אוניברסיטת
בן-גוריון בנגב

The Department of Mathematics

2015–16–A term

Course Name Advanced topics in complex variables

Course Number 201.2.2051

Course web page
https://www.math.bgu.ac.il//en/teaching/fall2015/courses/advanced-topics-in-comp

Office Hours https://www.math.bgu.ac.il/en/teaching/hours

Abstract

Requirements and grading[1]

Course topics

- Some review of complex variables

- Hilbert spaces of analytic functions. General theory

- Bergman space

- Hardy spaces

- Fractional Hardy space and sefl similar systems

- Bargmann-Fock space and second quantization

- Banach spaces of analytic functions.

- Frechet spaces and Schwartz spaces

- Proof of Riemann's mapping theorem

- Dual of the space of functions analytic in a given open set

- Gefland triples and applications

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[1]Information may change during the first two weeks of the term. Please consult the webpage for updates