O‘zbekiston Respublikasi

Oliy ta’lim, fan va innovatsiyalar vazirligi

60811000– O‘simliklar karantini va himoyasi

bakalavriat ta’lim yo‘nalishining malaka talablari

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TASDIQLANGAN VA AMALGA KIRITILGAN:

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JORIY ETILGAN:

O‘zbekiston Respublikasi Oliy ta’lim, fan va innovatsiyalar vazirligi.

Mazkur Malaka talablari “Oliy ta’lim davlat ta’lim standarti. Asosiy qoidalar”, “Oliy ta’lim davlat ta’lim standarti”. Oliy ta’lim yo‘nalishlari va mutaxassisliklari klassifikatori”, O‘zbekiston Respublikasi Milliy va tarmoq malaka doiralari (ramkasi), kasbiy standartlar va kadrlar buyurtmachilari takliflariga muvofiq ishlab chiqilgan va rasmiy me’yoriy-uslubiy hujjat hisoblanadi.

O‘zbekiston Respublikasi hududida Malaka talablarini rasmiy chop etish huquqi O‘zbekiston Respublikasi Oliy ta’lim, fan va innovatsiyalar vazirligiga tegishlidir.

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1.*60811000 – O‘simliklar karantini va himoyasi* bakalavriat ta’lim yo‘nalishining tavsifi

60811000 – O‘simliklar karantini va himoyasi ta’lim yo‘nalishi bo‘yicha bakalavrlar tayyorlash kunduzgi,kechki, sirtqi va masofaviy ta’lim shakllarida amalga oshiriladi. Barcha ta’lim shakllari bo‘yicha o‘qitish kredit-modul tizimi asosida tashkil qilinadi. Kunduzgi ta’limda bakalavriat dasturining me’yoriy muddati 4 yil.

1.1. Qo‘llanish sohasi

1.1.1.*60811000–O‘simliklar karantini va himoyasi* ta’lim yo‘nalishi Malaka talabining qo‘llanilishi.

Malaka talabi *60811000–O‘simliklar karantini va himoyasi* ta’lim yo‘nalishi bo‘yicha bakalavrlar tayyorlovchi barcha oliy ta’lim tashkilotlari uchun talablar majmuini ifodalaydi.

1.1.2.Malaka talablarning asosiy foydalanuvchilari:

– mazkur ta’lim yo‘nalish bo‘yicha malaka talablari, o‘quv reja va fan dasturlarini ishlab chiqishva yangilash, ular asosida samarali amalga oshirish uchun mas’ul hamda o‘z vakolat doirasida bitiruvchilarning tayyorgarlik darajasiga javob beradigan oliy ta’lim muassasasining boshqaruv xodimlari (rektor, prorektorlar, o‘quv bo‘limi boshlig‘i, dekanlar va kafedra mudirlari) va professor - o‘qituvchilari;

– ta’lim yo‘nalishining o‘quv rejasi va fan dasturlarini o‘zlashtiruvchi oliy ta’lim tashkilotining talabalari;

– bakalavriatbitiruvchilarning tayyorgarlik darajasini baholashni amalga oshiruvchi Davlat attestatsiya komissiyalari;

– ta’limni boshqarish bo‘yicha vakolatli davlat organlari;

– oliy ta’lim tashkilotlarini moliyalashtirishni ta’minlovchi organlar;

– oliy ta’lim tizimini akkreditatsiya va sifatini nazorat qiluvchi vakolatli davlat organlari;

– kadrlar buyurtmachilari va ish beruvchi tashkilot va korxonalar;

– oliy ta’lim muassasalariga o‘qishga kirayotgan abituriyentlar, ularning ota-onalari va boshqa manfaatdor shaxslar.

1.2.*60811000 – O‘simliklar karantini va himoyasi* ta’lim yo‘nalishi bo‘yicha bakalavrlar kasbiy faoliyatlarining tavsifi

1.2.1.*60811000 – O‘simliklar karantini va himoyasi* ta’lim yo‘nalishi bo‘yicha bakalavrlar kasbiy faoliyatining sohalari.

60811000 – O‘simliklar karantini va himoyasi ta’lim yo‘nalishi - O‘zbekiston Respublikasi Fanlar akademiyasi va tarmoq ilmiy-tadqiqot institutlari, davlat boshqaruvi organlari, davlat va nodavlat muassasalarida kompleks masalalar bilan bog‘liq kasbiy sohalar majmuasini qamrab oladi.

1.2.2. *60811000 – O‘simliklar karantini va himoyasi* ta’lim yo‘nalishi bo‘yicha bakalavrlar kasbiy faoliyatlarining obyektlari:

- O‘zbekiston respublikasi Fanlar akademiyasi va tarmoq ilmiy – tadqiqot institutlarida;
- qishloq xo‘jaligi vazirligi tizimidagi idoralarda;
- davlat va nodavlat tashkilot, korxona va muassasalar, kompaniyalar (firmalar, klasterlar), ishlab chiqarish birlashmalari va boshqarmalarida;
- ishlab chiqarish korxonalarida

- davlat boshqaruvi organlari, davlat va nodavlat muassasalarida kompleks masalalarni yechish.

