# CS 403 Algorithm Design & Analysis Lab
# Assignment 5

- Submit a report (with full explanation of your algorithm's running time and complexity) along with the codes and read me file in a zipped folder. The report should be in PDF format as a single document. If you want to assume something during coding, then mention in your report.
- The deadline of submission is 11:59 am 25 April 2018 . Late submissions will have penalty of 15% per day (that is 15% per day will be reduced on the score you achieve as the late submission penalty).
- You have to do code for all questions and give a good explanation in your report. Your reports would be evaluated thoroughly. Please provide pseudo codes in report.
- We will provide test data sets at the time of evaluation. In that case, your code should be well generalized. Analyze your codes with different test sets during implementations of algorithms.
- Submit your assignments only to coursetacs403@gmail.com

1) Implement an algorithm to find maximum flow by choosing good augmenting paths (Scaling Algorithm, see section 7.3 of the textbook).

2) Implement max-flow algorithm to find a matching in a graph of largest possible size (see section 7.5 of the textbook).

3) Implement an algorithm to solve the directed edge-disjoint paths problem (see section 7.6 of the textbook).