Optimisation in Mathematics

ECTS : 4

Langue du cours : Français

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%

Coefficient : 1.00

Bibliographie, lectures recommandées :

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

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Université Paris Dauphine - PSL - Place du Maréchal de Lattre de Tassigny - 75775 PARIS Cedex 16