[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

The program provides information on the basics of modern instrumentation and automation. The purpose of the subject is to give students a profound knowledge of the theoretical foundations of the control of measuring instruments and automation necessary for the conscious, durable mastery of the working profession. The program on the subject “Control of measuring instruments” is intended for students of a vocational educational institution, who recruit qualified workers for chemical enterprises in the profession of “Automation and control of technological processes of production”. To this end, the volume of technical knowledge envisaged by the program exceeds the requirements for the skill level for which the worker is preparing. For a more informed and durable mastering of knowledge, enhancing students' cognitive activity and developing their technical thinking in the course, a significant place is given to calculation and practical work with a focus on the production processes of the

2. Course Goals and Objectives (Approximately 100 words)

As a result of mastering the discipline, the student should be able to:
- take readings of instruments regulating the technological process;
- assess the accuracy of the information;
- to make a choice of automation of the technological process;
- control and regulate the parameters of the technological process;

As a result of mastering the discipline, the student should know:
- device mechanical and automatic means of technological processes control;
- principles of operation of mechanical and automatic process control tools;
- the essence and basis of the theory of production automation, classification of control systems;
- concept about technological process, objects of management;

3. Textbook (Title, Author, Publisher, Year of Publication, etc.)

1. Alan S. Moris, Riza Langari. O'lchash va asbobsozlik. -UK: Academic Press, 2016.-697s.
2. Yusupbekov NR, Muxamedov B.I., G'ulomov Sh.M. Texnologik jarayonni nazorat qilish va avtomatlashtirish. -Toshkent: uqituvchi, 2011. -576 b.
3. Yusupbekov HP, Muhamedov B.E., Gulomov Sh.M. Texnologist Jarayonlarni Boskarish tizimi. -Toshkent: ukituvchi. 1997. -704 b.

4. Reference

1. www.ziyonet.uz
2. www.elibrary-book.ru
3. www.books.ru/.../technologicheskie-izmereniya-i-pribory-dlya-khimiche
4. www.radiosovet.ru/. ../5815 -tehnologicheskie-izmereniya-i-pribor

5. Course Requirements and Grades

№	Indicator	OC ball	Max points range
1	Activity in practical classes	10	0-10
2	Independent work	15	0-15
3	test	10	0-10
	amount of score	35	0-35

6. Course Calendar

Week	Main Content
1	Introduction to the "Technological Apparatus of Control".
2	Measurement tools and systems.
3	Measurement errors.
4	Temperature control.
5	Liquid thermometers. Mechanical thermometers.
6	Thermoelectric thermometers and their operating principles. Types.
7	Extensible electrode wires.
8	Magnitoelectric millivoltmeters.
9	Potentiometers.
10	Resistance thermometers and ways to connect them.
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