

## Study Plan

### Architectural Engineering Department (2019-2020)

<b>Level 100 (Fall)</b>														
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	
<b>First Semester</b>	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
<b>Tot.</b>								<b>18</b>						

<b>Level 100 (Spring)</b>														
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	
<b>Second Semester</b>	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
<b>Tot.</b>								<b>18</b>						

<b>Level 200 (Fall)</b>														
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	
<b>First Semester</b>	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
							<b>Tot.</b>	<b>18</b>						

<b>Level 200 (Spring)</b>														
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	MEP 342	Air Conditioning in Buildings	——	—	1	2	2	50	20	30	—	100	Major Compulsory
	6	IEN 131	Monitoring & Quality Control Systems	——	—	—	1	1	60	20	20	—	100	Institute Compulsory
	7	HUM 181	Communication & Presentation Skills	——	—	2	1	2	60	20	20	—	100	General Compulsory
	8	ARC 458	Sustainable Architecture	——	—	4	1	3	50	20	30	—	100	Major Compulsory
							<b>Tot.</b>	<b>18</b>						

<b>Level 300 (Fall)</b>														
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
							<b>Tot.</b>	<b>18</b>						

<b>Level 300 (Spring)</b>														
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

<b>Se</b>	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
							<b>Tot.</b>	<b>17</b>						

														<b>Level 400 (Fall)</b>			
<b>Semester</b>	<b>No.</b>	<b>Course No.</b>	<b>Course name</b>	<b>Course prerequisite</b>	<b>Distribution of hours per week</b>				<b>Mark</b>					<b>Course type</b>			
					<b>Lab.</b>	<b>Ex.</b>	<b>Lec.</b>	<b>Credit Hr.</b>	<b>Theoretical</b>	<b>Applied</b>	<b>Year work</b>	<b>Practical</b>	<b>Total</b>				
<b>First Semester</b>	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	HUMX 72	Trends in Contemporary Arts	——	—	—	2	2	60	20	20	—	100	General Elective			
							<b>Tot.</b>	<b>14</b>									

														<b>Level 400 (Spring)</b>			
<b>Semester</b>	<b>No.</b>	<b>Course No.</b>	<b>Course name</b>	<b>Course prerequisite</b>	<b>Distribution of hours per week</b>				<b>Mark</b>					<b>Course type</b>			
					<b>Lab.</b>	<b>Ex.</b>	<b>Lec.</b>	<b>Credit Hr.</b>	<b>Theoretical</b>	<b>Applied</b>	<b>Year work</b>	<b>Practical</b>	<b>Total</b>				
<b>Second Semester</b>	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			
							<b>Tot.</b>	<b>10</b>									