

Tárgytematika / Course Description
Road operation and maintenance**EKNB_KETA011****Tárgyfelelős neve /****Teacher's name:** Nagy Richárd**Félév / Semester:** 2025/26/1**Beszámolási forma /****Assesment:** Vizsga**Tárgy heti óraszám /****Teaching hours(week):** 2/1/0**Tárgy féléves óraszám /****Teaching hours(sem.):** 0/0/0**OKTATÁS CÉLJA / AIM OF THE COURSE**

Students acquire knowledge about the concept and tasks of road operation and the organizational structure of road operation. Students learn the theoretical conditions and possibilities of techniques that can be applied in road operation. Students will learn about the systematic approach to road management and its application at the network and facility levels. They will learn about the various condition assessment and evaluation systems and their characteristics. Students will learn how to select and apply the appropriate road maintenance intervention technologies. They will learn about the procedures and methods for dimensioning and designing track structure reinforcement and widening. They will learn about the conditions and possibilities for applying various recycling technologies.

TANTÁRGY TARTALMA / DESCRIPTION**Témakör név: General description**

Témakör leírása: Roads, motorways, and municipal road management organisations. Operational tasks. Information system Road inspection, data collection, condition assessment, and monitoring Summer road maintenance tasks, vegetation management, and road accessory maintenance Winter road maintenance. Anti-skid measures, snow protection, snow removal Environmental protection tasks. Noise protection, types of noise barriers, design considerations Pavement Management System (PMS) and its subsystems, their operation. Cost structures in PMS Characteristic parameters of pavement condition. Evaluation and changes in pavement condition Evaluation of pavement condition. Surface characteristics Evaluation of pavement condition. Load-bearing characteristics Dimensioning and design of track structure reinforcement and widening Maintenance of asphalt pavements. Defects and their causes. Repair, maintenance and renovation procedures Maintenance of concrete pavements. Defects and their causes. Repair, maintenance and renovation procedures On-site recycling and reuse during maintenance

Témakör kulcsszavai:

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD**Számonkérési forma:**

Vizsga (Exam)

Kötelező félévközi zárthelyik (oktató által javított)

Mérték: 2 db (PCS)

Leírás: Midterm exams
Kötelező: Nem
Becsült Idő: 2 óra

Aláírás kialakításának módja:

At least a satisfactory grade in all midterm exams.

Érdemjegy kialakításának módja:

It is calculated based on the average of the midterm exam grades.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL