

Tárgytematika / Course Description Formal Languages and Automata

GKNM_INTA055

Tárgyfelelős neve /

Teacher's name: dr. Kallós Gábor

Félév / Semester: 2023/24/1

Beszámolási forma /

Assesment: Vizsga

Tárgy heti óraszám /

Teaching hours(week): 4/0/0

Tárgy féléves óraszám /

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

OKTATÁS CÉLJA / AIM OF THE COURSE

Introducing the theory formal languages, the related tools and their possible applications.

TANTÁRGY TARTALMA / DESCRIPTION

Formal language basics (weeks: 1-2)

Regular languages, and corresponding tools: RE, DFA, NFA, RG (weeks: 3-8)

Context-free languages and corresponding tools: CFG, PDA (weeks: 9-12)

Recursive, recursively enumerable languages, Turing machines (week: 13)

Applications

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD

Two mid-semester tests (offered grade in good cases), planned for week 8 and week 13

Exam

To get the signature, students are expected to being present in 50% of the lessons (at least), and to write at least one mid-semester test.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

https://books.google.hu/books/about/Elements_of_the_Theory_of_Computation.html?id=TuFQAAAAMAAJ&redir_esc=y

AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL