## SVKM's Mithibai College of Arts, Chauhan Institute of Science & Amrutben Jivanlal College of Commerce & Economics (AUTONOMOUS)

Prog	ram: Bachelor	of Science (Computer Science	e)	Semes	ster: V	
Cour	rse: Compute	r Science Practical 12 (Inf		Cours	se Code: USMACSP534	
Netw		and Optimization Technique)	<u> </u>	England on Calana		
Teaching Scheme			Evaluation Scheme			
Practical (Hours per week)			Continuou Assessment (		Semester End Examinations (SEE)	
		Credit	Assessment (	CA)	Examinations (SEE)	
	por woor,					
6		3	20%		80%	
List	of Practical: In	nformation and Network Secur	rity (Languages	use as	Python / java)	
Sr. No.	Topic					
1	Write programs to implement the following Substitution Cipher Techniques: - CaesarCipher - Monoalphabetic Cipher					
2	Write programs to implement the following Substitution Cipher Techniques: - VernamCipher - Playfair Cipher					
3	Write programs to implement the following Transposition Cipher Techniques: - Rail Fence Cipher - Simple Columnar Technique					
4	Write program to encrypt and decrypt strings using - DES Algorithm - AES Algorithm					
5	Write a program to implement RSA algorithm to perform encryption / decryption of agiven string.					
6	Write a program to implement the Diffie-Hellman Key Agreement algorithm to generate symmetric keys.					
7	Write a program to create worm.					
8	Write a program to create a virus					
9	Write a program to generate SHA-512					
10	Write a program to calculate HMAC-SHA1 Signature					
List o	of Practical: O <sub>l</sub>	ptimization Technique				
Sr. No.	Topic.					
	LPP by graphical minimization/ maximization of LPP					
1	LPP by graph	ical minimization/ maximization	n of LPP			