

## Appendix - I

### Post Graduate Degree in Master of Cyber Law & Information Technology

#### FIRST SEMESTER

Sr.No	Name of Subject	No. of Credits	Max. Marks	Min. Marks
1.1	Computer & Networks	4	100	50
1.2	The Information Technology Act	4	100	50
1.3	Information Technology Law – International Perspective	4	100	50

#### SECOND SEMESTER

Sr.No	Name of Subject	No. of Credits	Mix. Marks	Min.Marks
2.1	Cyber Crime : New Challenges	4	100	50
2.2	Practical i) Computer Practical Ext Examiner -100Marks ii) Viva Voce –Ext Examiner -25 Marks iii) GGroup Discussion – Ext. Examiner -25 marks	6	150	75
2.3	Project Work and Viva -Voce. ( External Examiner) i) Project Work -100Marks ii) Viva – Voce – 50 Marks	6	150	75

#### THIRD SEMESTER

Sr.No	Name of Subject	No. of Credits	Mix. Marks	Min.Marks
3.1	Principles of E- Commerce	4	100	50
3.2	Digital Signature	4	100	50
3.3	Seminar & Group Discussion i) Seminar –Internal Examiner-50 Marks ii) Group Discussion – External Examiner – 50 Marks	4	100	50

## **FOURTH SEMESTER**

Sr.No	Name of Subject	No. of Credits	Max. Marks	Min. Marks
4.1	Cyber Security	4	100	50
4.2	Field Visits/ Work ( Internal Examener)	4	100	50

### **APENDIX-II**

#### **DETAILED SYLLABUS**

#### **Master of Cyber Law and Information Technology**

#### **FIRST SEMESTER**

#### **PAPER –I**

#### **COMPUTER AND NETWORKS**

1. Fundamentals of Computers :-
  - a) Early computing machines.
  - b) Computer and its assembly.
  - c) Software.
  - d) Computer memory, type of memory and speed.
  
2. Basics of Networks and Internet :-
  - a) Computer networks and its need.
  - b) Networks topology.
  - c) Types of networks.
  - d) History of Internet.
  - e) Concept of Internet and www.
  - f) Working of Internet.
  - g) Protocols.
  - h) Web publications.
  - i) Cyber space.
  - j) Organisations of Internet management.
  - k) Related Terms (Abbreviations).

3. Fundamentals of E-commerce :-
  - a) Basic of e-commerce.
  - b) Types of e-commerce.
  - c) Benefits.
  
4. Cyber crimes and cyber terrorism :-
  - a) Cyber crimes and the categories of crime
    - i) Cyber frauds    ii) Cyber thefts    iii) Cyber    stacking
  - b) Cyber Terrorism.
  - c) Hacking, Virus, Trojan, worms etc.
  
5. Internet Security concept :-
  - a) Concept of security
  - b) Firewalls and types.
  - c) Security products.
  - d) Biometrics.
  
6. Cryptography :-
  - a) Introduction of Cryptography
  - b) Type of Cryptography.
  - c) Cryptographic goals.
  - d) Key and Keypair.
  
7. Digital signatures and electronic signatures :-
  - a) Technical issue of digital and electronic signature.
  - b) Recognition and authentication of digital and electronic signatures
  - c) Benefits.
  
8. PKI Infrastructure:-
  - a) PKI Components.
  - b) PKI Applications.
  - c) Certification.
  
9. Electronic Payment system and Taxation.

## **PAPER II**

### **INFORMATION TECHNOLOGY ACT**

1. Salient features of IT Act - 2000.
  - a) Definitions.
  - b) Electronic record and digital signature authentication.
  - c) Electronic governance.
  - d) Various authorities under IT Act and their powers.
  - e) Penalties.
  - f) Offences.
  - g) Miscellaneous.
2. Impact on other related Acts (Amendments) :-
  - a) Amendments to Indian Penal Code.
  - b) Amendments to Evidence Act.
  - c) Amendments to Bankers Book Evidence Act.
  - d) Amendments to Reserve Bank of India Act.
3. Concept of Cyber – space jurisdiction and other principal of jurisdiction:
  - a) Territorial jurisdiction
  - b) Extra Territorial jurisdiction
  - c) Cyber – space jurisdiction
4. Investigation of Cyber crime (Technical Issue)

