



HAVERI UNIVERSITY, HAVERI

04 - Year B.A/ B.Sc. (Hons.) Program

SYLLABUS

Subject: Criminology and Forensic Science

[w.e.f 2024-25]

SEMESTER III & IV

DISCIPLINE SPECIFIC CORE COURSE (DSCC) AND OPEN

ELECTIVE COURSE (OEC)

As per N E P - 2020

Haveri University, Haveri
Four Years Under Graduate Program in Criminology and Forensic Science for
B.A /B.Sc. (Hons.)
Effective from 2024-25

Se m	Type of Course	Theory/ Practical	Instruction hour/week	Total hours of Syllabus / Sem	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks	Credits
III	DSCC- 5	Police Science and Criminal Investigation	04hrs	56	02 hrs	40	60	100	04
	DSCC- 6	Practical : Police Science	04 hrs	52	03 hrs	25	25	50	02
	OEC -3	Crime Scene Investigation	03 hrs	42	02 hrs	40	60	100	03
IV	DSCC -7	Correctional Administration	04 hrs	56	02 hrs	40	60	100	04
	DSCC -8	Practical: Correctional Institution Visits	04 hrs	52	03 hrs	25	25	50	02
	OEC 4	Child Protection Laws	03 hrs	42	02 hrs	40	60	100	03

Name of Course (Subject): Criminology and Forensic Science

Programme Specific Outcome (PSO):

On completion of the 03/ 04 years Degree in **Criminology and Forensic Science** students will be able to:

- PSO 1** : Demonstrates a systematic or coherent understanding of the fundamental concepts, principles and processes underlying the academic field of Criminology and Forensic Science.
- PSO 2** : learn its application in different subfields (law, Policing, Investigation Techniques, Investigation of Scene of Crime, Penology, Human Rights, Victimology, Criminal Psychology, Security Management and in others allied fields), and its linkages with related disciplinary areas/subjects.
- PSO 3** : procedural knowledge that creates different types of professionals in the field of Criminology and Forensic Science related fields such as teaching, research and development, private investigations, security industry, victim assistance, non-governmental organizations, juvenile justice system, correctional system, policing, and crime analyst.
- PSO 4** : skills related to specialization areas within Criminology and Forensic Science as well as within subfields of Criminology and Forensic Science (policing, investigative techniques, crime scene management, penology, victimology, criminal psychology, security management), and other related fields of study, including broader interdisciplinary subfields (forensic science, human rights, gender studies, sociology and law)
- PSO 5** : Apply appropriate methodologies in order to conduct analysis and detect patterns of crime and victimization and apply relevant knowledge and skills to seek solutions to problems that emerge from the subfields of Criminology and Forensic Science as well as from broader interdisciplinary subfields relating to Criminology and Forensic Science.
- PSO 6** : Use techniques relevant to academia and industry, generic skills and global competencies.
- PSO 7** : learn knowledge and skills that enable students to undertake further studies in the field of Criminology and Forensic Science, its related field, and work in the government and non-government sectors.
- PSO 8** : Undertake hands-on field work and practical activities that develop problem- solving abilities required for successful career in research and development.
- PSO 9** : Field work on policy-making, teaching, security management, private investigation, disaster management, non-governmental organizations, victim assistance programmes, correctional institutions, after-care programs, criminal justice administration, etc.
- PSO 10** : Recognize and appreciate the importance of Criminology and Forensic Science, its application in an academic, social, legal, industrial, economic and environmental context.

B.A / B.Sc. Semester – III

Subject: Criminology and Forensic Science Discipline Specific Course (DSC)

The course *Police Science and Criminal Investigation* in III semester has two papers (Theory Paper –I for 04 credits & Practical Paper -II for 2 credits) for 06 credits: Both the papers are compulsory. Details of the courses are as under.

Course No.: 05 (Theory)

Course No.	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
05	DSCC	Theory	04	04	56 hrs	2hrs	40	60	100

Course No. 05 : Title of the Course (Theory):- **Police Science and Criminal Investigation:**

Code: 033FSC011 for B.Sc. and 013FSC011 for B.A.

Course Outcome (CO):

After completion of course (Theory), students will be able to:

- **CO 1 :** Understand the concept and purpose of Police Science and its importance in crime prevention, investigation and maintaining social order peacefully.
- **CO 2 :** Develop the knowledge regarding the Police Administration, Enforcement of Laws of the nation, Maintaining the Law and Order.
- **CO 3 :** Understanding the various challenges faced by police in their day to day policing.
- **CO 4 :** Become aware about the different types of crime scenes, investigations and their related legal procedures.

