## SWARNANDHRA COLLEGE OF ENGINEEERIN G AND TECHNOLGY (AUTONOMOUS)

## SEETHARAMPURAM, NARSAPUR-534280, WG- DT, AP DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

## TEACHING PLAN

1	Course Code	Course Title	Year / Sem.	Branch	Contact Hr/ week	Academic Year	Date of Commencem ent of Semester
	20MC3L03	Network and Security Lab	11/111	мса	3	2024-25	22.08.2024

## Course Outcomes (COs): At the end of the course, student will be able to

		Knowledge Level (K)#
CO1	Implement Data Link layers methods	кз
CO2	Demonstrate Networking programs	кз
CO3	Apply the knowledge of symmetric cryptography to implement encryption and decryption using Ceaser Cipher, Substitution Cipher, Hill Cipher	кз
CO4	Demonstrate the different algorithms like DES, BlowFish, and Rijndael, encrypt the text "Hello world" using BlowfishAlgorithm.	К2
CO5	Analyze and implement public key algorithms like RSA, Diffie-Hellman Key Exchange mechanism, the message digest of a text using the SHA-1 algorithm	

S.No	EXERCISE/PROGRAM	Proposed Number Labs	
	EXERCISE-1		
1	Implement the data link layer farming methods such as character stuffing and bit stuffing.	1	
	EXERCISE-2		

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2	Implement on a data set of characters the three CRC polynomials - CRC 12, CRC16 and CRCCCIP.	1	
	EXERCISE-3	Charles and Short the	(majoring
3	Implement Dijkstra's algorithm to compute the Shortest path through a graph.		/guardin
The Paris	EXERCISE-4	in opposite the state of	Allies who
4	Take an example subnet graph with weights indicating delay between nodes. Now obtain Routing table art each node using distance vector routing algorithm	1	Pravis
	EXERCISE-5	And resident (green) breakly (green)	rather three
5	Take an example subnet of hosts. Obtain broadcast tree for it	1	
	EXERCISE-6		The decars
6	Write a C program that contains a string (char pointer) with a value \Hello World'. The program should XOR each character in this string with 0 and displays the result.	1	
	EXERCISE-7		(Approximate)
7	Write a C program that contains a string (char pointer) with a value \Hello World'. The program should AND or and XOR each character in this string with 127 and display the result	1	
	EXERCISE-8		and the latest
8	Write a Java program to perform encryption and decryption using the following algorithms:  a) Ceaser Cipher b) Substitution Cipher c) Hill Cipher		
	EXERCISE-9	M. And Charles then a year of a find a party	No. of Control of Control
9	Write a Java program to implement the DES algorithm logic	the production of the second	n ( Holosopp
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Head of the Department Principal