FACULTY OF:-Computer Science
FACULTY OF:- Master of Computer Application
SEMESTER: -   V
CODE: -5CS05MTM1
NAME:- PROGRAMMING TECHNIQUE-X (WNS)

Teaching and Evaluation Scheme:-

Subject Code	Name of the Subject	Teaching Scheme (Hours)				Credits	Evaluation Scheme							Total
							Theory				Practical (Marks)			
		Th	Tu	Pr	Total		Sessional Exam		University Exam		Internal		University	
							Marks	Hrs	Marks	Hrs	Pr/Viva	TW	Pr	
5CS05MTM1	**Programming Technique –X (WNS)**	0	0	4	4	2	0	0	0	0	20	-	80	**100**

Course outline:-

Sr. No.	Experiments
1.	Demonstration of Wi-Fi model.
2.	Demonstration of Wireless LAN.
3.	Demonstration TCP Dump.
4.	Demonstration of WireSharks,
5.	Demonstration NS2 .
6.	Using C socket programming demonstrates implementation of **Ceaser cipher**. Sender side reads data from file and then encrypts it using ceaser cipher method and sends it to the receiver. Receiver side must able to decrypt and display original message received via socket.
7.	Using C socket programming demonstrates implementation of **Transposition cipher** technique. Sender side reads data from file and then encrypts it using transposition cipher method and sends it to the receiver. Receiver side must able to decrypt and display original message received via socket.
8.	Using C Socket Programming demonstrate implementation of **Mono-alphabetic cipher**. Sender side reads data from file and then encrypts it using mono – alphabetic substitution cipher method and sends it to the receiver. Receiver side must able to decrypt and display original message received via socket.
9.	Using C Socket Programming demonstrate implementation of **One-time Pad**. Sender side reads data and pad from file and then encrypts the data using one – time pad method and sends both data and the pad to the receiver. Receiver side must able to decrypt and display original message received via socket.

10.	Using C Socket Programming demonstrate implementation of **Product Cipher**. Sender side reads data and pad from file and then encrypts the data using one – time pad method and sends both data and the pad to the receiver. Receiver side must able to decrypt and display original message received via socket.
11.	Using C Socket Programming demonstrate implementation of**S-Box**. Sender side reads data from file and then encrypts the data using S – Box method and sends it to the receiver. Receiver should decrypt the data and store data in output file. C security packages are not to be used.
12.	Using C Socket Programming demonstrate implementation of**P-Box**. Sender side reads data from file and then encrypts the data using P – Box method and sends it to the receiver. Receiver should decrypt the data and store data in output file.
13.	Using C security package APIs and socket programming demonstrate implementation of Symmetric DES with ECB mode. Sender side reads data from file and sends both, the encrypted data and the key used, to the receiver. Receiver side must able to decrypt and display original message received via socket.
14.	Using C security package APIs and socket programming demonstrate implementation of AES with CFM mode. Sender side reads data from file and sends both, the encrypted data and the key used, to the receiver. Receiver side must able to decrypt and display original message received via socket.
15.	Using C security package APIs and socket programming demonstrate implementation of RSA. Sender side reads data from file and sends both, the encrypted data and the key used, to the receiver. Receiver side must able to decrypt and display original message received via socket.
16.	Using C security package APIs and socket programming demonstrate implementation of Stream Cipher implementation of Triple DES with CBC mode. Sender side reads data from file and sends both, the encrypted data and the key used, to the receiver. Receiver side must able to decrypt and display original message received via socket.