



**National University of Sciences and Technology**  
**School of Art, Design and Architecture**  
Arch-810 – Architecture Technology

<b>Credit Hours:</b>	1+2	<b>Semester:</b>	Spring
<b>Instructor:</b>			
<b>Email:</b>			
<b>Website:</b>			
<b>Counseling Hours:</b>			
<b>Research Assistant:</b>		<b>Office:</b>	
<b>Email:</b>		<b>Extension:</b>	
<b>Website:</b>			
<b>Pre-requisites:</b>	None		
<b>Course Description:</b>	<p>The objective of this course is exploration of Technology in Architecture, investigating Hi-tech architecture and its relationship with eco-technology, bioclimatic design, sustainable architecture, automated design and artificial intelligence design solutions.</p> <p>Technological shift in architecture is very noticeable in the recent years from digital detailing to advance computational design solution. As the world faces several urgent and complex challenges, from the climate crisis to housing, technology has the potential to make the difference between a dystopian future and a livable one. By looking ahead, we're taking stock of what's happening, and in turn, imagining how technology can shape our lives for the better. In this course students will be exploring technology application in architecture in relation to form and structure resolution, building performance and aesthetics, kinetic and responsive architecture, advance material and nano technology, digital fabrication and architecture as the intelligent way in establishing a better living on earth.</p>		