



KARNATAK UNIVERSITY, DHARWAD

ACADEMIC (S&T) SECTION

ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ

ವಿದ್ಯಾಪುಂಡರ್ (ಎಸ್&ಟಿ) ವಿಭಾಗ

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ಸಂ. KU/Aca(S&T)/OS-Gen/2026-27/ 1208

ದಿನಾಂಕ: 1 AUG 2026

ಅಧಿಸೂಚನೆ

ವಿಷಯ: 2026-27ನೇ ಶೈಕ್ಷಣಿಕ ಸಾಲಿನಿಂದ ಸ್ನಾತಕ ಪದವಿ-1, 2ನೇ ಹಾಗೂ 5, 6ನೇ ಸೆಮಿಸ್ಟರ್ ಗಳಿಗೆ ಪಠ್ಯಕ್ರಮ ಅಳವಡಿಸಿರುವ ಕುರಿತು.

ಉಲ್ಲೇಖ: ಎಲ್ಲ ನಿಖಾಯಗಳ ಸಭೆ ಜರುಗಿದ ದಿನಾಂಕ: 23 / 24 / 25.07.2026.

೨. ಮಾನ್ಯ ಕುಲಪತಿಗಳ ಅನುಮೋದನೆ ದಿನಾಂಕ: 30-07-2026.

ಮೇಲ್ಕಾಣಿಸಿದ ವಿಷಯ ಹಾಗೂ ಉಲ್ಲೇಖಗಳಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಮಾನ್ಯ ಕುಲಪತಿಗಳ ಅನುಮೋದನೆ ಮೇರೆಗೆ, ಸನ್ 2026-27ನೇ ಶೈಕ್ಷಣಿಕ ಸಾಲಿನಿಂದ ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಸ್ನಾತಕ ಪದವಿಗಳಾದ BA / B.Com / B.Sc / BCA / BBA ಮತ್ತು ಇನ್ನಿತರ ವೃತ್ತಿಯೇತರ / ವೃತ್ತಿಪರ ಕೋರ್ಸುಗಳಿಗೆ 1 ಮತ್ತು 2ನೇ ಸೆಮಿಸ್ಟರ್ ಹಾಗೂ 2026-27ನೇ ಸಾಲಿಗೆ 5 ಮತ್ತು 6ನೇ ಸೆಮಿಸ್ಟರ್‌ಗಳಿಗೆ ಪಠ್ಯಕ್ರಮವನ್ನು ಅಳವಡಿಸುವ ಕುರಿತು ಮುಂಬರುವ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸಭೆಯ ಸ್ಥಿರೀಕರಣಕ್ಕೊಳಪಟ್ಟು (Pending approval of Academic Council) ಅಧಿಸೂಚನೆ ಪ್ರಕಟಿಸಿದೆ. ಅದರಂತೆ, ಪಠ್ಯಕ್ರಮವನ್ನು ಕ.ವಿ.ವಿ. ಅಂತರ್ಜಾಲ www.kud.ac.in ದಲ್ಲಿ ಬಿತ್ತರಿಸಲಾಗಿದೆ. ಸದರ ಪಠ್ಯಕ್ರಮವನ್ನು ಕ.ವಿ.ವಿ. ಅಂತರ್ಜಾಲದಿಂದ ಡೌನ್‌ಲೋಡ್ ಮಾಡಿಕೊಳ್ಳಲು ಸೂಚಿಸುತ್ತ, ವಿದ್ಯಾರ್ಥಿಗಳು ಹಾಗೂ ಸಂಬಂಧಿಸಿದ ಎಲ್ಲ ಬೋಧಕರ ಗಮನಕ್ಕೆ ತಂದು ಅದರಂತೆ ಕಾರ್ಯ ಪ್ರವೃತ್ತಿರಾಗಲು ಸೂಚಿಸಲಾಗಿದೆ.

ಅಡಕ: ಮೇಲಿನಂತೆ

N. Ramulu
ಕುಲಸಚಿವರು 31/7/26

ಗೆ,
ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಎಲ್ಲ ಅಧೀನ ಹಾಗೂ ಸಂಬಂಧ ಮಹಾವಿದ್ಯಾಲಯಗಳ ಪ್ರಾಚಾರ್ಯರುಗಳಿಗೆ. (ಕ.ವಿ.ವಿ. ಅಂತರ್ಜಾಲ ಹಾಗೂ ಮಿಂಚಂಚೆ ಮೂಲಕ ಬಿತ್ತರಿಸಲಾಗುವುದು)

ಪ್ರತಿ:

1. ನೋಡಲ್ ಅಧಿಕಾರಿಗಳು, UUCMS ಘಟಕ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
2. ನಿರ್ದೇಶಕರು, ಐ.ಟಿ. ಶಾಖೆ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
3. ಕುಲಪತಿಗಳ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
4. ಕುಲಸಚಿವರ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
5. ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ) ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
6. ಅಧೀಕ್ಷಕರು, ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆ / ಗೌಪ್ಯ / ಜಿ.ಎ.ಡಿ. / ವಿದ್ಯಾಂಡಳ (ಪಿ.ಜಿ.ಪಿ.ಎಚ್.ಡಿ) ವಿಭಾಗ, ಸಂಬಂಧಿಸಿದ ಕೋರ್ಸುಗಳ ವಿಭಾಗಗಳು ಪರೀಕ್ಷಾ ವಿಭಾಗ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.



KARNATAK UNIVERSITY, DHARWAD

B.Sc. in Forensic Science and Criminology

SYLLABUS

With Effect from 2026-27

DISCIPLINE SPECIFIC CORE COURSE (DSC) FOR SEM I-VI,

DISCIPLINE ELECTIVE COURSE (DEC) FOR SEM III-IV

SKILL ENHANCEMENT COURSE (SEC) FOR SEMIV/V/VI

AS PER NEP (Revised Credit System):2026-27

Karnatak University, Dharwad
B.Sc.in Forensic Science and Criminology
Effective from 2026-27

Sem.	Type of Course	Theory/ Practical	Course Code	Course Title	Instruction hour/week	Total hours / sem	Duration of Exam	Marks			Credits
								Formative	Summative	Total	
I	DSC-1 (T1)	Theory	C1FSC1T1	Fundamentals of Forensic Science	04hrs	60	03hrs	20	80	100	03
	DSC-1 (P1)	Practical	C1FSC1P1	Scene of Crime Investigation	04hrs	56	03hrs	10	40	50	02
II	DSC-2 (T2)	Theory	C2FSC1T1	Introduction to Criminology	04hrs	60	03hrs	20	80	100	03
	DSC-2 (P2)	Practical	C2FSC1P1	Crime Data Analysis	04hrs	56	03hrs	10	40	50	02
III	DSC-3 (T3)	Theory	C3FSC1T1	Criminal Law and Penology	04hrs	60	03hrs	20	80	100	03
	DSC-3 (P3)	Practical	C3FSC1P1	Criminal Justice Institutions Visits	04hrs	56	03hrs	10	40	50	02
	DEC-1	Theory	C3FSC1T1	Fingerprint Science	02hrs	30	--	10	40	50	02
IV	DSC-4 (T4)	Theory	C4FSC1T1	Police Science	04hrs	60	03hrs	20	80	100	03
	DSC-4 (P4)	Practical	C4FSC1P1	Police Investigation	04hrs	56	03hrs	10	40	50	02
	DEC-2	Theory	C4FSC1T1	Questioned Document	02hrs	30	--	10	40	50	02
II/III/IV ***	SEC	Practical	C0FSC4P1	Study of Marks and impression	04hrs	56	03hrs	10	40	50	02
V	DSC-5 (T5)	Theory	C5FSC1T1	Forensic Medicine and Toxicology	04hrs	60	03hrs	20	80	100	03
	DSE-1 (T6) OR DSE-2 (T7)	Theory	C5FSC2T2 OR C5FSC2T3	Digital Forensic and Cyber Crime OR Forensic Instruments	04hrs	60	03hrs	20	80	100	03
	DSC-5 (P5)	Practical	C5FSC1P1	Medico legal Examination	04hrs	56	03hrs	10	40	50	02
	DSE-3 (P6) OR DSE-4 (P7)	Practical	C5FSC2P2 OR C5FSC2P3	Digital Forensics OR Forensic Instruments	04hrs	56	03hrs	10	40	50	02
VI	DSC-6 (T8)	Theory	C6FSC1T1	Dactyloscopy and DNA Fingerprinting	04hrs	60	03hrs	20	80	100	03
	DSE-5 (T9) OR DSE-6 (T10)	Theory	C6FSC2T2 OR C6FSC2T3	Artificial Intelligence and Crime Investigation OR Forensic Documents and Ballistics	04hrs	60	03hrs	20	80	100	03
	DSC-6 (T8)	Practical	C6FSC1P1	Fingerprint Analysis	04hrs	56	03hrs	10	40	50	02
	DSE-7 (P11) OR DSE-8 (P12)	Practical	C6FSC2P2 OR C6FSC2P3	Artificial Intelligence Practicum OR Documents and Ballistics Examination	04hrs	56	03hrs	10	40	50	02
Total					72hrs					1200	46

Note:

1. For V and VI semester DSE are choice-based theory special shall choose any one specialization.
2. Credits of Elective Course (EC) component is taken Specific Elective (DSE) of all the three major course
3. Theory paper with 3 or 4 credits shall have 100 mark exam) with 03 hours duration.
4. SEC with 2 credits shall have 50 marks (10 IA+40): 03 hours duration.
5. Semester end exam for compulsory course with 2 credits based examination.
6. Students shall study SEC for all the three major course IV, V or VI semester.
7. Student shall opt Project work / Internship in any on courses.

