NUS
National University
of Singapore

MA4198 PROJECT PROPOSAL (PROJECT CUM SEMINAR GROUP)

SUPERVISOR'S INFO

Name:	Chu Delin
Email:	matchudl@nus.edu.sg
Tel number:	65166912
Office location:	S17-08-03

PROJECT ID: PS2410-03

TITLE

Basic methods for solving nonlinear equations

BRIEF DESCRIPTION OF PROJECT

The nonlinear equations of the form f(x) = 0 have found many important real applications. So, finding a solution for equation f(x) = 0 is an important problem. In this project, some basic numerical methods for solving nonlinear equations will be reviewed and numerical experiments will be conducted to compare the numerical performances of such methods.

EXPECTATION/S

By this project the student shall have a deep understanding how the nonlinear equations can be solved by some simple numerical methods.

PREREQUISITE/S (at level 3000 or below, with at most one course at level 3000)

MA2213 and MA3227

READING REFERENCE/S

R.L. Burden and J.D. Faires. Numerical Analysis, Brooks/Cole Publishing Company.