60811000 – O‘simliklar karantini va himoyasi ta’lim yo‘nalishi bo‘yicha bakalavriat bitiruvchilari fan sohasidagi bakalavriat ta’lim yo‘nalishini tamomlagandan so‘ng, muassasalarida majburiy va tanlov fanlaridan foydalangan holda dars berish, O‘zbekiston respublikasi Qishloq xo‘jaligi vazirligi tizimidagi tashkilotlarda O‘simliklar karantini va himoyasi sohasida va tarmoq ilmiy – tadqiqot institutlarida, agroklasterlarda, idoralarida kompleks masalalarni yechish huquqiga ega bo‘ladi.

1.2.3. *60811000 – O‘simliklar karantini va himoyasi* ta’lim yo‘nalishi bo‘yicha bakalavrlar kasbiy faoliyatlarining turlari:

- *ilmiy-tadqiqot;*
- *ishlab chiqarish;*
- *tashkiliy-boshqaruv;*

1.2.4. *60811000 – O‘simliklar karantini va himoyasi* ta’lim yo‘nalishi bo‘yicha bakalavrlarning kasbiy vazifalari:

60811000 – O‘simliklar karantini va himoyasi ta’lim yo‘nalishi bo‘yicha Milliy malaka ramkasining 6-malaka darajasi hamda bakalavr kasbiy faoliyatlarining sohalari, obyektlari va turlariga muvofiq bakalavriat bitiruvchisi quyidagi kasbiy vazifalarni bajarishga qodir bo‘lishi lozim:

Tashkiliy-boshqaruv hamda ishlab chiqarish faoliyatida:

- fuqarolik jamiyatining dolzarb masalalarini bilish, O‘zbekiston rivojlantirish strategiyasiga asoslangan faol hayotiy nuqtai nazarga:
- dunyoqarash bilan bog‘liq falsafiy bilimlarga tizimli ega bshlishi, mustaqil tahlil qila olishi, kasbiy faoliyatida ularni hisobga ola bilish;
- Vatan tarixini bilishi, ma’naviy milliy va umuminsoniy qadriyatlar masalalari yuzasidan o‘z fikrini bayon qila olishi va ilmiy asoslay bilishi, milliy istiqlol g‘oyasiga asoslangan faol hayotiy nuqtai nazarga ega bo‘lishi;
- xorijiy tillardan birida kasbiy faoliyatiga oid xujjatlar va ishlar mohiyatini tushunishi, tabiiy ilmiy fanlar bo‘yicha kasbiy faoliyati doirasida zaruriy bilimlarga ega bo‘lishi hamda ulardan zamonaviy ilmiy asosda hayotda va o‘z kasb faoliyatida foydalana bilishi;
- axborot yig‘ish, saqlash, qayta ishlash va ulardan foydalanish usullarini egallagan bo‘lishi, o‘z kasbiy faoliyatida mustaqil asoslangan qarorlar qabul qila olishi;
- tegishli bakalavriat yo‘nalishi bo‘yicha, raqobatbardosh umumkasbiy tayyorgarlikka ega bo‘lishi;
- yangi bilimlarni mustaqil egallay bilishi, o‘z ustida ishlashi va mehnat faoliyatini ilmiy asosda tashkil qila olishi;
- sohaga oid innovatsiyalarni amaliyotga tadbiq qilishni tashkil etish;
- ijrochilar jamoasi ishini tashkil qilish;
- fikrlar har xil bo‘lgan sharoitda boshqaruv qarorini qabul qilish;
- nazorat qilish va amalga oshiriladigan ishlarning natijalarini baholash;
- bajarayotgan faoliyati bo‘yicha ish rejasini tuzish, nazorat qilish va amalga oshirilgan ishning natijalarini baholash;
- mehnat jarayonida xavfsizlikni ta’minlash bo‘yicha metodika va tadbirlarni ishlab chiqish va amalga oshirish qobiliyatiga ega bo‘lishi;

- atrof-muhitni muhofaza qilish va mehnat xavfsizligi talablariga mos kelishi borasida ishlab chiqarish jarayonlarini nazorat qilish;

- sog‘lom turmush tarzi va unga amal qilish zaruriyati to‘g‘risida ilmiy tasavvur hamda e’tiqodga, o‘zini jismoniy chiniqtirish o‘quv va ko‘nikmalariga ega bo‘lishi;

- namunaviy texnologik jarayonlarni ishlab chiqish va ularni qo‘llash;

- qishloq xo‘jalik o‘simliklari zararli organizmlari tur tarkibini aniqlash, o‘simliklarni kasallik, zararkunanda va begona o‘tlardan himoya qilish va karantinda samarali va resurstejamkor faoliyatni tashkil eta olish;

- pullik ta’lim xizmatlarini tashkil etish va amalga oshirish;

- ixtisoslikka mos mavzu bo‘yicha turli xizmatlarni ko‘rsatish qobiliyatiga ega bo‘lishi lozim.

- mustaqil ta’lim va ijodiy izlanish natijasida o‘qitilayotgan fan hamda pedagogik faoliyat sohasidagi uslublar, vositalar va shakllar tizimda o‘z-o‘zini muntazam takomillashtirib borish.

