

Module 16					
Module Name: Building Science					
Degree Program(s)	B.Sc. in Architecture				
academic year	2012/13				
Course Number	Arch 4192				
Course Title	Architectural Science III (Heating, Cooling & Ventilation)				
Pre-requisites	None				
Status of Course	Compulsory				
Semester	7				
EtCTS Credits	4				
Working Hours (per week)	Lectures	Tutorials & Seminars	Laboratory & Workshop Practice	Home Study	Total Working Hours
	2	3	-	2	4
Attendance Requirements	85%				
Teaching & Learning Methods	Lectures, Seminar				
Course Objectives & Competences to be Acquired	-heating, cooling and ventilation				
Course Description/Course Contents	Science: Heat, Principles of heat & heat transfer, Comfort, Indoor climate, Overheating, Humidity, Condensation, Moisture movement Systems: Heating & Cooling, Ventilation (natural & mechanical)				
Assessment/Evaluation & Grading System	50% Exam 50% Exercises				
Literature	- Environmental Control Systems –Heating, Cooling & lighting (Fuller Moor, 1993); - Environmental Science in Buildings (Randall Mc Mulln, 1992); Building in the Tropics (George Lippsmeier, 1980); - Man Climate and Architecture (Givoni, 1976)				