Sem.	Course Code	Non-Major Elective II: Information Security and Cyber Laws	Total Marks:75		Hours Per Week	Credits
IV	19UAKNT406		CIA :-	ESE :75	2	2

OBJECTIVE:

To enable the Students learn the basics of information security and gain the knowledge about all the aspects of Cyber laws and Cryptography.

COURSE OUTCOMES:

At the end of the course, the students will able to

CO1: Understand the basics of Information Technology (Understand)

CO2: Classify all types of crimes related to electronic records (Understand)

CO3: Use authentication technology in case of digital signatures (Apply)

CO4: Recognize Cyber laws and Security Policies and Cryptography (Remember)

CO5: Identify the different sections in Information Technology Act, 2000 (Remember)

UNIT- I

Introduction–Computer: Evolution, Generation, Types, Major Components, Characteristics and Limitations-Information Technology.

UNIT – II

Cyber Space: Salient Features of Cyber Space – Netizen – Cyber Crime - Malware or malicious Computer Codes - Network and Network Security.

UNIT – III

Cryptography – Encryption Technique and Algorithm and Digital Signature – Electronic Signature.

UNIT - IV

Cyber Laws - Components of Cyber Law - Indian Position - Amendment of some conventional laws - Wider Interpretation of other conventional laws.

UNIT – V

Cyber Law in India: An overview of Information Technology Act 2000.

TEXT BOOK:

Dr. Jyoti Rattan - Cyber Laws & Information Technology-Sixth Edition, Bharat Law House Private Ltd., New Delhi, 2017.

UNIT I: Chapter 1: Section 1.1 – 1.3

UNIT II: Chapter 1: Section 1.4 – 1.5, Chapter 3, Chapter 4: Section 4.1- 4.2

UNIT III: Chapter 7

UNIT IV: Chapter 5: Section 5.1 – 5.3

UNIT V: Chapter 6

REFERENCEBOOKS:

1.Angur Shree Aggarwal, Sanjeev Kumar Sharma, Anuradha Tyagi, Shalu Goel- Information Security and Cyber Laws-First Edition, Vayu Education of India,New Delhi, 2011.

2. Richard E. Smith - Internet Cryptography – Pearson Education Private Ltd., 2013.

3. Neal Krawetz – Introduction to Network Security – Baba Barkha Nath Printers, New Delhi, 2007.

4. C K Shyamala, N.Harini, Dr T R Padmanabhan, Cryptography and Security-First Edition, Wiley India Private Ltd., New Delhi, 2011.

5. Atul Kahate- Crytography and Network Security-Second Edition, Tata McGraw–Hill Publishing Company Limited, New Delhi, 2008.

Question Paper Pattern
SECTION–A **Five Questions** **(Either or Choice)** **Two Questions from each unit** **(5 x 15 = 75 Marks)**