[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

This knowledge, acquired over approximately the past 100 years, has empowered them to fashion, to a large degree, the characteristics of materials. Thus, tens of thousands of different materials have evolved with rather specialized characteristics that meet the needs of our modern and complex society, including metals, plastics, glasses, and fibers. The development of many technologies that make our existence so comfortable has been intimately associated with the accessibility of suitable materials. An advancement in the understanding of a material type is often the forerunner to the stepwise progression of a technology. For example, automobiles would not have been possible without the availability of inexpensive steel or some other comparable substitute. In the contemporary era, sophisticated electronic devices rely on components that are made from what are called semiconducting materials.

2. Course Goals and Objectives (Approximately 100 words)

The main intention of the course is to teach young specialists how and with which technology to take details from polymeric composite materials using automobile building, and the properties, kinds, constructions of the polymeric composite materials.
The course of polymeric composite materials teach for the students of the specialization "5320100- Materialshunoslik and technology of new materials" as special course.
This course can give us to know grow up the base of the row materials to take plaster parts and properties of technologies and exploitation compositions.

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

Umarov E.O. Materialshunoslik. Darslik. -T.: "CHo'lpon". 2014.
Norxudjaev F.R. Materialshunoslik. Darslik. - T.: Fan va texnologiyalar. 2014.
Umarov E.O. "Materialshunoslik" o'quv fanidan laboratoriya va amaliyot ishlari o'quv qo'llanmasi. -T.: "Iqtisod-Moliya", 2015.
Umarov E.O. "Konstruksion materiallar texnologiyasi" o'quv fanidan laboratoriya va amaliyot ishlari o'quv qo'llanmasi. - T.: "Tafakkur bo'stoni", 2015.

4. Reference

Mirboboev V.A. "Konstruksion materiallar texnologiyasi" Darslik. - T.: "O'zbekiston", 2004.
Nosir I. "Materialshunoslik". Darslik. - T.: "O'zbekiston", 2002.

5. Course Requirements and Grades

Course prerequisites:
Students should have some background in Chemistry, Mathematics, Physics.
Grading System:
Homework 15%
Design Project 15%
Mid-term Exams 35%
Final Comprehensive Examination 35%
Total 100%
5=86-100
4=71-85
3=55-70

6. Course Calendar

Week	Main Content
1	KONSTRUKTSION PLASTMASSALAR, POLIMERLARNING STRUKTURA
2	ASOSIY TUSHUNCHALAR – TO'LDIRUVCHILAR, POLIMERLI ASOSLAR,
3	DISPERSLI (KUKUNSIMON) TO`LDIRUVCHILAR, TURLARI VA ASOSIY X
4	TOLASIMON TO`LDIRUVCHILAR, TURLARI VA ASOSIY XOSSALARI
5	LISTSIMON TO`LDIRUVCHILAR, TURLARI VA ASOSIY XOSSALARI
6	HAJMIY TO`LIRUVCHILAR, TURLARI VA ASOSIY XOSSALARI
7	GAZSIMON TO`LDIRUVCHILI PLASTMASSALAR, TURLARI VA ASOSIY X
8	TO`LDIRUVCHI VA BOG'LOVCHI TURIGA QARAB POLIMERLI KOMPOZI
9	POLIMER KOMPOZITSION MATERIALLARNING TEXNOLOGIK VA EKSPI
10	POLIMERLARNI TO'LDIRUVCHLAR BILAN O'ZARO TA'SIRINING NAZARI
11	POLIMER KOMPOZITSION MATERIALLARNING ASOSIY XOSSALARI VA
12	POLIMER KOMPOZITSION MATERIALLARNING TEPLOFIZIK VA ELEKTI
13	POLIMER KOMPOZITSION MATERIALLARNING MEXANIK VA TRIBOTE
14	MATERIALLARNING ISHQALANISHI VA EYILISHI HAQIDA ASOSIY VA N