BIL 112E - Intr. to Prog. Language (Fortran)

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DAYS and HOURS:
Please visit http://www.sis.itu.edu.tr/tr/ders_programlari/LSprogramlar/prg.php?fb=BIL

OFFICE HOUR:
Please send an e-mail to arrange a personal visit. Feel free to visit my office for quick questions.

TOPICS:
1. Flowcharts and algorithms
2. Data types, variables, mathematical operations, basic input/output
3. Decision making, logical expressions
4. Loops
5. Modules, subroutines, functions
6. Array operations: vectors and matrices
7. File input/output
8. Basic programming exercises
9. Exercises with modules
10. Basic numerical methods

GRADING and NOTES:

Quiz Average	**20%**
Homework Average	**10%**
Midterm Exam	**30%**
Final Exam	**40%**

QUIZZES:
The course will be exercise-based. Therefore your attendance will be regarded as your quiz grade. The attendance will be taken at the beginning of the first hour.

HOMEWORK ASSIGNMENTS:
Homework assignments will be given via NINOVA. **Belated/e-mailed assignments will not be accepted**. You must upload your homework to NINOVA before the deadline. All assignments **showing an effort for the solution** will be **fully** graded.

MIDTERM EXAM:
There will be one midterm exam.

REFERENCES:

- *Programming in F*, T.M.R. Ellis, I.R. Philips, Addison-Wesley (1998)
- *Modern Fortran Explained*, M. Metcalf, J. Reid, M. Cohen, Oxford University Press (2011)
- *Numerical Analysis*, R.L. Burden, J.D. Faires, Brook/Cole Publishing Co. (1997)
- *Computational Physics*, R.H. Landau, M.J.P. Mejia, John Wiley & Sons, Inc. (1997)

OTHER:
- The students are **required** to check the **NINOVA** system on a daily basis. All the announcements made via NINOVA will be considered as read and understood by the students.