Site Management Planning and Management of Conservation Projects for professionals

programme for 2016

Jerusalem

2016

17 January 2016 **UNIT ONE: Course Opening and Introduction**
18 _21 January 2016 **UNIT TWO: Introduction to Conservation Principles, Theory and History, Local & International context**

Main Course Instructors: Christine Biggi (CB), Yusef Natsheh (YN)
Opening Session: Fida Touma (FT), partner

TIME	*Sunday* 17 January	*Monday* 18 January	Time	*Wednesday* 20 January	*Thursday* 21 January
11:00–11:30	Registration	Introduction to levels of intervention and *mise en valeur* of historic buildings (CB)	**14:00 – 15:30**	Introduction to historic and architectural development in Old Jerusalem - (YN)	Visual analysis of architectural development in Jerusalem (walk) Site visit: Selected buildings in Jerusalem Preliminary visual analysis of its architectural development (part of Participants' seminar) (YN)
11:30–12:15	Official opening session (FT), partner				
12:30-13:30	Introduction and background to the course. Participants' introduction (CB)	Values (CB)	**15:30 – 17:00**		
13:30-14:00					
14:00-15:30	Participants' Presentations (10 min per PART) (CB)	Introduction to participants' group seminar (practical teamwork exercise)			
15:30-16:30 **16:30-17:00**		Devising a statement of significance for a heritage place as basis for its conservation Task Assignment (CB)			

LECTURE	SITE VISIT/DEMO	*LAB SESSION*	DISCUSSION/ PRESENTATION	SEMINAR - GROUP WORK (EXERCISE)	*OTHER*

24 – 25 January 2016 **UNIT FIVE: Site Management Planning and Management of Conservation Projects Maintenance Programmes, Communication skills, Risk Preparedness**

Main Course Instructors: Amra Hadžimuhamedović (AH),

TIME	**Sunday 24 January**	**Monday 25 January**
11:00-12:00	Theoretical issues: Values, authenticity, significance for the conservation of living heritage; sustainability and value-based approaches (AH)	Introduction to current approaches/ strategies in risk preparedness AH)
12:00-13:00	Management and monitoring in a World Heritage context (AH)	Introduction to maintenance management programmes, systems and policies (AH)
13:00-14:30	Introduction to integrated urban conservation and management: site management and planning framework; (AH)	Discussion of participants' seminar (AH, PART)
14:30-14:50		
15:00-16:00	Working with communities: Communication skills and conflict resolution for the protection of cultural heritage. (AH)	Discussion

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7 – 9 February 2016 UNIT THREE: Historic building materials and techniques

Main Course Instructors: Simone Ricca (SR)

TIME	Sunday 7 February	Monday 8 February	Tuesday 9 February
10:00-11:00 11:00-12:00	Architectural conservation - introduction and principles Introduction to traditional building techniques and materials (SR)	Site Visit to the assigned building Visual inspection and preliminary assessment (SR) Building materials and decay in the Old City of Bethlehem	Introduction to the stability of historic buildings(SR)
12:00-13:30	Introduction to the decay of historic materials and structures Preliminary analysis and visual inspection (SR)	Case-study: conservation project in the Old City of Damascus Traditional building materials and technology Restoration techniques & design (SR)	Vaults: geometry and drawing Arches ad Vaults: constructive techniques Vaults: stability and design (SR,) Closure and discussion with the students (SR)
13:30-14:00			
14:00-15:00 15:00-16:00	Walk with demos in Old City of Bethlehem Visit to an on-going rehabilitation project Visit to a completed project in the Presentation and discussion with the architects in charge and the students (SR)	Debate with students: architectural conservation, concept and practice (SR,)	

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14 – 16 February 2016 UNIT FOUR: Heritage Documentation and Recording Information Management

Main Course Instructors: Mario Santana Sunday.

TIME	Sunday 14 February	Monday 15 February	Tuesday 16 February
10:00-11:00	Principles of documentation and recording for historic buildings and sites (MS)	Preparing an elevation for a condition survey (MS)PART)	Update and final processing of measurements collected during the fieldwork (MS)
11:00-12:00	Appropriate tools / equipment and techniques for recording and documentation – overview according to criteria (MS)		Presentation of Group Work results (MS)
12:00-13:30	Site documentation: techniques to prepare a site map, detailed recording and documentation (MS)	Processing of measurements collected during fieldwork (MS)PART)	Documentation: processes in the conservation of historic buildings: case studies (MS)
13:30-14:00			
14:00-15:00	Strategy building for site documentation and field work (MS)	Documenting results of a condition survey, preparation of an elevation (MS)PART)	Documentation: processes in the conservation of historic buildings: case studies (MS)
15:00-16:00	Site plan preparation, demo and field work (MS)		Appropriate approaches and choices in documentation and recording - discussion (MS)

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10 _ 11 February 2016 **UNIT FOUR, Part 2: Conservation and Restoration of Stone in Masonry Buildings**

Main Course Instructors: Catherine Woolfitt (CW)

