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Choice Based Credit System (CBCS) in Light of NEP-2020
M.Sc. Cyber Forensics - I SEMESTER

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MSCFN101		Fundamentals of Cyber Forensics	60	20	20	30	20	3	0	2	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; Th. - Theory
*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks

Course Objectives:
The student will have ability:

- To understand digital investigation
- Methods of storing data
- Computer Basics for Digital Investigators
-

Course Outcomes:
Upon completion of the subject, students will be able to:

- Know the computer crime investigation
- Understanding information related with cyber forensics
- Types of computer forensics tools

Unit 1: Computer Structure, Generations of Computer, Basic Applications of Computer, Componentsof Computer System,Basics of system software and application software. Digital Evidence and Computer Crime - History andTerminology of Computer Crime Investigation - Technology and Law - The InvestigativeProcess Investigative Reconstruction - Modus Operandi, Motive and Technology -DigitalEvidence inthe Courtroom.

Unit 2 : Understanding information - Methods of storing data: number systems, character codes, record structures, file formats and file signatures - Word processing and graphic file formats - Structure and Analysis of Optical Media Disk Formats - Recognition of file formats and internal buffers - Extraction of forensic artifacts– understanding the dimensions of other latest storage devices – SSD Devices.

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Unit 3:Computer Basics for Digital Investigators - Computer Forensic Fundamentals - Applying Forensic Science to computers - Computer Forensic Services - Benefits of Professional Forensic Methodology -Steps taken by computer forensic specialists.

Unit 4: Standards,Guidelines and Best Practices- Handling the Digital Crime Scene - Digital Evidence Examination Guidelines –ACPO – IOCE – SWGDE -DFRWS – IACIS HTCIA - ISO 27037

Unit 5:

Types of Computer Forensics Tools and Technology -Tools and Types of Military Computer Forensics Technology -Tools and Types of Law Enforcement Computer Forensic Technology -Tools and Types of Business Computer Forensic Technology.

List of Practical's

1. Identifying components of computer
2. Evidence collection from running computer using different tools
3. Imaging of an evidence using different tools
4. Image analysis using different tools
5. Windows registry analysis
6. Analysis of windows artifacts
7. Analysis of USB devices
8. Different password cracking techniques
9. Different steganography techniques
10. Report writing of an incident findings

Reference books

- Computer Forensics: Computer Crime Scene Investigation by John R. Vacca
- Computer Fundamentals by Anita Goel, Pearson India, ISBN: 9788131770948
- Computer Fundamentals: Concepts, Systems & Applications- 8th Edition by PritiSinhaandPradeep Sinha, BPB Publication
- Chad Steel, "Windows Forensics", Wiley, 1st Edition, 2006.
- Robert M Slade, "Software Forensics: Collecting Evidence from the Scene of a Digital Crime",Tata McGraw Hill, Paperback, 1st Edition, 2004.
- Practical windows Forensics by Ayman Shaaban, Konstantin Sapronov

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MSCFN102		Forms of Cyber Crime	60	20	20	30	20	3	0	2	4

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Course Objectives:
The main objectives of this course are to:

1. Understand the basics of Cyber Crime.
2. Forms of Cyber Crimes
3. Profile of Cyber criminals
4. Modus Operandi of various cybercrimes and frauds

Course Outcomes:
On the successful completion of the course, student will be able to:

1. Understand the basics of Cyber Crime.
2. Forms of Cyber Crimes
3. Profile of Cyber criminals
4. Modus Operandi of various cybercrimes and frauds

Unit 1: Cyber Crime – Introduction – History and Development – Definition, Nature and Extent of Cyber Crimes in India and other countries - Classification of Cyber Crimes – - Trends in Cyber Crimes across the world.

Unit 2 :
Forms of Cyber Crimes, Frauds – hacking, cracking, DoS – viruses, works, bombs, logical bombs, time bombs, email bombing, data diddling, salami attacks, phishing, steganography, cyber stalking, spoofing, pornography, defamation.

Unit 3 :
Modus Operandi of various cybercrimes and frauds – Definition of various types of cyber frauds – Modus Operandi - Fraud triangle – fraud detection techniques including data mining and statistical references - countermeasures.

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Unit 4:
Profile of Cyber criminals – Cyber Crime Psychology – Psychological theories dealing with cyber criminals

Unit 5: Cyber Crime Impacts on Society
Impact of cybercrimes – to the individual, to the corporate and companies, to government and the nation

Practical's

1. DoS attack (2 Nos)
2. Email Spamming (2 Nos)
3. Steganography (2 Nos)
4. Cryptography (2 Nos)
5. Password Cracking (2 Nos)
6. Criminological theories in cyber crime investigation (2 Nos)

Reference Books:

- National Cyber Crime Reference Handbook, AICTE, National Cyber Safety and Security Standards, Ministry of Social Justice and Empowerment, MSME, Govt of India.
- Cyber Criminology, Series Editor, Anthony J. Masys, Humanitarian Assistance and Homeland Security, University of South Florida, Tampa, USA, Springer (2018
- Public International Law of Cyberspace - Law, Governance and Technology Series 32,Series editors, Pompeu Casanovas, Giovanni Sartor, Springer (2017)
- Cyber Crime Investigations, Anthony Reyes, Syngress Publishing, Inc (2007).

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MSCFN103		Operating System Forensics	60	20	20	30	20	3	0	2	4

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Course Objectives:

- To understand operating system
- To understand system memory structure
- To understand mobile operating system

Course Outcomes:

1. Able to understand working of operating system
2. Able to understand memory structure and data recovery
3. Able to understand mobile operating systems.

UNIT I OVERVIEW Introduction – evolution on operating System - Process management – states – threads –IPC – Memory –types of memory – Management – files system and file handling.

UNIT II FILE SYSTEM AND DATA RECOVERY

Introduction – Disk handling – Booting – boot files- master boot record – Firmware - Files System: Windows,Linux, Apple - Hidden files systems. Data Recovery: Data Carving – searching deleted and sparse files – datahiding – Time stamping and lines – Volume shadow copies.

UNIT III MEMORY AND SYSTEM CONFIGURATION

Memory : Real , Virtual and addressing –layout - capturing, analysis –paging and swapping, SystemConfiguration: Windows- Linux-Mac OS X , Tracking Artifacts – Locating - tracking documents andshortcuts .

UNIT IV LOGS AND EXECUTABLE FILES

Log files – windows, UNIX, Application, Mac OS X, Security and Auditing; Executable

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files: Stacks andheaps - Portable - Files formats – windows, Linux, Apple - CLR and JVM – Debugging – System Calls andtracing

UNIT V MOBILE OPERATING SYSTEM AND NEWER TECHNOLOGIES

Introduction –Android , Blackberry , iOS Windows Mobile ; Newer Technologies - Virtualization, CloudComputing , Wearables , Drones ; Report – Writing Style , requirements and considerations.

Practical's

1. Memory Management (2 Nos)
2. Slack Space (2 Nos)
3. Data Recovery (2 Nos)
4. Email Tracking (2 Nos)
5. Linux/Unix Installing and basic commands (2 Nos)
6. Drones data recovery (2 Nos)
7. Mobile Imaging (2 Nos)

Reference Books:

1. William Stallings Operating Systems Internals and Design Principles Ninth Edition By Pearson.
2. Andrew S Tanenbum, Modern Operating Systems, Prentice-Hall of India Pvt.Ltd
3. Richard Petersen, Linux: The Complete Reference, Sixth Edition, McgrawHill.
4. Dhananjay Dhamdhere Operating Systems a Concept Based Approach McGraw Hill Education India
5. Avi Silberschatz, Greg Gagne, and Peter Baer Galvin Operating System Concepts JohnWiley & Sons, Inc.
6. Curt Schimel UNIX Systems for Modern Architectures 3rd edition Addison-Wesley
7. Operating System Forensics, 1st Edition by R Messier Publisher: Syngress; 1 edition (27 November2015)
8. Modern Operating System by Andrew S.Tanenbaum 3rd Edition, Pearson Education.
9. Security Strategies in Linux Platforms and Applications (Information Systems Security &Assurance) by Michael Jang (Sep 3, 2010)

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MSCFN104		Languages in Cyber Forensics	0	0	0	30	20	0	0	4	2

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Course Objectives:

- To write programs using C++.
- To write programs for solving real world problems using java collection frame work.
- To write multithreaded programs.
- To write GUI programs using swing controls in Java.
- To introduce java compiler and eclipse platform.
- To impart hands on experience with java programming.

Course Outcomes:

4. Able To write programs using C++.
5. Able to write programs for solving real world problems using java collection frame work.
6. Able to write programs using abstract classes.
7. Able to write multithreaded programs.
8. Able to write GUI programs using swing controls in Java.

List of experiments

1. Develop various C Programs using Control Structures
2. Develop various C programs using Switch case.
3. Develop a C program to illustrate recursive function.
4. Develop a C program to find the palindrome in each sentence.
5. Develop a C program to manipulate strings using string functions.
6. Develop a C Program using Functions
7. Write a C++ program to find the sum of individual digits of a positive integer.