Syllabus- Title- Police Science and Criminal Investigation	Total Hrs: 56
Unit – 1 Introduction to Police Science	14 hrs
Chapter-1 Police administration in India <ul style="list-style-type: none"> ● Role of Police in Independent India, Constitutional provisions regarding policing in India ● Role of Police in International level Chapter-2 Policing in present scenario. <ul style="list-style-type: none"> ● Introduction to various styles of Policing ● Ethics in Policing ● Technology and policing ● Shortcomings of policing ● Police recruitment, training and Police Reforms ● Policing in present scenario 	

Unit – 2 Powers, Duties and challenges of Police	14 hrs
<p>Chapter-1 Powers and duties</p> <ul style="list-style-type: none"> • Executive powers and duties of police officers in the investigation • Police accountability in India: Courts, Executive Magistrates, State Government, CAO, Citizens/ Community, Programmes for redressing Public grievances, Police Complaints Authorities <p>Chapter-2 Challenges in policing</p> <ul style="list-style-type: none"> • Internal and external challenges in policing • Police Image, Police Corruption, Police and Human Rights • Technological short comings and policing 	
Unit – 3 Criminal Investigation	14 hrs
<p>Chapter-1 Basics of Investigation</p> <ul style="list-style-type: none"> • Objectives of Criminal Investigation • Characteristics and role of Investigating officer <p>Chapter-2 Legal procedures in Investigation</p> <ul style="list-style-type: none"> • Investigation procedures in traditional, contemporary and special crimes • Case Laws on Registration of FIR, charge sheet, recording of statements, arrest, confession, summons and warrants. 	
Unit -4 Crime scene Investigation	14 hrs
<p>Chapter -1 Crime scene Management</p> <ul style="list-style-type: none"> • Responsibilities of First responding officer. • Crime Scene Protection and Preservation <p>Chapter-2 Physical Clues</p> <ul style="list-style-type: none"> • Types of physical clues and various crime scenes • Procedures in locating, handling, collecting, packing and forwarding of physical clues 	

SUGGESTED READINGS:

1. Douglas, C. (2002) The Business of Private Investigations, Texas: Thomas Investigative Publications.
2. Nabar, B.S. 2007, Forensic Science in Crime Investigation, 3rd Edition, Asia Law House, Hyderabad.
3. Nehad, A., (1992), Police and Policing in India, Common Wealth Publishers, New Delhi
4. Ramanujam T, 1992, Prevention and Detection of Crime, Madras Book Agency
5. Sharma B.R, 2007, Forensic Science in Criminal Investigation and Trials Universal Law Pub. Co. Pvt. Ltd.

JOURNAL REFERENCES

1. International journal of police science and management, SAGE
2. The Indian Police Journal
3. The Journal criminal Law, Criminology and Police Science, JSTOR ISSN-15476154

DIGITAL REFERENCES

1. https://www.researchgate.net/publication/318324772_police_science_science_of_the_police_or_science_for_the_police_-_conceptual_clarification_and_taxonomy_for_comparing_police_systems
2. <https://www.ojp.gov/pdffiles1/nij/228922.pdf>
https://www.researchgate.net/publication/340874515_Police_science_as_an_emerging_scientific_discipline.

Pedagogy: Lecture, Assignments, Interactive Sessions, ICT, Group Discussion

Formative Assessment 40 (Weightage in Marks includes: Written Tests, Activities/Assignment/Seminar/Presentation & Attendance)			
Assessment Occasion/type	C1	C2	Total Marks
Written Test (2)	10	10	20
Seminar/Presentation/Activity	10	---	10
Case work/Assignment/Field work/Project work etc	---	10	10
Total	20	20	40

B.A / B.Sc Semester – III

Subject: Criminology and Forensic Science

Discipline Specific Course (DSC)

Course No.: 06 (Practical)

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessmentt Marks	Total Marks
06	DSCC	Practical	02	04	52 hrs	3hrs	25	25	50

Course No.06: Title of the Course (Practical): **Police Science**

Code: 033FSC012 for B.Sc. and 013FSC012 for B.A.

Course Outcome (CO):

After completion of course (Practical), students will be able to:

- **CO 1:** Understand the importance of Scene of Crime
- **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:** Aware the importance of physical evidences and need for handling, packing and preservation

List of the Experiments for 52 hrs / Semesters

1. Procedure of filing complaint and FIR to the Police Station
2. Visit to Police station to study its functions
3. Demonstration of Three 'I's of Police Investigation
4. Procedure of recording Case Dairy and Final Report of simulated cases.
5. Procedure of issuing the summons and warrants of simulated cases
6. Handling, packing and forwarding of physical clues to experts (Fingerprints on articles, Blood stains on articles, hair and fibre samples, Bullets & Cartridge Cases)

General instructions:

***14 students per batch**

Scheme of Practical Examination (distribution of marks): 25 marks for Semester end examination

- 1. Plan and procedure 05 Marks**
- 2. Conducting experiment 05 Marks**
- 3. Results 05 Marks**
- 4. Viva ----- 05 Marks**
- 5. Journal ----- 05 Marks**

25 Marks for IA (Formative Assessment) Examination

Journal.....	05
IA Test.....	20
Total.....	25

References:

