

			Competencies for Construction Engineering and Management Program															
	Course Code	Course Name	Engineering										Civil				Construction Management	
			A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B1	B2	B3	B4	D1	D2
SEMESTER 1	EB 101	Engineering Mathematics (1)	1										1					
	EB 111	Engineering Mechanics (1)	1							1			1					
	EB 121	Engineering Physics (1)	1	1						1			1					
	EB 141	Engineering Drawing & Descriptive Geometry (1)								1			1					
	UEC 01E	Computer Skills & Programming Concepts (1)	1	1	1	1						1	1					
	EM 170	Introduction to Manufacturing Processes	1			1	1			1	1			1				
	HU 121	Engineering Perspectives and Technology	1			1				1	1							
SEMESTER 2	EB 102	Engineering Mathematics (2)	1										1					
	EB 112	Engineering Mechanics (2)	1							1			1					
	EB 122	Engineering Physics (2)	1	1						1			1					
	EB 142	Engineering Drawing & Descriptive Geometry (2)								1			1					
	EB 131	General Chemistry	1	1			1			1			1					
	UEC 02E	Computer Skills & Programming Concepts (2)	1	1	1	1						1	1					
	HU 113	Technical Reports Writing and Presentation Skills						1		1	1							
UCS 01	Communication Skills (1)								1	1	1	1						
SEMESTER 3	EB 103	Engineering Mathematics (3)	1										1					
	EB 113	Engineering Mechanics (3)	1							1			1					
	ES 101	Engineering Materials				1			1			1		1		1	1	
	ES 102	Structural Analysis (1)	1					1				1		1				
	ES 103	Introduction to CAD Systems							1			1				1		
	ES 104	Surveying for Engineers	1						1					1			1	
SEMESTER 4	EB 204	Engineering Mathematics (4)	1										1					
	ES 105	Introduction to Construction Engineering.					1			1				1			1	1
	ES 106	Civil Engineering Drawing							1			1		1				
	ES 107	Structural Analysis (2)	1					1				1		1				
	ES 108	Strength of Materials			1							1		1				
	ES 202	Concrete Materials					1	1			1			1			1	
SEMESTER 5	UGE 01	English Language (1)							1	1			1					
	ES 201	Introduction to Environmental Engineering				1	1	1								1		1
	ES 203	Construction Project Management				1	1		1							1		
	ES 204	Soil Mechanics (1)	1				1							1	1			1
	ES 206	Reinforced Concrete Design (1)	1	1			1							1	1			
	HU elective	HU Elective (1)				1	1			1			1					
SEMESTER 6	UGE 02	English Language (2)							1	1			1					
	ES 205	Building Technology							1	1				1				1
	ES 207	Construction Planning and Scheduling							1	1						1		1
	ES 302	Reinforced Concrete Design (2)		1			1							1	1			
	ES 309	Foundation Engineering	1				1	1	1					1	1			1
	ES 401	Water and Waste Water Engineering				1	1	1						1	1			
SEMESTER 7	ES 208	Hydraulics		1				1						1				1
	ES 210	Introduction to Mechanical and Electrical Systems in Construction	1				1	1					1					
	ES 301	Steel Structures Design (1)		1			1							1	1			
	ES 303	Project Cost Analysis		1		1										1	1	1
	ES 306	Highway Engineering		1	1	1	1							1	1			
	ES elective	Elective (1)				1	1					1			1			1
SEMESTER 8	ES 304	Hydraulics Structures				1	1							1	1			1
	ES 305	Steel Structures Design (2)		1			1							1	1			
	ES 307	Construction Productivity		1	1				1								1	1
	ES 308	Computer Aided Design		1			1			1	1		1	1	1		1	
	UGA 03	Arabic Language Skills								1	1		1					
	ES elective	Elective (2)						1	1		1				1	1	1	1
SEMESTER 9	UGE 03	English Language (3)							1	1			1					
	ES 400-1	Graduation Project (1)	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
	ES 402	Harbour and Marine Constructions	1			1	1	1	1				1	1		1		
	ES 403	Repair and Maintenance of Buildings		1			1					1				1	1	1
	ES 412	Design of Temporary Structures	1				1					1		1	1			1
	ES elective	Elective (3)				1	1					1			1			1
SEMESTER 10	ES 400-2	Graduation Project (2)	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
	ES 404	Construction Methods and Equipment				1			1					1	1	1	1	1
	ES 405	Construction Contracting				1	1										1	1
	ES 406	Quality Control of Construction Materials					1	1								1	1	1
	UCS 02	Communication Skills (2)								1	1	1						
	ES elective	Elective (4)						1	1		1				1	1	1	1
		Field Traning					1	1	1	1		1	1	1	1	1	1	1
			Elective Courses															
	Course Code	Course Name	Engineering										Civil				Construction Management	
			A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B1	B2	B3	B4	D1	D2
	HU 131	Project Management			1		1		1		1							
	HU 132	Accounting and Cost for Engineering			1		1		1		1							
	HU 134	Engineering Economy			1		1		1		1							
	HU 135	Sales, Marketing and Communications Techniques			1		1		1		1							
	HU 141	Ethics and Human Rights			1	1			1			1						
	HU 142	Legislations and Contracts			1	1			1			1						
	HU 143	Principles of Law			1	1			1			1						
	HU 144	Communications Law and Rules			1	1			1			1						
	HU 133	Engineering Statistics	1	1								1						
	HU 151	Industrial Safety				1	1											
	HU 161	Environment and Society			1					1								
	HU 162	Human Computer Interaction			1	1						1						
	HU 163	Astronomy and Space Sciences			1	1						1						
	HU 170	Risk Management		1		1				1		1						
	Course Code	Course Name	Engineering										Civil				Construction Management	
			A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B1	B2	B3	B4	D1	D2
	ES 311	Advanced Topics in Materials					1	1		1				1	1	1	1	1
	ES 313	Construction Risk Management					1	1		1				1	1	1	1	1
	ES 316	Introduction to advanced BIM (1)					1	1		1				1	1	1	1	1
	ES 315	Surveying (2)					1	1		1				1	1	1	1	1
	ES 413	Construction Management using BIM (2)					1	1		1				1	1	1	1	1
	ES 312	Reinforced Concrete Industrial Structures			1	1						1		1			1	
	ES 407	Design of Steel Bridges			1	1						1		1			1	
	ES 408	Reinforced Concrete High Rise Building			1	1						1		1			1	
	ES 409	Pre-stressed Concrete			1	1						1		1			1	
	ES 410	Design of Reinforced Concrete Bridges			1	1						1		1			1	
	ES 411	Soil Mechanics (2)			1	1						1		1			1	
	ES 310	Introduction to Transportation & Traffic Engineering			1	1						1		1			1	1
	ES 209	Structure Analysis (3)			1	1						1		1			1	