

Day 1

09:00	Introduction: the STORM project and the risks to cultural heritage associated to climate change	15	Dr. Eng. Silvia Boi ENG	The STORM project and protection of cultural heritage: state of the art and goals
	Principles of CH conservation in the safeguard approach	60	Prof. Ulderico Santamaria UNITUS	Principles and main practices adopted for prevention, quick assessment and recovery.
	Principles of regulations at European and National level for CH safeguard	60	Dr. Filipa Neto DGPC Dr. Marina Magnani Cianetti Dr. Francesca Boldrighini SSCOL	Existing regulation and expected changes for the future.
	Introduction to data collection before disaster and damage investigation after the event (how to use quick assessment forms)	45	Dr. Maria Concetta Capua NCRS	STORM suggested forms and their use on field
	Field exercise - Phase 1	90	NCRS/UNITUS	Before the disaster: Data collection (site, area etc.)
13:30	break			
14:30	Understanding Climate change effects to CH safeguard	60	Dr Ivonne Anders ZAMG	Climate change observed and predicted in Europe
	The STORM systemic proposal for a platform to support cultural heritage safeguard	45	Prof. Patrikakis Charalampos PUAS	Introduction on integrated platform and its benefits.
	How the use of low cost sensors is helping the safeguarding process	60	Prof. Patrikakis Charalampos PUAS	Description of sensors used in STORM
18:00	Adapting DRR to the Heritage Conservation sector: principles, methods and roles	45	Dr. Maria Joao Revez NCRS	integration of short and long term applications to enable improved decision making and faster reaction

Day 2

09:00	Learn a common language in cultural heritage regulation, objects and operations especially in disaster management phases	45	Dr. Arch. Maria Teresa Jaquinta ICCROM	Definition, classification and protection of cultural heritage rules
	Floods, Storms, Tydes Emergency procedures for CH	45	Dr. Alcides Fuschini Bizarro Dr. Eng. Luis Vital Alexandre SMPC	Water and environment agents damages: protecting procedures in emergency
	Natural Disaster Securing procedures for CH	30	Dr. Eng. Andrea Marino CNVVF	Earthquake damages: shoring procedures in emergency scenarios
	Principles to face environmental risks for CH	60	Prof. Ulderico Santamaria UNITUS	Protection measures on cultural heritage against environmental agents
	Field exercise - Phase 2	90	SOS Archivi (external stakeholder)	First Aid to books in case of flood
13:30	break			
14:30	Principles to face fire risks for CH - structural fires	30	Dr. Eng. Luca Nassi CNVVF	Protection of cultural heritage and artifacts from structural fires
	Forest Fire Risks to Cultural Heritage	30	Dr. Eng. Stefano Marsella CNVVF	Protection of cultural buildings and sites from vegetation fires
	Principles to face earthquake risks for CH	60	Prof. Eren Uckan BU Prof. Bulent Akbas BU	Principles to face earthquake risks for cultural heritage
	First approach to risk analysis applied to climate change generated threats for CH	60	Prof. Joern Birkmann Dr. Moh Ravankhah USTUTT	Climate change and new threats to cultural heritage
	Field exercise - Phase 3	45	Dr. Eng. Andrea Marino Dr. Eng. Paolo Dolci CNVVF	Strengthening of a earthquake-damaged masonry arch

Day 3

09:00	Field exercise - Phase 4	75	UNITUS/NCRS	First aid to damaged fresco
	Field exercise - Phase 5	45	Dr. Eng. Armando De Rosa CNVVF - Leica Geosystems (external stakeholder)	Quick assessment of damaged structures
	Role and Responsibility in CH safeguard: how to prepare the future	45	Dr. Fabio Perossini KP	Roles and Responsibility in cultural heritage resilience, How to estimate costs to be faced. Voluntarism involvement. A strategy for the future.
	Collecting and exchanging data in emergency	45	Dr. Francesca Boldrighini SSCOL Dr. Eng. Marcello Marzoli CNVVF	Gathering and sharing data in emergency between rescue services and cultural heritage protection bodies
	break	15		
	Final test with evaluation.	60	STORM	Final examination based on multiple answers forms and proposal of a mitigation strategy for a site selected by the student
	14:00			Certification and social event