RK University School of Engineering PROGRAM: B. Tech - Cyber Security Batch 2022-2026

		(Batch - 2022-26)			
<u>a</u> N	TEACHIN	CHEME Teaching Hours			
Sr.No.	Course Name	Theory	Tutorial	Practical	Credits
1	Mathematics-1 Linear Algebra and Calculus	3	1	0	4
2	Problem Solving and Algorithm Thinking	3	0	4	5
3	Fundamentals of Cybersecurity	3	0	1	4
4	Principles of Programming Languages	2	0	2	3
5	Applied Science	2	0	2	3
6	English as a Second Language – Intermediate Level 1	3	0	0	3
7	Seminar	0	0	2	1
8	University Elective – I NSS YOGA Professional Ethics	0	0	2	2
	TOTAL	16	1	13	25
	Total Teaching Hours		30		

	SEMESTER – II (Batch - 2022-26)							
	TEACHING SCHEME							
Sr.No.	Course Name		Teaching Hours		Credits			
51.110.		Theory	Tutorial	Practical	Creuits			
1	Mathematics-2 Number Theory and Algebra	3	1	0	4			
2	Classical Cryptography	3	0	0	3			
3	Python Programming - 1	2	0	2	3			
4	Human Behaviour and Psychology of the Criminals	3	0	0	3			
5	Computer Hardware and System Essentials	2	0	2	3			

6	Information and Communication Technology	3	0	2	4
7	Environmental Science	2	0	0	2
8	English as a Second Language – Intermediate Level 2	3	0	0	3
9	University Elective – II NSS YOGA Professional Ethics	0	0	2	
	TOTAL	21	1	8	25
	Total Teaching Hours		30		

	SEMESTER -	- III (Batch - 2022-26)			
	ТЕАСН	ING SCHEME			
Sr.No.	Course Name		Teaching Hours		Credits
51.110.		Theory	Tutorial	Practical	Creatts
1	Mathematics-3 Advanced Calculus	3	1	0	4
2	Python Programming-2	0	0	4	2
3	Operating Systems	2	0	4	4
4	Software Engineering and Project Management	3	0	2	5
5	Database Management System	3	0	4	5
6	Multimedia Processing	2	0	2	3
	TOTAL	13	1	16	23
	Total Teaching Hours		30		

	SEMESTER – IV	(Batch - 2022-26)			
	TEACHING	G SCHEME			
Sr.No.	Course Name		Teaching Hours		Credits
51.110.		Theory	Tutorial	Practical	Creatis
1	Probability and Statistics	3	1	0	4
2	Datastuctures and Algorithm	2	0	4	4
3	Modern Cryptography - 1	3	0	2	4
4	Computer Networks and Network Vulnerabilities	3	0	2	4
5	Computer Organisation and Architecture	3	0	2	4
6	Machine Learning and Deep Learning Fundamentals for Cybersecurity	3	0	2	4

TOTAL	17	1	12	24
Total Teaching Hours		30		

	SEMESTE	R – V (Batch - 2022-26)			
	TEAC	CHING SCHEME			
Sr.No.	Course Name		Teaching Hours		Credits
SI.INU.	Course Name	Theory	Tutorial	Practical	Creuits
1	Fundamentals of Web Technology	3	0	4	5
2	Java Programming and OOP	0	0	4	2
3	Modern Cryptography - 2	2	0	2	4
4	Artificial Intelligence and Neural Networks	3	0	4	5
5	Mobile Computing Security and Privacy	3	0	2	4
	University Elective – III				_
6	Entrepreneurship Basic	3	0	0	3
	Campus to Corporate Trainning				
	TOTAL	14	0	16	23
	Total Teaching Hours	30			

		R – VI (Batch - 2022-26)			
	TEAC	CHING SCHEME			
Sr.No.	Course Name		Teaching Hours		Credits
51.110.		Theory	Tutorial	Practical	Creuits
1	Cyber Forensics	2	0	2	3
2	Web Technology and Vulnerabilities	3	0	2	4
3	Database Security	3	0	4	5
4	University Elective – IV AI in Cyber Security Security in Wireless AdHoC Network Constitution of India and Cyber Law	3	0	4	5
5	University Elective – V IoT Security Blockchain Security	3	0	4	5
6	Design Thinking and Technical Writing	2	1	0	3
	TOTAL	16	1	16	25
	Total Teaching Hours		33		

	SEMESTER – VII (Batch - 2022-26)							
TEACHING SCHEME								
Sr.No.	Course Name		Teaching Hours		Credits			
SI.INU.		Theory	Tutorial	Practical	Creuits			
1	Android Application Development	3	0	4	5			
2	Cyber Law and Ethics	3	1	0	4			
3	University Elective – V Basics of Applied Cryptography Cloud Security Application Security	3	0	4	5			
4	Information Security Management System	2	1	0	3			
5	Ethical Hacking and Penetration Testing	1	0	4	3			
6	Mini Project	4	0	0	4			
	TOTAL	16	2	12	24			
	Total Teaching Hours		30					

	SEMESTER – VIII (Batch - 2022-26)							
	TEACHING	SCHEME						
Sr.No.	Course Name	Teaching Hours			Credits			
SI.INO.	Course Ivaine	Theory	Tutorial	Practical				
1	Project and Internship	15	0	0	15			
	TOTAL							
	Total Teaching Hours	0			15			