



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Forensic Science

Choice Based Credit System (CBCS)
B. Sc. with Major Forensics Science - Batch (2022-25)
SEMESTER- II

BFS201 CRIMINOLOGY AND FORENSIC PSYCHOLOGY

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*					
BFS201	Major	Criminology and Forensic Psychology	60	20	20	60	40	4	0	4	6	

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.**

Course Objective:

1. This course would introduce the students to the concepts of Criminology and Forensic aspects of Psychology.
2. Students shall get a detailed understanding of various aspects of Crime and Criminology.
3. Different lie detection techniques have been reviewed to ensure that the students grasp the objectives of lie detection.

Course Outcome:

1. To understand the basic concepts of crime and punishment.
2. To develop an understanding of various aspects of criminal behaviour along with Understanding the concepts of various theories of criminal behaviour.
3. Critical analysis and understanding the social aspects of crime.
4. To recognize the elements of juvenile justice along with legal aspects.
5. The importance of psychological assessment in gauging criminal behaviour
6. The critical assessment of advanced Forensic techniques like Polygraphy, Narco analysis and Brain Electrical Oscillation Signatures.

Unit : 1 Crime and Punishment Crime: Definition, Various Types of Crime, Causes and elements of Crime, Prevention of Crime, Difference in Blue and White Collar Crime, Introduction of Cyber Crime. Concept of Punishment, Humanitarian Approach to Concept of Punishment, Capital Punishment in India.

Unit :2 Criminology and Criminal Behavior Definition, Historical Perspectives, Concepts of Criminology, Criminology as Science and Art, The field and scope of Criminology, Methods and Techniques in Criminology, Concept and Theories of Criminal Behavior, and Classification of Criminals.

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Unit : 3 Social Aspects of Crime Sociological Aspects of Crime and Criminal in the Society, Social Change and Crime, Organized Crime, Effect of Urbanization and Industrialization, Drugs and Crime.

Unit 4: Juvenile Delinquency Introduction, Nature, Types of Juvenile Delinquents, Factors of Juvenile Delinquency, Juvenile Justice, Juvenile Court, Procedure of Juvenile Court, Counseling of Juvenile Delinquents, Juvenile Justice (Care and Prevention) Act, Juvenile Justice Board.

Unit :5

Forensic Psychology Definition, Fundamental concepts, Psychological Assessment and its importance, Psychology of Lying, Psychology of Serial Murderers and Terrorists. Detection of Deception Brain Fingerprinting & Narco Analysis: History, Method of Investigation, Significance, Limitations, Legal Aspects and Future perspectives. Polygraphy: History, Procedure of Investigation, Limitations and Legal Aspects.

Practicals:-

1. To review past criminal cases and elucidate which theory best explains the criminal behaviour of the accused.
2. To review crime cases where criminal profiling assisted the police to apprehend the accused.
3. To correlate deviant behaviour of the accused with criminality (take a specific example).
4. To examine a case of juvenile delinquency and suggest remedial measures.
5. To review the recommendations on modernization of police stations and evaluate how far these have been carried out in different police stations.
6. To prepare a report on interrogation cells and suggest improvements.
7. Part A: Basics of Forensic Psychology
Introduction of Psychology Practicals.
8. Objective Personality Test : Locus of Control Test.
9. Projective Personality Test : House, tree, person test
Conduction of Personality Test.

