

DEPARTMENT OF MATHEMATICS,

UNIVERSITY OF KARACHI,

Course Outline

MATH 643: COMPLEX ANALYSIS - I

Course contents:

Zeros and poles. Poisson-Jensen formula. Analytic continuation. Lindeloff extension. Integral functions. Picard's theorem.

Books Recommended:

1. Boas, R. P., Entire Functions, Academic Press, 1989.
2. Hayman, W. K., Meromorphic Functions, C.U.P., 1960.
3. Titohmarsh, E. C., Theory of Function, C.U.P., 1987.
4. Markushevick, A. I., Theory of Functions of a Complex Variable, Vol. II, Prentice Hall, 1965.
5. Sharma, S. C., Complex Integration, First Edition, Discovery Publishing House, New Delhi, 2007.