## **PAPER III**

### **Information Technology Law : International Perspective**

#### **Section-A : Electronic Data Interchange**

- 1) EDI : Concept and legal Issues.
- 2) UNCITRAL Model Law.
- 3) Electronic Signature Law's of Major Countries
- 4) Cryptography Laws
- 5) Cyber Law's of Major Countries

## **Section –B : Law of Intellectual Property.**

- 1) Copy Right Act.
- 2) Trade and Merchandise Act
- 3) Patent Act
- 4) Domain Name Disputes
- 5) Cyber-Squatting
- 6) Important Case Laws.

## **SECOND SEMESTER**

### **PAPER-IV**

### **CYBER CRIME: NEW CHALLENGES**

#### **UNIT I CYBERCRIME AND THE INTERNET :**

A New High Tech Crime Paradigm – Perception of cybercrime – A brief history and analysis of the internet – Cybercrime classification – Challenges for criminology, criminal justice and policing.

#### **UNIT II HACKERS, ATTACKS AND CRIMES :**

Hackers and hacking: Introduction – Representation – myths and realities – Hacking and the law. Attacks and Crimes: Introduction – Types of Abuse, Attacks and Crime – Evolving Forms of Cybercrimes, Attacks and Conflict – Computer Abusers and Cybercriminals.

#### **UNIT III THEORETICAL AND SOCIAL PERSPECTIVES ON CYBERCRIME :**

Introduction – Theories – Classical Criminology – Trait Theories – Social Process Theories – Social Structure Theories – Conflict Theories – Integrated Theories – The Social and Economic Impacts of Cybercrime – Emerging Crime – Related Issues and Controversies.

#### **UNIT IV MANAGING CYBERCRIME :**

Cyber Laws and Regulations: Introduction – The Rationale and Reach of Cyber Laws – Laws and Regulations are Created and Administered – Bodies of U.S. Law Pertaining to IT and Cybercrime Issues – Federal Cybercrime Laws and InfoSec Regulations – Investigating and Prosecuting Cybercrime: Introduction – Criminal Justice System Components – Legal Issues Governing Investigative Procedures – Crime Scene Processing and Evidence Management – Prosecuting Cybercriminals.

#### **UNIT V PREVENTING CYBERCRIME :**

Preventing Cybercrime via Information Security: Introduction – Personal and Organizational Information Security Protocols – Advancing the Security Posture of Organizations – The Purpose and the Value of Auditing – Future Opportunities for Managing Cybercrime: Introduction – Government Prevent Cybercrime – Transformation of Information Security Folk Artistry – Career Opportunities.

## PAPER –V

### Practical on Computer shall be conducted on following topics

#### UNIT- I :

##### DOS & WINDOWS Xp

File Types, Directory Structure, Booting (Warm and Cold), Internal and External DOS Commands, Wildcard Characters, Commands related to Directory (DIR, MD, CD, RD, TREE, PATH), Commands related to files (COPY, DEL, ERASE, REN, ATTRIB, FORMAT, SCANDISK, XCOPY, BACKUP, RESTORE), General Commands (TYPE, DATE, EDIT, TIME, PROMPT), Use of Wildcard characters in different commands,

Introduction to Windows Operating System and their examples, Graphical User Interface, Various applications and Utilities of Windows Operating System, Starting applications, Creating shortcuts, files, folders and sub-folders, Copying files and folders, Control Panel (Add Hardware, add or remove program, display properties, date and time properties, taskbar and start button, mouse, keyboard), Accessories (Notepad, WordPad, Paint, Calculator)

#### UNIT- II

##### Introduction to Microsoft Word 2007

Creating a new document, designing a document, saving and closing a document, different views of document.