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8. A Fibonacci sequence is defined as follows: the first and second terms in the sequence are 0 and 1. Subsequent terms are found by adding the preceding two terms in the sequence. Write a C++ program to generate the first n terms of the sequence.
9. Write a C++ program to implement the matrix ADT using a class. The operationssupported by this ADT are:a. Reading a matrix.b. Printing a matrixc. Addition of matricesd. Subtraction of matricese. Multiplication of matrices
10. Write C++programs that illustrate how the Single inheritance, Multiple inheritance Multilevel inheritance and Hierarchical inheritance forms ofinheritance are supported.
11. Write a C++program that illustrates the order of execution of constructors and destructorswhen new class is derived from more than one base class
12. Write a C++ program that illustrates how run time polymorphism is achieved using virtualfunctions
13. Use Eclipse or Net bean platform and acquaint with the various menus. Create a test project, add a test class, and run it. See how you can use auto suggestions, auto fill. Try code formatter and code refactoring like renaming variables, methods, and classes. Try debug step by step with a small program of about 10 to 15 lines which contains at least one if else condition and a for loop.
14. Write a Java program that works as a simple calculator. Use a grid layout to arrange buttons for the digits and for the +, -,*, % operations. Add a text field to display the result. Handle any possible exceptions like divided by zero.
15. Develop an applet in Java that displays a simple message. b) Develop an applet in Java that receives an integer in one text field, and computes its factorial Value and returns it in another text field, when the button named "Compute" is clicked.
16. Write a Java program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num 2 is displayed in the Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a Number Format Exception. If Num2 were Zero, the program would throw an Arithmetic Exception. Display the exception in a message dialog box.

References

1. E Balagurusamy: Computing Fundamentals & C Programming – Tata McGraw-Hill, Second Reprint 2008.
2. Ashok N Kamthane: Programming with ANSI and Turbo C, Pearson, 2002. 2. Henry
   Mullish& Hubert L.Cooper: The Sprit of C, Jaico, 1996.
3. E. Balagurusamy, Object-Oriented Programming with C++, TMH, 1998.
4. Maria Litvin& Gray Litvin, C++ for you, Vikas publication, 2002.
5. John R Hubbard, Programming with C, 2nd Edition, TMH publication,2002
6. Bigus&Bigus, "Constructing Intelligent agents with Java", Wiley, 2010.
7. Bradshaw, "Software Agents", MIT Press, 2012.

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MSCFN1051		Cyber Psychology	60	20	20	0	0	4	0	0	4

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Learning Objectives:

1. The Basic Psychological Qualities of Cyberspace
2. The Psychology of the Individual in Cyberspace
3. The Psychology of Cyberspace Relationships

Learning Outcomes: upon completion of the subject student will be able to know the

1. The Basic Psychological Qualities of Cyberspace
2. The Psychology of the Individual in Cyberspace
3. The Psychology of Cyberspace Relationships
4. Group Dynamics in Cyberspace

UNIT-I

The Basic Psychological Qualities of Cyberspace

Cyberspace as a psychological space - basic psychological features of cyberspace-Networks as "mind" and "self"-Presence. The online disinhibition effect -Psychology of avatars and graphical space- Cyberspace as dream world-Two Paths of Virtual Reality-The black hole of cyberspace

Online lingo-Internet demographics -Cyberspace humor -Coping with spam -Social Psychology of Cyberspace: Self and community in the age of Internet.

UNIT-II The Psychology of the Individual in Cyberspace

Identity management in cyberspace -Personality types in cyberspace-Unique roles in cyberspace-Transference to computers and cyberspace-Addiction to computers and cyberspace Regressive behavior in cyberspace-Online gender-switching-Adolescents in cyberspace-Wizards: The heart of an online community-On being a "god"-Y2K and apocalyptic thinking- Integrating online and offline living. An online psycho-educational program – Media transitions – Computer and Cyberspace addiction.

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UNIT-III

The Psychology of Cyberspace Relationships

In-person versus cyberspace relationships-Transient and long term online relationships-The psychology of text relationships -Hypotheses about online text relationships-E-mail communication and relationships – Transference among people online – How to resolve conflict online – Cyberspace romances – Subtlety in multimedia chat. Assistive and augmentive technologies - Media: games, entertainment, and education - The future: the ultimate human-computer interface

UNIT-IV

Group Dynamics in Cyberspace

Social psychology of online groups-Developmental stages of mailing lists-Making virtual communities work-Early history of an online community-Wizards: The heart of an online community-Therapy and support groups in cyberspace-Unique groups in cyberspace-TextTalk: Communicating with typed text chat-A decision-making method for e-mail groups-Extending a work group into cyberspace - Using discussion boards in teaching-Group games using avatars-Geezer Brigade: Studying an online group-Managing deviant behavior in online groups – Online photo-sharing communities (flickr).

