

---

## Structural integrity evaluation

### Finalità

Design of structures against fatigue and fracture and evaluation of the related mechanical properties will be dealt with in this module.

### Attività d'esercitazione

Class exercises. Use software for the assessment of the integrity of structures.

### Modalità d'esame

Written, plus presentation and discussion of a laboratory work.

### Propedeuticità

Comportamento Meccanico dei Materiali

### Testi consigliati

N.E. DOWLING "Mechanical behaviour of materials : engineering methods for deformation, fracture, and fatigue", Prentice Hall, 1999.

I.M. DANIEL, O. ISHAI, "Engineering mechanics of composite materials", Oxford University Press, 1994.

S. SURESH: "Fatigue of materials", Cambridge University Press, 1998.

T.L. ANDERSON: " Fracture mechanics: fundamentals and applications", 2.ed., CRC Press Boca Raton, 1995.