1. Barry, Fisher, A.J. (2003). Techniques of Crime Scene Investigation, 7th Ed, CRC Press, NY.
2. Bennett, W.W. & Karen, M. H., (2001). Criminal Investigative, 6th Ed. Worsworth Thompson Learning.
3. Nabar, B.S. (2007), Forensic Science in Crime Investigation, 3rdEdn., Asia Law House, Hyderabad
4. Peter R., Forest, D., Gaensslen, R.E. and Henry C. Lee. (1983), Forensic Science: An Introduction to Criminalistics, Mc-Graw Hill College.
5. Saferstein R. (2017) “Criminalistics: - An Introduction to Forensic Science”, Pearson.
6. Sharma. B. R. 2007. Forensic Science in Criminal Investigation and Trials, Universal Law Pub. Co. Pvt. Ltd.
7. Wertheim K, Maceo, A. (2002) The critical stage of friction ridge and pattern formation. J for Ident

B.A / B.Sc Semester – III

Subject: Criminology and Forensic Science

Course No.: 03 (OEC)

Course No.	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
03	OEC	Theory	03	03	42 hrs	2hrs	40	60	100

OEC-03: Title of the Course: **Crime Scene Investigation**

Code: 003FSC051 for both B.Sc. and B.A.

Course Outcome (CO):

After completion of course, students will be able to:

- **CO 1:** Understand the methods of securing, searching and documenting crime scenes.
- **CO 2:** Capable to do the art of collecting, packaging and preserving different types of physical and trace evidence at crime scenes.
- **CO 3:** Describe the legal importance of chain of custody.
- **CO 4:** Understand the tools and techniques for analysis of different types of crime scene evidence.

Syllabus- OEC 03: Title- Crime Scene Investigation		Total Hrs: 42
Unit-I	Crime Scene Preliminaries	14 hrs
Chapter-1 Crime Scene and its importance. <ul style="list-style-type: none">• Meaning and Types of crime scenes• Indoor and outdoor Mobile• Primary secondary and tertiary. Chapter-2 Securing and isolating the crime scene. <ul style="list-style-type: none">• Crime scene search methods.• Safety measures at crime scenes.• Legal considerations at crime scenes.		
Unit-II	Crime Scene Documentation	14 hrs
Chapter-3 Crime Scene Documentation and its importance <ul style="list-style-type: none">• Types of documentation of crime scenes• Photography.• Videography,• Sketching and• Recording notes. Chapter-4 Duties of first responders at crime scenes. <ul style="list-style-type: none">• Coordination between police personnel and forensic scientists at crime scenes.• The evaluation of 5Ws (who?, what?, when?, where?, why?) and 1H (how?)		

Unit-III Crime Scene Evidence Management	14 hrs
Chapter-5 Classification of crime scene evidence <ul style="list-style-type: none"> • Locard's principle and Importance. • Physical evidence and • Trace evidence. Chapter- 6 Collection, labeling, sealing of evidence. <ul style="list-style-type: none"> • Hazardous evidence. • Preservation of evidence. • Chain of custody. 	

SUGGESTED READINGS:

1. Byrd, M., 2001. Crime Scene Evidence: A Guide to the Recovery and Collection of Physical Evidence, CRC Press, Boca Raton.
2. Gardener, T.J. and Anderson, T.M., 2001. Criminal Evidence, 4th Ed., Wadsworth, Belmont.
3. James, S.H. and Nordby, J.J., 2005. Forensic Science: An Introduction to Scientific and Investigative Techniques, 2nd Edition, CRC Press, Boca Raton.
4. Nabar, B.S. 2007, Forensic Science in Crime Investigation, 3rd Edition, Asia Law House, Hyderabad.
5. Tilstone, W.J., Hastrup M.L. and Hald, Fisher's, C., 2013. Techniques of Crime Scene Investigation, CRC Press, Boca Raton.

Pedagogy: Lecture, Assignments, Interactive Sessions, ICT, Group Discussion

Formative Assessment 40 (Weightage in Marks includes: Written Tests, Activities/Assignment/Seminar/Presentation & Attendance)			
Assessment Occasion/type	C1	C2	Total Marks
Written Test (2)	10	10	20
Seminar/Presentation/Activity	10	---	10
Case work/Assignment/Field work/Project work etc	---	10	10
Total	20	20	40

04 - Year UG Honors programme: 2022-23

**GENERAL PATTERN OF THEORY QUESTION PAPER FOR DSCC/ OEC
(60 marks for semester end Examination with 2 hrs duration)**

Part-A

1. Question number 1-06 carries 2 marks each. Answer any 05 questions : 10marks

Part-B

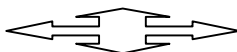
2. Question number 07- 11 carries 05Marks each. Answer any 04 questions: 20 marks

Part-C

3. Question number 12-15 carries 10 Marks each. Answer any 03 questions : 30 marks
(Minimum 1 question from each unit and 10 marks question may have sub Questions for 7+3 or 6+4 or 5+5 if necessary)

Total: 60 Marks

Note: Proportionate weightage shall be given to each unit based on number of hours prescribed.



