

The Graduate Center of CUNY Ph.D. Program in Mathematics Course Syllabus

Course Title: Functions of a Complex Variable II
Course #: MATH 70400
Time and Location: Wed. & Fri. 12:00PM - 1:30PM
nstructor Name: Sudeb Mitra
Contact Information: Sudeb.Mitra@qc.cuny.edu
Pre-Requisites: TBA
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Office Hours: TBA

Description:

Here is a list of topics we plan to cover:

(i) Analytic continuation and the monodromy theorem (ii) Mittag-Leffler's theorem and Weierstrass's theorem (iii) Harmonic functions, Poisson's formula, Harnack's principle, and The Dirichlet Problem (iv) Introduction to Elliptic Functions (v) Introduction to Riemann surfaces and (vi) Introduction to Quasiconformal Mappings.