MODULE: CONSERVATION in the BUILT ENVIRONMENT
(BLENDED LEARNING MODE)

CBE07PGD (16 Credits)

Course duration: 8 weeks
Mode of presentation: blended learning

THE SOUTH AFRICAN INSTITUTE FOR HERITAGE SCIENCE & CONSERVATION

Provisionally registered with the Department of Higher Education and Training as a private higher education institution under the Act.
Registration certificate No. 2018/HE07/007

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CONSERVATION IN THE BUILT ENVIRONMENT

Content & Themes

Content comprises live video lectures, guidance & mentorship, demonstrations and a practical, block session:

- Advanced conservation treatments and methods - in support of the conservation of buildings and installations;
- Materials Characterization & Condition Analysis, Preventive Conservation and Risk Management;
- Values and Significance, Advocacy and Professional Identity;
- The Conservation Management Plan (CPM);

Module Purpose

The module, *Conservation in the Built Environment,* is designed to assist and inform the investigation and remedial treatment of materials associated with the built environment. Through lectures, instruction, demonstration and practical sessions the student will be sufficiently informed to execute treatment on buildings and installations to an ethically defensible standard, as well as contributing to a positive team work environment. The module is designed to increase the student's physical engagement with tasks in such a manner that the prior training and learning may be implemented, allowing for an informed, critical evaluation of the treatment methodology. It is envisaged that each participant develops a conservation approach which allows for recognition of the efficacy or deficiencies of treatments and/or conservation materials in order to adjust, change or maximize the intervention, to achieve an ethically and aesthetically acceptable result.

Capacity in the compilation of instructive, informative and visually pleasing documentation will be developed. This instruction culminates in the writing of a *Conservation Management Plan (CMP)*, which outlines values and significance, the impact of these on treatment and maintenance plans and which lays down guidelines for the future needs of the heritage material, paying due consideration to the outline values and significance.

The programme student will also be guided in the initial decision-making processes with regard to their dissertation or *Research Project* (if applicable), and which may follow upon completion of the requisite modules.

Modules linked specifically to this subject are *Conservation Theory and Skills, Stone & Mortar Conservation (Foundational level), Physics & Chemistry for Conservation* and *Heritage Legislation*.

Learning Outcomes

On completion of this module, the student should be able to:

1. determine the causes of deterioration & risk exposure to heritage materials in the architectural domain through chemical and physical vectors, by extrapolating and relating the impact of such vectors upon physical deterioration, damage and loss of that material, or material combination.
2. understand the supporting chemistry/physics relating to building materials and treatment options in order to undertake building/installation surveys, and to devise or implement chemical analysis to aid learning outcome 1.
3. employ the results of the analysis – garnered from the site survey and laboratory-based analysis - to direct treatment and maintenance procedures and maximize material conservation (and utility gains) within ethical ideals, through enhanced materials stabilization, remedial interventions and increased material performance.
4. perform the physical tasks required of a buildings conservator in the pursuit of remedial treatment of buildings and installations to a substantive level of skill / competence, while at all times remaining mindful of applicable conservation ethics.
5. develop and write a *"Conservation Management Plan"* in which the aforementioned outcomes find expression with a view to future reference and cohesive, long-term instruction.
6. be compliant with all health and safety regulations - not only by being informed of statutory requirements but through mindfulness of the reactivity of various chemicals and reagents, when employed or stored collectively.

CONSERVATION IN THE BUILT ENVIRONMENT

RECOMMENDED READING:

- Surveying Historic Buildings. (2nd edition) by Watt;
- Conserving Buildings. A manual of techniques and materials. (Revised ed) by Weaver;
- Practical Building Conservation: 11 Volume Set
- Conservation of Building and Decorative Stone by Dimes and Ashurst;
- Stone conservation. Principles and practice by Henry;
- Building limes in conservation by Brocklebank;
- Lectures on material science for architectural conservation by Torraca;
- Stone conservation. An overview of current research by Price;
- English Heritage. Practical Building Conservation Series by Martin & Wood;
- Veres Code of Ethics
  http://cool.conservation-us.org/byorg/veres/veresethh.html

TEACHING & LEARNING METHODS:

On-line: Synchronous, online video conference meetings shall feature - during which lectures and tutorial feedback shall be presented, resulting in interaction between tutors and student. Ongoing direction and instruction shall follow, requiring reading, self-study and assignments to be submitted. The formative coursework shall account for 40% of the total mark.

Contact block session (8 days): Presented on-campus at the Institute's conservation laboratory as well as field work. These sessions shall provide for practical execution and implementation of theoretical content.

A final summative assessment shall conclude this Conservation in the Built Environment module. The summative coursework shall account for 60% of the total mark.

The pass mark for Conservation in the Built Environment is 55%.

In the case of candidates meeting the enrolment prerequisites for the Postgraduate Diploma "Technical Conservation Studies", credits achieved upon completion of Conservation in the Built Environment may, upon application, successfully transfer towards attainment of a future graduation.

COURSE DETAILS

Enrolment prerequisites	• Chemistry, at least on 1st year level OR an approved Chemistry bridging course, successfully completed. • Successful completion of the following modules: Conservation Theory & Skills, Stone & Mortar (Foundational), Physics & Chemistry module **OR** accomplishment in some specialism of remedial conservation.
Course fee	**R19 841.52** (VAT exempt)
Prescribed textbooks	Conservation of Historic Buildings ; B.M. Feilden
Tuition Tool-kit	Programme students might already have the textbook and/or tool-kit.

A progress report will follow upon completion.