

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

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DAYS and HOURS:

Please visit <https://www.sis.itu.edu.tr/TR/ogrenci/ders-programi/ders-programi.php?seviye=LS>

OFFICE HOUR:

Please send an e-mail to arrange a personal visit.

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	30%
Term Project	30%
Final Exam	40%

The students should gather at least 20 points (/60) from the in-term assessments in order to get the final exam. Otherwise, the grade will be VF.

QUIZ ASSIGNMENTS:

The students will be free to **cooperate** in quiz assignments and working with a friend will be encouraged. Quizzes will be assigned on NINOVA. **Belated and e-mailed assignments will not be accepted.** You must upload your quiz to NINOVA before the deadline. All assignments **showing an effort for the solution** will be **fully** graded.

TERM PROJECT:

There will be one term project.

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.