

Mechanical and Hydraulical Transmissions

Subject area: Mechanical Engineering

University:	CTU
Level:	MA all years
Teaching mode:	blended: mostly online, but presence on campus required in certain period
Instructor(s):	Gabriela Achtenová

Short description

The topic covers the basics of all types of gearboxes used in motor vehicles: mechanical gearboxes, automatic planetary gearset transmissions, CVT/IVT, hydrodynamic and hydrostatic transmissions.

Full description

<http://bilakniha.cvut.cz/en/predmet1527306.html>

Learning outcomes

Understand, analyses, design the transmissions used in past and nowadays in motor vehicles

General information

Contact hours per week:	6
Total workload:	150 (in student hours for the whole course)
ECTS credits:	6
Language:	English

Course start date: 19 September 2022

Course end date: 15 January 2023

Add. info about start date: Start course date refers to start of the semester at CTU. Schedules will be available 1-2 weeks before semester starts. Lectures are taken place from 19.9.2022 until 15.1.2023. Examination period from 16.1.2023 until 19.2.2023.

Weekly teaching day/time:

Time zone: CET (Denmark, Germany, France, Netherlands, Switzerland, Czech Republic)

Further information:

Prerequisites: none

Activities and methods: Lectures, Lab-work, Exercises

Presence on campus: Presence in campus: minimum 2 consecutive days (monday+tuesday) dedicated for laboratory exercises. If for any reason the presence on campus will not be possible – the assignments will be provided. Possibility to extend the stay up to 5 days. Exact date of being in campus in person will be advised – planned in December before Christmas.

Final examination

Form: written

Date:

Location/format:

Re-sit possibility: yes

Transcript available: end of semester

Add. info/requirements: The work during semester is assessed with help of 5 assignments. The acquisition of assessment is necessary condition to register to exam.

Registration

To register for this course, follow the registration requirements of your **home university** as specified here: www.euroteq.eu/courses-registration.

Administration

Number of places: 20

Minimum participants: 5

Internal course code: E211124

Contact: gabriela.achtenova@fs.cvut.cz

This course is part of the EuroTeQ Engineering University joint course catalogue 2022/2023. This is a collaborative activity of the partner universities DTU, L'X, TU/e, TalTech, CTU, TUM as well as Technion. Students from these universities can participate in the offered courses. It is the responsibility of the student to check if you fulfil the requirements to participate in a specific course. Students are also advised to check with their home institution how to get recognition of the ECTS credits gained in courses of the EuroTeQ course catalogue. For further information about EuroTeQ Engineering University, visit www.euroteq.eu or get in touch with the above-mentioned point of contact.