

Architectural Engineering Department

Study Plan of the (2021-2022) Academic Year

Level 100 (Fall)														
Semester	No.	Course No.	Course name	Course prerequisite	Distribution of hours per week				Mark					Course type
					Lab.	Ex.	Lec.	Credit Hr.	Theoretical	Applied	Year work	Practical	Total	
First Semester	1	CIS 112	Structural Analysis 1	———	—	2	2	3	60	20	20	—	100	Major Compulsory
	2	ARC 112	Visual Training & Freehand Drawing	———	—	4	1	3	50	20	30	—	100	Major Compulsory
	3	ARC 113	Sciagraphy & Perspective	———	—	4	1	3	50	20	30	—	100	Major Compulsory
	4	ARC 121	History & Theory of Architecture 1	———	—	—	2	2	50	20	30	—	100	Major Compulsory
	5	ARC 131	Building Constructions 1	———	—	4	1	3	50	20	30	—	100	Major Compulsory
	6	ELP111	Principles of Electrical Engineering	———	—	1	2	2	60	20	20	—	100	Institute Elective
	7	HUM 181	Analysis & Research Skills	———	—	2	1	2	60	20	20	—	100	General Compulsory
Tot.								18						

Level 100 (Spring)														
Semester	No.	Course No.	Course name	Course prerequisite	Distribution of hours per week				Mark					Course type
					Lab.	Ex.	Lec.	Credit Hr.	Theoretical	Applied	Year work	Practical	Total	
Second Semester	1	CIS 141	Behavior of Materials	———	2	1	2	3	50	20	15	15	100	Major Compulsory
	2	CIW 121	Engineering Surveying	———	1	1	2	3	50	20	20	10	100	Major Compulsory
	3	ARC 122	History & Theory of Architecture 2	ARC 121	—	—	2	2	50	20	30	—	100	Major Compulsory
	4	ARC 132	Building Constructions 2	ARC 131	—	4	1	3	50	20	30	—	100	Major Compulsory
	5	ARC 151	Architectural Design 1	ARC 112	—	6	—	3	50	20	30	—	100	Major Compulsory
	6	ARC 111	Arts and Archeticture	———	—	1	2	2	50	20	30	—	100	Institute Elective
	7	CIS 111	Principles of Construction & Building Engineering	———	—	1	2	2	60	20	20	—	100	Institute Elective
Tot.								18						

Level 200 (Fall)														
Semester	No.	Course No.	Course name	Course prerequisite	Distribution of hours per week				Mark					Course type
					Lab.	Ex.	Lec.	Credit Hr.	Theoretical	Applied	Year work	Practical	Total	
First Semester	1	CIS 222	Reinforced Concrete & Foundation	———	—	2	2	3	60	20	20	—	100	Major Compulsory
	2	ARC 223	History & Theory of Architecture 3	ARC 122	—	—	2	2	50	20	30	—	100	Major Compulsory
	3	ARC 233	Building Constructions 3	ARC 132	—	4	1	3	50	20	30	—	100	Major Compulsory
	4	ARC 252	Architectural Design 2	ARC 151	—	6	—	3	50	20	30	—	100	Major Compulsory
	5	HUM 111	Technical Report Writing	———	—	2	1	2	60	20	20	—	100	Institute Compulsory

Fi	6	ARC 261	Landscape & Urban Design	——	—	4	1	3	50	20	30	—	100	Major Compulsory
	7	ARC 262	History & Theory of Planning	——	—	—	2	2	50	20	30	—	100	Major Compulsory
							Tot.	18						

Level 200 (Spring)														
Semester	No.	Course No.	Course name	Course prerequisite	Distribution of hours per week				Mark					Course type
					Lab.	Ex.	Lec.	Credit Hr.	Theoretical	Applied	Year work	Practical	Total	
Second Semester	1	ARC 224	History & Theory of Architecture 4	ARC 223	—	—	2	2	50	20	30	—	100	Major Compulsory
	2	ARC 241	Environmental Control	——	—	2	2	3	50	20	30	—	100	Major Compulsory
	3	ARC 242	Acoustics & Illumination	——	—	2	1	2	50	20	30	—	100	Major Compulsory
	4	ARC 253	Architectural Design 3	ARC 252	—	6	—	3	50	20	30	—	100	Major Compulsory
	5	IEN 314	Project Management	——	—	1	2	2	60	20	20	—	100	Institute Compulsory
	6	HUM 181	Analysis & Research Skills	——	—	2	1	2	60	20	20	—	100	General Compulsory
	7	ARC 458	Sustainable Architecture	——	—	4	1	3	50	20	30	—	100	Major Compulsory
							Tot.	17						