Ilmiy tadqiqot faoliyati;

- kichik ilmiy xodim va yordamchi lavozimlarda ilmiy-tadqiqot ishlari olib borishi;

- ilmiy-uslubiy va boshqa texnik ishlarini bajarish;

- ilmiy-tadqiqot va ishlab chiqarish jamoasi tarkibida (ta’lim yo‘nalishi xususiyatlariga mos ravishda) kasbiy faoliyat masalalarini yechish;

- ilmiy-amaliy seminarlar, konferensiyalarni tashkil etish hamda ilmiy, tahliliy ommabop nashrlarda maqolalar bilan qatnashish;

- ilmiy va ilmiy - uslubiy faoliyat turlari bo‘yicha turlari bo‘yicha axborot-resurs kataloglarini tuzish va ulardan foydalanish;

- mavzu (topshiriq) bo‘yicha ilmiy-texnikaviy ma’lumotlarni yig‘ish, ishlov berish, tahlili qilish va olingan ma’lumotlarni tizimlashtirishda ishtirok etish;

- o‘simliklarni himoya qilish fani sohasiga oid ilmiy - tadqiqot ishlarini tashkil etish hamda ilg‘or ilmiy - tadqiqot natijalarni va ishlanmalarni amaliyotga tadbiq etishda qatnashishi bo‘yicha faoliyat olib borish qobiliyatiga ega bo‘lishi lozim.

2. *60811000 – O‘simliklar karantini va himoyasi* ta’lim yo‘nalishi bo‘yicha bakalavrlarning kasbiy kompetensiyasiga qo‘yiladigan talablar

2.1. Umumiy kompetensiyalar:

- davlat siyosatining dolzarb masalalarini bilishi, ijtimoiy-iqtisodiy muammolar va jarayonlarni mustaqil tahlil qila olish;

- mantiqiy fikrlashlarni rivojlantirish, to‘g‘ri xulosa chiqarish, matematik madaniyati shakllantirish:

- xorijiy tillardan birida kasbiy faoliyatiga oid xujjatlar va ishlar mohiyatini tushunishi, tabiiy ilmiy fanlar bo‘yicha kasbiy faoliyati doirasida zaruriy bilimlarga ega bo‘lishi hamda ulardan zamonaviy ilmiy asosda xayotda va o‘z kasb faoliyatida foydalana bilish;

- axborot texnologiyalarini kasbiy faoliyatida qo‘llay bilishi, axborotlarni yig‘ish, saqlash, qayta ishlash va ulardan foydalanish usullarini egallagan bo‘lishi, faoliyatida mustaqil asoslangan qarorlar qabul qila olish;

- yangi bilimlarni mustaqil egallay bilishi, o‘z ustida ishlashi va mehnat faoliyatini ilmiy asosda tashkil qila olish;

- sog‘lom turmush tarzi va unga amal qilish zaruriyati to‘g‘risida ilmiy tassavvurga ega bo‘lishi.

2.1.1. Milliy malaka ramkasi va Yevropa malakalar doirasining 6-darajasiga muvofiq bitiruvchi quyidagi tadqiqotchilik hamda ijtimoiy kompetensiyalar:

- ilmiy va amaliy muammolarni aniq savol va asoslangan gipoteza shaklida ifodalaydi; tadqiqot metodini tanlaydi, kuzatuv yoki tajribani rejali tashkil qiladi;
- ishonchli manbalarni izlaydi, ma’lumotlarni to‘playdi, tegishli hisoblash va tahlil usullari bilan qayta ishlaydi, natijalarning cheklovlarini baholaydi;
- fan doirasida kichik tadqiqot yoki amaliy loyihani mustaqil rejalashtiradi, ilmiy xulosa va amaliy tavsiya ishlab chiqadi, natijalarni dalillar bilan himoya qiladi;
- ko‘p tarmoqli jamoalarda hamkorlik qiladi, kasbiy muloqot va taqdimot usullaridan foydalanadi, manfaatdor tomonlarning ehtiyojlarini inobatga oladi;
- kasbiy etika, xavfsizlik, ijtimoiy mas’uliyat va ekologik barqarorlik talablariga rioya qilgan holda dalillarga asoslangan qaror qabul qiladi.

2.2.Kasbiy kompetensiyalar:

- ta’lim yo‘nalishi ixtisoslik fanlarni o‘rganish va chuqur egallash uchun zarur bo‘lgan fundamental umumkasbiy bilimlarni, amaliy ko‘nikma va uquvlarni shakllantirishi;
- ta’lim yo‘nalishiga muvofiq kasb faoliyati sohalarida erishilgan asosiy yutuqlar, muammolar va ularni hal etishni istiqbollari haqida tasavvur hosil qilishi;
- qishloq xo‘jalik ekinlarida uchraydigan zararli organizmlarni turlarini aniqlay olishi;
- o‘quv va ishlab chiqarish-texnologik amaliyotlar hisoboti uchun ma’lumotlar tayyorlash;
- yangi bilimlarni mustaqil o‘zlashtirish, o‘z ustida ishlash va ilmiy asosda ish faoliyatini tashkil etish;
- qaror qabul qilish, bilimlarni amaliyotda qo‘llash, ish samaradorligi va sifatiga javob berish;
- qishloq xo‘jaligida o‘simliklar karantini va himoyasi, tadbirlarining bajarilishini sifatini aqlli (smart) texnologiyalar yordamida nazorat qilish;
- respublika hamda xorijda chop etilgan qishloq xo‘jaligi sohasi va o‘simliklar karantini va himoyasiga oid ilmiy-texnik axborotlarning ilmiy manbalarini o‘rganish;
- o‘simliklar karantini va himoyasi bo‘yicha ilmiy-tadqiqot ishlarini bajarishda bevosita ishtirok etish;
- mavzu (topshiriq) bo‘yicha ilmiy ma’lumotlarni zararli organizmlari namunalarini yig‘ish, ishlov berish, tahlil qilish va olingan ma’lumotlarni tizimlashtirishda ishtirok etish;
- o‘simliklarni himoya qilish, biologik vositalarni ko‘paytirish va qo‘llash texnologiyalari, pestitsidlardan amalda foydalanishni ekologik xavfsiz usullari va vositalarini qo‘llash bo‘yicha bilimlarni egallashi lozim;
- agrobiotsenozlarda zararli organizmlar rivojlanishi va tarqalish xaritasini tuzish;
- o‘simliklar va zaxira mahsulotlarini zararli organizmlardan uyg‘unlashgan himoya qilish tizimini ishlab chiqish;
- qishloq xo‘jalik ekinlari kasalliklari va zararkunandalarini hisobga olish, paydo bo‘lishini xamda tarqalishini bashorat qilish;

