

Syllabus for
cmpe556 Complex Networks

3 (3+0+0) ECTS 6

2017 Spring

Catalog Definition

Random, Regular, Scale-Free, Small-World networks. Empirical studies, metrics, models and applications of Complex Networks. Clusters, Community Detection, Same Complex Networks: Social, Biological Networks, Internet, WWW.

Web Site

<http://www.cmpe.boun.edu.tr/courses/cmpe556>.

General Information

Instructor:	Haluk O. Bingol
TA:	none
Student TA:	none
Course Schedule:	WWW 678 @BM A6
PS Schedule:	none

Grading

Midterm:	25 %
Final (Project):	40 %
Student evaluations:	10 %
Attendance and Contributions:	10 %
Questions:	15 %

Text Book

- none

Reference Books

- Networks - An introduction, Newman, *Oxford*, 2010

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- The Structure and Dynamics of Networks, Newman, Barabasi and Watts, *Princeton*, 2006, [TK5105.5 .N485 2006]

Course Outline

Course is based on paper reading, presentations and discussions. A term project is designed, implemented, presented and a paper is written.