

ICTP DIPLOMA PROGRAMME IN MATHEMATICS 2015-16

Differential Geometry

C. Arezzo (10 lectures : 15 hrs)

- 1) Definition and comments
- 2) Examples and vector bundles
- 3) Tensors
- 4) Covariant derivative
- 5) Levi-Civita Connection
- 6) Length and Energy of curves on a Riemannian manifold, Geodesics