

# Curriculum Mapping Matrix

Electronic and Communication Engineering Department Competencies (ARS)																					
Course Code	Course Name	Engineering Competencies Level (A)										Electrical Engineering Competencies Level (B)					Electronics and Communication Engineering Competencies Level (C)				
		A 1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	A 9	A 10	B 1	B 2	B 3	B 4	B 5	C 1	C 2	C 3	C 4	C 5
<b>FRESHMAN</b>																					
<b>Frist semester</b>																					
CSC 001	Computer Skills		√		√						√										
MTH 001	Mathematics (1)	√									√										
ENG 003	Engineering Drawing and projection (1)		√								√										
PHY 001	Physics (1)	√	√					√													
CHM 001	Engineering Chemistry	√	√								√										
ENG 001	Engineering Mechanics (1)	√																			
CSC 006	History of Engineering & Tech.								√	√											
LNG 001	English Language (1)							√	√												
<b>Second Semester</b>																					
MTH 002	Mathematics (2)	√																			
ENG 002	Engineering Mechanics (2)	√																			
PHY 002	Physics (2)	√	√					√													
ENG 004	Engineering Drawing and projection (2)	√	√								√										
LNG 002	English Language (2)							√	√												
PHE 001	Physical Education & activities (1)							√													
ENG 005	Principles of Production Technology & Workshops	√		√																	
LNG 003	Arabic Lang.							√	√												
<b>Third Semester</b>																					
FTR 031	Introduction to field Training	√	√		√						√	√									

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<b>Frist semester</b>																						
EEC 112	Logic Design (1)	√	√										√	√								
EEC 113	Computer Engineering (1)	√							√	√					√							
MTH 101	Mathematic (3)	√				√					√											
MTH 103	Numerical Methods	√	√							√												
EEC 101	Principles of Electrical Engineering	√	√	√																		
EEC 102	Principles of Electronics Engineering	√	√	√																		
EEC 103	Principles of Electric Machines	√	√	√																		
PHE 101	Physical Education & Activates (2)							√			√											
ARE 101	Arts & Architecture	√				√				√	√											
CIV 101	Civil engineering	√			√																	
MDE 101	Principles of Biomedical Engineering	√				√					√											
ENG 104	Principles of Mechanical Power Engineering	√	√	√																		
MTE 101	Principles of Mechatronics Engineering	√		√							√											
<b>Second Semester</b>																						
EEC 121	Electric Circuits (2)	√	√										√									
EEC 123	Electrical Measurements	√	√																√			
EEC 124	Computer Engineering (2)	√								√	√											
MTH 102	Mathematic (4)	√				√					√											
MNG 101	Monitoring & Quality		√	√		√			√													
MNG 102	Engineering Economics		√	√		√			√													
HUM 101	Introduction to the History of Civilizations							√	√													
<b>Third Semester</b>																						
FTR 131	Field Training (1)					√	√		√		√		√	√								

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Competencies  
(ARS)**

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<b>Fourth Semester</b>																					
EEC 141	Electronics (1)	√	√	√									√	√	√						
EEC 142	Logic Design (2)	√	√	√									√	√							
EEC 115	Signal Analysis and Systems	√	√										√	√	√						
MTH104	Mathematical analysis	√	√					√													
HUM 108	Communication & presentation skills							√	√												
HUM 109	Analysis & Search results					√	√		√		√										
MNG 103	Technical report writing		√		√	√	√														
<b>Fifth Semester</b>																					
EEC 151	Electronics (2)	√	√	√									√	√	√						√
EEC 152	Electromagnetic Fields (1)	√								√			√	√							
EEC 154	Electric Machines	√											√			√					
EEC 125	Control Systems (1)	√	√										√		√						
MTH 105	Statistics & probability theory	√	√								√										
HUM 102	Recent Egypt's History					√		√			√										
MTH 206	Advanced Calculus	√							√		√										
<b>Sixth Semester</b>																					
FTR 161	Field Training (2)					√	√		√		√			√	√	√					



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<b>Frist Semester</b>																					
EEC 211	Electromagnetic Fields (2)	√								√		√	√								
EEC 212	Control Systems (2)	√	√										√		√						
EEC 213	Communications (1)	√		√									√		√		√	√	√		√
MNG 201	Project Management		√	√		√		√	√												
EEC 255	Industrial Process Control	√		√			√					√			√	√					
EEC 271	Artificial Intelligence	√			√										√						
EEC 282	Electronics (4)	√	√	√	√								√	√	√						√
EEC 289	Radar and electronic warfare systems	√	√										√								√
<b>Second Semester</b>																					
EEC 225	Digital Signal Processing (1)	√								√			√	√	√						√
EEC 223	Communication (2)	√	√	√		√					√		√		√		√		√		
EEC 224	Data Communication and Computer Networks	√	√		√				√		√				√	√	√	√		√	√
EEC 222	Microwave Engineering	√	√		√						√		√	√	√	√			√		√
EEC 216	Computer Architecture & Organization	√	√		√										√		√				
<b>Third Semester</b>																					
FTR 231	Field Training (3)					√	√		√		√				√	√		√	√	√	

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<b>Fourth Semester</b>																					
EEC 242	Communication (3)	√			√	√	√				√			√		√				√	
EEC 241	Antennas	√	√							√			√	√					√		
EEC 214	Microprocessors		√		√						√			√							√
MNG 202	Environmental impact of projects		√	√		√				√											
MNG 203	Professional Ethics		√		√	√	√														
PHE 102	Physical Education & Activates (3)								√			√									
HUM 205	Human Rights				√		√		√												
EEC 290	Bachelor Project	√		√			√	√	√	√	√		√			√	√	√	√	√	√
<b>Fifth Semester</b>																					
EEC 251	Communication (4)	√	√	√	√	√					√		√	√			√	√	√		
EEC 273	Advanced Optical Fiber Communications	√			√									√				√	√		
EEC 274	Advanced Mobile Communications	√	√	√	√	√					√		√		√	√	√	√	√	√	
EEC 277	Wireless Networks and Applications	√	√		√						√			√	√	√	√	√	√		
EEC 280	Communication Security Systems	√	√			√					√		√			√				√	
EEC 284	Advanced Satellite Communications	√		√															√		√
HUM 204	Principles of Negotiation						√		√		√										
HUM 202	English Literature							√	√												
<b>Sixth Semester</b>																					
FTR 261	Field Training (4)					√	√		√		√			√	√		√	√	√	√	