiy-tadqiqot olib borish, tajriba natijalarini tahlil qilish va zamonaviy ishlab chiqarish muammolariga samarali yechim topish ko'nikmalarini shakllantirishga alohida e'tibor qaratilgan.

Shuningdek, o'quv rejada qurilish materiallarining tarkibi, tuzilishi va xossalarini o'rganish, ularning sifat ko'rsatkichlarini aniqlash, ishlab chiqarish texnologiyalarini takomillashtirish, energiya va resurs tejankor texnologiyalarni qo'llash, zamonaviy kompozitsion materiallar hamda yuqori samarali qurilish materiallarini ishlab chiqarish masalalariga keng o'rin berilgan.

Malaka talablarini ishlab chiqishda ta'limning amaliyot bilan uzviy bog'liqligi, zamonaviy ishlab chiqarish korxonalarining ehtiyojlari, qurilish materiallari sanoatining rivojlanish istiqbollari hamda bitiruvchilarning kasbiy faoliyatida zarur bo'ladigan bilim va ko'nikmalar hisobga olingan. Fanlar tarkibi va ularga ajratilgan vaqtning nazariy, amaliy, tajriba va mustaqil ta'lim shakllari bo'yicha taqsimlanishi magistrnlarning olgan bilimlarini amaliyotda samarali qo'llay olish kompetensiyalarini shakllantirishga qaratilgan.

Ayniqsa, qurilish materiallari ishlab chiqarish sohasida faoliyat yurituvchi korxonalar bilan hamkorlik qilish, ishlab chiqarish jarayonlariga zamonaviy texnologiyalarni joriy etish, mahsulot sifatini oshirish, mahalliy xomashyolardan samarali foydalanish va raqobatbardosh qurilish materiallarini ishlab chiqarish bo'yicha amaliy ko'nikmalarni rivojlantirish mazkur mutaxassislikning dolzarbligini yanada oshiradi.

“BASALT HOLDING” MCHJ kabi qurilish materiallari ishlab chiqarish sohasida faoliyat yurituvchi korxonalar uchun zamonaviy texnologiyalarni chuqur egallagan, ishlab chiqarish jarayonlarini tahlil qila oladigan, mahsulot sifatini baholash va takomillashtirish bo'yicha bilimlarga ega bo'lgan yuqori malakali mutaxassislarni tayyorlash muhim ahamiyatga ega. Mazkur o'quv rejasi ana shunday mutaxassislarni tayyorlash uchun zarur bo'lgan nazariy va amaliy bilimlarni shakllantirishga yo'naltirilgan.

Xulosa qilib aytganda, **70730308 – Qurilish materiallari texnologiyalari** magistratura mutaxassisligi bo'yicha ishlab chiqilgan yangilangan malaka talablari va o'quv rejasi zamonaviy qurilish materiallari sanoatining talablariga javob beradi, oliy ta'lim jarayonini ilg'or xalqaro tajriba va zamonaviy ishlab chiqarish talablari asosida tashkil etishga yo'naltirilgan hamda yuqori malakali, raqobatbardosh mutaxassislar tayyorlash uchun zarur bo'lgan barcha asosiy jihatlarni qamrab oladi.

Mazkur malaka talablari va o'quv rejasi O'zbekiston Respublikasi davlat standartlashtirish tizimi talablariga muvofiq bo'lib, uni **tasdiqlashni tavsiya qilaman.**

“BASALT HOLDING” MCHJ direktori

