



Karnataka Reddy Jana Sangha^(R)

VEMANA INSTITUTE OF TECHNOLOGY

Approved by AICTE-New Delhi, Affiliated to VTU-Belagavi, Recognized by Govt. of Karnataka
#1, Mahayogi Vemana Road, 3rd Block, Koramangala, Bengaluru - 34.

www.vemanait.edu.in



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes & CO-PO-PSO Mapping and Justification

Subject	Cryptography	18CS744
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COURSE OUTCOMES:		
CO No.	On completion of this course, students will be able to:	Cognitive Level
18CS744.1	Understand cryptography basics, algorithms and mathematical background for cryptography.	L2 Understand
18CS744.2	Analyze the important cryptographic algorithms.	L4 Analyze
18CS744.3	Understand key management issues and algorithms.	L2 Understand
18CS744.4	Understand digital certificates , authentication protocols and email security.	L2 Understand
18CS744.5	Understand IP Security	L2 Understand

CO-PO-PSO MAPPING

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18CS744.1	2	2	-	-	-	-	-	-	-	-	-	-	1	1	-
18CS744.2	2	2	-	1	-	-	-	-	-	-	-	1	2	2	-
18CS744.3	2	2	-	-	-	-	-	-	-	-	-	1	2	2	-
18CS744.4	2	-	-	-	-	-	-	-	-	-	-	1	2	-	-

18CS744.5	2	-	-	-	-	-	-	-	-	-	-	1	2	-	-
18CS744	2.0	2.0	-	1.0	-	-	-	-	-	-	-	1.0	1.8	1.7	-

CO-PO-PSO JUSTIFICATION

CO No.	PO/PSO	CL	Justification
18CS744.1	PO1	2	Moderately mapped as students can understand the concepts of modulus operation, encryption and decryption techniques in cryptography.
	PO2	2	Moderately mapped as students can compare and contrast alternative solutions to select the best encryption and decryption techniques.
	PSO1	1	Slightly mapped as students apply the concepts of cryptography to secure the application software.
	PSO2	1	Slightly mapped as students apply the concepts of cryptography to secure the system software such as operating systems, compilers and debuggers.
18CS744.2	PO1	2	Moderately mapped as students can apply mathematical models to secure applications against different types of attacks.
	PO2	2	Moderately mapped as students can compare and contrast alternative solutions to select the best encryption and decryption techniques.
	PO4	1	Slightly mapped as students can develop different cryptographic algorithms to secure applications against different types of attacks.
	PO12	1	Slightly mapped as students can use the concepts of cryptography in application and system software.
	PSO1	2	Moderately mapped as students apply the concepts of cryptography to secure the application software.
	PSO2	2	Moderately mapped as students apply the concepts of cryptography to secure the system software such as operating systems, compilers and debuggers.
18CS744.3	PO1	2	Moderately mapped as students can understand the concepts public, private keys, symmetric and asymmetric keys.
	PO2	2	Moderately mapped as students can apply mathematical models to public, private keys, symmetric and asymmetric keys.
	PO12	1	Slightly mapped as students can use the concepts of keys in encryption and decryption algorithms.
	PSO1	2	Moderately mapped as students apply the concepts of cryptography to secure the application software.

	PSO2	2	Moderately mapped as students apply the concepts of cryptography to secure the system software such as operating systems, compilers and debuggers.
18CS744.4	PO1	2	Moderately mapped as students can understand the concepts of digital certificate X-509 and authentication protocols.
	PO12	1	Slightly mapped as students can use the concepts of digital certificates, authentication and email security.
	PSO1	2	Moderately mapped as students apply the concepts of cryptography to secure the application software.
18CS744.5	PO1	2	Moderately mapped as students can understand the concepts of IP Security.
	PO12	1	Slightly mapped as students can use the concepts of IP Security.
	PSO1	2	Moderately mapped as students apply the concepts of cryptography to secure the application software.

Prepared by

Veena G & Jagadamba A

HoD

Dr. M Ramakrishna