



From Differential Calculus to Diffeology

November 20 - December 1, 2017

Galatasaray University, Istanbul, Turkey

A 12 hours course* by Patrick Iglesias-Zemmour, in the framework of the Program on Diffeology Studies, managed by Serap Gürer, sponsored by **Tubitak-Galatasaray** for the years 2016-17-18, and supported by the Consortium.

* <http://math.huji.ac.il/~piz/documents/AITD.pdf>

The course is made of 6 lectures of 2 hours each.

1. Smooth Functions, Tangent Linear Maps, Taylors Series...
2. Local Inversion And Constant Rank Theorems.
3. Convergence Of A Sequence Of Smooth Functions.



4. Diffeology: Spaces, Smooth Maps, Category.
5. Modeling Space, The Case Of Manifolds With Corners.
6. Powerset Diffeology: Diffeology Of Space Of Geodesics.

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