Information and Cyber Security Course/Students Outcomes Mapping

Courses		Program Outcomes					
Course No.	Course Title	PILO1	PILO2	PILO3	PILO4	PILO5	PILO6
Faculty Requirements							
AR142	Introduction to Artificial Intelligence	√	√				
AR241	Artificial Intelligence Programming	√	√	√		√	
30801101	Computer Skills (2) for Science Colleges	√	√				
30801203	Object Oriented Programming	√	√				
30801204	Object Oriented Programming Lab.	√	√			√	
AR231	Introduction to Unix	√	√				
30202101	Calculus (1)	√	√				
30202102	Calculus (2)	√	√				
Specialization Compulsory Requirements							
AR243	Machine Learning	√	√		√		
DS245	Machine Learning Lab	√	√	√			
ICS222	Web Programming	√	√	√	√		
ICS224	Web Programming Lab	√	√	√	√	√	
ICS261	Introduction to Number Theory	√		√			
AR211	Data Structures	√	√				
AR212	Design and Analysis of Algorithms	√	√				
AR214	Data Structures and Algorithms Lab.	√	√	√		√	
30102212	Digital Logic Design	√	√				
30102213	Digital Logic Design Lab		√	√		√	
ICS230	Computer Networks (1)	√	√		√		
ICS332	Computer Networks (1) Lab.	√	√	√			
30801243	Database Design and Management 1	√	√				
30801244	Database Design and Management Lab. 1	√	√	√		√	
ICS337	Computer Networks (2)	√	√		√		√
ICS441	Penetration Testing	√	√		√		√
30801322	Operating Systems	√	√				
ICS140	Principles of Information and Cyber Security	√	√		√		√
ICS242	Scripting Programming	√	√			√	√
ICS244	Fundamentals of Cryptography	√	√		√		√
ICS346	Networks Security	√	√		√		√
ICS348	Networks Security Lab.	√	√		√		√
ICS443	Digital Forensics	√	√		√		√
ICS445	Risk Management	√	√		√		√
ICS339	Mobile Application Development	√	√				√
ICS442	Cyber Law and Ethics	√			√		√
ICS471	Graduation Project (1)	√	√	√	√	√	√
ICS472	Graduation Project (2)	√	√	√	√	√	√
Specialization Elective Requirements							

ICS335	Systems analysis and Design	√	√	√			√
ICS344	Advanced Cryptography	√	√		√		√
ICS440	Web Security	√	√		√		√
ICS347	Internet of Things Security	√			√		√
ICS448	Cloud Computing Security	√	√		√		√
ICS446	Policy Design and Analysis	√		√	√		√
ICS447	Cyber Intelligence and Auditing	√		√	√		√
ICS449	Special Topics in Information and Cyber Security	√		√	√		√
ICS444	Secure Software Engineering	√	√				√
Supportive Specialization Courses							
30801214	Discrete and Mathematical Structures	√	√				
30202131	Probability and Statistics	√	√				