

FUNCTIONAL CAPABILITIES OF THE “EDUCATIONAL PROCESS” SECTION WITHIN THE DISTANCE EDUCATION MANAGEMENT INFORMATION SYSTEM

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Abstract: This paper explores the administrative workflows, management processes, and practical deployment of distance learning technologies through specialized information systems. Specifically, it analyzes the key functional attributes of core system modules that ensure a seamless and high-performing learning environment.

Keywords: Distance education information system management, educational processes, curriculums.

Introduction

In the contemporary era, opportunities for acquiring education are expanding exponentially. In particular, pursuing higher education through distance learning formats has become highly favorable for a vast portion of learners, as it enables individuals to earn a university degree without interrupting their professional careers. To ensure that students can seamlessly access course content, navigate academic semesters, and utilize structural learning materials on a distance education platform, it is paramount that the functional capabilities of the "Educational Process" section within the distance education management information system are robust, highly efficient, and comprehensively developed.

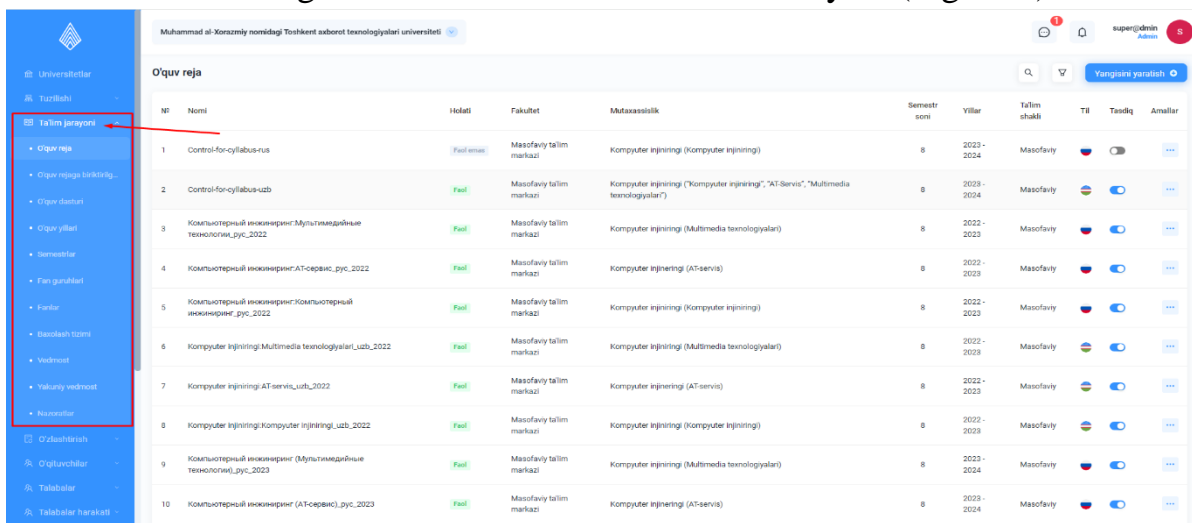
Functional Architecture of the "Educational Process" Section

The "Educational Process" section serves as the backbone for managing distance learning workflows. To ensure precise control, systematic planning, and continuous academic monitoring, this section is structurally architected into 11 distinct functional sub-sections:

1. Curriculum
2. Students Assigned to Curriculum
3. Syllabus / Academic Program
4. Academic Years
5. Semesters
6. Subject Groups

7. Subjects / Courses
8. Grading / Assessment System
9. Grade Sheet / Statement
10. Final Grade Sheet
11. Monitoring / Academic Controls

These integrated sub-sections encapsulate all the vital features and technical parameters required for the effective management, comprehensive scheduling, and real-time monitoring of the entire remote educational cycle (Figure 1).