- o‘simliklar karantini va himoyasi sohasida ochiqda va issiqxonalarda zarur texnika vositalarning tayyorgarligini tekshirish, ishlab chiqarishga eng samarali mexanizatsiya vositalarini tanlash;

-loyihalashtirishda zamonaviy kommunikatsion, informatika va kompyuter texnologiyalaridan foydalanish;

- ilmiy-tadqiqot natijalarini va innovatsion ishlanmalarni amaliyotga tadbiq qilish, texnologik jarayonlarni loyihalash va ularni amalda joriy qilish borasida ***ilmiy bilimlar, amaliy mahorat va ko‘nikmalariga ega bo‘lishi kerak.***

2.2.1. 60811000 - O‘simliklar karantini va himoyasi bakalavriat ta’lim dasturining o‘lchanadigan yakuniy ta’lim natijalari:

Kasbiy va sohaviy bilimlarni qo‘llash:

- qishloq xo‘jaligi ekinlarida uchraydigan asosiy zararkunandalarni morfologik belgilar va kuzatuv ma’lumotlari asosida farqlaydi hamda ularning zararini baholaydi;

- o‘simlik kasalliklarining belgilari va qo‘zg‘atuvchilarini mos diagnostika usullari bilan aniqlaydi, tashxis asoslanganligini tekshiradi;

- biologik, agrotexnik va kimyoviy himoya choralarini taqqoslaydi, ekin, zararli organizm va xavf darajasiga mos integratsiyalashgan himoya rejasini tuzadi;

Ilmiy-tadqiqot va tahliliy kompetensiyalar:

- fitosanitar muammo bo‘yicha tekshiriladigan savol va gipotezani shakllantiradi, tajriba obyektlari, nazorat variantlari va kuzatuv ko‘rsatkichlarini tanlaydi;

- dala va laboratoriyada zararli organizmlardan namunalar oladi, ularni belgilash, qayd etish va tekshirishning takrorlanadigan tartibini hujjatlashtiradi;

- fitosanitar kuzatuvlar ma’lumotlarini elektron shaklda qayta ishlaydi, kasallanish va zararlanish ko‘rsatkichlarini hisoblaydi hamda grafik tahlil qiladi;

- zararli organizmlar tarqalishi xavfini monitoring natijalari va ilmiy manbalar bilan solishtiradi, noaniqliklarni ko‘rsatib, asoslangan fitosanitar xulosa chiqaradi.

- zararli organizmni aniqlash yoki nazorat qilishga doir kichik tadqiqot loyihasini tayyorlaydi, metod va natijalarni ilmiy hisobotda bayon etadi hamda himoya qiladi;

Ijtimoiy, kommunikativ va mas’uliyat kompetensiyalari:

- monitoring, namuna olish va fitosanitar nazorat ishlarini jamoa bilan rejalashtiradi, vazifalarni taqsimlaydi va o‘z ishining jamoa natijasiga ta’sirini baholaydi;

- fitosanitar xavflar va himoya choralari bo‘yicha xulosalarni ishlab chiqaruvchilar hamda nazorat mutaxassislariga tushunarli va asoslangan tilda taqdim etadi;

- pestitsidlar va biologik preparatlarni qo‘llashda inson salomatligi, foydali organizmlar va atrof-muhit xavfsizligi bilan bog‘liq xatarlarni tahlil qiladi;

- karantin va fitoekspertiza natijalari bo‘yicha professional xolislik, hujjatlashtirish va manfaatdor tomonlar bilan mas’uliyatli muloqot tamoyillarini qo‘llaydi;

2.3. Umumiy va kasbiy kompetensiyalarni egallashni ta’minlaydigan fanlar va amaliyotlarga qo‘yiladigan talablar.

Talabalar umumiy va kasbiy kompetensiyalar, bilim va ko‘nikmalarni egallashi o‘quv rejasiga mantiqiy ketma - ketligda kiritiladigan majburiy va tanlov fanlarni o‘zlashtirish, amaliyotlarni o‘tish hamda boshqa o‘quv mashg‘ulot va akademik vazifalarni bajarish yordamida amalga oshiriladi.

Majburiy fanlar-bakalvriat ta’lim yo‘nalishi bo‘yicha bevosita umumiy va kasbiy kompetensiyalarni egallashga qaratilgan, zarur tayanch bilim va ko‘nikmalarni ta’minlaydigagn fanlar majmuasidir.

Tanlov fanlari - ta’lim yo‘nalishi doirasida ixtisoslashuvdan kelib chiqib chuqurlashtirilgan, qo‘shimcha bilim berish, bevosita ixtisosligi uchun zarur kompetensiyalarni kengaytirishga xizmat qiladigan, shuningdek, talabaning shaxsiy qiziqishlari, ijodiy yondashuvlari va iqtidorini qqo‘llab-quvvatlashga qaratilgan fanlar majmuasidir.

Ta’lim yo‘nalishi bo‘yicha quyidagi amaliyotlar o‘tkaziladi:

Malakaviy amaliyot-umumkasbiy va ixtisoslik fanlaridan nazariy bilimlarni mustahkamlash va amaliy (ishlab chiqarish) jarayonlari bilan uyg‘unlashtirish, tegishli amaliy ko‘nikmalar, kompetensiyalar va malakalarni shakllantirishga qaratiladi:

2.3.1 Kvalifikatsiya: agronom, entomolog, fitopatolog, karantin- inspektori

2.3.2. *60811000 – O‘simliklar karantini va himoyasi* ta’lim yo‘nalishi uchun ajratilgan o‘quv fanlari, bloklar bo‘yicha soatlar va kreditlar:

O‘quv fanlari, bloklar va faoliyat turlarining nomlari	Kunduzgi ta’lim shakli uchun fanlarga ajratilgan soat	Ajratilgan kredit
Majburiy fanlar	5280	176
Tanlov fanlar	1140	38
Malakaviy amaliyot	660	22
Bitiruv malakaviy ishi (BMI)	120	4

2.3.3. *60811000 – O‘simliklar karantini va himoyasi* ta’lim yo‘nalishi bo‘yicha ta’lim dasturining tuzilishi:

	Fanning malakaviy kodi	O‘quv fanlari, bloklar va faoliyat turlarining nomlari	Umumiy yuklamaning hajmi, soatlarda	Kredit miqdori	Semestr
1.00		**Majburiy fanlar**	**5280**	**176**	
1.01	O‘EYTB1104	O‘zbekistonning eng yangi tarixi	120	4	1
1.02	DINB1204	Dinshunoslik	120	4	2
1.03	FALB1504	Falsafa	120	4	5
1.04	XJTNB1108	Xorijiy til (ingliz, nemis, fransuz)	240	8	1,2
1.05	O‘T O‘SQB1204	O‘zbek (rus) tili: O‘zbek tilini sohada qo‘llash	120	4	2
1.06	JMSB1104	Jismoniy madaniyat va sport	120	4	1
1.07	OMTB1104	Oliy matematika	120	4	1
1.08	ANFKBKB1104	Analitik, fizkolloid va bioorganik kimyo	120	4	1
1.09	BO‘FZB1208	Botanika va o‘simliklar fiziologiyasi	240	8	1,2
1.10	QXITTB1204	Qishloq xo‘jaligida innovatsion texnika va texnologiyalar	120	4	2
1.11	QXAKTB1204	Qishloq xo‘jaligida axborot-kommunikatsion texnologiyalar	120	4	2
1.12	UENZOOB1110	Umumiy entomologiya va zoologiya	300	10	1,2
1.13	TPAKB1308	Tuproqshunoslik va agrokimyo	240	8	3,4

	Fanning malakaviy kodi	O‘quv fanlari, bloklar va faoliyat turlarining nomlari	Umumiy yuklamaning hajmi, soatlarda	Kredit miqdori	Semestr
1.14	UFTMKB1310	Umumiy fitopatologiya va mikrobiologiya	300	10	3,4
1.15	DHMELB1308	Dehqonchilik va melioratsiya	240	8	3,4
1.16	O‘SHPB1308	O‘simlikshunoslik va paxtachilik	240	8	3,4
1.17	O‘SIMB1306	O‘simliklar imuniteti	180	6	3
1.18	O‘KZKB1510	O‘simliklarning karantin zararkunandalari va kasalliklari	300	10	5,6
1.19	MEVSABB1508	Mevachilik va sabzavotchilik	240	8	5,6
1.20	MIKLB1506	Mikologiya	180	6	5
1.21	QXZOROAB1606	Qishloq xo‘jaligi zararli organizmlari rivojlanishini oldindan aniqlash	180	6	6
1.22	QXMSSB1706	Qishloq xo‘jaligi maxsulotlarni standartlashtirish va sertifikatlash	180	6	7
1.23	QXENTOB1710	Qishloq xo‘jaligi entomologiyasi	300	10	7,8
1.24	QXFITOB1710	Qishloq xo‘jalik fitopatologiyasi	300	10	7,8
1.25	O‘ZOBHQB1706	O‘simliklarni zararli organizmlardan biologik himoya qilish	180	6	7
1.26	O‘KHQATB1806	O‘simliklarni kimyoviy himoya qilish va agrotoksikologiya	180	6	8
1.27	O‘MKFTEB1806	O‘simliklar va maxsulotlar karantinida fitoekspertiza	180	6	8
2.00		*Tanlov fanlar*	**1140**	**38**	**3,4,5,6,8**
		Jami	**6420**	**214**	
		Malakaviy amaliyotlar	660	22	2,4,6,7
		Bitiruv malakaviy ishi (BMI)	120	4	8
		Jami	**780**	**26**	
		HAMMASI	**7200**	**240**	

Bibliografik ma’lumotlar

UO‘K: 632 Guruh T 55

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Tayanch so‘zlar:

o‘simliklarni himoya qilish, kasbiy faoliyat turi, kompetensiya, ta’lim yo‘nalishi, kasbiy faoliyat obyekti, kasbiy faoliyat sohasi, bakalavriatning asosiy o‘quv rejasi va fan dasturi, malaka amaliyot, attestatsiya, o‘quv jarayoni,hasharot, kanalar. nematodalar, kemiruvchilar. kanalar, entomologiya, fitopatologiya, zamburug‘, bakteriya, viruslar, entomofag, akarifag, o‘simlik, zararkunandalari, kasalliklar, begona o‘tlar, pestitsidlar, entomofaglar, kimyoviy, biologik, agrotexnik usullar, uyg‘unlashgan kurash. hasharot, o‘rgimchakkana.

