



# Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

## Shri Vaishnav Institute of Forensic Science

### M.Sc. (Forensic Science)

### SEMESTER IV 2024-2026

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*					
MSFSN401	DC	Forensic Toxicology and Pharmacology	60	20	20	30	20	4	0	2	5	

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

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

#### COURSE OBJECTIVES:

The course aims to provide the students with

1. The classification of poison.
2. The extraction and isolation procedure of different types of poison.
3. The analysis different types of poison.
4. The Analysis of metal poisons
5. The absorption distribution metabolism and elimination of poison

#### COURSE OUTCOMES:

After studying this course students will

1. Be able to define poison and different forms of poison
2. Be able to understand analyse the nature of poison and its effect on body
3. Be familiar with the extraction and isolation procedure of different types of poison.
4. Be able to examine poison and its metabolite in viscera.
5. Be able to understand the absorption, distribution, metabolism and elimination of poison

#### COURSE CONTENT

##### UNIT I: Forensic Toxicology

Definition and branches of Toxicology. Concept and Significance of Forensic Toxicology. Medico legal aspects of poison. Toxicological exhibits in fatal and survival cases- their preservation. Extraction and identification of commonly used poisons. Treatment in cases of poisoning, sign & symptoms of poisoning, Analysis report. Forensic analysis of different Pesticides, Insecticides, Biocides and Fertilizers.

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#### UNIT II: Extraction, Isolation and clean- up procedures

Non- Volatile organic poison, Stas-otto, Dovbriey Nickolls (Ammonium Sulphate) method, acid digest and Valov (Tungstate) methods, solid phases micro extraction techniques, solvent extraction method.

Volatile Poisons : Industrial solvent acid and basic Distillation

Toxic Cations : Dry Ashing and Wet digestion process

Toxic Anion : Dialysis method total alcoholic extract

#### UNIT – III: General Study and Analysis-I

Barbiturates, methaqualone, Hydromophine. Methadone, Meprobamate, Mescaline, Amphetamines, LDS, Heroin, Cannabinoids, Phinothiazines

Insecticides : Types, General methods for their Analysis. Analysis of Alcohol in Blood & Urine, illicit Liquor, Methanol

Alkaloids : Definition, classification, Isolation, and general characterization.

#### UNIT – IV: General Study and Analysis-II

**Metallic Poisons** : Arsenic, Mercury, Lead, Bismuth, Antimony, Copper, Aluminum, Iron, Barium, Cadmium, Phosphorus etc.

**Chemical Poisons:** Acetone, Chloroform, Phenol, Chloral Hydrate, Irrespirable gases.

#### UNIT V: Forensic Pharmacological studies

Absorption, Distribution, Metabolism, Pathways of drug metabolism, General studies and Analysis of some vegetable poisons, Opium, Ratti, Dhatura, marking nuts, Nux-vomica, Oleander and Aconite and Cyanogenetic glycosides. General studies and Analysis of some Animal poison-Snake venom, Toxins and Toxalbumins, types of Toxins.

#### SUGGESTED READINGS:

1. Stolemen: Progress in Chemical Toxicology: Acad. Press, New York, (1963).
2. Cravey, R.H., Baselt, R.C.: Introduction to Forensic Toxicology, Biochemical publications, Davis C A, (1981).
3. Curry, A.S.: Poison Detection in Human Organs, C. Thomas Springfield, Illinois USA, (1963).
4. Gleason, M.N. et.al: Clinical Toxicology of Commercial products, Williams and Williams, Baltimore, USA, (1969).
5. Sunshine, I.: Guidelines for Analytical Toxicology Programme, Vol. I, CRC Press, USA, (1950).
6. Sunshine: Methods of Analytical Toxicology, CRC Press USA, (1975).
7. Working Procedure Manual – Toxicology, BPR&D Publication, (2000).
8. Saferstein: Forensic Science Handbook, Vols. I, II; (Ed); Prentice Hall, Eglewood Cliffs, NJ; (1988)

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9. Modi, Jaishing P.: Textbook of Medical Jurisprudence & Toxicology, M.M. Tripathi Pub., (2001).
10. Parikh C.K. Textbook of Medical Jurisprudence, Forensic Medicines and Toxicology. CBS Pub. New Delhi (1999)
11. Tiwari, S.N.: Analytical Toxicology, Govt. of India Publications, New Delhi, (1987)
12. Clark, E.G.C., Isolation and identification of Drugs, Vol. I and Vol. II, Academic Press, (1986).
13. Goutam M.P. and Goutam Shubhra, "Analysis of Plant Poison" SSB, New Delhi 2006
14. Reddy K.S. Narayan and Murty O.P. "The Essentials of Forensic Medicine and Toxicology"