Karnatak University, Dharwad
B.Sc.in Forensic Science and Criminology

Programme Specific Outcomes (PSO):

On completion of the 03 years Degree in Criminology and Forensic Science students will be able to:

- Demonstrate, solve and understand the major concepts in all the disciplines of Criminology and Forensic Science
- Understand practical skills so that they can understand and assess risks and work safely and competently in the laboratory.
- To apply standard methodology to the solutions of problems in the concerned field
- Provide students with the ability to plan and carry out experiments independently and assess the significance of outcomes.
- Develop in students the ability to adapt and apply methodology to the solution of unfamiliar types of problems.
- Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of crime investigations.
- To build confidence in the candidate to be able to work on his own in industry and institution of higher education.
- To develop an independent and responsible work ethics.

B.Sc. Semester– I

Discipline Specific Course (DSC-1)

Course Title: - FUNDAMENTALS OF FORENSIC SCIENCE

Course Code: C1FSC1T1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. Of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSC-1	Theory	03	04	60hrs.	3hrs.	20	80	100

Course Outcomes (COs): At the end of the course students will be able to:

- CO1: Understand the definition, scope and basic principles of Criminalistics, exhibit the various tools and techniques utilized in the application of the subject.
- CO2: Explain the significance of evidence, types and classification of physical evidences such as blood, fiber, paint, firearms, fingerprints, etc.
- CO3: Examine the forensic documents, tools and Techniques Employed, types of forgeries, types of handwriting and its characteristics, etc.
- CO4: Explain the basic principles and stages involved in crime scene reconstruction.

Unit	Course Title: FUNDAMENTALS OF FORENSIC SCIENCE	60 hrs/sem
Unit I	INTRODUCTION TO FORENSIC SCIENCE • Forensic Science: Meaning, Definition, Nature and Scope. • History and Development of Forensic Science. • Principles of Forensic Science. • Pioneers of Forensic science and Branches • Importance and Application of forensic science.	15 hrs
Unit II	PHYSICAL EVIDENCE • Physical Evidence: Meaning and Importance • Types of evidence: Conclusive and corroborative • Classification of Physical Evidence: viz., Blood, Saliva, Semen, Hair, Fiber, Paint, Tyre Marks, Fingerprints, Footprints, Bite Marks. • DNA Profiling: Concept and Importance.	15 hrs
Unit III	FORENSIC SCIENCE LABORATORIES AND INSTITUTIONS • Forensic science laboratories: historical development • Administration of state and central forensic science laboratories • Divisions of forensic science laboratories • Finger print bureau: functions and importance • Chemical examiners and serologist, The security printing & minting Corporation of India	15 hrs
Unit IV	CRIME SCENE RECONSTRUCTION (CSR) • Nature and Importance of CSR • Basic Principles and Stages and Involved • Type and Classification of Reconstruction • Role of Logic in CSR and Writing the Construction Report	15hrs

	• Cases of Special Importance Pertaining to Forensic examinatio	
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References:

1. Bertino, Anthony J. (2016). *Forensic Science: fundamentals & investigations*, Boston, MA : Cengage Learning.
2. Harris H. A., Henry C. Lee. (2019). *Introduction to Forensic Science and Criminalistics*, (2nd edn), eBook Publication, Boca Raton.
3. James S. H., Nordby J. J., and Suzanne Bell., (2014). *Forensic Science: An Introduction to Scientific and Investigative Techniques*, Boca Raton, Florida : CRC Press/Taylor & Francis Group.
4. Krishnamurthy, R. (2011). *Introduction to Forensic Science in Crime Investigation*, India: Selective & Scientific Books.
5. Nabar, B. S. (2003). *Forensic Science in Crime Investigation*, Hyderabad, India: Asia Law House Hyderabad.
6. Nanda, B. B, (2001). *Forensic Science in India*, Select Publishers, New Delhi.
7. Richard Saferstein. (2017). *Criminalistics: An Introduction to Forensic Science*, Pearson Education.
8. Richard Saferstein.(2009). *Forensic Science: from the crime scene to the crime lab*, Upper Sadder River, N. J.: Pearson Prentice Hall.
9. Sharma, B R. (2014). *Forensic Science in Criminal Investigation and trials*, New Delhi, India: Universal Law Publishing Co. Pvt. Ltd.
10. Sharma, J. D. (1988). *Forensic Science and Toxicology*, Lawyers Home, Indore

Formative Assessment for Theory	
Assessment Occasion/type	Marks
InternalAssessmentTest1	05
InternalAssessmentTest2	05
Assignment	10
Total	20Marks
<i>Formative Assessment as per guidelines.</i>	

B.Sc. Semester-I
Discipline Specific Course (DSC-2)

Course Title: SCENE OF CRIME INVESTIGATION

Course Code: C1FSC1P1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSC-2	Practical	02	04	56hrs.	3hrs.	10	40	50

Course Outcomes (COs): At the end of the course, students will be able to:

CO 1: to identify the Physical evidences

CO 2: practice on Basic Forensic Science Equipment

CO 3: to understand different types of Scene of crime

CO 4: to understand crimes of different place

List of the Experiments

1. Scene of crime types
2. Photography of Crime Scene
3. Sketch (rough and neat) the scene of Crime.
4. Searching, Locating and Fixing of the Clues
5. Crime scene measurement types
6. Collection and Preservation of Physical Evidences
7. Inspection of Simulated Scene of Crimes of Burglary
8. Simulated Scene of Crimes of Homicide
9. Simulated Scene of Crimes of Suicide.
10. Inspection of Outdoor Scene of Crime: Simulated Motor Vehicle Accident Case
11. Crime scene report writing
12. Reconstruction of Crime Scene

Instruction:

Course Teacher and HOD/ Coordinator/ Principal certified practical record book is mandatory for appearing semester end practical examinations

Formative and Summative examination pattern

Internal tests	10 marks
Viva –Voce	05 marks
Practical Record Book	05 marks
Experiment based questions	30 marks
Total	10+ 40 = 50 marks

B.Sc. Semester–II

Discipline Specific Course (DSC-3)

Course Title:-INTRODUCTION TO CRIMINOLOGY

Course Code: C2FSC1T1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. Of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSC-3	Theory	04	03	60hrs.	3hrs.	20	80	100

Course Outcomes (COs): At the end of the course students will be able to:

- CO1: Explain the history, origin, scope and definition of crime, its relevance in the present scenario and its relation to other social sciences.
- CO2: Understand the interdisciplinary nature of Criminology and the role of criminologist in the criminal justice system.
- CO3: Describe the different schools of Criminology and critically identify the contribution of each school of thought for the growth and development of Criminology.
- CO4: Describe the different typologies of crime including crimes against body, crimes against property, contemporary crimes like cyber crime, white-collar crime, etc.

Unit	Course Title: INTRODUCTION TO CRIMINOLOGY	60 hrs/sem
Unit I	HISTORICAL PERSPECTIVE - Meaning, Definitions, Nature, Origin and Scope of Criminology - Historical Development of Criminology - Importance of Criminology - Criminology as a Science - Interdisciplinary nature of Criminology and its relations with Penology, Sociology, Psychology, Criminal Law and Forensic science.	15hrs
Unit II	CONCEPT OF CRIME AND CRIMINAL Crime: Meaning and Definitions Difference between Crime, Sin, Vice and Tort Classification of Crimes: i) Indian, British Common Law and American. ii) Cyber-Crime: concept and Types iii) Corporate Crime: concept and Types Criminal: Meaning and Definitions Classification of Criminal: Cesare Lombroso, M J Sethana, Havelock Ellis and Handerson Criminal Patterns: Professional, Habitual, White Collar and Organized Criminals	15hrs
Unit III	SOCIAL PROBLEMS AND CRIME - Social Problems: Meaning and Definitions - Social issues of Women and children - Alcoholism and Drug Addiction - Corruption, Terrorism and Social Discrimination	15hrs

Unit IV	CAUSES AND PREVENTION OF CRIME • Causes: Individual-Family, Socio-Economic, Political, Psychological, Biological and Environmental. • Prevention of Crime: Primary, Secondary and Tertiary. • Crime Prevention through Environmental Design (CPTED) • Crime Prevention by Police and Crime Prevention Organizations	15hrs
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References:

1. Ahuja Ram, (2000). *Criminology*, Rawat Publications, New Delhi.
2. Alison Liebling, Shadd Maruna, and Lesley McAra. (2017). *The Oxford Handbook of Criminology*, (6th edn), Oxford University Press.
3. Cavan R. S. (1962). *Criminology*, Thomas Y. Crowell Company, New York.
4. Hagan F. E. Daigle L. E. (2018). *Introduction to Criminology: Theories, Methods, and Criminal Behavior*, SAGE Publications.
5. Paranjape N. V. (2005). *Criminology and Penology*, Central Law Publications, Allahabad.
6. Reid, Sue Titus. (2006), *Crime & Criminology*, New York: McGraw-Hill.
7. Robert Lilly J., Cullen F. T., Ball R. A., (2018). *Criminological Theory: Context and Consequences*, SAGE Publications.
8. Sethana J. M. J. (1989). *Society and the Criminal*, N. M. Tripathi Pvt. Ltd., Bombay.
9. Siegel, Larry J. (2019). *Criminology: the core*, Australia: Cengage.
10. Sutherland Edwin H. and Crassey D.R. (1965). *Principles of Criminology*, Times of India Press, Bombay.