TIME	***Wednesday*** **10 February**	***Thursday*** **11 February**
11:00-12:00	Introduction to the characterization of stone as building material	Mapping decay and causes of deterioration: Condition assessment of historic facades and buildings - case studies (CW)
12:00-13:00	Stone masonry deterioration: Introduction to chemical and physical decay processes. (CW)	On-site exercise: Condition assessment and diagnosis - mapping on assigned building facades (PARTs seminar) (CW)
13:30-14:30	Overview of mortars in stone structures and their typical deterioration processes Problem of salts(CW)	
14:30-15:00		
15:00-16:00	Porosity, water movement and capillary absorption, geology and chemistry of stone and mortar (CW)	Discussion of exercise results (CW)
16:00-17:00	Introduction to lab investigations and analysis: sampling, porosity measurements and capillary absorption measurements, salt analysis, microscopy for thin and cross sections/ lab demos (CW)	Simple vs. scientific methods of investigation and diagnosis Introduction to scientific advanced methods of investigation (CW)

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28 February– 2 March 2016 UNIT FOUR, Part 5: Historic Structures: Assessing Structural Behaviour of Buildings Introduction to Structural Conservation

Main Course Instructors: Ayman Herzalla

TIME	Sunday 28 February	Monday 29 February	Tuesday 1 March	Wednesday 2 March
11:00- 12:00	History of building techniques with reference to structures in Jerusalem and region – overview of typical features and principles (AH)	Methods of investigating structural failures in historic buildings (AH)	Structural failures – experiences and challenges of deciding on appropriate interventions. Case studies by participants. (AH)	Strengthening historic structures – principles and approaches. (AH)
12:00-13:00				Structural therapy – solutions to structural failures – case studies (AH)
13:00-14:30	Structural behaviour of historic buildings – theoretical introduction to understanding masonry buildings (AH)	Monitoring structural stability of historic buildings Principles, tools and techniques (AH)	Example(s) of structural problems and interventions – case studies. Visit and discussion (AH)	Analytical methods for historic structures: modelling and mathematical methods (AH)
14:30-15:00				
15:00-16:00	Structural behaviour of historic buildings: understanding masonry structures (AH)	Site visit and discussion Investigating traditional structural building methods and deficiencies at selected buildings in Old Town of Jerusalem. Visit and visual inspection (AH)	Principles of sound structural diagnosis (AH)	Strengthening historic structures – case studies (AH)
16:00–17:00	Discussion (AH)		Principles of sound structural diagnosis. Discussion (AH)	Strengthening historic structures – case studies. Discussion (AH)

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6 – 8 March 2016 **UNIT FOUR, Part 3: Humidity in Historic Buildings**

Main Course Instructors: Alessandro Massari (ALM)

TIME	**Sunday** **6 March**	**Monday** **7 March**	**Tuesday** **8 March**
11:00 - 12:00	Humidity in historic buildings – overview of sources and types, indoor climate and environmental monitoring (ALM) Investigation and identification methods, measuring tools and equipment - overview (simple and sophisticated) (ALM)	Humidity as a cause of decay mechanisms; Understanding the manifestations (ALM)	Introduction to conservation treatments of humidity in masonry, plaster and renders (ALM)
12:00 - 13:00			Interventions / treatments of humidity problems in conservation and restoration – case studies (ALM)
13:00 - 14:30		Demo / on-site exercise: Inspecting humidity and deterioration of stone buildings (PARTs seminar) (ALM)	
14:30 - 15:00			
15:00 - 16:00	Measuring humidity and indoor climate conditions – demo (ALM)	Demo / on-site exercise: Inspecting humidity and deterioration of stone buildings (PARTs seminar) (ALM)	Treatments of humidity problems in conservation and restoration – case studies discussion in Old City of Jerusalem (ALM)
16:00 - 17:00		Discussion of demo / exercise results (ALM)	

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13 – 15 March 2016 **Part 4: Conservation of Stone, Plaster and Mortar**

Main Course Instructors: Nick Durnan (ND)

TIME	***Sunday*** **13 March**	***Monday*** **14 March**	***Tuesday*** **15 March**
11:00 - 12:00	Introduction to the characterization of lime, mortar, renders / plaster and binders in general Features, requested performance determination Traditional and new products, performance and compatibility (ND)	Interventions in stone masonry: principles of replacement, patching with mortar, *anastylosis*, etc. (ND)	Practical exercise on mixing mortars (ND)
12:00 - 13:00		Introduction to stone cleaning, salt extraction, and other treatments of stone walls (ND)	
13:00 - 14:30	Introduction to mortar setting types, grain size distribution, workability, shrinkage, and setting time (ND)	Practical Exercises: salt cleaning and use of poultices, grouting and consolidation of plaster and mortar (ND)	
14:30 - 15:00			
15:00 - 16:00	Sound diagnosis methods, deciding on material composition and intervention techniques Questions of compatibility (ND)	Introduction to the conservation of mortars and renders (ND)	
16:00 - 17:00			

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30 March 2016 **UNIT SIX: PARTICIPANTS' SEMINAR and COURSE CLOSING**
Seminar on Participants' Course Work
Course Evaluation

Main Course Supervisor: Christian Biggi (CB)
Presenting case Study on **30 March**

TIME	**28 March**	**29 March**	**30 March**
11:00 - 12:00	Participants' finalization of project summaries and final power point presentations	Participants final project presentations	Final course evaluation
12:00 - 13:00			Final course evaluation and discussion
13:00 - 14:30			Presentation of summaries of participants group work (seminar) results
14:30 - 15:00			Closing ceremony
15:00 - 16:00	Participants' finalization of project summaries and final power point presentations	Participants final project presentations	
16:00 - 17:00			

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