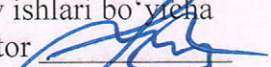
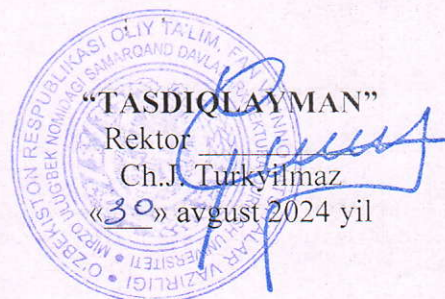


O‘ZBEKISTON RESPUBLIKASI
OLIY TA‘LIM, FAN VA INNOVATSIYALAR VAZIRLIGI
SAMARQAND DAVLAT ARXITEKTURA – QURILISH UNIVERSITETI

“KELISHILGAN”
o‘quv ishlari bo‘yicha
prorektor 
M.T. Shodmonqulov
Ro‘yxatga olindi: № 2631a
«30» avgust 2024 yil



AVTOMOBIL YO‘LLARINI LOYHALASH
FAN DASTURI

Bilim sohasi: 700 000 - Muhandislik, ishlov berish va qurilish sohalari
Ta‘lim sohasi: 730 000 - Arxitektura va qurilish
Ta‘lim yo‘nalishi: 60730800 - Yo‘l muhandisligi (Avtomobil yo‘llarini qurish)

Samarqand – 2024

Kurs ma'lumotlari
Course Information Form

| Modul kodi Code AYL 2119 | O'quv yili 2024-2025 | Semestr 7 | ECTS – Kreditlar 7-semestr -4 | | | |
|---------------------------------|---------------------------|---|--|---|--------------|---|
| Modul turi Majburiy | Ta'lim tili O'zbek/rus | | Auditoriya soatlari | | | Mustaqil ta'lim (soat/hafta) Independent Education (hour/week) |
| Fan nomi Title | Jami yuklama | Ma'ruza (soat/hafta) Lecture (hour/week) | Amaliy (soat/hafta) Practical (hour/week) | Laboratoriya (soat/hafta) Laboratory (hour/week) | 7-semestr -4 | |
| Avtomobil yo'llarini loyihalash | 7-semestr -120 | 7-semestr -2 | 7-semestr -2 | | | |

| | |
|---------------------------------|--------------|
| Dastlabki shart Prerequisite | Yo'q None |
|---------------------------------|--------------|

| | |
|--------------------|-----------------|
| Semestr Semestr | Kuzgi Autumn |
|--------------------|-----------------|

| | |
|-------------------------------------|--|
| Kurs tili Course language | O'zbek, Ingliz, Rus Uzbek, English, Russian |
| O'quv kursi Level of Course | To'rtinchi kurs Four Cycle |
| Ta'lim yo'nalishlari Course type | 60730800 - Yo'l muhandisligi (Avtomobil yo'llarini qurish) |
| Kurs toifasi Course Category | Majburiy Core Courses |
| Dars shakli Mode of Delivery | An'anaviy (Yuzma – yuz muloqot) Face – to – face |

| | |
|---------------------------------------|---|
| Ma'sul kafedra Owner academic unit | Qurilish muhandisligi Information technology |
| Kursga ma'sul Cours Coordinator | S. Zokirov |
| O'qituvchilar Instructor(s) | S.B Maxammadiyev, M.D Xudayberdiyev |
| Yordamchilar Asistant(s) | Sh.A Habibullayev |

| | |
|---|---|
| Fanni o'qitishdan maqsad Course objectives | <p>Bu fan "Yo'l muxandisligi" ta'lim yo'nalishi bakalavrlarga hozirgi vaqtda jaxon talablari va standartlariga javob beradigan avtomobil transportida xalqaro tranzit va respublika ichidagi yuklar va yo'lovchilarni yil davomida bir maromda va samarali tashishni ta'minlovchi yo'llarini qurish va ekspluatatsiya qilish bilan tanishadilar.</p> <p>This subject "Road Engineering" will introduce undergraduates to the construction and operation of roads that meet the current global requirements and standards for international transit and intra-republic cargo and passenger transportation throughout the year.</p> |
| Fanning mazmuni Course content | <p>Avtomobil yo'llarini loyihalash fani "Kadrlar tayyorlash milliy dasturida" gi yetuk mutaxassislarni tayyorlashga qo'yilgan talablar bilan uyg'undur. Fanni o'qitish jarayonida mutaxassislarning yuksak kasbiy mahorat va kasbiy faoliyatini shakllantirish texnologiyalariga e'tibor qaratiladi.</p> <p>The science of highway design is compatible with the requirements for the</p> |