Formative Assessment for Theory	
Assessment Occasion/type	Marks
InternalAssessmentTest1	05
InternalAssessmentTest2	05
Assignment	10
Total	20Marks
<i>Formative Assessment as per guidelines.</i>	

B.Sc. Semester–II

Discipline Specific Course (DSC-4)

Course Title: CRIME DATA ANALYSIS

Course Code: C2FSC1P1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. Of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSC-4	Practical	02	04	56hrs.	3hrs.	10	40	50

Course Outcomes (COs): At the end of the course, students will be able to:

CO 1: To identify the crime news

CO 2: Practice to collection of crime news clipping

CO 3: To understand different types of crime through experiments

CO 4: To understand crimes of different place

List of the Experiments

1. Analysis of News Items of Criminological Importance.
2. The Daily News Paper analysis
3. Case study of crime news
4. Collection of Crime News Clippings
5. Classification of crimes
6. Types of cyber crimes
7. Crime statistics analysis
8. Crime against person
9. Crime against property
10. Motor Vehicle theft
11. Graphical Representation of Crime Statistics
12. Study of Traffic Signs and Symbol
13. Kim's Game: Observation, Retention, Memory and Interpretation

Instruction:

Course Teacher and HOD/ Coordinator/ Principal certified practical record book is mandatory for appearing semester end practical examinations

Formative and Summative examination pattern

Internal tests	10 marks
Viva –Voce	05 marks
Practical Record Book	05 marks
Experiment based questions	30 marks
Total	10+ 40 = 50 marks

B.Sc. Semester–III

Discipline Specific Course (DSC-5)

Course Title:- CRIMINAL LAW AND PENOLOGY

Course Code: C3FSC1T1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSC-5	Theory	04	04	60hrs.	3hrs.	20	80	100

Course Outcomes (COs): At the end of the course students will be able to:

CO1: Enhance the ability of the students to understand the history of criminal law, The Bhartiya Nyaya Samhita, Bhartiya Nagarik Suraksha Sanhita and Bhartiya Sakshya Adhiniyam along with some selected sections.

CO2: Understand about the meaning, concept and scope of penology and Correctional Administration

CO3: Explain the theories and types of punishments in the past and present in India and abroad.

CO4: Understanding the concepts of institutional (prison) and non-institutional treatments of prisoners, types and the legal provisions.

Unit	COURSE TITLE: CRIMINAL LAW AND PENOLOGY	60 hrs/sem
Unit I	INTRODUCTION TO CRIMINAL LAW - Meaning, Definitions and Characteristics of Criminal Law - History of Indian Penal Code – Code of Criminal Procedure – Indian Evidence Act (New and Indigenous laws 2023) The Bharatiya Nyaya Samhita: Definition of Crimes and Punishments - Crimes against Property: Theft, Robbery, Dacoity and Forgery. - Crimes against Persons: Culpable homicide, Murder, Rape, Hurt and Defamation.	15 hrs
Unit II	THE BHARATIYA NAGARIK SURAKSHA SANHITA AND THE BHARATIYA SAKSHYA ADHINIYAM The Bharatiya Nagarik Suraksha Sanhita - Organizational set-up of courts in India - Public prosecutor, Defense counsel and Concept of fair trial - Arrest, Rights of arrested person and types of bail The Bharatiya Sakshya Adhiniyam - Evidence: Meaning, types, concept of relevancy and admissibility - Confessions, Dying Declaration and Expert opinion	15 hrs

	Burden of proof, Cross-examination and re-examination.	
Unit III	INTRODUCTION TO PENOLOGY - Penology: Meaning, Definitions, nature and scope - Punishment: Meaning and Types of Punishment - Theories of Punishment: Deterrence theory, Retributive theory, Preventive theory and Reformation theory.	15 hrs
Unit IV	INSTITUTIONAL AND NON-INSTITUTIONAL TREATMENT Institutional Treatment: - Meaning and purpose - Types of institutions: adult, women and children - Constitutional and legal provisions of prisoners - Remission, temporary release and premature release Non-Institutional Treatment for Prisoners: - Community based corrections: Probation, Parole, and After care services, - Role of NGOs in reformation and rehabilitation	15hrs

References:

- Ashworth A., and Horder J. (2013). *Principles of Criminal Law*, 10th edn, Oxford University Press.
- BasuDuraga Das, (2005). *Introduction to Constitution of India*, (19th edn), Wadhwa and Company Law Publishers.
- Criminal Law Journal Published by All India Reporter Pvt. Ltd. Nagpur.
- Gaur, KD. (1999). *Criminal Law and Procedure (cases)*, (3rd edn), Butterworth Tripathi Publications.
- Kaplan J., Weisberg R., and Binder G. (2021). *Criminal Law : cases and Materials*, Aspen Publishing.
- LaFave, Wayne R. (200). *Criminal Law*, St. Paul Minn. : West Group
- Liebling A., Maruna S, and Lesley McAra. (2017). *The Oxford Handbook of Criminology*, (6th edn), Oxford University Press.
- Paranjape N. V. (2005). *Criminology and Penology*, Central Law Publications, Allahabad.
- Ratan Lal and Dhirajlal. (2002). *Indian Penal Code*, Wadhwa and Company Pub.
- The Bharatiya Nyaya Samhita 2023, The Bharatiya Nagarik Suraksha Sanhita 2023 and The Bharatiya Sakshya Adhiniyam 2023.

Formative Assessment for Theory	
Assessment Occasion/type	Marks
InternalAssessmentTest1	05
InternalAssessmentTest2	05
Assignment	10
Total	20Marks
<i>Formative Assessment as per guidelines.</i>	

B.Sc. Semester–III

Discipline Specific Course (DSC-6)

Course Title: - CRIMINAL JUSTICE INSTITUTIONS VISITS

Course Code: C3FSC1P1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. Of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSC-6	Practical	02	04	56hrs.	3hrs.	10	40	50

Course Outcomes (COs): At the end of the course, students will be able to:

CO 1: Understand Prison administration

CO 2: Prisoners facilities and Problems

CO 3: Understand the functions of Juvenile Rehabilitation centers

CO 4: Understand the powers and functions of JJB and CWC

List of the Experiments/ Institution visits.

1. Visit to Police station
2. Visit to District Police/Sub Division Office
3. Visit to Bell of Arms
4. Visit to Police Dog Squad
5. Visit to Judicial Magistrate of First Class (JMFC) court to observe and record the trial proceedings.
6. Visit to Family Court to observe and record the trial proceedings.
7. Visit to Sessions courts – to observe and record the trial proceedings.
8. Visit and study the overview of Prison as a correctional institution.
9. Study the various facilities, reformatory measures, training and rehabilitation process in correctional institution
10. Visit and study the functions and powers of Juvenile Justice Board
11. Visit and study the functions and powers of Child Welfare Committee
12. Visit and study the aftercare services
13. NGOs working toward reformation, rehabilitation and resocialization of inmates.

Instruction:

Course Teacher and HOD/ Coordinator/ Principal certified practical record book is mandatory for appearing semester end practical examinations

Formative and Summative examination pattern	
Internal tests	10 marks
Viva –Voce	05 marks
Practical/ Visits Book	05 marks
Experiment/ institutes visits based questions	30 marks
Total	10+ 40 = 50 marks

B.Sc. Semester–III

Discipline Elective Course (DEC-1)

Course Title:-FINGERPRINT SCIENCE

Course Code: C3FSC1T1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. Of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DEC-1	Theory	02	02	30hrs.	3hrs.	10	40	50

Course Outcomes (COs): At the end of the course students will be able to:

CO1: Explain the scientific principles underlying fingerprint identification.

CO2: Classify and interpret fingerprint patterns and ridge characteristics.

CO3: Apply appropriate methods for developing, collecting, and preserving fingerprints.

CO4: Understand the role of fingerprint evidence in forensic investigations and judicial proceedings.