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Suggested Readings:

1. Ellis, L. and Walsh, A. Criminology – A Global Perspective. Allyn and Bacon: Boston;(2000).
2. Morris, E.K. and Braukmann, C.J. Behavioural Approaches to Crime and Delinquency: A Handbook of Application, Research and Concepts. Plenum Press: USA;(1987).
3. Abadinsky, H. Organized Crime 2nd ed. Nelson Hall: Chicago;(1998).
4. Adler, F., Laufer, W. and Mueller, G.O. Criminology 10th ed. McGraw Hill: Boston;(2022).
5. Maguire, M., Morgan, R. and Reiner, R. The Oxford Handbook of Criminology 3rd ed. Oxford University Press: Oxford;(2002).
6. Ahuja, R., Criminology. Rawat Publications: New Delhi;(2000).
7. Bajpai, G.S. Development without Disorders. Vishwavidyalaya Prakashan: Madhya Pradesh; (2002).
8. Ghosh, S.K. and Rustamji, K.F. Encyclopedia of Police in India. Natraj Books: India;(1997).
9. Veeraghavan, V. Handbook of Forensic Psychology 2nd ed. Selective & Scientific Books: India.
10. Nabar, B.S. Forensic Science in Crime Investigation. Asia Law House: India; (2013)

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SEMESTER- II

BFS202 COMPUTER SCIENCE

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*					
BFS202	Minor	Computer Science	60	20	20	60	40	4	0	4	6	

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***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: After studying this Paper the Students will Know-

1. The basics of computer hardware and their functions,
2. The basics of networking.
3. The network security.
4. The importance of computer language in forensics.
5. The importance of digital evidence in cyber forensic investigation.

Course Outcomes: After studying this paper–

1. The students will be able to understand about the Basic of Computers and Networking & File System.
2. They will be able to understand the Operating System and ‘C’ Programming..
3. They will be able to understand the cyber crime.

Unit-1 Basic of Computers

Fundamentals of computers, hardware and accessories. Types of Memory – Primary Memory-: RAM, SRAM, DRAM, ROM, EPROM, Secondary Memory-: Magnetic, Floppy, Hard Disk RAM, ROM; Optical Memory-: CDROM, WORM; Concept of Virtual Memory, Concept of Cache, Memory hierarchy.

Unit-2 Networking & File System

Connecting Devices-: Routers, Hubs, Bridges, Basics of Networking – Types of topologies, LAN, MAN, WAN etc. File system management FAT, NTFS etc. Logic Gates: AND, OR, NOT, NOR, NAND, EX-OR, EX-NOR Operations and their Truth Tables.

Unit-3 Basic Internet

Introduction to Internet , World Wide Web, E-mails, Chat, Search Engines, types of portals, Networking Protocols-TCP/IP Protocol, FTP, SMTP, HTTP, SSC, POP etc. Network Security – Threats, Vulnerabilities, Access control, DOS attack, Virus, Trojans, cloud based application.

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Unit-4 Operating System and 'C' Programming

Introduction to operating System, process management, concurrency, scheduling, synchronization, Introduction to C programming -: Introduction, Data Types and Variables, Simple Program Structure, Simple Input and Output, Simple and Compound Conditions (Branching), Looping (For, While, Do..While).

Unit-5 Cyber Crime

What is Cyber Crime; Cyber Forensic and Digital Evidence, Conventional crime VS cybercrime, Nature of digital evidence, Precautions while dealing with digital evidence. types of cybercrimes, Digital Evidence, Digital Vs. Physical Evidence.

Practicals-:

1. Working of Networking Devices
2. Windows – Installation
3. Windows - Basic commands
4. Windows - Network Configuration
5. Finding results of different logic gates & their combinations
6. Tracing and analyzing E – mail senders IP Address of received e–mail
7. C Programming for Basic program
8. C programming for Variable
9. C programming for Loop
10. C programming for Mathematical Operations

Suggested Readings:

1. Computer Organization and Architecture Designing for Performance, Eight Edition, William Stallings, Pearson Publication.
2. Computer System Architecture, M. MorrisMano, PHI Publications
3. Operating System Concepts, Silberschatz, Galvin, Gagne, John Wiley and Sons Publications.
4. Introduction to Algorithms, Cormen, Leiserson, Rivest, Stein.
5. Introduction to C :Kanetkar.
6. Digital Evidence and Computer Crime, 2nd ed. :Eoghan Casey Computer Forensics: Principles and Practices : Linda Volonino, Reynaldo.

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