MINISTRY OF HIGHER EDUCATION, SCIENCE AND INNOVATION OF THE REPUBLIC OF UZBEKISTAN

60811000– Plant quarantine and protection

Qualification requirements for undergraduate studies

Tashkent-2026

DEVELOPED AND INCLUDED:

- Tashkent State Agrarian University .

APPROVED AND IMPLEMENTED:

Approved by the Order of the Minister of Higher Education, Science and Innovation of the Republic of Uzbekistan No. ____ dated "____" _____, 2026 .

CURRENTLY APPLIED:

Ministry of Higher Education, Science and Innovations of the Republic of Uzbekistan.

These Qualification Requirements are developed in accordance with the "State Educational Standard of Higher Education. Basic Rules", "State Educational Standard of Higher Education". Classifier of Higher Education Areas and Specialties", National and Sectoral Qualification Frameworks (Framework) of the Republic of Uzbekistan, professional standards and proposals of personnel customers and are considered official regulatory and methodological documents.

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1. Description of the undergraduate program *60811000 – Plant Quarantine and Protection*

60811000 - Plant Quarantine and Protection is a bachelor's degree program offered in full-time, evening, part-time, and distance learning formats. All forms of education are based on a credit-module system. The standard duration of a bachelor's degree program in full-time education is 4 years.

1.1. Scope

1.1.1. Application of qualification requirements for the educational field *60811000–Plant quarantine and protection* .

Qualification requirement *60811000* – represents a set of requirements for all higher education institutions that prepare bachelors in the field of *Plant Quarantine and Protection* .

1.1.2. Main users of qualification requirements:

–Management staff (rector, vice-rectors, heads of academic departments, deans and heads of departments) and professors of higher education institutions who are responsible for the development and updating of qualification requirements, curricula and subject programs for this educational area, and for their effective implementation based on them, and who, within their competence, are responsible for the level of preparation of graduates;

– students of a higher education institution that is mastering the curriculum and subject programs of the educational field;

– State certification commissions that assess the level of preparation of bachelor's degree graduates;

– state bodies responsible for managing education;

– bodies providing funding for higher education institutions;

– authorized state bodies responsible for accreditation and quality control of the higher education system;

– personnel customers and employing organizations and enterprises;

–higher education institutions , their parents and other interested parties.

1.2. Description of professional activities of bachelors in the field of study *60811000 - Plant quarantine and protection*

1.2.1. Areas of professional activity of bachelors in the field of study *60811000 - Plant quarantine and protection* .

60811000 – Plant Quarantine and Protection Educational Program - covers a range of professional areas related to complex issues in the Academy of Sciences of the Republic of Uzbekistan and related research institutes, state administration bodies, state and non-state institutions.

1.2.2. Objects of professional activity of bachelors in the field of education *60811000 - Plant quarantine and protection* :

- at the Academy of Sciences of the Republic of Uzbekistan and related scientific and research institutes;
- in offices within the Ministry of Agriculture;
- in state and non-state organizations, enterprises and institutions, companies (firms, clusters), production associations and departments;
- in manufacturing enterprises

- solving complex issues in state administration bodies, state and non-state institutions.

in the field of *Plant Quarantine and Protection* , after completing the bachelor's degree in the field of science, will have the right to teach in their institutions using compulsory and elective subjects, and to solve complex problems in the field of Plant Quarantine and Protection in organizations under the Ministry of Agriculture of the Republic of Uzbekistan and in sectoral scientific and research institutes, agroclusters, and departments.

1.2.3. Types of professional activities of bachelors in the field of study *60811000 - Plant quarantine and protection* :

- *scientific research;*
- *production;*
- *organizational and management;*

1.2.4. Professional duties of bachelors in the field of study *60811000 - Plant quarantine and protection :*

60811000 - Plant Quarantine and Protection, a bachelor's degree graduate must be able to perform the following professional tasks:

In organizational, managerial and production activities:

- knowledge of current issues of civil society, an active life perspective based on the development strategy of Uzbekistan:

- to systematically acquire philosophical knowledge related to worldview, be able to independently analyze it, and be able to take it into account in professional activities;

- Know the history of the homeland, be able to express and scientifically substantiate their opinions on issues of spiritual, national and universal values, and have an active life outlook based on the idea of national independence;

- understand the essence of documents and works related to professional activities in one of the foreign languages, have the necessary knowledge in the natural sciences within the framework of professional activities, and be able to use them in life and in their professional activities on a modern scientific basis;

- master the methods of collecting, storing, processing and using information, and be able to make independent, informed decisions in their professional activities;

- have a competitive general professional education in the relevant bachelor's degree field;

- be able to independently acquire new knowledge, work on oneself, and organize work activities on a scientific basis;

