

**Instructor:** Siva Athreya

**Office:** A 12.

**Texts:**

1. A. Ralston and P. Rabinowitz : *First Course in Numerical Analysis*
2. R.J.Schilling and S.L.Harries : *Applied numerical methods for engineers using MATLAB and C.*
3. G. Recktenwald : *Numerical Methods with Matlab*

**E-Mail:** My e-mail address is [athreya@isibang.ac.in](mailto:athreya@isibang.ac.in). I will use the address that you gave me during your analysis class (last year) for the purpose of class e mail list. If that has changed then let me know.

**WWW-page:** I shall maintain a course home-page, at the following address:

<http://www.isibang.ac.in/~athreya/Teaching/nm>. The page should serve as an archive of handouts at the very least.

**Project:** Each of us *may* do an independent study project dealing with an application of numerical methods and submit a report. There will be a list of subjects to choose from. The project will be graded on the report's material content, amount studied and referenced, presentation and the results achieved. I shall keep you posted on this as the semester progresses.

**Exams:** There shall be two exams in the semester. The exact date will be announced by the student incharge's office. The week during which these will be held are:

**Midterm:** March 3rd-7th

**Final Exam:** 28th April - 2nd May.

**Homework:** There will be regular homework assignments during the semester. A selection of which will be required to be turned in. You are encouraged to work together on solving the problems but write up your own individual solutions.

**Quiz:** There will be a short test on Thursday (12:10-1:10) in the class. The test will have one question and will be essentially based out of the previous week's homework.

**Scoring:** Midterm 1 is worth 25 % of the grade. Final exam is worth 50 % of the grade. The quizzes(and Homework) consists of 25 % of the grade<sup>1</sup>

**Ground Rules:** No late home work will be accepted. No make up quizzes will be given. No entrance to class after one minute of start of lecture.

**Studying and Homework:** The course requires at least one and a half hour of study for each hour of class time. Homework will be announced in class and posted on the web. It is imperative that you try,(and write up solutions for), the homework problems *before* their respective due dates. The problems that will be given are a small selection so please do try other problems for practice from the text. You are encouraged to work together on solving the problems. We shall try to discuss the homework during one of the classes.

**Feedback:** Please feel free to drop by my office, to clear up difficulties or to just discuss mathematics. I would appreciate feedback from you as the course progresses. If there are suggestions/clarifications that you have then feel free to ask me.

---

<sup>1</sup>if you do a project then a suitable grading scheme will be designed