



Tárgytematika

EÖTVÖS LORÁND TUDOMÁNYEGYETEM

BTK Logika Tanszék
(BTK-LOGIKA-T02)

2021/22/1

Tárgynév: **Metaphors in Mathematics**
Tárgykód: **BMA-LOTD-317.01**
Tárgyfelelős neve: **Máté András Dr.**
Tárgy követelménye: **gyakorlati jegy (5)**
Tárgy heti óraszám: **0/2/0**

Oktatás célja:

To study the phenomena of metaphors in mathematics

Tantárgy tartalma:

We will seek to identify several, often implicit metaphors of some fundamental mathematical notions. In addition, some questions we will address: Are/Were these metaphoric images necessary for the creation of these mathematical concepts? What, if anything is left of mathematical activity if mathematicians are not allowed to use metaphoric thinking? That is—how necessary are metaphors for the working mathematician? Even more subtle—how necessary are metaphors for mathematical theory?

As a bonus we will try to find the metaphoric counterparts for some basic notions in Category Theory. Also, the work in this course will ask for creative input from the students as we will be discovering mathematical metaphors together.

Számonkérési és értékelési rendszere:

Oral exam

Kötelező irodalom:

Where Mathematics Comes From by George Lakoff and Rafael E. Núñez.