



**Numerical Methods for  
Differential Equations**

building a common mathematical foundation

**Advanced Topics in  
Numerical Mathematics**

advanced subjects

**Scientific Computing I**

- fast methods
- multiscale problems

**Scientific Computing II**

- UQ
- high-dim. approximation
- data analytics

**Special Skills in  
Scientific Computing**

**Numerics / Scientific Computing**

**Applied Functional  
Analysis**

**Elective Modules  
from Applications  
(many choices)**

**Industrial internship**

**Modelling seminar**

**Modelling and Simulation**

# Modules

**Elective Modules**

- Algorithms and data structures
- Parallel and distributed systems
- High-performance computing
- Parallel algorithms

**Practical Course  
“Parallel Numerical Methods”**

**High-Performance Computing**