

# COMOON

## CONSTRUCTION ON THE MOON

**Blended Intensive Programme (BIP) at  
University "G. d'Annunzio" - Campus in Pescara (Italy)  
6-12 July 2026 - Total: 78 hours – 3 ETS**

### ***Theoretical lessons - on-line (38h)***

**Planetary Geology and Space exploration through Man and Robots (4h)**

- **Lunar and Martian habitat and Space Architecture (8h)**
- **Mineralogy and Petrography of rare elements (4h)**
- **Building structures through 3D printing (4h)**
- **Lava Cave Stability (2h)**
- **Rock Mechanics and Laboratory testing (2h)**
- **Structural mechanics (4h)**
- **Reliability Methods in Soils and Rocks (4h)**
- **Reliability Geological Models in Space (4h)**
- **Geotechnical problems in designing permanent lunar habitat (2h)**

### ***Practice Session – on site (24h)***

- **Geomorphological Analysis through GIS (4h)**
- **Multispectral data Analyses on GIS environment (4h)**
- **3D virtual reality (VR) headset to visualize scenes on the Moon (4h)**
- **Structural mechanics (4h)**
- **Reliability Methods in Soils and Rocks (4h)**
- **Reliability Geological Models in Space (4h)**

### ***In situ experience – on site (16h)***

- **One-day field trip to the site of a meteorite impact (8h)**
- **Using 3D printers in lab (4h)**
- **Lab tests on rocks (4h)**

**COMOON: a journey through science and innovation to build the future**