14 as Monday PRINCIPLES OF INFORMATION SECURITY

9 TAUGHT BY

11

• prof. Srinathan kannan

COURSE TOPICS

- · classical cryptography and their cryptanalysis
- · perfect secrecy
- · shannon's theorem
- · pseudorandom generators
- · Stream ciphers
- · CPA secure encryption
- · pseudorandom permutations
- * practical black ciphers (3-DES, AES)
- · modes of operation
- · MACS
- · hash functions

16

10

12

Wednesday

136-220

- · byzantine agreement
- · secure multi-party computation
- · interactive proof systems
 - · cryptography in noisy channels
 - · quantum cryptography
- 2 TEXTBOOK
- 3 e. introduction to modern cryptography; lindell.
- 2. boundations of modern cryptography; goldreich. (2001)
- 5 30 handbook of applied cryptography; menezes. (1996)

7

7