



## NAAB International Certification

### Appendix 1: Template for Course Descriptions [limit 1 page per course]

#### Number & Title of Course (total credits awarded):

TECH403 - Renovation and Conservation Technologies (Int+R) - Semester 7 - ECTS 6 - Cicle/Profile: 2nd. Cycle/Int.+Renov. - Scientific Area: AU-Architecture and Urbanism

#### Course Description (limit 25 words)

This course imparts critical skills for leading building conservation and rehabilitation, blending practical, conceptual, and theoretical knowledge with technical and sensitive execution.

#### Course Goals & Objectives (list):

Attain an integrated comprehension of building technologies alongside intervention methodologies relevant to architectural rehabilitation.  
Develop critical competencies for thorough evaluation of a building's structural and aesthetic condition.  
Formulate and implement effective, sustainable intervention strategies tailored to specific building conservation needs.  
Acquire management skills for overseeing post-rehabilitation maintenance, ensuring long-term durability and performance of structures.  
Cultivate an understanding of the balance between maintaining authenticity and applying modern conservation techniques.  
Enhance proficiency in employing environmentally responsible practices within the rehabilitation process to promote energy efficiency and material sustainability.

#### Student Performance Criterion addressed (list number and title):

Primary - A.3 Investigative Skills; B.7 Building Envelope Systems and Assemblies; B.8 Building Materials and Assemblies; Secondary - B.3 Codes and Regulations; C.1 Research;

#### Topical Outline (include percentage of time in course spent in each subject area):

Lecturing:35%  
Tutoring: 30%  
Site Visits: 5%  
Critics: 5%  
Investigative Work:25%

#### Prerequisites:

It does not have;

#### Textbooks/Learning Resources:

Addis, B. (2007). Building: 3000 Years of Design, Engineering and Construction. Phaidon Press.  
Appleton, J. (2011). Reabilitação de Edifícios Antigos □ Patologias e Tecnologias de Intervenção. Orion  
Appleton, J. (2005) Reabilitação de Edifícios □Gaioleiros□ - Um quarteirão em Lisboa. Orion.  
Brand, S. (1995). How Buildings Learn: What Happens After They're Built. Viking.  
Stubbs, J. H., & Barrico, R. (2014). Architectural Conservation in Europe and the Americas: National Experiences and Practice. Wiley-Blackwell.

#### Offered (semester and year):

4nd Year - Fall;

**Faculty assigned (list all faculty assigned during the two academic years prior to the visit):**

Francisco Carlos Almeida do Nascimento e Oliveira;