| | |
|--|--|
| | training of advanced specialists in the "National Personnel Training Program". |
| Tavsiya qilingan yoki talab qilinadigan adabiyotlar ro'yxati Recommended Or Required Reading | <p>Asosiy adabiyotlar:</p> <ol style="list-style-type: none"> 1. V.F.Babkov, O.B.Andreyev. Avtomobil yo'llarini loyihalash. (A.R.Qodirova tarjimasini) 1-qism, darslik, Toshkent, 2001, 466 b. 2. V.F.Babkov, O.B.Andreyev. Avtomobil yo'llarini loyihalash. (A.R.Qodirova tarjimasini) 2-qism, darslik, Toshkent, 2003, 423 b. 3. В.В.Ушакова, В.М.Ольховикова. Строительство автомобильных дорог. Москва, Кнорус 2013, 572 ст. 4. А.П.Васильев. Эксплуатация автомобильных дорог. 1 часть. Москва, Академия 2010. 316 стр. 5. А.П.Васильев. Эксплуатация автомобильных дорог. 2 часть. Москва, Академия 2010. 320 стр. Qo'shimcha adabiyotlar: 6. Eshtemirov S. Nazarov F. Algoritmash va dasturlash asoslari. O'quv qo'llanma. Samarqand 2019. -208 b. 7. U.A. Nazarov, Informatika faniga kirish, darslik – 2023 8. M.T. Shodmonqulov Informatika faniga kirish, o'quv qo'llanma (amaliy mashg'ulotlarni bajarish uchun), "Ilm Ziyozakat" 2023 yil. 9. Ilyosov. Avtomobil yo'llarini loyihalash. Toshkent, 2001 y. 10. V.F.Babkov, O.B.Andreyev. Avtomobil yo'llarini loyihalash. (A.R.Qodirova tarjimasini) 1-qism, darslik, Toshkent, 2001, 466 b. 11. V.F.Babkov, O.B.Andreyev. Avtomobil yo'llarini loyihalash. (A.R.Qodirova tarjimasini) 2-qism, darslik, Toshkent, 2003, 423 b. <p>Axborot manbalari:</p> <ol style="list-style-type: none"> 1. www.lex.uz – O'zbekiston Respublikasi Qonun hujjatlari ma'lumotlari milliy bazasi; 2. http://www.bologna.yildiz.edu.tr/index.php?r=program/bachelor 3. www.gai.ayto.ru. 4. www.tayi.uz. |
| Tavsiya etilgan qo'shimcha dastur komponentlari Recommended Optional Program Components | Yo'q\ (bor bo'lsa yoziladi) None |

| Kursni o'rganish natijalari Course learning outcomes | |
|--|---|
| 1 | Ushbu kursni muvaffaqiyatli tamomlagan talabalar fan dasturi bo'yicha chuqur amaliy va nazariy bilimlarga ega bo'ladilar; Students who successfully complete this course will have in-depth practical and theoretical knowledge of the science program; |
| 2 | Avtomobil yo'llarini loyihalashga oid masalalarni yechishda qo'llaniladigan loyiha yechimlarini tanlay oladilar; They will be able to choose project solutions that are used in solving problems related to the design of highways; |
| 3 | Avtomobil yo'llari hozirgi zamon taraqqiyotida loyihalay oladilar; Highways can be used in modern development; |
| 4 | Avtomobil yo'llarining bo'ylama kesimini loyihalash tamoyillari, bo'ylama kesimni loyihalash ketma-ketligini, yo'l o'q chizig'ini loyihalashda harakat qulayligi va havfsizligini taminlay oladilar The principles of the design of the longitudinal section of the highways can ensure the ease of movement and safety in the design of the longitudinal section, the design of the axis of the road. |
| 5 | Har xil sathda kesishuvlar elementlarini o'rganadilar; They study the elements of intersections at different levels; |
| 6 | transport kesishmalarini loyihalashda kesishish sharoitini loyihalash usullarini yechish malakalariga ega bo'ladilar.; they will have the skills to solve the methods of designing intersection conditions in the design of traffic intersections.; |
| 7 | O'z fikr-mulohaza va xulosalarini asosli tarzda aniq bayon eta olish malakalariga ega bo'ladilar. They will have the skills to express their opinions and conclusions clearly. |