Unit	Course Title: FINGERPRINT SCIENCE	30 hrs/ sem.
	Fundamentals of Fingerprint Science	15 hrs
Unit I	Introduction to Fingerprint Science - History and development of fingerprint science - Nature, formation, and permanence of fingerprints - Principles of uniqueness and individuality - Importance of fingerprints in forensic science Fingerprint Patterns - Types of fingerprint patterns: Loops, Whorls, and Arches - Subtypes of fingerprint patterns - Ridge characteristics (minutiae) - Fingerprint terminology Fingerprint Classification - Henry Classification System - Single-digit classification - Ridge counting and ridge tracing - Automated Fingerprint Identification Systems (AFIS): Introduction Applications of Fingerprints - Personal identification - Criminal investigations - Civil applications - Biometric identification systems	

Unit II	Fingerprint Development and Examination 1. Types of Fingerprints • Patent fingerprints • Latent fingerprints • Plastic fingerprints 2. Fingerprint Development Techniques • Physical methods (powders) • Chemical methods (Ninhydrin, Silver Nitrate, Iodine Fuming) • Fuming techniques (Cyanoacrylate) • Alternate Light Source (ALS): Basic concepts 3. Fingerprint Examination • Collection, lifting, and preservation of fingerprints • ACE-V methodology (Analysis, Comparison, Evaluation, Verification) • Documentation and reporting • Quality assurance in fingerprint examination 4. Fingerprint Evidence • Fingerprint evidence in criminal investigations • Role of fingerprint experts in court • Expert testimony • Limitations and challenges in fingerprint identification	15 hrs
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References:

1. Ashbaugh, D. R. (1999). *Quantitative-qualitative friction ridge analysis: An introduction to basic and advanced ridgeology*. CRC Press.
2. Champod, C., Lennard, C., Margot, P., & Stoilovic, M. (2016). *Fingerprints and other ridge skin impressions* (2nd ed.). CRC Press.
3. Henry, E. R. (1900). *Classification and uses of fingerprints*. George Routledge & Sons.
4. Lee, H. C., & Gaensslen, R. E. (Eds.). (2001). *Advances in fingerprint technology* (2nd ed.). CRC Press.
5. Maltoni, D., Maio, D., Jain, A. K., & Prabhakar, S. (2009). *Handbook of fingerprint recognition* (2nd ed.). Springer.
6. Moenssens, A. A. (1971). *Fingerprint techniques*. Chilton Book Company.

Formative Assessment for Theory	
Assessment Occasion/type	Marks
InternalAssessmentTest1	05
InternalAssessmentTest2	05
Total	10 Marks
<i>Formative Assessment as per guidelines.</i>	

B.Sc. Semester–IV

Discipline Specific Course (DSC-7)

Course Title: POLICE SCIENCE

Course Code: C4FSC1T1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. Of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSC-7	Theory	04	04	60hrs.	3hrs.	20	80	100

Course Outcomes (COs): At the end of the course students will be able to:

- CO1: Understand the concept and purpose of Police Science and its importance in crime prevention, investigation and maintaining social order peacefully.
- CO2: Develop the knowledge regarding the Police Administration, Enforcement of Laws of the nation, Maintaining the Law and Order.
- CO3: Understanding the various challenges faced by police in their day to day policing.
- CO4: Become aware about the different types of crime scenes, investigations and their related legal procedures.

Unit	Course Title: POLICE SCIENCE	60 hrs/sem
Unit I	INTRODUCTION OF POLICE SCIENCE - Police System: Concept and Historical Development in India. - State and Central Police Organization. - International Police Organization. - Recruitment and Training of Police. - Police station: Meaning, Types and Structure.	15 hrs
Unit II	POLICE UNITS AND THEIR FUNCTIONS - State Police Units: - i). Civil, Reserve, Traffic, Coastal, Fire, Technical wings. - ii). Dogs Squad, and Crime Record Statistics. - Central Police Units: - i). Armed Reserved, BSF, CISF, CRPF, ITBP, NSG, SSB, ii) RAW, CBI, NCB, NIA, BPR&D and NCRB.	15 hrs
Unit III	POWERS AND FUNCTIONS OF POLICE - Qualities of Investigating Officer. - Registration of Cases: Recording of FIR, Case Diary and Charge Sheet. - Investigation: i) Meaning and Importance. - ii). Tools of Investigation: Information, Interrogation and Instrumentation.	15 hrs

	Executive Powers and duties of Police in Arrest, Search, Seizure Under Bharatiya Nagarik Suraksha Sanhita (BNSS).	
Unit IV	PREVENTION OF CRIME - Beat, Patrol and Surveillance. - Community Policing. - Police-Public relations. - Security and Vigilance. - Modus Operandi Bureau. - Advance Technology in Policing.	15hrs

References:

1. Cordner G. W. (2019). *Police Administration*, 10th edn, New York, eBook.
2. Cox S. M., Marchionna S. and Fitch B. D. (2016). *Introduction to Policing*, SAGE Publications.
3. Foster R. E. (2005). *Police Technology*, Pearson Prentice Hall.
4. Horder J. (2022). *Ashworth's Principles of Criminal Law*, 10th edn, Oxford University Press.
5. Katz C. M. and Walker S. (2017). *The Police in America: An Introduction*, McGraw-Hill Education.
6. Lushbaugh C. and Weston P. (2015). *Criminal Investigation: Basic Perspectives*, Pearson Education.
7. Miller L. S., Hess K. M., and Orthmann C. H. (2017). *Community Policing: Partnerships for Problem Solving*, Cengage Learning.
8. Srivastava Aparna. (1999). *Role of Police in Changing Society*, APH Publishing House.
9. Walker S. E., and Archbold C. A. (2018). *The New World of Police Accountability*, SAGE Publications.
10. Walsh W. F., Vito G. F. and Vito G. F. (2018). *Police Leadership and Administration*, New York, eBook.

Formative Assessment for Theory	
Assessment Occasion/type	Marks
InternalAssessmentTest1	05
InternalAssessmentTest2	05
Assignment	10
Total	20Marks
<i>Formative Assessment as per guidelines.</i>	

B.Sc. Semester– IV

Discipline Specific Course (DSC-8)

Course Title: POLICE INVESTIGATION

Course Code: C4FSC1P1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. Of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSC-8	Practical	02	04	56hrs.	3hrs.	10	40	50

Course Outcomes (COs): At the end of the course, students will be able to:

CO 1: Aware the importance of physical evidences and need for handling, packing and Preservation

CO 2: Understand the different methodologies used in different scene of crimes

CO 3: Understand the need and types of crime scene documentation

CO 4: Understand the importance of Scene of Crime

List of the Experiments

1. Recording of Complaint and FIR in the prescribed form
2. Recording of Case Diary.
3. Charge Sheet/Final Report.
4. Searching, Locating and Fixing of the Clues.
5. Sketch (rough and neat) the scene of Crime and Reconstruction.
6. Inspection of Simulated Scene of Crimes of Burglary, Homicide, Suicide and Motor Vehicle Accident.
7. Handling, Packing and forwarding of physical clues to concerned expert for opinion:
8. Cloth with red stains.
9. Hair samples
10. Knife with the suspected Finger prints.
11. Dried stain on the Floor.
12. Cup with the suspected Finger prints.
13. Bottle with the suspected Finger prints.

Instruction:

Course Teacher and HOD/ Coordinator/ Principal certified practical record book is mandatory for appearing semester end practical examinations

Formative and Summative examination pattern

Internal tests	10 marks
Viva –Voce	05 marks
Practical Record Book	05 marks
Experiment based questions	30 marks
Total	10+ 40 = 50 marks

B.Sc. Semester–IV

Discipline Elective Course (DEC-2)

Course Title: QUESTIONED DOCUMENT

Course Code: C4FSC1T1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. Of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DEC-2	Theory	02	02	30hrs.	3hrs.	10	40	50

Course Outcomes (COs): At the end of the course students will be able to:

CO1: Explain the principles and scope of questioned document examination.

CO2: Identify handwriting characteristics and detect signature forgeries.

CO3: Apply scientific methods for the examination of documents, inks, papers, and printing processes.

CO4: Understand the evidentiary value of questioned documents in forensic investigations and court Proceedings.

