[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

Methods and methods of welding processes, welding with welded electrodes, methods of increasing welding efficiency, devices and devices for welding; selection of parameters of welding regime and engineering methods of calculations.

Nowadays, the types of welding used in the current methods are to be used to restore the fastest caring details of cars and increase their resistance to ripeness. Because many of the eaten items are recovered by welding and welding, and their working surfaces form a layer of polishing, corrosion and other types of dehydration. In this case welding methods such as electric, gas, contact, induction, metallization, electrolytic, plasma coating are used.

2. Course Goals and Objectives (Approximately 100 words)

The aim of the course is to provide the students with the knowledge, skills and abilities that are relevant to the mechanization and automation of the welding and auxiliary process operations, which are the basis of the theory, technology and equipment of the theory of welding.

The purpose of the course is to teach students the methods and techniques of welding methods; welding with welded electrodes, welding methods of welding.

Melt forms a large part of the volume of welding and welding equipment used in technological processes.

Therefore, special requirements for welding equipment and technology are solved. This science is a basic discipline and is an integral part of the technological process of production.

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

1. Технология электрической сварки металлов и сплавов плавлением./ Под ред. акад. Б.Е.Патона. - М.: Машиностроение. 2004. - 767 с.
2. Абралов М.А., Эрматов З.Д., Дуняшин Н.С. Конспект лекций по дисциплине «Технология и оборудование сварки плавлением» для подготовки бакалавров. - Ташкент: ТашГТУ, 2008

4. Reference

1. Abralov M.A., Dunyashin N.S., Abralov M.M., Ermatov Z.D. Eritib payvandlash texnologiyasi va jihozlari – T.: Voris, 2007. - 416b
2. Сварка и свариваемые материалы: В 3-хт. Т 2. Технология и оборудование. Справочное издание /Под. ред. В.М. Ямпольского. - М.: Изд-во МГТУ им Н.Э. Баумана, 1998. - 574 с.
3. Технология и оборудование сварки плавлением. Учебник под редакцией Г.Д. Никифорова. - М.: Машиностроение, 1986. - 320 с.

5. Course Requirements and Grades

Course prerequisites:
Students should have the knowledge of "Higher mathematics", "Resistance of materials", " Theoretical mechanics", and "Drawing geometry".
Grading System:
Homework 15%
Design Project 15%
Mid-term Exams 35%
Final Comprehensive Examination 35%
Total 100%
5=86-100%
4=71-85%

6. Course Calendar

Week	Main Content
1	Suyuqlantirib payvandlash usullari mohiyati va tasnifi
2	Yoyli dastakli payvandlash (Yoyli dastakli payvandlash mohiyati va rejimlari)
3	Yoyli dastakli payvandlash (Yoyli dastakli payvandlash uchun metall qoplam
4	Yoyli dastakli payvandlash (Yoyli dastakli payvandlash texnologiyasi)
5	Yoyli dastakli payvandlash (Yoyli dastaki payvandlashning ishlab chiqarishin
6	Flyus ostida payvandlash (Flyus ostida payvandlash mohiyati va rejimlari)
7	Flyus ostida payvandlash (Flyus ostida payvandlash uchun jihozlar)
8	Flyus ostida payvandlash (Flyus ostida payvandlash texnologiyasi)
9	Himoya gazlar muhitida payvandlash (Himoya gazlar muhitida payvandlash
10	Himoya gazlar muhitida payvandlash (Himoya gazlar muhitida payvandlash
11	Himoya gazlar muhitida payvandlash (Himoya gazlar muhitida payvandlash
12	Elektr-shlak payvandlash (Elektr-shlak payvandlash mohiyati va rejimlari)
13	Elektr-shlak payvandlash (Elektr-shlak payvandlash texnologiyasi va jihozlar
14	Lazerli payvandlash