[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

Quarries are made of details and materials, which involve a variety of ingots in the form of sketches. In the process of casting, the necessary details are only obtained by the injection method. This is particularly important in the case of large sizes and weights, as well as in the preparation of complex shapes or the plasticity of the alloy is small and can not be worked under pressure. Approximately 50% of all the details in the machine-building are obtained by casting. For example, for the construction of the tile, the copy of this sump and the syringe needed to form the hole in the sump are then molded and sterge in the sterge container. The molding channels are opened, the sterge is adjusted, and the mold is filled with liquid metal. After removal of the metal, the mold is broken down, the pouring is taken, the excess spots are cut and cleaned and the cast becomes ready. Thus, the technology of producing various bulk materials in casting workshops includes the following processes: a) coating the fire

2. Course Goals and Objectives (Approximately 100 words)

The aim of the course is to teach the students the theoretical foundations of technical knowledge, basic concepts and laws of conjugation, and the ability to apply them in practice. In order to achieve this goal, students fulfill the tasks of forming a scientific approach to theoretical knowledge, practical skills, technical phenomena and processes, as well as forming the scientific outlook. Requirements for students' knowledge, skills and abilities. Use of advanced and up-to-date teaching methods, knowledge of new information and pedagogical technologies, virtual stands, and use of mock-ups and tools in working condition to master the design and production of bulk products.

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

1. S.A.Rasulov, V.A.Grachev. Quymakorlik metallurgiyasi, Toshkent, 2004 y.
2. A.A.Brechko, Velikanov G.F. Formovochnr e i sterjnevr e smesi, L.Mashgiz, 1982 g.
3. Titov V.G. i Stepanov A.A. Texnologiya liteynogo proizvodstva. M.Mashgiz. 1985 g.
4. A.V.Kurdyutov, M.V.Pikunov, V.M.CHursin. Liteynoe proizvodstvo svetnr x i redkix metallov., M.Metallurgiya, 1982 g.
5. Mixaylov A.M. i drugie. Liteynoe proizvodstvo. M. Mash. 1989 g.
6. Titov V.G. i Stepanov A.A. Texnologiya liteynogo proizvodstva. M.Mashgiz. 1985 g.
7. Mirboboev V.A. Konstruksion materiallar texnologiyasi, T., «O‘zbekiston», 2004 yil.

4. Reference

1. John Campbell Complete Casting Handbook first edition 2011 y.
2. V.A. Mirboboev, Konstruksion materiallar texnologiyasi.-T.: “Fan va texnologiya” nashriyoti, 2012-yil
3. Saydaxmedov R.X,Kadr rbekova K.K,Fetisov G.P.,Norxudjaev F.R. “Aviatsionnoe materialovedenie”-T.: “Fan va texnologiya”,2012-yil
4. Vukota Boljanovic “Metal shaping processes” 2009 y.
5. Smykov A.F., Moiseyev V.S. “Liteynoe proizvodstvo” Moskva 2015 g.

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	Quyma mahsulotlarni loyihalash va ishlab chiqarish faniga kirish
2	Quyma mahsulotlarni loyihalash va ishlab chiqarish fanning rivojlanish tarixi
3	Qolip va o‘zak aralashmalari
4	Opokalarda va yerda qo‘lda qoliplash usullari
5	Quymalarni mashinada qoliplash
6	Quymani gaz hosil qiluvchi moslama (model) yordamida olish
7	ni tayyorlash, yig‘ish, unga suyuq metall quyish va qolipni sovutish operatsiy
8	Qolipga suyultirilgan metallni quyish va quymani sovutish texnologiyasi
9	Qolip va o‘zaklarni urib sindirib chiqarish
10	Qolip va o‘zak aralashmalarini tanlash
11	Quyma sirtlarining sifati
12	Quyma mahsulotlarini loyihalashning asosiy prinsiplari
13	Quyish moslamasi anjomlari
14	Kerakli ko‘rinishda va o‘lchamda quymalar olish