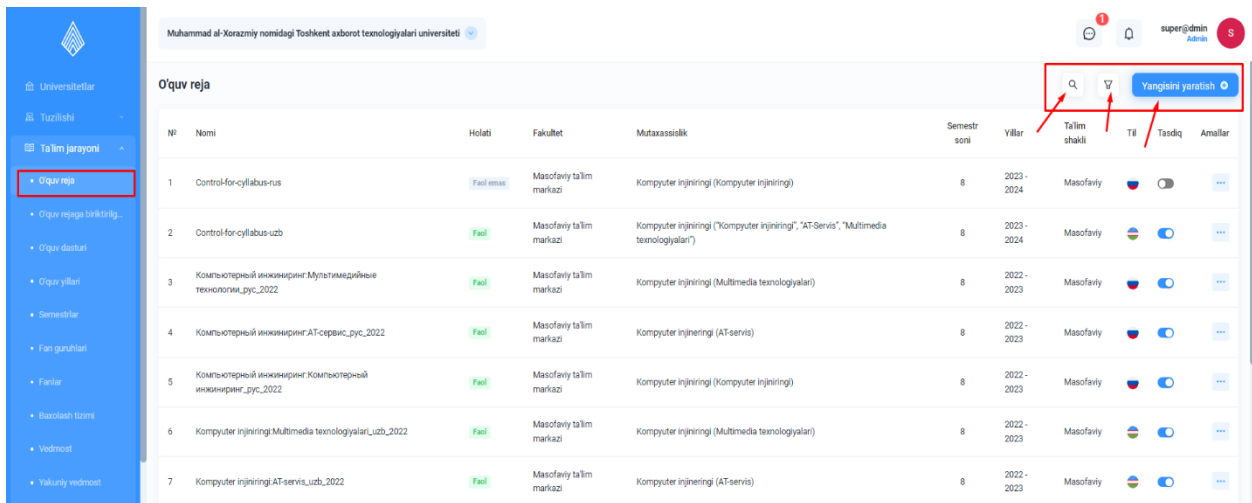


№	Nomi	Holati	Fakultet	Muxassaslik	Semestr soni	Yillar	Ta'lim shakli	Til	Tasdiq	Amallar
1	Control-for-cyilabus-rus	Foal emas	Masofaviy ta'lim markazi	Kompyuter injiniringi (Kompyuter injiniringi)	8	2023-2024	Masofaviy	🇷🇺	🔴	⋮
2	Control-for-cyilabus-uzb	Foal	Masofaviy ta'lim markazi	Kompyuter injiniringi ("Kompyuter injiniringi", "AT-Servis", "Multimedia texnologiyalar")	8	2023-2024	Masofaviy	🇺🇸	🟢	⋮
3	Компьютерный инженеринг:Мультимедийные технологии_рус_2022	Foal	Masofaviy ta'lim markazi	Kompyuter injiniringi (Multimedia texnologiyalar)	8	2022-2023	Masofaviy	🇷🇺	🟢	⋮
4	Компьютерный инженеринг:AT-сервис_рус_2022	Foal	Masofaviy ta'lim markazi	Kompyuter injiniringi (AT-servis)	8	2022-2023	Masofaviy	🇷🇺	🟢	⋮
5	Компьютерный инженеринг:Компьютерный инженеринг_рус_2022	Foal	Masofaviy ta'lim markazi	Kompyuter injiniringi (Kompyuter injiniringi)	8	2022-2023	Masofaviy	🇷🇺	🟢	⋮
6	Компьютер инжиниринг:Multimedia texnologiyalar_uzb_2022	Foal	Masofaviy ta'lim markazi	Kompyuter injiniringi (Multimedia texnologiyalar)	8	2022-2023	Masofaviy	🇺🇸	🟢	⋮
7	Компьютер инжиниринг:AT-servis_uzb_2022	Foal	Masofaviy ta'lim markazi	Kompyuter injiniringi (AT-servis)	8	2022-2023	Masofaviy	🇺🇸	🟢	⋮
8	Компьютер инжиниринг:Kompyuter injiniringi_uzb_2022	Foal	Masofaviy ta'lim markazi	Kompyuter injiniringi (Kompyuter injiniringi)	8	2022-2023	Masofaviy	🇺🇸	🟢	⋮
9	Компьютерный инженеринг (Мультимедийные технологии)_рус_2023	Foal	Masofaviy ta'lim markazi	Kompyuter injiniringi (Multimedia texnologiyalar)	8	2023-2024	Masofaviy	🇷🇺	🟢	⋮
10	Компьютерный инженеринг (AT-сервис)_рус_2023	Foal	Masofaviy ta'lim markazi	Kompyuter injiniringi (AT-servis)	8	2023-2024	Masofaviy	🇷🇺	🟢	⋮

Figure 1. The "Educational Process" section of the distance education management information system

Curriculum – In this section, each subject is systematically assigned and mapped to the overall curriculum framework. The credit hours and total allocated academic/ECTS hours are strictly defined, adjusted, and finalized for every course. This module encompasses 3 main functional capabilities:

- Search
- Filter
- Create New

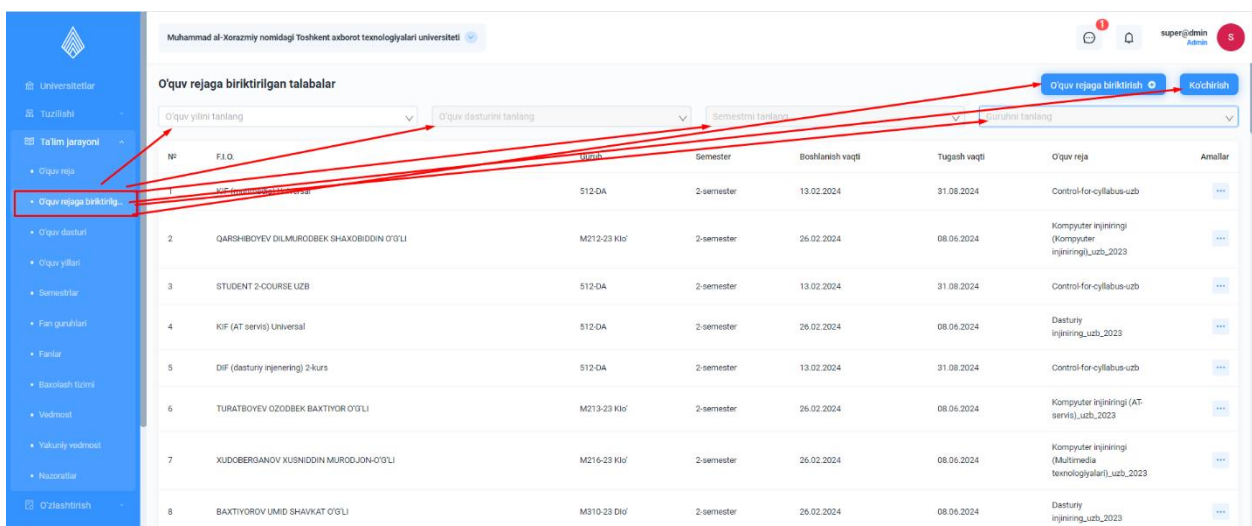


№	Nomi	Holati	Fakultet	Mutaxassisi	Semestr soni	Yillar	Talim shakli	Til	Tasdiq	Amallar
1	Control-for-cyllabus-rus	Fail emas	Masofaviy ta'lim markazi	Kompyuter injiniringi (Kompyuter injiniringi)	8	2023 - 2024	Masofaviy	🇷🇺	🔘	⋮
2	Control-for-cyllabus-uzb	Fail	Masofaviy ta'lim markazi	Kompyuter injiniringi ("Kompyuter injiniringi", "AT-Servis", "Multimedia texnologiyalari")	8	2023 - 2024	Masofaviy	🇺🇸	🔘	⋮
3	Компьютерный инжиниринг:Мультимедийные технологии_рус_2022	Fail	Masofaviy ta'lim markazi	Kompyuter injiniringi (Multimedia texnologiyalari)	8	2022 - 2023	Masofaviy	🇷🇺	🔘	⋮
4	Компьютерный инжиниринг:AT-servis_рус_2022	Fail	Masofaviy ta'lim markazi	Kompyuter injiniringi (AT-servis)	8	2022 - 2023	Masofaviy	🇷🇺	🔘	⋮
5	Компьютерный инжиниринг:Компьютерный инжиниринг_рус_2022	Fail	Masofaviy ta'lim markazi	Kompyuter injiniringi (Kompyuter injiniringi)	8	2022 - 2023	Masofaviy	🇷🇺	🔘	⋮
6	Kompyuter injiniringi:Multimedia texnologiyalar_uzb_2022	Fail	Masofaviy ta'lim markazi	Kompyuter injiniringi (Multimedia texnologiyalari)	8	2022 - 2023	Masofaviy	🇺🇸	🔘	⋮
7	Kompyuter injiniringi:AT-servis_uzb_2022	Fail	Masofaviy ta'lim markazi	Kompyuter injiniringi (AT-servis)	8	2022 - 2023	Masofaviy	🇺🇸	🔘	⋮

Figure 2. Curriculum module and its associated functions

Students Assigned to Curriculum – In this section, students are formally assigned and mapped to their respective curriculum pathways at the beginning of each academic semester. This module is segmented into 6 core functions and navigation options:

- Select Academic Year
- Select Study Program
- Select Semester
- Select Student Group
- Assign to Curriculum
- Transfer / Move



№	F.I.O.	Grup	Semester	Boshlanish vaqti	Tugash vaqti	O'quv reja	Amallar
1	QARSHIBOYEV DILMURDOBBAK SHAYOBIDDIN O'G'LI	M212-23 Klif	2-semester	13.02.2024	31.08.2024	Control-for-cyllabus-uzb	⋮
2	QARSHIBOYEV DILMURDOBBAK SHAYOBIDDIN O'G'LI	M212-23 Klif	2-semester	26.02.2024	08.06.2024	Kompyuter injiniringi (Kompyuter injiniringi)_uzb_2023	⋮
3	STUDENT 2-COURSE UZB	S12-0A	2-semester	13.02.2024	31.08.2024	Control-for-cyllabus-uzb	⋮
4	KIF (AT servis) Universal	S12-0A	2-semester	26.02.2024	08.06.2024	Dasturiy injiniring_uzb_2023	⋮
5	DIF (dasturiy injiniring) 2kurs	S12-0A	2-semester	13.02.2024	31.08.2024	Control-for-cyllabus-uzb	⋮
6	TURATBOYEV OZDOBBAK BAKTIYOR O'G'LI	M212-23 Klif	2-semester	26.02.2024	08.06.2024	Kompyuter injiniringi (AT-servis)_uzb_2023	⋮
7	XUDOBERGANOV XUSNIDDIN MURODJON O'G'LI	M216-23 Klif	2-semester	26.02.2024	08.06.2024	Kompyuter injiniringi (Multimedia texnologiyalari)_uzb_2023	⋮
8	BAKTIYOROV UMID SHAHAT O'G'LI	M310-23 Dlf	2-semester	26.02.2024	08.06.2024	Dasturiy injiniring_uzb_2023	⋮

Figure 3. Module for assigning students to specific curriculums

This section plays an indispensable role in maintaining systematic administrative control over the students' learning pathways, establishing accurate course enrollment mappings, and monitoring real-time academic progression.

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