# [A-3]COURSE SYLLABUS

## 1. Course Description (Approximately 100 words)

Hoisting-and-transport cars are the major equipment for mechanisation of works in all branches of a national economy — in mountain The industries, building, on transport, in the agricultural Manufacture; are applied to moving of cargoes and people on the short Lines in vertical, horizontal and inclined directions.The correct choice of the hoisting-and-transport equipment influences on Normal work and high efficiency of manufacture. It is impossible to provide Its steady rhythm at a modern step of an intensification without Co-ordinated and non-failure operation of modern means of mechanisation Intrashop and intershop transportation of raw materials, half-finished products and Finished goods at all stages of processing and warehousing.Modern high-efficiency load-lifting cars, Working with the big speeds and possessing the high Load-carrying capacity, grow out of gradual development of these cars in Current of long time.

## 2. Course Goals and Objectives (Approximately 100 words)

Hoisting machines (GPM) are characterized by the following main features:
• mandatory presence of lifting motion;
• the possibility of transportation of various cargo;
• the ability to communicate the cargo of various individually.
Controlled movements are not necessarily permanent spatial path:
• Possible lack of permanent loading and unloading places cargo;
• Periodicity or cyclic operation.
Lifting machines (GPM) ensure the mechanization of all lifting and installation and a significant part of reloading operations on construction site. They are also serviced by production processes in repair and other shops.
Hoisting machines are machines of discontinuous (cyclic) action and are characterized by the

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

1. Davidbaev B.N. va boshqalar. Yuk ko'tarish mashinalari va mexa-nizmlari. Toshent. 2007 y., - 245 b.
2.Davidboev B. Ko'tarish-tashish mashinalarini loyihalash. Tokshent, 2001 y. 382 bet.
3.Александров М.П. Подъёмно-транспортные машины. - М.: Машиностроение, 1985.

## 4. Reference

1.Рогов П.А., Торговицкий А.Ф. Курсовое проектирование подъёмно- транспортных машин. - Т.: Укитувчи, 1983.
2. Додонов Б.П., Лифонов В.А. Грузоподъемные и транспортные устройства. М.: Машиностроение, 1984.

## 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

## 6. Course Calendar

| Week | Main Content |
|---|---|
| 1 | Kirish. Yuk ko`tarish transportlari va transport mashinalari va mexanizmlarin |
| 2 | Yuk ko'tarish mashinalari xisoblash asoslari. |
| 3 | Yuk ko'taruvchi egiluvchan elementlar. |
| 4 | Yuk osish organlari. Polispastlar, barabanlar, bloklar, yulduzchalar. |
| 5 | Tormozlash qurulmalari. |
| 6 | Yuk ko'tarish–tashish mashinalari yuritmalari |
| 7 | Yuk ko'tarish mexanizmi. |
| 8 | Strela qulochini o'zgartirish mexanizmi |
| 9 | Harakatlanish mexanizmi |
| 10 | Burish mexanizmi |
| 11 | Tortuvchi elementli tashish mashinalari. |
| 12 | Tortuvcni elementsiz tashish mashinalari. |
| 13 | YKTva TMM lari bilan ishlashda xavfsizlikni ta'minlash |
| 14 | Ko'tarish- tashish ishlarini kompleks mexanizatsiyalash va avtomatlashtirish |