109	Four-vear	Curriculum	for Engineering	2 Practice

109 Four-year Curriculum						Junior				Senior					
Freshman Sophomore Obligatory General Education Courses (28 credits) including Fundamental Courses (6 credits) and General Courses (22 credits). (General C							rses coi	nsist of different areas in humanit	•		lf-explo	ration and health care. Each area			
1st Semester		2nd Semester		1st Semester		2nd Semester		1st Semester		2nd Semester		1st Semester		2nd Semester	
course	credit	course	credit	course	credit	course	credit	course	credit	course	credit	course	credit	course	credit
English (I)	2	English (II)	2	English (III)	1	English (IV)	1	General Studies	4	General Studies	2				
Physical Education (I)	0	Physical Education (II)	0	General Studies	4	General Studies	4								
General Studies	4	General Studies	4		-										
	<u> </u>					College Obl	igatory	Courses (10 credits)					r		
Basic Design (1)	4	APP Design and Application	2												
Computer Graphics (I)	2	Computer Graphics (II)	2												
					_			bligatory Courses (25 credits)							
Calculus (1)	2	Calculus (II)	2	Engineering Mathematics (1)	2	Engineering Mathematics (II)	2								
Civil Engineering History	2	Engineering Mechanics	3	Strength of Materials	3	Theory of Structures	3								
Engineering Materials Test	1														
Technological Physics	2														
Hydrology	3														
i i jai ologj	2					Civil Engineerin	g Oblig	atory Courses (43credits)							
Construction materials	2	Surveying	2	Engineering Geology	2	Soil Mechanics	3	Reinforced Concrete	3	Supervisor in Construction Practices	2	Special Topics I	1	Special Topics II	1
		Surveying Practice	1	Multifunction Stracture Laborator	1	Fluid Mechanics	3	Foundation Engineering	3	Planning and Design of Soil and Water Conservation	3				
				Technology for Disaster Mitigation	2	Soil Mechanics Laboratory	1	Non-destructive Inspection for Civil Technology	3						
				Introduction to Building	2	Working Drawing	2	Quality Control of Civil Engineering	2						
						Introduction to Building Information Modeling (II)	2	Construction Methods	2						
						Information Wodening (11)									
						Civil Engineeri	ng Elec	tive Courses (13 credits)							
		Introduction to Sustainable Engineering	2			Engineering Surveying	2			Software Application and Design	2	Building Seismic Design (2)	2		
		Green Construction Materials	2			Engineering Surveying Practice	1			Introduction to Creative Thinking	2				
		Engineering English	2			Construction Regulations	2			Structural system	2				
		Engineering Ethics	2			Occupational Safety and Health Regulations	2			Steel structure design	2				
		Sewer Engineering	2			Value Engineering	2			Building structure BIM	2				
		Soil and Water Conservation Engineering	2			Engineering Valuation	2			Structural monitoring and testing practice	2				
Geotech and Perpe	tuity	Slope Engineering	2	Management and		Construction Machinery	2	Structure and Technology		Structural program analysis	2				
		Rock Mechanics and Engineering	2	Engineering Practice		Construction Safety	2			Application and practice of non-destructive testing technology for foundation piles	3				
		Bridge and Tunnel Engineering	2			Introduction to Project	2		Architecture Application of Information Modeling in Engineering	2	1				
		Water Resources Engineering	2			Engineering Contract and Dispute			1		2	1			
		Telemetry and UAV Applications	3			Mediation 2 Health Inspection of Engineering 2		1		Structural Dynamics	2				
		Green Energy Technology	2			Structure Safety				Structural Design Optimization	2				
		Environmental Science	2	1					Basic Principles and Applications	3	1				
		1	I	1		Foreign Denarts	nent Eb	ecuive Courses (9 credits)		of Steel Structures		1		I	