

# Mathematics II

This course is intended for foreign students studying at our faculty and domestic students who registered it. Conditions and requirements of this course are identical to the course in Czech and governed by the same rules.

## Content:

Functions of several variables - domain, limit, continuity, partial derivatives, extremes, implicit function Multiple integrals - double and triple integral, Fubini's theorem, applications Line integral, surface integral, Gauss theorem, potential.

- [Preliminary plan](#) of lectures in academic year 2015/16

## Lecturers

[prof. RNDr. Gejza Dohnal, CSc.](#), Office: KN:B-205

- lectures: Monday, 2:15 - 3:45 p.m. and 4:00 - 5:30 p.m.

[RNDr. Tomáš Neustupa, Ph.D.](#), Office: KN:B-214

- lectures: Tuesday, 2:15 - 3:45 p.m. and Friday 9:00 - 9:30 a.m.

## Literature:

- Neustupa, J., Kračmar S.: Mathematics II, CTU Publishing House, Prague, 1996,
- Finney, R. L., Thomas, G.B.: Calculus, Addison-Wesley, New York, Ontario, Sydney, 1994

## Web additional sources:

- [Paul's Online Math Notes](#) have gotten the notes/tutorials for Algebra, Calculus I, Calculus II, Calculus III and Differential Equations class online.
- [Just Math Tutoring](#) is a web site of Patrick from Vanderbilt University, who provide clear and thorough explanations, and to present them in an environment in which the student is comfortable.
- [The Math Insight](#) web site is a collection of pages and applets designed to shed light on concepts underlying a few topics in mathematics (see [Index](#))
- [Mathispoewr4u](#) tutorials. This site provides over 3,500 free mini-lessons and example videos with no ads. The videos are organized by course and topic.

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