



**Course Name:** Cryptography

**(UG/PG):** PG

**Number of Credits:** 3

**Level:** 4

**Learning Objective(s):** The objective of this course is to familiarize students with cryptography and its applications in security. The course is designed to build to understand and analyze the different algorithms and techniques used with encryption and authentication

**Pedagogy:**

Lectures  
Class work discussion  
Case studies

**Course Outline:**

Sr.No.	Topic	Hours
1	Introduction to cryptography	2
2	DES	2
3	IDEA	2
4	BlowFish/AES	3
5	Message digests	3
6	Digital Signatures and Certificates	6
7	RSA	3
8	SSL	3
9	SET	2
10	Kerberos	3
11	Authentication techniques	5
12	Email security	2
13	Firewalls	3
14	VPN	2
15	Java cryptography	4
	<b>Total</b>	<b>45</b>

**Books Recommended:** Introduction to Modern Cryptography, Katz and Lindell

**Suggested Evaluation Methods:**

**Parallel/Similar courses the existing curriculum:**

S.No.	Name of the course	Institute where it was offered

Name of Member					
Designation					
Org. / Inst.					
Signature					

Signature:

Date: