

Tárgytematika / Course Description

Manufacturing Technologies of Modern Vehicles

AJNM_ATT016

Tárgyfelelős neve /

Teacher's name: dr. Tancsics Ferenc

Félév / Semester: 2022/23/1

Beszámolási forma /

Assesment: Vizsga

Tárgy heti óraszám /

Teaching hours(week): 2/0/0

Tárgy féléves óraszám /

Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

AIM OF THE COURSE

The students will get to know the basic definitions and methods concerning the manufacturing technologies in the automotive industry. We will introduce and analyse the leading technologies such as sheet metal forming, forging, and moulding. In frame of the seminars, the students will get practical experience via industrial case studies.

TANTÁRGY TARTALMA / DESCRIPTION

SCHEDULE OF THE SEMESTER

Week of the semester	Date	Topics
1 st	5 th Sept 2022	-
2 nd	12 th Sept 2022	Introduction <i>Basic concepts of metal forming</i>
3 rd	19 th Sept 2022	<i>Plasticity conditions</i> Access to Simufact Forming, Forming groups for the project tasks
4 th	26 th Sept 2021	<i>Forging and rolling techniques</i>

5 th	3 rd Oct 2022	<i>Sheet metal forming and forging techniques</i> Issuing project tasks
6 th	10 th Oct 2022	University Festival
7 th	17 th Oct 2022	<i>Additive technologies</i> Consultation
8 th	24 th Oct 2022	<i>Casting and powder metallurgy</i>
9 th	31 st Oct 2021	National Holiday
10 th	7 th Nov 2021	<i>Heat treatments and surface treatments</i>
11 th	14 th Nov 2021	<i>Simulation of manufacturing technologies used in the automotive industry</i>
12 th	21 nd Nov 2021	Consultation
13 th	28 th Nov 2021	Student presentations of the project tasks
14 th	5 th Dec 2021	Summary and conclusions (possibility to obtain better grades)

COMMUNICATION

Via neptun or harangozo.dora@sze.hu, tancsics@sze.hu.

The intentions for consultations are to be indicated on the above addresses.

MANAGEMENT OF INTELLECTUAL PROPERTY

Written documentations, drawings, presentations, data acquisition and models prepared by the students are belonging to the intellectual property of the Department and can be used on

educational purposes. Plagiarism is not compatible with the rules of the University and cannot be accepted: the contravention of the academic decency connotes in disqualification of the course and disciplinary proceedings.

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD

METHOD OF ASSESMENT

The condition of getting the signature is to present a project task.

The student owning the signature can apply for an exam. The exam will take place in written form. The evaluation of the exam test is the following:

50 – 65 % 2

66 – 75 % 3

76 – 85 % 4

86 – 100 % 5

The students can get offered grades (4 and 5) based on the presentations on 13th -14th week.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

LITERATURE

Obligatory: szelearning.sze.hu / Manufacturing Technologies of Modern Vehicles