### PRACTICALS

1. Analysis of volatile liquid i.e. alcohol and denatured spirit.
2. Identification of poisonous salts.
3. Preliminary test for metallic poison.
4. Identification of different vegetable poison by colour test, chromatography etc.
5. Identification of insecticides and pesticides by TLC/ colour test.
6. Extraction and identification of drugs from biological matrix and their detection.
7. Any other related to the course

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			THEORY			PRACTICAL			L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*					
MSFS402		Digital Forensic & Cyber Crime	60	20	20	30	20	4	0	2	5	

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

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

#### COURSE OBJECTIVES:

The course aims to provide the students with

1. The fundamental and forensic examinations of digital evidence
2. The legal and privacy issues of digital evidence.
3. The tools of cyber forensics
4. The types of cybercrime
5. The Collection preservation of digital evidence.

#### COURSE OUTCOMES:

After studying this course student will

1. Be able to understand the fundamental and forensic examinations of digital evidence.
2. Be familiar with legal and privacy issues of digital evidence
3. Be able to analyse the tools of cyber forensics
4. Be able to understand the different types of cybercrime
5. Be able to scientifically collect the digital evidences.

#### UNIT I : Cyber Crime

Definition and types of computer crimes. Distinction between computer crimes and conventional crimes. Reasons for commission of computer crimes. Computer virus, and computer worm – Trojan horse, trap door, super zapping, logic bombs. Types of computer crimes – computer stalking, pornography, hacking, computer terrorism. An overview of hacking, spamming, phishing and stalking

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#### UNIT II: Digital Forensic I

Cyber Crime and digital evidence, types of cybercrimes, digital evidence, Digital Vs Physical Evidence, Nature of Digital Evidence, Precautions while dealing with Digital Evidence. Introduction to Cyber forensic, Cyber forensic steps (Identification, Seizure, Acquisition, Authentication, Presentation, Preservation),

#### UNIT III: Digital Forensic II

Seizure of suspected computer. Preparation required prior to seizure. Protocol to be taken at the scene. Extraction of information from the hard disk. Treatment of exhibits. Legal and privacy issues. Examining forensically sterile media. Restoration of deleted files. Password cracking, Encryption and decryption methods.

#### UNIT IV: Cyber Forensic Tools and Utilities

Introduction, Examining a Breadth of Products, Cyber Forensic Tools Good, Better, best: What's the Right Incident Response Tool for Your Organization? Cellebrite, AXIOM, Belkasoft AXION, Oxygen tool, Open-source software – Autopsy, X-Ways.

#### UNIT V: Evidence Collection and Analysis Tools

Volatile and Non-volatile Evidence collection Detailed Procedures for Obtaining a bit stream backup of hard drive, File System (Details of File system, Data Structure of File System, Data Recovery in Different file system).

#### Practical

1. To perform forensic imaging using FTK
2. To perform image analysis using Autopsy.
3. To perform image authentication
4. To perform cryptography using suitable tool.
5. Perform data recovery using open-source software.
6. To perform RAM imaging using FTK tool.
7. To perform file signature analysis using open-source software
8. To perform brute force attack using open-source software.
9. To perform steganography using S-tool.

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### SUGGESTED READINGS:

1. Digital Forensics: Digital Evidence in Criminal Investigations by Angus McKenzie Marshall
2. Cyber Forensic A Field Manual for Collecting, Examining and Preserving Evidence of Compute Crimes by Albert J Menendez. Auerbach Publications.
3. Cyber Forensic by Marecella Menendez.
4. Computer Forensic by Newman.
5. Cyber Crime Investigation Field Guide, by B Middleton
6. Incident Response and Computer Forensic by Kelvin Mandia, TMH Publication.

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			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*					
<b>MSFSN403</b>	DC	<b>Forensic Medicine and Psychology</b>	<b>60</b>	<b>20</b>	<b>20</b>	<b>30</b>	<b>20</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>5</b>	

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

#### **COURSE OBJECTIVES:**

The course aims to provide the students with

1. The legal procedure of court.
2. The several parameters of personal identification.
3. The different modes and sign of death.
4. The classification, identification and medico legal aspects of wound
5. Different Interviewing and Interrogation Techniques

#### **COURSE OUTCOMES:**

After studying this course student will

1. Be able to understand legal procedure of court.
2. Be acquainted with different medicolegal aspects.
3. Know about the mode of death, cause of death, time since death and PMI
4. Be able to evaluate different types of injuries.
5. Be able to understand Techniques of Interviewing and Interrogation

#### **COURSE CONTENT**

##### **UNIT I: Medical Jurisprudence**

Definition of Forensic Medicine and Medical Jurisprudence, Brief knowledge about legal procedure in court, inquest, Criminal court and their powers, Subpoena & oath of medical expert. Recording of medical expert evidence in courts. Types of medical evidence. Kinds of witness and rules for giving evidence.

##### **UNIT II: Personal Identity**

Definition and importance, parameters contributing to personal identity- Race, Sex, Age, complexion, Features & Photographs, Anthropometry, Fingerprints, Footprints, Tattoo marks, Occupational Marks, Handwriting, Clothes and Ornaments, Voice & Speech, DNA, Superimposition techniques for skull. Disputed paternity.

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#### UNIT III: Thanatology

Definition and concept of death, Modes of death (Coma, Syncope, Asphyxia), Causes of sudden Natural deaths. Changes after death (Sign of death): cessation of vital functions, changes in the Eye & Skin, Cooling, Hypostasis, Muscle changes, Postmortem lividity, Putrefaction, Adipocere, Mummification. Estimation of time since death.

**Medico-legal Autopsy:** Objectives, Facilities, Rules and Basic techniques, Proforma for reporting medico-legal autopsy, Viscera & its preservation. Exhumation, examination of mutilated remains, Obscure autopsy and post-mortem artifacts

#### UNIT IV: Traumatology

Definition and classification of injuries.

Blunt force Trauma: Abrasions, Contusions and Lacerations. Sharp force Trauma: Incised, Stab and Chop wounds. Thermal injuries: Injuries due to heat and cold, Frostbite, Burns, Scalds and Bride burning, Injuries due to Electricity, Lightning. Firearm injuries and Explosive injuries.

Medico-legal aspect of injury/hurt: simple and grievous hurts Ante- mortem & Postmortem Wounds, Age of the injury, Causative Weapon and appearance of Suicidal, Accidental and Homicidal injuries.

#### UNIT V: Interviewing and Interrogation Techniques

Importance of Investigative Interviewing, Influence of Psychology, and P.E.A.C.E Model of Interviewing, Cognitive Interviewing, Ethical Interviewing, And Other Interview Techniques. Interrogation and the related Techniques, Brain Electrical Oscillation Signature Profiling (BEOS), Voice-Stress Analysis/ Layered Voice Analysis, reliability, Limitations, NHRC Guidelines, Admissibility on the Court, Case Studies.

#### SUGGESTED READINGS:

1. Diagnostic & Statistical Manual-IV TR, American Psychological Association
2. DSM-IV Mental Disorders Diagnostics, Etiology and Treatment, by Michael, Allan.
3. Introduction to Forensic Psychology', by Bruce Arrigo.
4. Keith Simpson & Bernard Knight : Forensic Medicine
5. Modi J. S. : Medical Jurisprudence and Toxicology.
6. Parikh C.K. : Chikitsa Nyaya Shastra Aur Vish Vigyan.
7. Poison : CJ, DJ, Gee, B. Knight : Forensic Medicine
8. Psychological Testing' by Anne Anastasi, Susana Urbina, Seventh Edition.
9. Psychological Testing' by Robert J. Gregory, Fourth Edition.
10. Reddy : Forensic Medicine.
11. Taylor : Medical Jurisprudence

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#### PRACTICALS

1. To know the legal procedure of court
2. To maintain medical evidences.
3. To determine cephalic index of unknown skull.
4. To prepare an occupational marks data from different source for personal identification.
5. To study the life cycle of insect and explain its role in determining time since death
6. To prepare post-mortem report format.
7. Practical aspects of collection, preservation and dispatch of viscera for chemical analysis
8. To give the demonstration of postmortem and ante-mortem wound.
9. Examination and certification of injuries.
10. Any other related to the course

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### M.Sc. (Forensic Science) SEMESTER IV 2024-2026

#### MSFSN404 SCIENTIFIC INVESTIGATION OF CRIME

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY				PRACTICAL				
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	T	P	CREDITS
MSFSN404	DC	Scientific Investigation of Crime	60	20	20	0	0	3	0	0	3

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

#### **COURSE OBJECTIVES:**

The course aims to provide the students with

1. The various types of physical patterns.
2. The investigation of various death scene.
3. The investigation related to motor vehicle.
4. The investigation of offences against properties.
5. Role of DNA in Police Investigation

#### **COURSE OUTCOMES:**

After studying this course student will

1. Be able to understand nature and forensic importance of various types of patterns.
2. Be able to understand the procedure of death investigation.
3. Be able to Investigate motor vehicle offence.
4. Be able to Investigate offences related to properties.
5. Know role of DNA in Know various cases i.e. Sexual offences, disputed paternity/maternity, child swapping, veterinary, wildlife etc.

#### **COURSE CONTENT**

##### **UNIT I: Physical patterns**

Introduction- Physical patterns in identification, individualization and reconstruction.

Pattern due to blood, Pattern on glass, firearms related patterns, patterns in arson and fires served articles and physical matches, comparison of imprints, indentation, striation, typical presentations, Gait patterns, Bite patterns. Modus operandi, portrait parley.

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#### UNIT II: Death Investigation

Cause of death (Natural and Unnatural), Determination of nature of death and general characteristics of suicides, murder and accidents.

Impression of body at scene of crime, inspection of scene of crime. Role of skeletal remains in investigation. Forensic investigation in firearm related cases. Forensic investigation in asphyxia deaths. Forensic investigation in poisoning cases.

#### UNIT III: Motor Vehicle Investigation

Identification and search of physical evidences. Involvement of vehicle in crime, theft investigation. Investigation in hit and run cases. Role of skid marks, scuff marks etc. Inspection of Vehicles, glass fracture analysis, paint chip examination. Motor Vehicle Claim Investigation.

#### UNIT IV: Investigation in offences against properties

Criminal Trespass, House Breaking and Theft (HBT), Burglary and Robbery, Investigation in fire and Arson Cases, Investigation in cases of Mass Disaster, Investigation in explosive related cases. Investigation in Bank Frauds.

#### UNIT V: DNA in Police Work

Role of DNA in sexual offence, disputed paternity, child swapping, identity in dead and living person, civil immigration. Veterinary and wild life and agriculture cases. Legal standards of admissibility of DNA Profiling

#### SUGGESTED READINGS:

1. B.R. Sharma: Forensic Science in Criminal Investigation and Trials, Universal Law Publishing; Fourth edition 2013.
2. James, S.H and Nordby, J.J.: Forensic Science: An introduction to scientific and investigative techniques 3rd edit. CRC Press, USA.
3. Nanda, B.B. and Tewari, R.K.: Forensic Science in India: A vision for the twenty first century Select Publisher, New Delhi (2001)
4. Richard Saferstein. Criminalistics: An Introduction to Forensic Science. 10th edit Prentice-Hall, New Jersey.
5. Deforest, Gansellen&Lee : Introduction to Criminalistics.
6. Kirk (2000) Vehicular Accident investigation and reconstruction.
7. H. James, Wouldiam G. Eckert (1999) Interpretation of Blood stain evidence at Crime Scene, 2nd edition, CRC Press.
8. N. Gilbert (1993) Criminal Investigation; Third edition, Macmillan Publishing company.
9. Bernard Robertson and G.A. Vignaur (1995) Interpreting evidence John Wiley and Sons Ltd.
10. Kirk (1953) Criminal Investigation Interscience Publisher Inc. New York.
11. B. R. Sharma (1980) Footprints, Tracks and Trials. Central Law Agency. Allahabad.
12. Koblinsky et al. (2005) DNA -Forensic and Legal Implications.

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**SEMESTER IV 2024-2026**

**MSFSN405 INTERNSHIP**

Course Code	Course Name	TEACHING & EVALUATION SCHEME (Dissertation)					
		End Sem University Exam	Teachers Assessment*	L	T	P	Credit
MSFSN405	Internship	90	60	0	0	0	06

**Internship**

Every student will carry out Internship in laboratory or other relevant place of one month under the supervision of Supervisor/(s) (Internal/External). Every student will be required to present seminar talk towards the end of the semester and should submit a report of the same presenting the work carried out by him/her in the semester.

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