Unit	Course Title: FINGERPRINT SCIENCE	30 hrs/sem.
Unit I	Fundamentals of Questioned Document Examination Introduction to Questioned Documents - Definition, scope, and importance - History and development of questioned document examination - Role of the document examiner in forensic science - Types of questioned documents Handwriting Examination - Principles of handwriting identification - Class and individual characteristics - Natural variations in handwriting - Collection of standard and admitted writings Signature Examination - Characteristics of genuine signatures - Types of forged signatures - Detection of simulated, traced, and disguised signatures - Examination and comparison techniques Document Alterations - Erasures (mechanical and chemical) - Additions and obliterations - Alterations in printed and handwritten documents - Identification of fraudulent documents	15 hrs

Unit II	Scientific Examination of Questioned Documents 1. Examination of Writing Materials • Paper examination • Ink examination • Writing instruments • Printing processes 2. Instrumental Techniques • Magnification techniques • Ultraviolet (UV) and Infrared (IR) examination • Electrostatic Detection Apparatus (ESDA): Introduction • Video Spectral Comparator (VSC): Introduction 3. Examination of Printed and Digital Documents • Typewritten documents • Printed documents • Photocopied documents • Digital and electronically generated documents 4. Questioned Documents in Criminal Justice • Expert opinion under the Indian Evidence Act • Preparation of forensic reports • Presentation of evidence in court • Limitations and challenges in questioned document examination	15 hrs
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References:

1. Ellen, D. (2006). *Scientific examination of documents: Methods and techniques* (3rd ed.). CRC Press.
2. Hilton, O. (1982). *Scientific examination of questioned documents* (Revised ed.). Elsevier.
3. Huber, R. A., & Headrick, A. M. (1999). *Handwriting identification: Facts and fundamentals*. CRC Press.
4. Kelly, J. S., & Lindblom, B. S. (2006). *Scientific examination of questioned documents* (2nd ed.). CRC Press.
5. Osborn, A. S. (1929). *Questioned documents* (2nd ed.). Boyd Printing Company.
6. Sargur Srihari, N., Cha, S.-H., Arora, H., & Lee, S. (2002). *Individuality of handwriting*. Journal of Forensic Sciences, 47(4), 856–872.

Formative Assessment for Theory	
Assessment Occasion/type	Marks
InternalAssessmentTest1	05
InternalAssessmentTest2	05
Total	10 Marks
<i>Formative Assessment as per guidelines.</i>	

B.Sc. Semester–V

Discipline Specific Course (DSC-9)

Course Title:- FORENSIC MEDICINE AND TOXICOLOGY

Course Code: C5FSC2T1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. Of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSC-9	Theory	03	04	60hrs.	3hrs.	20	80	100

Course Outcomes (COs): At the end of the course students will be able to:

CO1: To understand the basics of Medical Jurisprudence and Toxicology

CO2: Demonstrate the medico-legal importance of Death.

CO3: To familiarize with the poisons and their effects on human body.

CO4: To Familiarize with autopsy and its importance.

Unit	Course Title: FORENSIC MEDICINE AND TOXICOLOGY	60 hrs/sem
Unit-I	FORENSIC MEDICINE - Forensic Medicine: Meaning, definition and Importance - History of Forensic Medicine - Need, Scope, Importance and probative value of medical evidence in Crime Investigation - Legal and Ethical Aspects of Practice of Medicine - The Indian Medical Council and State Medical Council: Formation, Functions - Rights, Privileges and Duties of Registered Medical Practitioners.	15 hrs
Unit-II	THANATOLOGY - Thanatology, death, its causes, stages of death, signs of death and changes following death, Asphyxia and accidents - Death due to heat, cold and electrocution - Injuries classification and medico legal aspects - Sexual offences - Forensic psychiatry	15 hrs
Unit-III	FORENSIC TOXICOLOGY - Forensic Toxicology: Meaning, Definitions and Importance - General consideration and Laws in relation to poisons / Narcotic drugs and Psychotropic substances Act, - Common poisons and their classification - Identification of common poisons - Analytical Toxicology (Principles: Bedside & Common Lab. Tests), Collection, Preservation and Dispatch of Viscera to FSL - Regulatory Toxicology for prevention of Hazards to Health and Ecology	15 hrs

Unit-IV	MAJOR POISONS Corrosive & irritant poisons: • Inorganic Corrosives: Sulphuric, Nitric & Hydrochloric Acid • Organic Corrosives: Phenol, Oxalic Acid • Inorganic Non-Metallic Irritants: Phosphorus, Halogens, Inorganic Metallic Irritants- Arsenic, Lead, Mercury, Copper • Organic Vegetable Irritants: Abrus, Castor, Croton, Calotropis, Semi carpus, Ergot. Neurotoxin: • Inebriates: Ethyl, Alcohol and Methyl Alcohol • Somniferous and Sedative Hypnotics – Opium and Derivatives, Barbiturates - Deliriant- Dhathura, Cannabis, Cocaine Asphyxiants and Other Poisons: • Asphyxiants (Gases): Carbon monoxide, Carbon Dioxide and Cyanides • Cardiac Poisons: Oleanders, Aconite and Tobacco • Other Poisons- Domestic/ Household Poisons- Kerosene, Detergents	15hrs
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References:

1. Biswas G.,(2012). *Review of Forensic Medicine and Toxicology*, JP Medical Ltd.
2. Dettmeyer R. B., Verhoff M. A., and Schutz H. F. (2013), *Forensic Medicine: Fundamentals and Perspectives*, Springer Science & Business Media.
3. Gordon I & Shapiro H.A.(1982). *Forensic medicine*, Longman group ltd.
4. Guharaj P.V. & R. Chandran. (1982). *Forensic medicine*, Orient Longman Pvt ltd.
5. James J. P., Busuttil A., and Smock W. (2003). *Forensic Medicine: Clinical and Pathological Aspects*, Cambridge University Press.
6. Lahiri S.K.. (1973). *Elements of medical jurisprudence*, Prabasi press.
7. Lappas, Nicholas T., (2016). *Forensic Toxicology : Principles and Concepts*, Amsterdam: Elsevier.
8. Levine B. S., Kerrigan S.,(2020). *Principles of Forensic Toxicology*, Springer Cham.
9. Mant A.K.(2003). *Taylor's principles & practice of medical jurisprudence*, Wingking Tong co.ltd.
10. Nandy. (1995). *Principals of forensic medicine*, New central book agency.

Formative Assessment for Theory	
Assessment Occasion/type	Marks
InternalAssessmentTest1	05
InternalAssessmentTest2	05
Assignment	10
Total	20Marks
<i>Formative Assessment as per guidelines.</i>	

B.Sc. Semester–V

Discipline Specific Elective (DSE-1)

Course Title: - DIGITAL FORENSICS AND CYBERCRIME

Course Code: C5FSC2T2

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
(DSE-1)	Theory	03	04	60hrs.	3hrs.	20	80	100

Course Outcomes (COs): At the end of the course students will be able to:

- CO1: To understand the concept of digital evidence, collection and preservation of evidence And its significance.
- CO2: To understand the importance of Cyber Security
- CO3: Demonstrate the methods and techniques, best practices to protect against various kind Of cyber- attacks.
- CO4: To familiarize with the application of Cyber laws in general.

Unit	Course Title: DIGITAL FORENSICS AND CYBERCRIME	60 hrs/sem
Unit I	INTRODUCTION TO DIGITAL FORENSICS - History of computers and mobile generations. - General awareness of mobile and computer hardware devices, software, memory and processors. - Basic operating system in smart phone and computer- Android, KitKat, MS Dos and Windows. - Internet: Basic setup and internet working, Forensic utility of Smartphone, computer and internet. - Networks- LAN, WAN and MAN	15 hrs
Unit II	COMPUTER, SMART PHONE AND CYBERCRIME - Definition, distinction between computer, smart phone crimes and conventional crimes and reasons for commission of such crimes. - Different types of cybercrime: - Identity theft, cyber defamation, hacking, viruses, Trojan and worms, spoofing, spamming, phishing, software piracy. - Cloning of mobile and Sim cards, Imaging software, logic bombs, cyber stalking. - Cyber terrorism, credit and information theft.	15 hrs

Unit III	CYBER RELATED LAWS AND ENFORCEMENT AGENCIES - Information Technology Act 2000 and Information Technology (Amendment) Act 2008, Objectives, Applicability, Non-applicability, Definitions, Amendments and Limitations. - Offences Under IT Act, Offences Related with Digital Signature and Electronic Signature Under IT Act. Various cyber-crimes under Sections 43(a) to (j), 43A, 65, 66, 66A to 66F, 67, 67A, 67B, 70, 70A, 70B, 80 etc..Penalties Under IT Act, - Regulation of Certifying Authorities, Appointment and Powers and Functions of Controller, Cyber Appellate Tribunals. Investigation of malicious applications Agencies for investigation in India, their powers and their constitution as per Indian Laws Procedures, Intellectual Property Rights in the Cyber World.	15 hrs
Unit IV	CYBER SECURITY AND INVESTIGATION OF CYBERCRIME - Fraud detection in computer and mobile forensic: detecting fraud, technologies used for fraud detection; data mining and fraud detection. - Internet security system, tracing domain name or IP address, firewall security systems, wireless network security. - Security using Cryptography and Steganography. Investigation of Cybercrime: - Seizure of computers- Seizure of suspected computer, preparation required prior to seizure, collection and seizure of magnetic data. - Restoration of deleted files- familiarization of software, Encase, Cyber check suites, Encryption and decryption methods. - Legal and privacy issues.	15 hrs

References:

1. Ashok Kumar, Manocha O. P. (2023). *Cyber Encounters: Cops Adventures With Online Criminals*, Penguin eBury Press.
2. Goel S., Gladyshev P., Nikolay A., Markowsky G., and Johnson D. (2023), *Digital Forensics and Cyber Crime*, Springer Nature.
3. Gupta and Agarwal. (2012) *Cyber Law*, Premier Publication Company, Allahabad.
4. Halder, D., & Jaishankar, K. (2011). *Cyber crime and the Victimization of Women: Laws, Rights, and Regulations*. Hershey, PA, USA: IGI Global.
5. Information Technology Act 2005 & IT Act Amendment, 2008
6. Moore, R. (2005) *"Cyber crime: Investigating High-Technology Computer Crime,"* Cleveland, Mississippi: Anderson Publishing.
7. Nelson B. Philips A., and Steuart C. (2014). *Guide to computer Forensics and Investigations*, Cengage Learning.
8. Paranjape N.V. (2010). *Cyber Crimes and Law*, Central law Agency, Allahabad.
9. Sammons J. (2015). *Digital Forensics: Threatscape and Best Practices*, Syngress.
10. Sammons J. (2015). *Digital Forensics: Threatscape and best practices*, Syngress.