B.A / B.Sc. Semester – IV

Subject: Criminology and Forensic Science
Discipline Specific Course (DSC)

The course *Correctional Administration* in IV semester has two papers (Theory Paper –I for 04 credits & Practical paper-II for 2 credits) for 06 credits: Both the papers are compulsory. Details of the courses are as under.

Course no.: 07 (Theory)

Course No.	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
07	DSCC	Theory	04	04	56 hrs	2hrs	40	60	100

Course No.07: Title of the Course (Theory): **Correctional Administration**
Code: 034FSC011 for B.Sc. and 014FSC011 for B.A.

Course Outcome (CO):

After completion of course (Theory), students will be able to:

- **CO 1:** Understand about the meaning, concept and scope of penology and Correctional Administration.
- **CO 2:** Explain the theories and types of punishments in the past and present in India and abroad.
- **CO 3:** Describing the prison as institution of correction, its types and the legal provisions
- **CO 4:** Understanding the concepts of non-institutional treatments of prisoners.

Syllabus- (Theory): Title- Correctional Administration	Total Hrs: 56
Unit-I Introduction to Correctional Administration	14 hrs
Chapter-1 Penology and correctional administration <ul style="list-style-type: none"> • Penology – Definition, nature and scope • Correction – Definition, nature and scope • Types of punishment. • Similarities and Differences between punishment and correction Chapter-2 Theories of Punishment <ul style="list-style-type: none"> • Deterrence theory • Retributive theory • Preventive theory • Reformation theory 	

Unit-II Prison system	14 hrs
<p>Chapter-1 Prison and prison organization</p> <ul style="list-style-type: none"> • Historical development of prison system. • Objectives of Imprisonment • Types of prisons and correctional institutions in India. • Modernization of Prisons in India; Reformation & Rehabilitation approach in Prisons. <p>Chapter-2 Prison reforms in India</p> <ul style="list-style-type: none"> • History and evolution of prison legislations in India. • Recommendation of different committees on reformation system. • Prison act and prison manual. 	
Unit-III Institutionalized treatment	14 hrs
<p>Chapter-1 Corrections through Institutionalized treatment</p> <ul style="list-style-type: none"> • Meaning and purpose • Types of institutions: Adult, women and children • Facilities provided in institutions • Remission, temporary release and premature release <p>Chapter-2 Legal provisions of prisoners</p> <ul style="list-style-type: none"> • Legal Rights of prisoners • Constitutional provisions of prisoners • Nelson Mandela rules for the treatment of prisoners 	
Unit-IV Non Institutionalized treatment for prisoners	14 hrs
<p>Chapter -1 Community based corrections</p> <ul style="list-style-type: none"> • Probation: Concept, history and scope • Parole: Concept, history and scope • After care services • Restitution and fine <p>Chapter-2 Miscellaneous</p> <ul style="list-style-type: none"> • Standard minimum rules for non-custodial measures (Tokyo rules) • Role of NGOs in reformation and rehabilitation 	

RECOMMENDED READINGS:

1. Bhattacharya S.K., (1986). Probation system in India, Manas Publications, New Delhi.
2. Brodie, S.R., (1976). Effectiveness of sentencing, Home office, London.
3. Edelston, C.D. & Wicks, R.I. (1977), An Introduction to Criminal Justice, McGraw Hill.
4. Mathur, K. M. (1994), Indian Police, Role and Challenges, Gyan Publishing House, NewDelhi.
5. Paranjepe, N.V., (2002). Criminology and Penology, Central Law Publications, Allahabad.

JOURNAL REFERENCES

1. The Prison Journal-SAGE
2. International Journal of Prisoner Health
3. Journal Of Correctional Health Care

DIGITAL REFERENCES

1. <http://kamarajcollege.ac.in/Department/Criminology/II%20Year/003%20Core%205%20-%20Penology%20&%20Correctional%20Administration%20-%20III%20Sem.pdf>.
2. <https://www.scribd.com/document/408782187/Notes-on-Correctional-Administration-2017>.
3. https://www.academia.edu/34249101/Notes_on_Correctional_Administration.
4. <https://bprd.nic.in/WriteReadData/userfiles/file/5261991522-Part%20I.pdf>.

Pedagogy: Lecture, Assignments, Interactive Sessions, ICT, Group Discussion

Formative Assessment 40 (Weightage in Marks includes: Written Tests, Activities/Assignment/Seminar/Presentation &Attendance)			
Assessment Occasion/type	C1	C2	Total Marks
Written Test (2)	10	10	20
Seminar/Presentation/ Activity	10	---	10
Case work/Assignment/Field work/Project work etc	---	10	10
Total	20	20	40

B.A / B.Sc Semester – IV
Subject: Criminology and Forensic Science
Discipline Specific Course (DSC)
Course No. 08: (Practical)

Course No.	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
08	DSCC	Practical	02	04	52 hrs	3hrs	25	25	50

Course No.08: Title of the Course (Practical): **Correctional Institution Visits**
Code: 033FSC012 for B.Sc. and 013FSC012 for B.A.

