

Campus:	Main campus
Faculty:	Faculty of Electrical Engineering
Department:	Computer Science
Coordinator:	Aatif Hussain

Noe: Mapping can be done by matching the keywords or statement parts of each CLO (or course discription) with SDGs. Please see the additional sheets for more details. In following table, we only need Course-SDGs mapping for all the courses.

Courses and SDGs mapping																			
Sr #	Code	Course	SDG 1 No Poverty	SDG 2 Zero Hunger	SDG 3 Good Health and Well-being	SDG 4 Quality Education	SDG 5 Gender Equality	SDG 6 Clean Water and Sanitation	SDG 7 Affordable and Clean Energy	SDG 8 Decent Work and Economic Growth	SDG 9 Industry, Innovation and Infrastructure	SDG 10 Reduced Inequality	SDG 11 Sustainable Cities and Communities	SDG 12 Responsible Consumption and Production	SDG 13 Climate Action	SDG 14 Life Below Water	SDG 15 Life on Land	SDG 16 Peace & Justice Strong Institutions	SDG 17 Partnerships to achieve SDGs
1	CS-161	Programming Fundamentals				✓				✓	✓	✓	✓						
2	CS-102	Introduction to Computing				✓				✓	✓		✓						
3	HU-102	Functional English				✓	✓					✓	✓						
4	MA-123	Calculus				✓					✓		✓		✓				
5	PHY-111	Applied Physics							✓		✓				✓		✓		✓
6	ME-100L	Workshop Practice				✓				✓	✓	✓	✓						
7	CS-162	Object Oriented Programming				✓					✓	✓							
8	CMPE-222	Digital Logic Design				✓					✓		✓						
9	HU-240	Psychology			✓	✓	✓					✓						✓	
10	HU-111	Communication Skills (Lab)				✓	✓					✓							
11	MA-224	Multivaraiate Calculus				✓					✓		✓						
12	MA-343	Applied Probability & Statistics								✓	✓	✓	✓						
13	QT-101	Translation of the Holy Quran				✓	✓											✓	✓
14	CS-261	Data Structures and Algorithms				✓				✓	✓								
15	HU-221	Technical writing and Presentation Skills				✓						✓	✓						
16	CS-271	Computer Organization and Assembly Language					✓				✓		✓						✓
17	MA-234	Linear Algebra				✓					✓		✓						✓
18	CS-270	Discrete Mathematics				✓					✓								✓
19	CS-262	Database Systems				✓					✓		✓					✓	
20	CS-263	Operating Systems				✓	✓				✓								
21	MA-228	Differential Equations				✓					✓				✓				✓
22	CS-272	Design and Analysis of Algorithms					✓			✓	✓				✓				
23	CS-273	Theory of Automata				✓					✓		✓						✓
24	QT-201	Translation of the Holy Quran				✓	✓					✓						✓	
25	CS-364	Information Security				✓				✓	✓							✓	
26	CS-371	Artificial Intelligence				✓				✓	✓		✓		✓			✓	
27	CS-301	Professional Practices in Software Development				✓				✓	✓								✓
29	CS-165	Software Engineering								✓	✓				✓				
30	CS-373	Computer Networks				✓					✓		✓		✓				



67	CS-493	Enterprise Application Development							✓	✓									✓
68	CS-494	E-Commerce							✓	✓		✓							
69	CS-495	Software Design & Architecture			✓				✓	✓					✓				
70	CS-496	Linux Kernel Implementation							✓			✓			✓				
71	CS-497	Intro to Program Analysis			✓				✓	✓		✓							
72	CS-498	Formal Methods			✓					✓		✓							✓
73	CS-581	Graph Databases			✓				✓	✓									
74	CS-582	Web semantics			✓					✓		✓							
75	CS-583	Leading Software Teams			✓				✓	✓		✓							✓
76	CS-584	Habits of Highly Effective Software Engineer			✓				✓	✓									
77	CS-585	Personal, Team and Executive Software Processes			✓				✓	✓		✓							
78	CS-586	Logical Paradigms of Computing			✓				✓	✓									
79	SWE-211	Software Requirements Engineering			✓				✓	✓									
80	SWE-221	Human Computer Interaction			✓	✓				✓		✓							
81	SWE-325	UX/UI Design			✓					✓									
82	SWE-331	Software Quality Engineering			✓	✓				✓		✓							
83	SWE-332	Software Measurement & Metrics			✓				✓	✓		✓							
84	CS-495	Software Project Management			✓				✓	✓									✓
85	SWE-442	Software Re-Engineering			✓					✓		✓							
86	CS-360	Fundamentals of Cyber Security							✓	✓									✓
87	CS-361	Network Security (Cyber Security Elective)							✓	✓									✓
88	CS-362	Digital Forensics (Cyber Security Elective)							✓	✓									✓
89	CS-363	Information Assurance (Cyber Security Elective)								✓									✓
90	CS-365	Malware Analysis and Development (Cyber Security Elective)							✓	✓									✓
91	CS-366	Penetration Testing (Cyber Security Elective)							✓	✓									✓
92	CS-367	Secure Software Design and Development (Cyber Security Elective)							✓	✓		✓							✓
93	CS-368	Vulnerability Assessment and Reverse Engineering (Cyber Security Elective)							✓	✓									✓
94	CS-384	Introduction to Data Science (Data Science Elective)			✓				✓	✓	✓		✓						
95	CS-385	Internet of Things (Data Science Elective)			✓					✓		✓			✓				
96	CS-399	Statistics for Data Science (Data Science Elective)			✓				✓			✓							
97	CS-482	Big Data Analytics (Data Science Elective)			✓	✓			✓	✓		✓			✓				
98	CS-483	Cloud Computing (Data Science Elective)			✓				✓	✓	✓				✓				
99	CS-484	Data Warehousing and Business Intelligence (Data Science Elective)			✓	✓				✓					✓				
100	CS-496	Data Visualization (Data Science Elective)			✓	✓		✓	✓	✓									
101	CS-354	Natural Language Processing (AI Elective)			✓				✓	✓									
102	CS-355 Data Mining [2-1	Data Mining (Data Science Elective, AI Elective)			✓	✓			✓	✓					✓				