Formative Assessment for Theory	
Assessment Occasion/type	Marks
InternalAssessmentTest1	05
InternalAssessmentTest2	05
Assignment	10
Total	20Marks
<i>Formative Assessment as per guidelines.</i>	

B.SC. - V Semester
Discipline Specific Elective (DSE-2)

Course Title:-FORENSIC INSTRUMENTS

Course Code: C5FSC2T3

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSE-2	Theory	03	04	60 hrs.	3 hrs.	20	80	100

Course Outcome (COs): At the end of the course students will be able to:

CO1: Identify the different tools in forensic science

CO2: Understand the techniques and applications used in criminal investigation

CO3: Know the functions of advanced microscopes

CO4: Understand the importance of Forensic photography

Unit	Course Title: FORENSIC INSTRUMENTS	60 hrs/sem
Unit I	INTRODUCTION TO FORENSIC TOOLS AND TECHNIQUES - Importance and application of scientific techniques in forensic science - Application of Artificial intelligence in forensic science - Role of scientific techniques in establishing a crime	15 hrs
Unit II	MICROSCOPY - Fundamental principles. - Different types of microscopes: Simple microscope, research microscope, binocular microscope, Comparison Microscope, Electron microscope and Scanning Electronic Microscope (SEM). Magnification and Resolution. - Transmission Electron Microscopy (TEM), Stereomicroscope Polarization and application Forensic applications of microscopy. - Stereo-zoom Microscopy, Video Spectral Comparator (VSC) and Electrostatic Detection Apparatus (ESDA), Software's of fingerprints, classification and detection of cyber crimes	15 hrs
Unit III	FORENSIC PHOTOGRAPHY - Basic principles and applications of photography in forensic science. - Photographic evidence. 3D photography, Infrared and ultraviolet photography, Digital photography, Videography and CCTVs. - Crime scene and laboratory photography.	15 hrs

Unit IV	SPECTROSCOPIC TECHNIQUES • Introduction, Review of Spectroscopic. • Fundamental principles and Instrumentation and Techniques, Qualitative and Quantitative methods. • Ultraviolet-visible spectroscopy, Infrared spectroscopy, atomic absorption spectroscopy, atomic emission spectroscopy and Mass spectroscopy. • Colorimetric analysis and Lambert-Beer law, Forensic Applications.	15 hrs
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Recommended books:

1. Bell L. S. (2012). *Forensic Microscopy for Skeletal Tissue: Methods and Protocols*, Human Totowa, NJ.
2. Elkins K. M. (2018). *Introduction to Forensic Chemistry*, 1st edn, Boca Raton, CRC Press.
3. Gaensslen R. E., Kubic T. A., Desion P. J., and Lee H. C. (1985). *Instrumentation and Analytical methodology in Forensic Science*, American Chemical Society and Division of chemical Education.
4. Jackson G. and verbeck G. (2021). *Forensic Chemistry: Instrumentation and Applications*, Wiley Publication.
5. Kumar. S. S. (2021). *A Textbook on Measurement and Instrumentation*, Nation Press.
6. Marsh N. (2014). *Forensic Photography: A Practitioner's Guide*, John Wiley & Sons
7. Stuart B. H. (2012). *Forensic Analytical Techniques*, Wiley Publication.
8. Taylor K. T. (2000). *Forensic Art and Illustration*, 1st edn, Boca Raton, CRC Press.
9. Weiss, Sanford L. (1948). *Forensic Photography: Importance of Accuracy*, Upper Saddle River, N.J: Pearson/ Prentice Hall.
10. Wheeler and Barbara. (2008). *Practical Forensic Microscopy: a laboratory manual*, Chichester, England; Hoboken, NJ: John Wiley.

Formative Assessment for Theory	
Assessment Occasion/type	Marks
InternalAssessmentTest1	05
InternalAssessmentTest2	05
Assignment	10
Total	20Marks
<i>Formative Assessment as per guidelines.</i>	

B.Sc. Semester–V
Discipline Specific Course (DSC-10)

Course Title: MEDICO-LEGAL EXAMINATION

Course Code: C5FSC2P1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSC-10	Practical	02	04	56hrs.	3hrs.	10	40	50

Course Outcomes (COs): At the end of the course, students will be able to:

CO1: Understand about Medico-legal cases

CO2: Know about body Fluids

CO3: Examine the importance of physical evidence

CO4: Evaluate wounds and injuries

List of the Experiments

1. Medico-legal aspects of Homicidal
2. Medico-legal aspects of Suicidal
3. Medico-legal aspects of Accidents
4. Examination of Human Skeleton
5. Identification of Sex and age through examination Bone remains
6. Examination of different wounds and injuries.
7. Preliminary Blood tests; Benzidine, phenolphthalein
8. Confirmatory Blood tests : Haemin crystal,
9. Microscopic and blood grouping.
10. Examination of morphology of hair
11. Examination and identification of fibres.
12. Documentation of Forensic Autopsy.

Instruction:

Course Teacher and HOD/ Coordinator/ Principal certified practical record book is mandatory for appearing semester end practical examinations

Formative and Summative examination pattern

Internal tests	10 marks
Viva –Voce	05 marks
Practical/ Visits Book	05 marks
Experiment/ institutes visits based questions	30 marks
Total	10+ 40 = 50 marks

B.Sc. Semester–V

Discipline Specific Course (DSC-10)

Course Title: DIGITAL FORENSICS

Course Code: C5FSC2P2 *(Sample Code – can be modified as per university regulations)*

Type of Course	Theory / Practical					
DSC-10	Practical					
Credits	Instruction Hours per Week	Total No. of Lectures/Hours per Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
02	04	56 Hours	3 Hours	10	40	50

Course Outcomes (COs)

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

CO1: Understand the fundamentals of Digital Forensics and the digital forensic investigation process.

CO2: Identify, collect, preserve, and document digital evidence following standard forensic procedures.

CO3: Perform forensic examination of computers, mobile devices, storage media, and network artifacts using forensic tools.

CO4: Analyze digital evidence, prepare forensic reports, and understand legal and ethical aspects related to cyber investigations.

List of the Experiments

1. Introduction to Digital Forensics Laboratory, forensic procedures, and chain of custody documentation.
2. Identification, collection, preservation, and packaging of digital evidence.
3. Creation and verification of forensic disk images using hashing techniques (MD5/SHA).
4. Examination and analysis of file systems and storage media.
5. Recovery and analysis of deleted files using forensic tools.
6. Examination of metadata from documents, images, and multimedia files.
7. Password recovery and authentication techniques using forensic utilities.
8. Browser history, cookies, cache, downloads, and internet activity analysis.
9. Email forensic examination and analysis of email headers.
10. Mobile device forensic examination and extraction of logical data.
11. USB device, log file, and registry analysis for user activity reconstruction.
12. Preparation and documentation of Digital Forensic Investigation Report.

Instruction

Course Teacher and HOD/Coordinator/Principal certified practical record book is mandatory for appearing in the semester-end practical examinations.

Formative and Summative Examination Pattern

Assessment Component	Marks
Internal Tests	10 Marks
Viva-Voce	05 Marks
Practical Record Book	05 Marks
Experiment/Case Study/Tool-based Questions	30 Marks
Total	10 + 40 = 50 Marks

B.Sc. Semester–V

Discipline Specific Course (DSC-10)

Course Title: FORENSIC INSTRUMENTS

Course Code: C5FSC2P2

Type of Course	Theory / Practical					
DSC-10	Practical					
Credits	Instruction Hours per Week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
02	04	56 hrs.	3 hrs.	10	40	50

Course Outcomes (COs): At the end of the course, students will be able to:

CO1: Understand the principles and applications of forensic laboratory instruments.

CO2: Identify and demonstrate the operation of common analytical instruments used in forensic science.

CO3: Perform basic instrumental analysis for examination of biological, chemical, and physical evidence.

CO4: Interpret instrumental results and appreciate the importance of quality assurance and laboratory safety in forensic investigations.

