



National University of Sciences and Technology

School of Art, Design and Architecture

ARCH-321 – Environmental Systems II

Credit Hours:	3(3-0)	Semester:	Fall
Instructor:		Office:	Faculty Room
		Extension:	
Counseling Hours:			
Research Assistant:		Office:	
Email:			
Website:		Extension:	
Pre-requisites:	ARCH-222 – Environmental Systems I (Mechanical, Electrical, Plumbing)		
Course Description:	<p>This course will introduce the basic principles of illumination design and acoustics in buildings. In the module on light; the importance of daylight will be emphasized with respect to sustainable design principles. The relationship between color and light will be studied in detail and the influence of color in architecture will be explored. In the module on acoustics: the topics under discussion will be architectural acoustics, behavior of sound in rooms, noise through buildings; noise control and sound insulation. A third module will discuss the importance of building codes, case study of local as well as international, and fire hazards and their prevention in buildings through passive approaches in design.</p>		