

Department of Computer Science Engineering
SRM University-AP, Andhra Pradesh
Curriculum
2023-2024

Semester-I			
CODE	COURSE NAME	CREDIT	L - T - P
CYS501	Mathematical Foundations for Cyber Security	3	3-0-0
AML500	Advanced Algorithms and Analysis	3	3-0-0
CYS502	Applied Cryptography	3	3-0-0
CYS502L	Applied Cryptography Lab	2	0-0-3
CYS503	Network Design and Programming	3	3-0-0
CYS503L	Network Design and Programming Lab	2	0-0-3
CYS504	Web Security	3	3-0-0
CYS504L	Web Security Lab	2	0-0-3
EGL501	English for Research Paper Writing	1	1-0-0
	Total	22	16-0-9

Semester-II			
CODE	COURSE NAME	CREDIT	L - T - P
CYS505	Software Vulnerability Analysis	3	3-0-0
CYS506	Distributed System Security	3	3-0-0
CYS506L	Distributed System Security Lab	2	0-0-3
CYS507	Blockchain Technology	3	3-0-0
CYS507L	Blockchain Technology Lab	2	0-0-3
CYS508	Elective-I	3	3-0-0
CYS509	Elective-III	3	3-0-0
CYS510	Digital Forensics & Ethical Hacking Lab	2	0-0-3
RM101	Research Methodology & IPR	2	2-0-0
	Total	23	17-0-9

Semester-III			
CODE	COURSE NAME	CREDIT	L - T - P
	Project Work- Phase I	13	0-0-26
	Total	13	0-0-26

Semester-IV			
CODE	COURSE NAME	CREDIT	L - T - P
	Project Work –Phase II	13	0-0-26
	Total	13	0-0-26

List of Electives

List of Electives					
Course Code	Course Name	L	T	P	C
	Information Theory and Coding	3	0	0	3
	Network and Wireless Security	3	0	0	3
	Biometric Security	3	0	0	3
	Information Storage Management	3	0	0	3
	Software & System Security	3	0	0	3

	Digital Watermarking and Steganography	3	0	0	3
	Intrusion Detection and Prevention Systems	3	0	0	3
DSC 553	Cybercrime Investigations and Digital Forensics	3	0	0	3
	Intellectual Property Rights	3	0	0	3
	Security in Cloud Computing	3	0	0	3
	Internet of Things and Security	3	0	0	3
	Information Security and Privacy	3	0	0	3
	Security Analysis of Protocols	3	0	0	3
	Banking Technology and Management	3	0	0	3
	Machine Learning	3	0	0	3
	Big Data Analytics	3	0	0	3
AML553	Information Retrieval	3	0	0	3
AML554	Pattern Recognition	3	0	0	3