

## המחלקה למתמטיקה

סמסטר 16-2015-ב

שם הקורס מבוא לדינמיקה סימבולית

עמוד הקורס ברשת

[https://www.math.bgu.ac.il/~mtom/symbolic\\_2016/symbolic\\_spring\\_2016.html](https://www.math.bgu.ac.il/~mtom/symbolic_2016/symbolic_spring_2016.html)

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שעות קבלה <https://www.math.bgu.ac.il/he/teaching/hours>

### תקציר

#### דרישות והרכב ציון הקורס<sup>1</sup>

characters of sequences with deals that mathematics of branch a is dynamics Symbolic  
basic The systems. dynamical of view of point the form "symbols" or letters  
complicated understand and code to possible is it sometimes that is philosophy guiding  
numbers real of expansion decimal The samples. discrete of sequence a by systems  
symbolic from ideas and Techniques procedure. of kind this of example simple a is  
transmission and storage data in applications significant found have dynamics  
basic introduce will we course this In mathematics. of parts other as well as  
will We examples. interesting via dynamics, symbolic in results and notions  
of frameworks general more the to relate and fields other to relations illustrate  
brief A covered: be to topics Basic theory. ergodic and dynamics topological  
finite of Shfits Languages and spaces Shfit dynamics topological to introduction  
endomorphisms codes, block sliding and automata Cellular shfits sofic and type  
topics additional Possible entropy Topological spaces. shfit of automorphisms and  
Krieger's preferences): participants and background participants time, to (subject  
finite of shfits for problem isomorphism the On theorem embedding topological  
spaces shfit Multidimensional equivalence) shfit and equivalence shfit (strong type  
notions the study and introduce will We groups. countable over spaces shfit and  
prerequisite formal The Recurrence Ergodicity, transformations, Measure-preserving of  
as (such fields other in background The theory. measure of knowledge basic is  
will but prerequisite, a not is probability) and analysis harmonic and functional  
needed. as introduced be

<sup>1</sup>דרישות הקורס יכולות להשתנות במהלך השבועיים הראשונים של הסמסטר, ויש לשים לב להודעות באתר הקורס



נושאי לימוד