Course Outcome (CO):

After completion of course (Practical), 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 for 52 hrs / Semesters

1. Visit and study the overview of Prison as a correctional institution
2. Visit and study the reformatory measures, training and rehabilitation process of prisoners.
3. To visit and study various facilities provided in Prisons
4. To visit and study the non-institutional treatment programmes
5. To visit and study the functions and powers of JJB and CWC
6. To study the powers of Court in sanctioning Probation along with some case studies of probation
7. To visit and study the aftercare services and other NGOs working towards reformation, rehabilitation and re-socialization of inmates.

General instructions:

***14 students per batch**

Scheme of Practical Examination (distribution of marks): 25 marks for Semester end examination

- 1. Plan and procedure 05 Marks**
- 2. Conducting experiment 05 Marks**
- 3. Results 05 Marks**
- 4. Viva ----- 05 Marks**
- 5. Journal ----- 05 Marks**

25 Marks for IA (Formative Assessment) Examination

Journal.....	05
IA Test.....	20
Total.....	25

Books recommended.

1. Bachman, R. D. (2017). Fundamentals of Research in Criminology and Criminal Justice, SAGE Publications, Inc
2. Chaturvedi, J. C. (2006). Penology and Correctional Administration, Isha Books
3. Seiter, R. (2016). Correctional Administration: Integrating Theory and Practice, Pearson; 3rd edition

B.A / B.Sc. Semester – IV

Subject: Criminology and Forensic Science

Course No. 04: Open Elective Course

Course No.	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
04	OEC	Theory	03	03	42 hrs	2hrs	40	60	100

OEC-04: Title of the Course: **Child Protection Laws**

Code: 004FSC051 for both B.Sc. and B.A.

Course Outcome (CO):

After completion of course, students will be able to:

- **CO 1:** Understand the legal and constitutional definition of child and issues and problems of their development stage.
- **CO 2:** Describe the role of various social institutions in the child protection and its importance.
- **CO 3:** Understanding the powers and functions of Juvenile Justice Board and Child Welfare Committees mentioned under Juvenile Justice Board.
- **CO 4:** Explain the crime against children and related laws and guidelines.

Syllabus-OEC 04: Title- Child Protection Laws	Total Hrs:42
Unit-I Introduction	14 hrs
Chapter-1 Child: Meaning and Definition <ul style="list-style-type: none">• Legal and constitutional definitions of child• Developmental stages of childhood• Theories in child development Chapter-2 Factors determining Well Being and Development of Children <ul style="list-style-type: none">• Adult-child relationships• Protection, care and support• Factors affecting development and well-being of children Chapter-3 Child Protection <ul style="list-style-type: none">• Meaning, definition, nature and scope	

<ul style="list-style-type: none"> • Role of family, school, society, NGOS and government in child protection. <p>Chapter-4 : Legislations, Policies and Programmes</p> <ul style="list-style-type: none"> • Constitutional provisions for children • UNCRC, other relevant conventions and • National policies in child protection 	
Unit-II Juvenile Justice System	14 hrs
<p>Chapter-5 Juvenile Justice Act</p> <ul style="list-style-type: none"> • Salient features of JJ Act • Procedures while dealing with children in conflict with law • Procedures while dealing with children in need care and protection <p>Chapter-6 Commissions for Protection Of Child Rights Act 2005</p> <ul style="list-style-type: none"> • Role, functions and powers of national commission and state commissions in protection of child rights • Salient features of integrated child protection scheme 	
Unit-III Crimes against children	14 hrs
<p>Chapter -7 Crimes against children</p> <ul style="list-style-type: none"> • Crimes against children in family, schools and public places • Child labour ad street offences • Child trafficking, prostitution and pornography etc. <p>Chapter-8 Special Laws for Crimes Against Children</p> <ul style="list-style-type: none"> • Prohibition of child marriage act • Protection of children from sexual offences • Child labour (prohibition and prevention) act • United Nations Standard Minimum Rules for Juvenile Justice (Beijing rules) • UN Riyadh Guidelines etc. 	

SUGGESTED READINGS:

1. Bakshi, I. (1999) Understanding Children and their Problems, Mumbai: Vakils, Feffer and Simons Ltd. Empson, J. M.,
2. Chandru, K., Geetha, R. & Thanikachalam, C. (1998) Child Law in India, Chennai: Indian Council for Child Welfare.
3. Chaudhary, N. (2004) Listening to Culture: Constructing Reality from Everyday Talk, New Delhi: Sage.
4. Holt, J. (1974) Escape from Childhood, Bhopal: Eklavya - Institute for Educational Research and Innovative Action with permission from Hold Associates, Boston
5. Joachim, T. (2004) Promoting Rights Based Approaches: Experiences and Ideas from Asia and the Pacific, Sweden: Save the Children

6. Nabuzoka D. (2003) A typical Child Development in Context, New York: Palgrave Macmillan Butler, I. and Roberts, G. (2004) Social Work with Children and Families: Getting into Practice, Second Edition, London: Jessica Kingsley Publishers.
7. Verhellen, E. (2006) Convention on the Rights of the Child, London: Garant Publishers.

JOURNAL REFERENCES

1. Child abuse and neglect-Elsevier
2. Child welfare journal-CWLA
3. Child mal treatment-SAGE
4. International journal on child mal treatment-Springer

DIGITAL REFERENCES

1. <https://legalstudymaterial.com/child-protection-law-policy/>
2. <https://www.unicef.org/media/63086/file/UNICEF-Teaching-and-learning-about-child-rights.pdf>
3. <https://www.routledge.com/Childrens-Rights-and-the-Law-An-Introduction/Barnett/p/book/9781138321250>
4. <https://www.open.edu/openlearncreate/mod/oucontent/view.php?id=53771&printable=1>

Details of Formative assessment (IA) for DSCC theory/OEC: 40% weightage for total marks

Type of Assessment	Weight age	Duration	Commencement
Written test-1	10%	1 hr	8 th Week
Written test-2	10%	1 hr	12 th Week
Seminar	10%	10 minutes	--
Case study / Assignment / Field work / Project work/ Activity	10%	-----	--
Total	40% of the maximum marks allotted for the paper		

**04 - Year UG Honors programme: 2024-25
GENERAL PATTERN OF THEORY QUESTION PAPER FOR DSCC/ OEC
(60 marks for semester end Examination with 2 hrs duration)**

Part-A

1. Question number 1-06 carries 2 marks each. Answer any 05 questions : 10marks

Part-B

2. Question number 07- 11 carries 05Marks each. Answer any 04 questions : 20 marks

Part-C

3. Question number 12-15 carries 10 Marks each. Answer any 03 questions : 30 marks

(Minimum 1 question from each unit and 10 marks question may have sub questions for 7+3 or 6+4 or 5+5 if necessary)

Total: 60 Marks

Note: Proportionate weightage shall be given to each unit based on number of hours prescribed.



HAVERI UNIVERSITY, HAVERI

BA/B.Sc. in Criminology and Forensic Science

SYLLABUS

With Effect from 2024-25

**DISCIPLINE SPECIFIC CORE COURSE (DSCC) FOR SEM V & VI,
SKILL ENHANCEMENT COURSE (SEC) FOR SEM V SEM**

AS PER N E P - 2020

Haveri University, Haveri
B.A / B.Sc. in Criminology and Forensic Science
 Effective from 2024-25

Sem.	Type of Course	Theory/ Practical	Course Code	CourseTitle	Instructi onhour/ week	Total hours / sem	Duration of Exam	Marks			Credits
								Formative	Summative	Total	
V	DSCC-9	Theory	B.A : 015FSC011 B.Sc. : 035FSC011	Medical Jurisprudence and Toxicology	04hrs	56	02 hrs	40	60	100	04
	DSCC-10	Practical	B.A : 015FSC012 B.Sc. : 035FSC012	Medico-legal Examination	04 hrs	52	03 hrs	25	25	50	02
	DSCC-11	Theory	B.A : 015FSC013 B.Sc. : 035FSC013	Digital Forensics and Cybercrime	04hrs	56	02 hrs	40	60	100	04
	DSCC-12	Practical	B.A : 015FSC014 B.Sc. : 035FSC014	Digital Forensics Examination	04 hrs	52	03 hrs	25	25	50	02
	SEC	Practical	B.A : 015FSC061 B.Sc. : 035FSC061	Techniques and Ethics in Interrogation	02 hrs	30	03 hrs	25	25	50	02
VI	DSCC-13	Theory	B.A : 016FSC011 B.Sc. : 036FSC011	Forensic Dactyloscopy and DNA Fingerprinting	04hrs	56	02 hrs	40	60	100	04
	DSCC-14	Practical	B.A : 016FSC012 B.Sc. : 036FSC012	Examination of Fingerprints and Footprints	04 hrs	52	03 hrs	25	25	50	02
	DSCC-15	Theory	B.A : 016FSC013 B.Sc. : 036FSC013	Corporate Crimes	04hrs	56	02 hrs	40	60	100	04
	DSCC-16	Practical	B.A : 016FSC014 B.Sc. : 036FSC014	Examination of Frauds and Corporate Crimes	04 hrs	52	03 hrs	25	25	50	02
	Internship-1		B.A : 016FSC091 B.Sc. : 036FSC091	Internship	02 hrs	30		50	0	50	02

B.A / B.Sc. Semester – V

Discipline Specific Course (DSC)-9

Course Title: MEDICAL JURISPRUDENCE AND TOXICOLOGY (THEORY)