List of the Experiments

1. Study and identification of common forensic laboratory instruments.
2. Demonstration and operation of Compound and Comparison Microscopes.
3. Examination of evidence using Stereo Microscope and Digital Microscope.
4. Study and applications of Ultraviolet (UV) and Infrared (IR) light sources in forensic examination.
5. Demonstration of Alternate Light Source (ALS) for biological stain detection.
6. Study of Chromatographic instruments (TLC, GC, and HPLC) used in forensic analysis.
7. Demonstration of Spectrophotometer (UV–Visible) for forensic sample analysis.
8. Study of Fourier Transform Infrared (FTIR) Spectroscopy for material identification.
9. Demonstration of Gas Chromatography–Mass Spectrometry (GC–MS) and its forensic applications.
10. Study of Fingerprint development equipment and imaging instruments.
11. Examination of digital imaging devices and photographic instruments used in crime scene documentation.
12. Documentation, maintenance, calibration, and safety procedures for forensic laboratory instruments.

Instruction

Course Teacher and HOD/Coordinator/Principal certified practical record book is mandatory for appearing in the semester-end practical examinations.

Formative and Summative Examination Pattern

Assessment Component	Marks
Internal Tests	10 Marks
Viva–Voce	05 Marks
Practical/Visits Record Book	05 Marks
Experiment/Instrument Demonstration/Institute Visits Based Questions	30 Marks
Total	10 + 40 = 50 Marks

B.Sc. Semester–VI

Discipline Specific Course (DSC-11)

Course Title:- DACTYLOSCOPY AND DNA FINGERPRINTING

Course Code: C6FSC2T1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSC-11	Theory	03	04	60hrs.	3hrs.	20	80	100

Course Outcomes (COs): At the end of the course students will be able to:

- CO1: Understand the different types of finger prints
 CO2: Examine the fingerprints found in crime scene
 CO3: Evaluate the latent prints
 CO4: Understand relevance of fingerprint in crime detection

Unit	Course Title: - DACTYLOSCOPY AND DNA FINGERPRINTING	60 hrs/sem
Unit I	INTRODUCTION TO DACTYLOSCOPY Dactyloscopy: • Meaning, Nature and Importance • Historical Development of Fingerprint Science. • Principles of Fingerprints • Organization and functions of State and Central Fingerprint Bureaus • Evidentiary value of Fingerprint in the Court of Law • Foot prints: Meaning, Types and Importance • Components and measuring of Gait Pattern	15 hrs
Unit II	CLASSIFICATION OF FINGER PRINTS PATTERNS • Finger print patterns: Meaning and Types • Henry's ten Digit Classification of Fingerprints • Battely's Single digit Classification System • Ridge Characteristic. • Chance Prints: Meaning and Types, Poroscopy and Edgeoscopy	15 hrs
Unit III	DEVELOPMENT OF LATENT FINGER PRINTS AND FOOT PRINTS Development of Latent Finger Prints by: • Physical methods for latent fingerprint Development • Chemical methods for latent fingerprint Development • Iodine Fuming Method., Vacuum Metal Deposition (VMD) method Lifting Foot Prints: • Tracing and casting of Foot Prints • Electro Static lifting of latent foot prints.	15 hrs

Unit IV	DNA FINGERPRINTS • Meaning of DNA Fingerprints and Scopes. • Importance of DNA Fingerprints. • Legal Procedures for Conducting DNA Fingerprints. • Different Type's Cases Conduct DNA Fingerprints. • Source of DNA: Blood, Saliva, Hair, Skin tissues and Nail.	15hrs
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2. B.S. Nabar., *Forensic Science in Crime Investigation*, 3rdEdn., Asia Law House, Hyderabad
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10. Wertheim K, Maceo A (2002) *The critical stage of friction ridge and pattern formation*.

Formative Assessment for Theory	
Assessment Occasion/type	Marks
InternalAssessmentTest1	05
InternalAssessmentTest2	05
Assignment	10
Total	20Marks
<i>Formative Assessment as per guidelines.</i>	

B.Sc. Semester–VI
Discipline Specific Elective (DSE-5)

Course Title:- ARTIFICIAL INTELLIGENCE IN CRIME INVESTIGATION
Course Code - C6FSC2T2

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSE-5	Theory	03	04	60hrs.	3hrs.	20	80	100

Course Outcome:

- CO 1. Students will be able to develop a fundamental understanding of the concepts, principles, and significance of Artificial Intelligence in crime investigation.
- CO 2. Students will be able to explain the role and applications of Artificial Intelligence in the criminal justice system, including policing, courts, and correctional administration.
- CO 3. Students will be able to apply basic knowledge of Artificial Intelligence to understand its use in crime prevention, crime detection, and criminal investigations.
- CO 4. Students will be able to identify and understand various Artificial Intelligence tools and technologies used in modern policing and law enforcement for effective crime management.

Unit	Course Title: Artificial Intelligence in Crime Investigation	60 hrs/sem
Unit I	Introduction to Artificial Intelligence in Crime Investigation - Artificial Intelligence: Concept, Meaning, Definition, and Scope - Evolution and Development of Artificial Intelligence - Importance and Significance of Artificial Intelligence in Crime Investigation - Applications of Artificial Intelligence in Criminal Intelligence Collection and Analysis - Opportunities, Challenges, and Ethical Issues in the Use of Artificial Intelligence for Law Enforcement	15 hrs
Unit II	Artificial Intelligence in Crime Investigation and Criminal Justice System - Artificial Intelligence in Crime Investigation: Concepts and Applications - Role of Artificial Intelligence in Crime Prevention - Role of Artificial Intelligence in Crime Detection and Investigation - Applications of Artificial Intelligence in the Criminal Justice System - Benefits, Challenges, and Limitations of Artificial Intelligence in Criminal Justice	15 hrs
Unit III	Introduction to Artificial Intelligence Tools in Policing - Surveillance Systems: Concept, Meaning, and Importance in Policing - Closed-Circuit Television (CCTV) Systems as an AI Tool in Policing - Smart Cameras and Video Analytics in Law Enforcement - Facial Recognition Systems (FRS): Applications in Policing - Global Positioning System (GPS) and Geographic Information System (GIS) as AI-Enabled Tools in Crime Prevention and Investigation	15 hrs
Unit IV	Artificial Intelligence in Access Control Systems - Access Control Systems: Concept, Meaning, and Importance in Security - AI-Enabled Barriers and Smart Access Control Technologies	15 hrs

	• Biometric Systems: Types and Applications in Security and Policing • Smart Access Cards and AI-Based Authentication Systems • Role of Artificial Intelligence in Access Control for Crime Prevention and Public Safety	
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References

1. Alisha. (2021). Use of Artificial Intelligence in Criminal Justice System. First Edition. Bluerose Publishers Pvt. Ltd.
2. Baker, D. J., & Robinson, P. H. (2020). Artificial Intelligence and the Law: Cybercrime and Criminal Liability. 1st Edition. Routledge.
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6. Rich, E. (1991). Artificial Intelligence. 2nd Edition. McGraw-Hill.
7. Russell, S., & Norvig, P. (2021). Artificial Intelligence: A Modern Approach. 4th Edition. Pearson. (Recommended)

Journals

1. Artificial Intelligence and Law. Springer Journal. (Recommended for recent developments.)
2. King, T. C., Aggarwal, N., Taddeo, M., & Floridi, L. (2020). "Artificial Intelligence Crime: An Interdisciplinary Analysis of Foreseeable Threats and Solutions." Science and Engineering Ethics, 26(1), 89–120.

Digital References

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2. https://www.researchgate.net/publication/331099286_Artificial_Intelligence_Crime_An_Interdisciplinary_Analysis_of_Foreseeable_Threats_and_Solutions
3. Ministry of Home Affairs, Government of India. <https://www.mha.gov.in>
4. National Crime Records Bureau (NCRB). <https://www.ncrb.gov.in>
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Formative Assessment for Theory	
Assessment Occasion/type	Marks
Internal Assessment Test 1	05
Internal Assessment Test 2	05
Assignment	10
Total	20Marks
<i>Formative Assessment as per guidelines.</i>	

B.Sc. Semester–VI
Discipline Specific Elective (DSE-6)

Course Title: - FORENSIC DOCUMENT AND BALLISTICS

Course Code: C6 FSC2T3

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSE-6	Theory	03	04	60hrs.	3hrs.	20	80	100

Course Outcomes (COs): At the end of the course students will be able to:

CO1: Understand the disputed documents

CO2: Understand the characteristics of handwriting

CO3: Know about the types of ammunition and firearms

CO4: Examine the importance of ballistics in criminal investigation

Unit	Course Title: FORENSIC DOCUMENT AND BALLISTICS	60 hrs/sem
Unit I	INTRODUCTION TO FORENSIC DOCUMENT - Document: Meaning and Definitions - Questioned Document: Meaning, Definitions and Types - Preliminary examination, collection, Handling and Transportation of document. - Organization and functions of Government Examiners for Question Document. - Laboratory analysis and court permission as evidence.	15 hrs
Unit II	FORENSIC DOCUMENT EXAMINATION - Handwriting: Meaning and Principles. - Class and individual characteristics of Handwritings. - Comparison of handwriting: Natural variations and fundamental divergences in handwritings. - Examination of signatures characteristics, Examination of paper and ink. - Forgery: Meaning and Types. I. Alterations in documents. Indented and invisible writings. II. Tools and Techniques for examination and Identification of Forgeries.	15 hrs
Unit III	FORENSIC BALLISTICS - Firearm: Meaning and historical development. - Classification of firearms. - Firing mechanisms of different firearms. - Ammunition: Types of ammunition, Constructional features and characteristics of different types of cartridges and bullets. - Different types of marks produced during firing process on cartridge – firing pin marks, Breech face marks, chamber marks, extractor and ejector marks.	15 hrs

Unit IV	FIREARM EVIDENCE • Matching of bullets and cartridge cases in regular firearms. • Automated method of bullet and cartridge case comparison. • Determination of range of fire and time of fire. • Mechanisms of formation of gunshot residues • Methods of analysis of gunshot residues from shooting hands and targets, with special reference to clothing.	15hrs
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2. Albert S. Osborn. (1998). Questioned Documents, 2nd Ed., universal Law Pub., Delhi
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Formative Assessment for Theory	
Assessment Occasion/type	Marks
InternalAssessmentTest1	05
InternalAssessmentTest2	05
Assignment	10
Total	20Marks
Formative Assessment as per guidelines.	