- organizing the implementation of industry-specific innovations;

- organizing the work of the performing team;

- making management decisions in conditions of differing opinions;

- control and evaluation of the results of the work carried out;

- drawing up a work plan for the activities performed, monitoring it and evaluating the results of the work performed;

- have the ability to develop and implement methodologies and measures to ensure safety in the labor process;

- control of production processes for compliance with environmental protection and occupational safety requirements;

- have a scientific understanding and belief in a healthy lifestyle and the need to follow it, as well as the training and skills to physically train oneself;

- development and application of model technological processes;

- to be able to determine the species composition of harmful organisms of agricultural plants, protect plants from diseases, pests and weeds, and organize effective and resource-saving activities in quarantine;

- organization and implementation of paid educational services;

- Must have the ability to provide various services on a topic appropriate to their specialization.

- to systematically improve the methods, tools and forms of teaching and pedagogical activity as a result of independent learning and creative research.

Scientific research activities;

- conduct research work in junior research and assistant positions;

- carrying out scientific, methodological and other technical work;

- solving professional activity issues within the research and production team (in accordance with the specifics of the educational field);

- organizing scientific and practical seminars, conferences, and participating in scientific and analytical popular publications with articles;

- creation and use of information resource catalogs by type of scientific and scientific-methodological activities;

- participate in the collection, processing, analysis and systematization of scientific and technical information on the topic (task);

- Must have the ability to organize scientific research in the field of plant protection science and participate in the practical implementation of advanced scientific research results and developments.

2. Requirements for professional competence of bachelors in the field of education *60811000 – Plant quarantine and protection*

2.1. General **competencies :**

- knowledge of current issues of state policy, the ability to independently analyze socio-economic problems and processes;

- develop logical thinking, draw correct conclusions, and form a mathematical culture:

- understand the essence of documents and works related to their professional activities in one of the foreign languages, have the necessary knowledge in the natural sciences within the framework of their professional activities, and be able to use them in life and in their professional activities on a modern scientific basis;

- be able to use information technologies in their professional activities, master the methods of collecting, storing, processing and using information, and be able to make independent, informed decisions in their activities;

- be able to independently acquire new knowledge, work on oneself, and organize work activities on a scientific basis;

- have a scientific understanding of a healthy lifestyle and the need to follow it.

2.1.1. In accordance with the National Qualifications Framework and level 6 of the European Qualifications Framework, graduates will have the following research and social competencies :

- expresses scientific and practical problems in the form of clear questions and well-founded hypotheses; chooses a research method, systematically organizes observations or experiments;

- searches for reliable sources, collects data, processes it with appropriate calculation and analysis methods, and assesses the limitations of the results;

- independently plans a small research or practical project within the framework of science, develops a scientific conclusion and practical recommendations, and defends the results with evidence;

- collaborates in multidisciplinary teams, uses professional communication and presentation techniques, and takes into account the needs of stakeholders;

- Makes evidence-based decisions while adhering to professional ethics, safety, social responsibility, and environmental sustainability requirements.

2.2.Professional competencies:

- the educational direction forms the fundamental general professional knowledge, practical skills and abilities necessary for the study and in-depth mastery of specialized disciplines;

- to form an idea of the main achievements, problems and prospects for solving them in the areas of professional activity in accordance with the educational field;

- be able to identify the types of harmful organisms found in agricultural crops;

- preparation of data for reports on educational and production-technological practices;

- independently master new knowledge, work on oneself, and organize work activities on a scientific basis;

- decision-making, application of knowledge in practice, responsibility for the efficiency and quality of work;

- control the quality of plant quarantine and protection measures in agriculture using smart technologies;

- study scientific sources of scientific and technical information on the agricultural sector and plant quarantine and protection published in the republic and abroad;

- plants Direct participation in research and development work on quarantine and protection;

- participate in the collection, processing, analysis of samples of harmful organisms and systematization of the obtained data on the topic (task);

- must acquire knowledge of plant protection, technologies for the reproduction and application of biological agents, and environmentally safe methods and means for the practical use of pesticides;

- harmful organisms in agrobiocenoses development and distribution map;

- development of a system for the integrated protection of plants and reserve products from harmful organisms;

- taking into account diseases and pests of agricultural crops , predicting their occurrence and spread;

- checking the readiness of the necessary technical equipment in the field of plant quarantine and protection in open ground and greenhouses, selecting the most effective mechanization tools for production;

-use of modern communication, information technology and computer technologies in design;

must have scientific knowledge, practical skills and abilities in applying research results and innovative developments into practice, designing technological processes and implementing them in practice .

2.2.1. Measurable final learning outcomes of the undergraduate educational program 60811000 - Plant Quarantine and Protection:

Application of professional and industry knowledge:

- distinguishes the main pests of agricultural crops based on morphological characteristics and observational data and assesses their damage;

- identifies symptoms and pathogens of plant diseases using appropriate diagnostic methods, and verifies the validity of the diagnosis;

- compares biological, agrotechnical and chemical protection measures, develops an integrated protection plan appropriate to the crop, harmful organism and level of risk;

Research and analytical competencies:

- formulates a question and hypothesis to be tested on a phytosanitary problem, selects experimental objects, control options, and monitoring indicators;

- takes samples of harmful organisms in the field and laboratory, documents a repeatable procedure for their identification, recording and testing;

- processes phytosanitary observation data electronically, calculates disease and pest indicators, and performs graphical analysis;

- compares the risk of spreading harmful organisms with monitoring results and scientific sources, indicates uncertainties and draws a well-founded phytosanitary conclusion.