Course Code:- B.A : 015FSC011

B.Sc. : 035FSC011

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
DSCC-9	Theory	04	04	56 hrs.	2hrs.	40	60	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	Title:	56.hrs/sem
Unit I	<p>MEDICAL JURISPRUDENCE AND TOXICOLOGY</p> <p>CHAPTER- 1 INTRODUCTION TO JURISPRUDENCE</p> <ul style="list-style-type: none"> • Meaning and definition. • 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. • Infamous conduct, Professional secrecy and privileged communications, Medical Ethics and prohibition of Torture & care of Torture Victims. • Consent – Its relevance in Medical Practice & medical record maintenance. <p>CHAPTER- 2 MEDICAL JURISPRUDENCE</p> <ul style="list-style-type: none"> • Medical Negligence and contributory negligence, Precautionary measures and defenses for Medical Practitioners against legal actions, Medical/Doctors indemnity insurance, Consumer Protection Act relevant to medical practice. • Euthanasia – Current views and dilemmas, Different codes of Medical Ethics and Ethics in Research. • Common medico-legal problems in Hospital practice, Medico-legal, ethical & social problems in relation to AIDS. 	14 hours
Unit II	<p>INTRODUCTION TO FORENSIC MEDICINE</p> <p>CHAPTER- 3 MEANING OF FORENSIC MEDICINE</p> <ul style="list-style-type: none"> • Definition, Scope relevant Forensic Medicine. • History of Forensic Medicine. • Need, Scope, Importance and probative value of medical evidence in Crime investigation. 	14 hours

	<p>CHAPTER- 4 THANATOLOGY</p> <ul style="list-style-type: none"> • 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. 	
Unit III	<p>FORENSIC TOXICOLOGY</p> <p>Chapter- 5 INTRODUCTION TO TOXICOLOGY</p> <ul style="list-style-type: none"> • Introduction to Toxicology • Epidemiology of poisoning • General consideration and Laws in relation to poisons / Narcotic drugs and Psychotropic substances Act, • Duties and Responsibilities of attending Physician. • Basics of Environmental and Industrial Toxicology in relation to Health & Ecology; • 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. <p>Chapter- 6 CORROSIVE & IRRITANT POISONS:</p> <ul style="list-style-type: none"> • 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, Calotropiss, Semicarpus, Ergot. • Organic Animal Irritants – Snake Bite, Scorpion & other common insect bites diagnosis and Management; Medicolegal Aspects • Mechanical Irritants- diagnosis and treatment & Medicolegal Aspects 	14 hours
Unit IV	<p>MAJOR POISONS</p> <p>CHAPTER -7 NEUROTOXIC</p> <ul style="list-style-type: none"> • Inebriates- Ethyl Alcohol, Methyl Alcohol • Somniferous and Sedative Hypnotics – Opium and Derivatives, Barbiturates • Deliriant- Dhathura, Cannabis, Cocaine. • Insecticides/ Pesticides/ Agrochemical- Organo-phosphorus Compounds. Organo-chlorides, Carbamates Pyrethriods, Aluminium phosphide. • Spinal Poisons- Strychnine • Peripheral Poisons- Curare <p>CHAPTER -8 ASPHYXIANTS AND OTHER POISONS</p> <ul style="list-style-type: none"> • Asphyxiants (gases)- Carbon monoxide, Carbon Dioxide, Cyanogens and Cyanides • Cardiac poisons- Oleanders, Aconite, Tobacco • Other poisons: Domestic/ Household Poisons- Kerosene, Detergents, Disinfectants, Cosmetics, Rodenticide mothballs etc. . Therapeutic Drug Toxicity/ poisoning by Medicines- Salicylates, Paracetamol, Newer derivatives of sedatives Food Poisoning- Bacterial, Viral, Mushrooms, Chemical etc. iv. Drugs of dependence and Drug Abuse. 	14 hours

References:

1. Andrew R.W.Jackson, Julie M Jackson, 2011, “ Forensic Science”, Pearson Education Limited.
2. B.S.Nabar , 2001, forensic science in Crime Investigation”, Asia law House.
3. J C Upshaw Downs, Anjali Ranadive, Swienton , 2002, “Ethics in Forensic Science, AcademicPress Publications.
4. Jay A Siegel, Kathey Mirakovits, 2013, “Forensic Science: The Basics”, CRC press.
5. Jim Fraser, Robin Williams, 2013,”Hand book of Forensic Science”, Routlge publications.
6. Max.M.Houck, Jay A Siegal,2010, “Fundamentals of Forensic Science” Academic Press.

Formative Assessment for Theory	
Assessment Occasion/ type	Marks
Internal Assessment Test 1	10
Internal Assessment Test 2	10
Quiz/ Assignment/ Small Project	10
Seminar	10
Total	40 Marks
<i>Formative Assessment as per guidelines.</i>	

B.A / B.Sc. Semester – V

Discipline Specific Course (DSC)-10

Course Title: MEDICO-LEGAL EXAMINATION (PRACTICAL)

Course Code: B.A : 015FSC012

B.Sc. : 035FSC012

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
DSCC-10	Practical	02	04	52 hrs.	3hrs.	25	25	50

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

CO1: To demonstrate a clear understanding of the legal procedures and protocols involved in medico-legal examinations.

CO2: To be capable of properly collecting, documenting, and preserving physical evidence in accordance with legal standards.