Level 300 (Fall)														
Semester	No.	Course No.	Course name	Course prerequisite	Distribution of hours per week				Mark					Course type
					Lab.	Ex.	Lec.	Credit Hr.	Theoretical	Applied	Year work	Practical	Total	
First Semester	1	291	FieldTraining1	——	6	—	—	1	—	—	50	50	100	Institute Compulsory
	2	HUM 352	Human Rights	——	—	—	1	1	60	20	20	—	100	General Compulsory
	3	ARC 331	Working Drawings 1	ARC 233	—	6	—	3	50	20	30	—	100	Major Compulsory
	4	ARC 354	Architectural Design 4	ARC 253	—	6	—	3	50	20	30	—	100	Major Compulsory
	5	CIS 231	Design of Steel Structures 1	CIS 112	—	2	2	3	60	20	20	—	100	Major Compulsory
	6	CIW 331	Environmental Impact of Projects	——	—	—	1	1	60	20	20	—	100	Institute Compulsory
	7	IEN 351	Engineering Economics	——	—	1	2	2	60	20	20	—	100	Institute Compulsory
	8	HUM 381	Principles of Negotiation	——	—	—	2	2	60	20	20	—	100	General Compulsory
	9	ARC 327	Architectural Criticism & Project Evaluation	——	—	5	0	2	50	20	30	—	100	Minor Elective
							Tot.	18						

Level 300 (Spring)														
Semester	No.	Course No.	Course name	Course prerequisite	Distribution of hours per week				Mark					Course type
					Lab.	Ex.	Lec.	Credit Hr.	Theoretical	Applied	Year work	Practical	Total	
Second Semester	1	ARC 332	Working Drawings 2	ARC 331	—	6	—	3	50	20	30	—	100	Major Compulsory
	2	ARC 355	Architectural Design 5	ARC 354	—	6	—	3	50	20	30	—	100	Major Compulsory
	3	ARC 371	Architectural & Urban Legislations	——	—	—	2	2	50	20	30	—	100	Major Compulsory
	4	Arc 336	Maintenance of Buildings	——	—	-	2	2	50	20	30	—	100	Minor Elective
	5	HUMX 72	Trends in Contemporary Arts	——	—	—	2	2	60	20	20	—	100	General Elective
	6	CIW 232	Sanitary Installation in Buildings	——	—	1	2	2	60	20	20	—	100	Major Compulsory
	7	IEN 314	Project Management	——	—	1	2	2	60	20	20	—	100	Institute Compulsory

	8	HUM 351	Professional Ethics	——	—	—	1	1	60	20	20	—	100	Institute Compulsory
							Tot.	17						

														Level 400 (Fall)			
Semester	No.	Course No.	Course name	Course prerequisite	Distribution of hours per week				Mark					Course type			
					Lab.	Ex.	Lec.	Credit Hr.	Theoretical	Applied	Year work	Practical	Total				
First Semester	1	391	FieldTraining2	——	6	—	—	1	—	—	50	50	100	Institute Compulsory			
	2	ARC 491	Project 1	ARC 335	—	2	—	1	—	—	50	50	100	Major Compulsory			
	3	ARC 463	Housing	——	—	2	2	3	50	20	30	—	100	Major Compulsory			
	4	HUMX 71	Introduction to the History of Civilizations	——	—	—	2	2	60	20	20	—	100	General Elective			
	5	ARC 457	Interior Design	——	—	4	1	3	50	20	30	—	100	Minor Elective			
	6	HUMx 73	Recent Egypt's History	——	—	2	2	2	60	20	20	—	100	General Elective			
	7	BAS 212	Statistics and Probability theory	——	—	2	2	3	60	20	20	—	100	Institute Compulsory			
							Tot.	15									

														Level 400 (Spring)			
Semester	No.	Course No.	Course name	Course prerequisite	Distribution of hours per week				Mark					Course type			
					Lab.	Ex.	Lec.	Credit Hr.	Theoretical	Applied	Year work	Practical	Total				
Second Semester	1	ARC 472	Execution Documents	——	—	2	2	3	50	20	30	—	100	Major Compulsory			
	2	ARC 492	Project 2	ARC 491	—	10	—	5	—	—	50	50	100	Major Compulsory			
	3	HUM 221	Business Administration	——	—	—	2	2	60	20	20	—	100	General Elective			
							Tot.	10									