- prepares a small research project on the detection or control of a harmful organism, describes the methods and results in a scientific report, and defends it;

Social, communicative and responsibility competencies:

- plans monitoring, sampling and phytosanitary control work with the team, distributes tasks and evaluates the impact of their work on the team's results;

- provides conclusions on phytosanitary risks and protective measures to producers and control specialists in understandable and substantiated language;

- analyzes the risks associated with human health, beneficial organisms and environmental safety when using pesticides and biological products;

- applies the principles of professional impartiality, documentation, and responsible communication with stakeholders regarding the results of quarantine and phytoexamination;

2.3. Requirements for disciplines and practices that ensure the acquisition of general and professional competencies.

Students acquire general and professional competencies, knowledge, and skills through the acquisition of compulsory and elective subjects, which are included in the curriculum in a logical sequence, through internships, and through the completion of other training and academic tasks.

Compulsory subjects are a set of subjects that provide the necessary basic knowledge and skills, aimed at directly acquiring general and professional competencies in the baccalaureate education field.

Elective subjects are a set of subjects that are deepened based on specialization within the educational field, provide additional knowledge, expand the competencies necessary for the direct specialty, and are also aimed at supporting the student's personal interests, creative approaches, and talents.

The following internships are held in the educational field:

Professional practice is aimed at strengthening theoretical knowledge in general and specialized disciplines and combining it with practical (production) processes, and at forming relevant practical skills, competencies and qualifications:

2.3.1 Qualification: agronomist, entomologist, phytopathologist, quarantine inspector

2.3.2. 60811000 - Hours and credits by academic subjects, blocks allocated for the educational direction of *Plant Quarantine and Protection :*

Subjects, blocks and types of activities names	**Hours allocated to subjects for full-time education**	**Allocated credit**
Compulsory subjects	5280	176
Elective subjects	1140	38
Qualified internship	660	22
Graduation qualification work	120	4

2.3.3. Structure of the educational program for the educational direction *60811000 - Plant quarantine and protection* :

	Science qualification code	**Names of academic subjects, blocks and types of activities**	**Total load volume, in hours**	**Loan amount**	**Semester**
1.00		**Compulsory subjects**	**5280**	**176**	
1.01	O'EYTB1104	The latest history of Uzbekistan	120	4	1
1.02	DINB1204	Religious studies	120	4	2
1.03	FALB1504	Philosophy	120	4	5
1.04	XJTNB1108	Foreign language (English, German, French)	240	8	1.2
1.05	OBJECTSQB1204	Uzbek (Russian) language: Using the Uzbek language in the field	120	4	2
1.06	JMSB1104	Physical culture and sports	120	4	1
1.07	OMTB1104	Higher mathematics	120	4	1
1.08	ANFKBKB1104	Analytical, physicocolloid and bioorganic chemistry	120	4	1
1.09	BO'FZB1208	Botany and plant physiology	240	8	1.2
1.10	QXITTB1204	Innovative techniques and technologies in agriculture	120	4	2
1.11	QXAKTB1204	Information and communication technologies in agriculture	120	4	2
1.12	UENZOOB1110	General entomology and zoology	300	10	1.2
1.13	TPAKB1308	Soil science and agrochemistry	240	8	3.4
1.14	UFTMKB1310	General phytopathology and microbiology	300	10	3.4
1.15	DHMELB1308	Farming and land reclamation	240	8	3.4
1.16	OSHPB1308	Plant science and cotton growing	240	8	3.4

	Science qualification code	Names of academic subjects, blocks and types of activities	Total load volume, in hours	Loan amount	Semester
1.17	OSIMB1306	Plant immunity	180	6	3
1.18	OKZKB1510	Quarantine pests and diseases of plants	300	10	5.6
1.19	MEVSABB1508	Fruit and vegetable growing	240	8	5.6
1.20	MIKLB1506	Mycology	180	6	5
1.21	QXZOROAB1606	Predicting the development of agricultural pests	180	6	6
1.22	QXMSSB1706	Standardization and certification of agricultural products	180	6	7
1.23	QXENTOB1710	Agricultural entomology	300	10	7.8
1.24	QXFITOB1710	Agricultural phytopathology	300	10	7.8
1.25	UZOBHQB1706	Biological protection of plants from harmful organisms	180	6	7
1.26	OKHQATB1806	Chemical plant protection and agrotoxicology	180	6	8
1.27	O'MKFTEB1806	Phytoexamination in quarantine of plants and products	180	6	8
2.00		*Elective subjects*	**1140**	**38**	**3,4,5,6,8**
		Total	**6420**	**214**	
		Qualifying internships	660	22	2,4,6,7
		Graduation qualification work	120	4	8
		Total	**780**	**26**	
		ALL	**7200**	**240**	

Bibliographic information

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Key words:

plant protection, type of professional activity, competence, direction of education, object of professional activity, field of professional activity, basic curriculum and science program of the bachelor's degree, qualification practice, certification, educational process, insects, mites. nematodes, rodents. mites, entomology, phytopathology, fungi, bacteria, viruses, entomophage, acarifag, plants, pests , diseases, weeds, pesticides, entomophages, chemical, biological, agrotechnical methods, integrated control. insects, spider mites.