## Introduction to differential geometry

- 1. Introduction: Gauss-Bonnet and deRham
- 2. DeRham cohomology
- 3. Smooth manifolds
- 4. Geometry of surfaces

## Literature:

- 1. Madsen, I., Tornehave J.: From Calculus to Cohomology, 1997
- 2. Hicks: Differential Geometry, 1965
- 3. Do Carmo: Riemannian Geometry, 1992
- 4. Hirsch: Differential Topology, 1976
- 5. Spivak: A Comprehensive Introduction to differential geometry I-V, 1975