Tárgytematika / Course Description

Internal Combustion Engines II.

AJNM_BMTA020

Tárgyfelelős neve / Teacher's name: dr. Tóth-Nagy Csaba
Félév / Semester: 2017/18/1
Beszámolási forma / Assesment: Vizsga
Tárgy heti óraszáma / Teaching hours(week): 2/0/2
Tárgy féléves óraszáma / Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

Students will analyze the functionand and loading of the engine components, their materials and and manufacturing processes. Based on that analysis students will examine ICE architectures and and desing valiations.

TANTÁRGY TARTALMA / DESCRIPTION

1.week: Engine block function and loading
2.week: Engine block architecture and design
3.week: Engine block materials and manufacturing processes
4.week: Cylinder head function and loading
5.week: Cylinder head architecture and design
6.week: Cylinder head materials and manufacturing processes
7.week: Slider crank mechanism function and loading
8.week: Slider crank mechanism ballancing
9.week: Slider crank mechanism architecture and design
10.week: Slider crank mechanism materials and manufacturing processes
11.week: Bearing systems in ICEs
12.week: Lubrication in ICEs
13.week: Thermomanagement of ICEs
14.week: Summary

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD

exam, semester project, labor

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Kötelező irodalom:

John B. Heywood: Internal Combustion Engine Fundamentals, ISBN 0-07-028637-X, McGraw-Hill

Ajánlott irodalom:

Everything on the internet