**Formatting :** Selection of text, Cut, Copy, Paste, Delete, Alignments, Bold, Italic, Underline, Borders and Shadings, Tabs, Paragraph settings, Page Setup, Print preview, Print, Spellings and Grammar check, Drop Caps, Bullets and Numbering, Columns settings, Header and Footer, Endnotes and Footnotes, Inserting Pictures, Clipart, Shapes, Wordart, Text box, Find and Replace, Change Case.

Inserting or Creating Tables, Add and remove Columns and Rows, Inserting Text, Change text directions, Sorting (Ascending and Descending), Inserting formula in the tables, Working with formulas like SUM, PRODUCT, MAX, MIN, MOD, AVERAGE, INT, Table properties, Table Autoformat, Mailmerge.

#### UNIT -III

##### Introduction to Microsoft Excel 2007

Introduction to Excel, Concept of Worksheet and Workbook, Creating a new worksheet, saving and closing a worksheet, different views in Excel.

**Formatting :** Paste special, Fill Series, Format Cell, Split Cell, Borders and Shadings, Data Sort (Ascending & Descending), Auto Filter, Advanced Filter, Conditional Formatting, Working with Functions (Mathematical, Text, Statistical, Logical and Financial), Goal Seek Function, Workbook and Worksheet linking. Inserting Chart, Formatting of Chart

#### UNIT- IV

##### Introduction to Microsoft Powerpoint 2007

Introduction to Powerpoint, Designing, Saving and closing presentation, Different views of Powerpoint.

Inserting Slide, Pictures, Cliparts, Organisation Chart, Tables, Chart, Text Styling, Hide and Unhide slide, Header and Footer

Animation settings, Custom Animation, Transition, Applying Timings and sound effects to slide and text, Slide Show

## UNIT –V

### Internet

Creation of Email ID, Exchange of Email with and without attachment, Searching materials on Internet using different search engines, downloading and uploading of data

ii) Viva Voce( External Examiner) :- Viva will be conducted on topics mentioned above

iii) Group Discussion: Group Discussion will be held on emerging issues in Cyber Law

( External Examiner)

## Paper-VI

### Project Work and Viva -Voce.

- i) **Project Work** :- Students are required to prepare a project Work of 60-75 pages on a given topic . It will be evaluated by the External Examiner.
- ii) **Viva voce**: - Viva voce will be conducted on the basis of project work

### Books Suggested for Reading :

- 1) Vishwanathan Suresh T., "The Indian Cyber Law" Second Edition 2001:- Bharat Law House.
- 2) Prasad T.V.R. Satya, : "Law Relating to Information Technology (Cyber Laws)" 1<sup>st</sup> edition 2001:- Asia Law House.
- 3) Syed Shakil Ahmed and Reheja Rajiv, " A Guide to Information Technology" (Cyber Laws & E-commerce) Edition 2001:- Capital Law House.
- 4) Reed Chris, "Computer Law", Third Edition 1996 (First Indian Reprint 2000):- Universal Law Publishing Co. Pvt. Ltd.
- 5) Kamath Nandan,"Law Relating to Computers Internet & E-commerce (A guide to Cyber Laws & the Information Technology Act, 2000 with Rules & Notification)", 2<sup>nd</sup> Edition, Reprint : 2002:- Universal Book Traders.
- 6) P. Narayanan, " Intellectual Property (Trade Marks & the Emerging concepts of Cyber property rights (HB)", 3<sup>rd</sup> Edition. (HB), 2002:- Universal Book Traders.
- 7) C.Sam McQuade, "Understanding and Managing Cybercrime", Prentice Hall, 2006.
- 8) Dr Majid Yar, "Cybercrime and Society",; Sage Publications Ltd , 2006.