

# Survey and Mapping decay and causes of deterioration of Masonry Buildings: Condition Assessment of historic facades and buildings

Main Course Instructors: Aymen Herzalla  
Location of the course: Jerusalem old city

TIME	Sunday 2/12	Monday 3/12	Tuesday 4/12	Wednesday 5/12
10:00-11:30	<p>Introduction to the characterization of stone as building material</p> <p>Stone Masonry Deterioration: Introduction to chemical and physical decay processes.</p>	<p>Mapping decay and causes of deterioration: Condition Assessment of historic facades and buildings- case studies (AH)</p> <p>Condition Assessment and diagnosis mapping on building facades -Site investigation</p>	<p>On-site Exercise: Condition Assessment and diagnosis mapping on building facades</p>	<p>On-site Exercise: Condition Assessment and diagnosis mapping on building facades (documented in the former week)- (AH with participants)</p>
11:30-13:00	<p>Introduction to lab investigations and analysis: sampling, porosity measurements and capillary absorption measurements, salt analysis, microscopy for thin and cross sections (AH)</p>	<p>On-site Exercise: Condition Assessment and diagnosis mapping on building facades.</p>		<p>Lab session: Mapping the decay on AutoCAD drawings preparing pathology plan</p>
13:00-14:00	<p><i>Lunch break</i></p>			
14:00 - 16:00	<p>Mapping decay and causes of deterioration: Condition Assessment of historic facades and buildings- case studies (AH)</p>	<p>On-site Exercise: Condition Assessment and diagnosis mapping on building</p>	<p>Lab session: Mapping the decay on AutoCAD drawings- preparing pathology plan</p>	<p>Lab session: Mapping the decay on AutoCAD drawings preparing pathology plan</p>
	<p>Discussion (AH)</p>	<p>Discussion of exercise results and discussion (AH)</p>	<p>Discussion of exercise results and discussion (AH)</p>	<p>Presentation of exercise results (Group work)</p>

Lecture	Discussion	Field work	Lab session	Presentation
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