

MBY0015

UNIVALENT FUNCTIONS I
SPRING 2013/14

INSTRUCTOR: Yaşar Polatoğlu, İstanbul Kültür University, DMCS

TIMETABLE: To be announced

CONTACT: (İKÜ, DMCS) AK/3-A-03/05, y.polatoglu@iku.edu.tr, +90 (212) 498 46 14

ASSESSMENT: Homework assignments and a final exam.

PRE-REQUISITES: Acquaintance with the basics of Complex Analysis.

PRINCIPAL TEXTBOOK: P.L. Duren, *Univalent Functions*, Springer-Verlag, New York, 1983

PROGRAMME

WEEKS	SUBJECTS TO BE COVERED
1 & 2	Geometric Function Theory
3 & 4	Elementary Theory of Univalent Functions
5 & 6	Elementary Theory of Univalent Functions
7 & 8	Parametric Representation of Slit Mappings
9 & 10	Parametric Representation of Slit Mappings
11 & 12	Generalizations of the Area Principle
13 & 14	Generalizations of the Area Principle
Will be announced	Final Examination

SUGGESTED READING:

- A.W. Goodman, *Univalent Functions, Vol 1 & Vol 2*, Mariner Publishing, Tampa, Florida, 1983.