Haftalik mavzular va tegishli tayyorgarlik ishlari

Weekly Subjects and Related Preparation Studies

| Hafta Week | Mavzular Themes | Resurslar Related preparation |
|---------------|--|--|
| 1. | Kirish. O'zbekiston Respublikasi avtomobil yo'llari tarmog'ining rivojlanish istiqbollari. Avtomobil yo'llarini xalq xo'jaligida tutgan o'rni, ma'muriy va madaniy, iqtisodiy jihatdan tutgan o'rniga qarab tasniflanishi. | 3 - adabiyot (I-II bob) |
| 2. | Yo'l o'q chizig'ini o'tkazish. Yo'lning plandagi elementlari. Yo'lning ko'ndalang profili. | 1,2,7-adabiyotlar |
| 3. | Avtomobil yo'llarining ko'ndalag kesimi va elementlari. | 1,6-adabiyotlar |
| 4. | Avtomobil yo'llarining asosiy elementlari. Yo'lning ko'tarma va oymadagi ko'ndalang kesimi. Avtomobil yo'llarining ko'ndalang kesimi va elementlari. | 2, 5, 7, 9 - adabiyotlar |
| 5. | Avtomobilni to'g'rida harakatlanishi va unga ta'sir etuvchi kuchlar (qarshilik kuchlari) | 9-adabiyot (II bob), 3- adabiyot (I bob) |
| 6. | Avtobillarni egri uchastkalarda harakatlanishi va ularga ta'sir etuvchi kuchlar | 3, 5, 9 – adabiyotlar |
| 7. | Avtobillarni egrida harakatlanishi va ularga ta'sir etuvchi kuchlar. Viraj. O'tish egrisi. Egrida qatnov qismini kengaytirish. | 7, 9 – adabiyotlar |
| 8. | Yo'llardagi ko'rinishlikni ta'minlash. | 7, 9 – adabiyotlar |
| 9. | Yo'llardagi ko'rinishlikni aniqlash va ularni sxemasi. Tormozlanish yo'li. | 1,7,8,9 – adabiyotlar |
| 10. | Yo'llardagi harakatlanish tartibi. Oqimni holati. | 3,7,8,9 – adabiyotlar |
| 11. | Yo'lga tabiiy omillarni ta'siri. | 5,7,8,9 – adabiyotlar |
| 12. | Yo'lga tabiiy omillarni ta'siri. Relif turlari. Yo'l poyini namlanish manbalari. Yo'l poyini suv rejimi. Yo'l poyini ko'pchish sabablari. | 3, 7,8,9 - adabiyotlar |
| 13. | Yo'ldan suvni chetlatish. Er usti suvlarini chetlatish. Yer osti suvlarini chetlatish. | 1,5,8 - adabiyotlar |
| 14. | Trassa yo'nalishini tanlashda mahalliy sharoitlarni hisobga olish. Suv oqimlari va aholi puntlarini kesib o'tish. Yo'l o'q chizig'ini loyihalashda harakat qulayligi va xavfsizligiga qo'yiladigan talablar. | 7,8,10 - adabiyotlar |
| 15. | Trassa yo'nalishini tanlashda mahalliy sharoitlarni hisobga olish. Suv oqimlari va aholi puntlarini kesib o'tish. Yo'l o'q chizig'ini loyihalashda harakat qulayligi va xavfsizligiga qo'yiladigan. | 7,8,11 – adabiyotlar |

| Baholash jarayoni | | |
|--|-----------------------|--|
| Evaluation System | | |
| Mashg'ulot turi Activities | Soni Number | Baholash Percentage of Grade |
| Darsga qatnashish Attendance / participation | | |
| Laboratoriya ishi Laboratory | | |
| Amaliy ish (qo'shimcha vazifa) Application | 2 | 20 |
| Kurs ishi Field work | | |
| Maxsus kurs amalyoti (ish joyida) Special course internship (work placement) | | |
| Testlar Quizzes / studio critics | | |
| Uyga vazifani baholash Homework assignments | | |
| Ijodiy ish (taqdimot) Presentations / jury | | |
| Loyiha ishi Project | | |
| Seminar Seminar / workshop | | |
| Oraliq nazorat Mid -Terms | 2 | 30 |
| Yakuniy nazorat Final | 1 | 50 |
| O'zlashtirish ko'rsatgichi Percentage of in - term studies | | 50 |
| Yakuniy imtihon bahosi Percentage of final examination | | 50 |
| Jami Total | | 100 |

| ECTS taqsimoti | | | |
|--|-----------------------|--|---|
| ECTS workload table | | | |
| Topshiriqlar Activities | Soni Number | Davomiyligi (soat) Duration (hour) | Umumiy yuklama Total workload |
| Mashg'ulot soati Course hours | 15 | 4 | 60 |
| Laboratoriya ishi Laboratory | | | |
| Amaliy ish (qo'shimcha vazifa) application | | | |
| Kurs ishi Field work | | | |
| Mustaqil ta'lim (maslahat) Study hours out of class | 10 | 6 | 60 |
| Maxsus kurs amalyoti (ish joyida) Special course internship (work placement) | | | |
| Uyga vazifani baholash Homework assignments | | | |
| Testlar / Viktorina Quizzes / studio critics | | | |
| Loyiha ishi Project | | | |
| Ijodiy ish (taqdimot) Presentations / seminar | | | |
| Oraliq nazorat | | | |

| | | | |
|--|--|---|----------|
| Mid – terms (Examination +Examination prep. Duration) | | | |
| Yakuniy nazorat (nazorat va nazoratga tayyorlanish soati) | | | |
| Final (examination +examination prep.Duration) | | | |
| | | Jami yuklama Total workload | 120 |
| | | Jami yuklama / 30 (soat) Total workload / 30(h) | 120/30=4 |
| | | Kredit ECTS credit | 4 |

| | |
|---|------------------------------------|
| Qo'shimcha eslatmalar Extra Notes | Yo'q\ (bor bolsa yoziladi) None |
|---|------------------------------------|

Fan dasturi Mirozo Ulug'bek nomidagi Samarqand davlat Arxitektura-qurilish universitet kengashining 2024 yil 30 -avgustdagi 1 -sonli bayonnomasi bilan ma'qullangan.

Kafedra mudiri:

Karimov G'.

Tuzuvchilar:

Maxammadiyev S.B.

Xudayberdiyev M.D.

Xabibullayev Sh.A.