

## Course DMS B3: **Contact Mechanics and Elements of Tribology**

*V.A. Yastrebov, H. Proudhon*

*Centre des Matériaux, MINES ParisTech, PSL Research University, CNRS UMR 7633, Evry, France*

Day/Hours	9h00-10h30	10h45-12h15	13h30-16h30
Monday 11/02	Industrial applications	Mechanical contact	Flamant, Boussinesq, Cerutti (TD)
Tuesday 12/02	Contact and mechanics of materials	Contact at small scales: roughness	Numerical Integration of Flamant (TP)
Wednesday 13/02	Lubrication and sealing	Computational contact mechanics	Hertz contact (FEM) (TP)
Thursday 14/02	Wear and fretting (H. Proudhon)	Friction and adhesion	Frictionless and frictional contact (FEM) (TP)
Friday 15/02	Seminars	Elasto-plastic contact (FEM) (TP)	Written exam