Optimisation in Mathematics

ECTS : 4

Volume horaire : 36

Description du contenu de l'enseignement :

This subject tries to teach: - derive functions of one or two real variables - obtain notions of topology and its applications in IR^2 - know how to find stationary points and find their nature for functions of one or two real variables - know the Taylor formulas (first and second order) and their applications - know how to optimize functions of two real variables with explicit restrictions - pose and solve problems taken from an economic situation with a mathematical model.

Mode de contrôle des connaissances :

Grading Criteria	Midterm 1	25%	Midterm 2	25%
Final Exam	50%			

Bibliographie, lectures recommandées :

- Isabelle Cato, Ivan gentil, Geneviève Pons. Mathématiques - Éléments de calculs différentiels pour l'économie. , Ellipses

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