

Module 15					
Module Name: Construction of Building Elements & components					
Degree Program(s)	B.Sc. in Architecture				
Academic year	2017/18				
Course Number	Arch 2152				
Course Title	Building Materials and Construction IV				
Pre-requisites	Arch 2152				
Module coordinator	To be Assigned				
Lecturer	To be Assigned			Phone _____	Email _____
Status of Course	Compulsory				
Semester	4				
ECTS Credits	5				
Course weight (per semester)	Lectures	Tutorials	Laboratory & Workshop	Home Study	Total Working
	32	80	-	64	176
Teaching & Learning Methods	Lectures, Project, Reports Tutorials, Excursions				
Attendance Requirements	85%				
Competency & Course Objectives	This course is focused on building components of industrialized building systems, details, evolution, understanding and application of automated building systems. Knowledge of relevant industry standards, Link to structural design concepts and relate these to current construction practices, with the ability to investigate and solve construction problems. Principles, manufacturing and construction of industrialized elements and buildings, details and systems, of main building parts from foundation to roof. The influence of automated and prefabricated building elements on execution on site, site management, project management.				

Course Description / Course Contents	.The principles of industrialized building systems, related Standards, and implementation. Preparation of advanced details with horizontal and vertical connections. Including foundations, external wall systems, structural ceilings, partition walls, raised floors, suspended ceilings, drywall systems roofs and Box systems. Influence and implementation of industrialized building systems on site, on site management, and project management, supplemented with site visits. Symbols and abbreviations related to course content.
Assessment/Evaluation& Grading System	50% Exam 50% Projects
Literature	Industrialized and Automated Building Systems, Abraham Warszawski, Taylor & Francis e-Library, 2005 Barry's Advanced Construction of Buildings (3rd Ed), Stephen Emmitt and Christopher A. Gorse, 2014 by John Wiley & Sons, Ltd The Gypsum Construction Handbook, Centennial Edition, (www.cgcinc.com) Building design and construction handbook / Frederick S. Merritt, Jonathan T. Ricketts, (6th ED), McGraw-Hill books Building Construction Handbook (7th Ed), R. Chudley and R. Greeno, by Elsevier Ltd. Fundamentals of Building Construction – Materials and Methods (5th Ed), Edward Allen and Joseph Iano, John Wiley & Sons, Inc. Prefab Architecture - a guide to modular design and construction, Ryan E. Smith, 2010 by John Wiley & Sons