UNIT-V

Research Methods and Computer therapies in Cyber psychology

Publishing online - Case studies of digital life forms - One of Us: Participant observation research - Steps in studying an online group - Ethics in cyberspace research - Studying full cyberspace immersion - Computer mediated Therapy, Towards cyber psychology – theory and methods - Theoretical approaches: models and metaphors; Research: modes and methods; Sensory-motor interfaces: input and output; Learning and memory, transfer and interference; Cognitive psychology: thinking and problem solving; Interpersonal relations. Abnormal behavior and cyber therapiesCyberpsychology, An Introduction to Human-Computer Interaction, University of Maryland, College Park.

Suggested Books-:

1. Monica T. Whitty, Cyberpsychology: The Study of Individuals, Society and Digital Technologies, Wiley Publisher.
2. Grainne Kirwan, Irene Connolly, Marion Palmer, Hannah Barton, An Introduction to Cyberpsychology, 2016
3. Towards Cyber Psychology: Mind, Cognitions and Society in the Internet AgeAmsterdam, IOS Press, © 2001, 2002, 2003
4. Alison Attrill, Chris Fullwood, Daria J. Kuss, Melanie Keep, The Oxford Handbook of Cyberpsychology, 2019.

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MSCFN1052		Cyber Criminology	60	20	20	0	0	4	0	0	4

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Learning Objectives: After studying this paper the students will know–

1. Sociological and Criminological Perspectives and theories of Cyber Criminology
2. Understand the contemporary forms of crimes
3. Basic concepts of Criminology
4. The role of the Criminal Justice System and victims in the prevention of cyber crimes

Learning Outcomes: upon completion of the subject student will be able to know the

1. Able to understand basics of cyber criminology
2. Able to understand forms of crimes.
3. Able to understand role of judiciary and cyber crime

Unit 1 : Principles and Concepts of Cyber Criminology

Crime, Tort, Misdemeanor, Cyber Space, Cyber Crime, Cyber Criminology, Information Security, Penetration Testing, Inc ident Response, GRC - Conventional crimes vs Cyber Crimes.

Unit 2: Contemporary Forms of Crimes

White Collar Crimes, Economic Offences, Organized Crimes , Terrorism, Crime and Media and other contemporary forms of crimes.

Unit 3 : Cyber Crime – Sociological and Criminological Perspectives

Causes of Cyber Crimes - Criminological Theories and Cyber Crime – Routine Activity Theory, Social Learning Theory, Differential Association Theory, Differentia l Opportunity Theory, Media and Crime and latest theories and other related theories.

Unit 4: The Role of Police and Cyber Crimes

Organizational structure of Police in India – Different wings in the States and Districts and their functions - Police & Law Enforcement – F.I.R. – cognizable and non-cognizable offences, bailable and non-bailable offences – arrest , search, seizure –

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Interrogation of suspects and witnesses – charge sheet – Intelligence system- Gathering intelligence, gathering evidence – oral, documentary and circumstantial – Police Act, 1861 – National Police Commission Reports (Modernization of Police) - Cybercrime cells – structure & functions , issues and problems in the investigation of cybercrimes cases – Important Case Studies.

Unit 5: The Role of Judiciary and Cyber Crimes

Judiciary- Different types of courts – Cyber Appellate Court / Tribunals / Powers – Proceedings in the court before trial, after trial, plea of guilty, sentencing , Cyber Crime Victims – Impact of Cyber Crimes on Victims, The Role of Victims of Cyber Crimes in the Criminal Justice Administration

REFERENCES:

1. Cyber Criminology: Exploring the internet crimes and criminal behaviour by K. Jaishankar, Illustrated Edition, CRC Press, 2011.
2. Cyber Law: Law of Information Technology and Internet by Anirudh Rastogi, L.L.M Harvard, 1st Edition, Lexis nexis Publication, 01 Sep 2014.
3. Computer Forensics and Cyber Crime by Britz M T, 3rd Edition, Pearson Education Publication, 2013 4. Cyber Crime: Issues, Threats and management by Jain Atul, 1st Edition, Isha books Publication, 15 Nov 2014.