B.Sc. Semester–VI
Discipline Specific Course (DSC-12)

Course Title: FINGERPRINT ANALYSIS

Course Code: C6FSC2P1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
DSC-12	Practical	02	04	56hrs.	3hrs.	10	40	50

Course Outcomes (COs): At the end of the course, students will be able to:

CO1: Understand Different type of fingerprints

CO2: Evaluate Fingerprints as a evidence

CO3: Analyze human skin and fingerprints

CO4: Understand different types of fingerprint identification methods.

List of the Experiments

1. Recording of Fingerprints of a living person.
2. Finger Print Pattern analysis.
3. Identification of Ridge Characteristics.
4. Comparison of Fingerprints
5. Lifting and Identification of Plastic Prints
6. E.R. Henry's classification
7. Developing Latent Fingerprints -Physical methods.
8. Developing Latent Fingerprints -Chemical Methods.
9. Recording of Footprints.
10. Comparison of Footprints.
11. Tracing of Foot Prints
12. Lifting of Sunken Footprints.

Instruction:

Course Teacher and HOD/ Coordinator/ Principal certified practical record book is mandatory for appearing semester end practical examinations

Formative and Summative examination pattern

Internal tests	10 marks
Viva –Voce	05 marks
Practical/ Visits Book	05 marks
Experiment/ institutes visits based questions	30 marks
Total	10+ 40 = 50 marks

B.Sc. Semester–VI

Discipline Specific Course (DSC-12)

Course Title: ARTIFICIAL INTELLIGENCE PRACTICUM

Course Code: C6FSC2P2

Type of Course	Theory / Practical					
DSC-12	Practical					
Credits	Instruction Hours per Week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
02	04	56 hrs.	3 hrs.	10	40	50

Course Outcomes (COs): At the end of the course, students will be able to:

CO1: Understand the fundamentals of Artificial Intelligence and its applications in forensic science and related domains.

CO2: Apply data preprocessing, visualization, and feature extraction techniques using AI tools.

CO3: Develop and evaluate basic machine learning models for classification and prediction tasks.

CO4: Demonstrate the use of Artificial Intelligence techniques for image analysis, pattern recognition, and decision support.

List of the Experiments

1. Introduction to Artificial Intelligence tools and development environment (Python, Jupyter Notebook, Google Colab).
2. Data collection, preprocessing, cleaning, and visualization using AI libraries.
3. Implementation of supervised learning algorithms for classification.
4. Implementation of regression models for prediction and analysis.
5. Implementation of unsupervised learning techniques (K-Means clustering).
6. Feature extraction and dimensionality reduction using Principal Component Analysis (PCA).
7. Image preprocessing and object recognition using OpenCV.
8. Pattern recognition using Artificial Intelligence techniques.
9. Introduction to Neural Networks and implementation of a simple Artificial Neural Network (ANN).
10. Demonstration of Deep Learning using Convolutional Neural Networks (CNN) for image classification.
11. AI-based analysis of forensic datasets (fingerprints, facial images, or document images).

12. Preparation and presentation of an Artificial Intelligence practical project report.

Instruction:

Course Teacher and HOD/Coordinator/Principal certified practical record book is mandatory for appearing in the semester-end practical examinations.

Formative and Summative Examination Pattern

Assessment Component	Marks
Internal Tests	10 Marks
Viva–Voce	05 Marks
Practical/Project Record Book	05 Marks
Experiment/AI-based Practical/Institute Visits Based Questions	30 Marks
Total	10 + 40 = 50 Marks

B.Sc. Semester–VI

Discipline Specific Course (DSC-12)

Course Title: DOCUMENTS AND BALLISTICS EXAMINATION

Course Code: C6FSC2P2

Type of Course	Theory / Practical					
DSC-12	Practical					
Credits	Instruction Hours per Week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
02	04	56 hrs.	3 hrs.	10	40	50

Course Outcomes (COs): At the end of the course, students will be able to:

CO1: Understand the principles and techniques used in forensic examination of questioned documents and firearms evidence.

CO2: Examine handwriting, signatures, printed documents, and security features for authenticity and forgery detection.

CO3: Analyze firearms, ammunition, bullets, cartridge cases, and tool marks using standard forensic methods.

CO4: Interpret document and ballistic evidence and prepare scientific reports for forensic investigations.

List of the Experiments

1. Examination of handwriting characteristics and natural variations.
2. Comparison of signatures and detection of forged signatures.
3. Examination of printed documents, typewritten matter, and photocopies.
4. Identification and analysis of paper, ink, and writing instruments.
5. Detection of alterations, erasures, overwriting, and obliterations in documents.
6. Examination of security features in currency notes, passports, and certificates using UV and magnification techniques.
7. Identification and classification of firearms and their components.
8. Examination and identification of ammunition, bullets, and cartridge cases.
9. Study and comparison of rifling marks, breech face marks, firing pin impressions, and extractor/ejector marks.
10. Examination and comparison of tool marks and impression evidence.
11. Documentation and photography of questioned documents and ballistic evidence.

12. Preparation of forensic examination reports for questioned documents and ballistic evidence.

Instruction

Course Teacher and HOD/Coordinator/Principal certified practical record book is mandatory for appearing in the semester-end practical examinations.

Formative and Summative Examination Pattern

Assessment Component	Marks
Internal Tests	10 Marks
Viva–Voce	05 Marks
Practical/Visits Record Book	05 Marks
Experiment/Institute Visits Based Questions	30 Marks
Total	10 + 40 = 50 Marks

B.Sc. Semester–IV/ V/VI

Skill Enhancement Course (SEC)

Student shall study SEC in any one of the Semesters either in IV or V or VI semester

College shall decide to allot the students

Course Title: STUDY OF MARKS AND IMPRESSION

Course Code: C0FSC6T1

Type of Course	Theory /Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
SEC	Practical	02	04	56hrs.	3hrs.	10	40	50

Course Outcomes (COs): At the end of the course, students will be able to:

CO 1: Understand the importance of Glass Fractures in Crime Scene Analysis

CO 2: Develop the necessary investigation skills to become Scene of crime experts

CO 3: Understand the importance of Physical evidence

CO 4: Recognise the importance of Footprints in estimation of Anthropometric Measurements.

List of the Experiments

1. Examination of Glass Fractures for Determination of its Nature and Direction of Force.
2. Examination of Burnt Glass
3. Examination of Currency Notes
4. Examination of Coins for their Authenticity.
5. Comparison of Different Tool Marks.
6. Tool marks from blunt object and sharp object
7. Examination of Tyre Marks
8. Examination of Skid Marks and Identification of Speed and Weight of a Vehicle.
9. Identification of Accidents Vehicle
10. Examination of Surface footprints
11. Analysis of Sunken Footprint
12. Estimation of Height of a Person based on His/her Footprint by Anthropometric Measurements.

Instruction:

Course Teacher and HOD/ Coordinator/ Principal certified practical record book is mandatory for appearing semester end practical examinations

Formative and Summative examination pattern

Internal tests	10 marks
Viva –Voce	05 marks
Practical Record Book	05 marks
Experiment based questions	30 marks
Total	10+ 40 = 50 marks

Model Question Paper

B.Sc. Forensic Science and Criminology

GENERAL PATTERN OF THEORY QUESTION COURSE FOR DSC/ EC/AECC

(80 marks for semester end Examination with 3hrs duration)

Part-A

1. Question number 1-10 carries 2 marks each. Answer all of the questions : 20 marks

Part-B

2. Question number 11- 18 carries 5 Marks each. Answer any 06 questions : 30 marks

Part-C

3. Question number 19-22 carries 10 Marks each. Answer any 3 questions : 30 marks

(Questions must be covered with all the units equally)

Total: 80 Marks