CO3: To accurately assess and document injuries sustained by individuals, whether they are victims of accidents, assaults, or other incidents.

CO4: To be prepared to provide expert testimony in court if required.

Expt. No,	Title:	56.hrs/sem
Unit-I	INTRODUCTION TO MEDICO-LEGAL EXAMINATION 1. Medico-legal Aspects of Homicidal, Suicidal and Accidental. 2. Examination of human skeleton. 3. Identification of Sex and Age through Bone remains. 4. Examination of different wounds and Injuries.	(28 Hrs)
Unit-II	EXAMINATION OF HAIR AND FIBER 5. Examination of hair. 6. Morphology of hair. 7. Examination and Comparison of Natural and Synthetic fibers.	(28 Hrs)

Instruction to the Examiners

1. Conduct experiments.
2. Applying forensic techniques.
3. Introduction and overview.
4. Legal framework and Ethics.
5. Evidence collection and Preservation.
6. Assessment and Documentation.

Formative Assessment for Practical	
Assessment	Distribution of Marks
Record	05
Plan, Procedure & Conduction	05
Results & Discussion	05
Applying Forensic Techniques	05
Viva	05
Total	25 Marks
<i>Formative Assessment as per guidelines.</i>	

The same shall be used for semester end Examination

B.A / B.Sc. Semester – V

Discipline Specific Course (DSC)-11

Course Title: DIGITAL FORENSICS AND CYBERCRIME (THEORY)

Course Code: B.A : 015FSC013

B.Sc. : 035FSC013

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
DSCC-11	Theory	04	04	56 hrs.	2hrs.	40	60	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	Title:	56.hrs/sem
Unit I	INTRODUCTION TO DIGITAL FORENSICS CHAPTER- 1 BASICS OF COMPUTER <ul style="list-style-type: none">Basic Computer Knowledge, types of computers, components of computer, input and output devices, operating system types.Computer memory - Volatile and Non-Volatile memory, types of storage media – Hard Drive, SSD, Optical Devices. CHAPTER- 2 BASICS OF DIGITAL FORENSICS <ul style="list-style-type: none">Introduction and Principles of Digital Forensics, Good Forensic Practices, Daubert's Standards.Collection of Evidence - Single System, Networked System and Remote System. Search and Seizure of Volatile and Non-volatile Digital Evidence, Imaging and Hashing of Digital Evidences.Introduction to Deleted File Recovery, Steganography and Steganalysis, Data Recovery Tools and Procedures.Importance of Log Analysis in Forensic Analysis.Validating Forensic Data, Addressing Data-Hiding Techniques, Performing Remote Acquisition, data carving.	14 hours

<p>Unit II</p>	<p>INTRODUCTION TO CYBERCRIMES CHAPTER – 3 DEFINING CYBERSPACE AND CYBERCRIMES</p> <ul style="list-style-type: none"> • Cyberspace: - Concept of Cyberspace, Emergence of Cyberspace, Nature & Meaning of Cyberspace, Attributes of Cyberspace. • Definition and Origin; Distinction between Cyber Crime and Conventional Crime • Information Technology - its meaning and importance in the daily life of people in modern societies. <p>CHAPTER- 4 TYPES OF CYBERCRIMES</p> <ul style="list-style-type: none"> • Crimes targeting Computers: Unauthorized Access, Packet Sniffing, Malicious Codes including Trojans, Viruses, Logic Bombs, Password Sniffing, Denial-of-service (DOS) attack, Backdoors and Malwares and its types, E-mail Bombing, Salami Attack, Software Piracy, Industrial Espionage, Intruder attacks. • Cybercrimes against Individuals – E-mail spoofing and online frauds, Phishing and its forms, Spamming, Cyber-defamation, Cyberstalking, Cyber Bullying and harassment, Computer Sabotage, Pornographic offenses, Key loggers and Screen loggers. • Phases of cyber-attack – Reconnaissance, Passive Attacks, Active Attacks, Scanning, Gaining Access, Maintaining Access, Lateral movement and Covering Tracks. • Different types of tools used in cybercrime. 	<p>14 hours</p>
<p>Unit III</p>	<p>CYBER RELATED LAWS AND ENFORCEMENT AGENCIES CHAPTER – 5 REGULATORY FRAMEWORK OF INFORMATION AND TECHNOLOGY ACT</p> <ul style="list-style-type: none"> • 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.s • Regulation of Certifying Authorities, Appointment and Powers and Functions of Controller, Cyber Appellate Tribunal. <p>CHAPTER- 6 INVESTIGATION OF CYBER CRIMES</p> <ul style="list-style-type: none"> • Investigation of malicious applications Agencies for investigation in India, their powers and their constitution as per Indian Laws Procedures. • Procedure for Search and seizure of digital evidences in cyber-crime incident. Forensics Investigation Process - Pre-search consideration, Acquisition, Duplication& Preservation of evidences, Examination and Analysis of evidences, Storing of Evidences, Documentation and Reporting, Maintaining the Chain of Custody. • Data Acquisition of live system, Shutdown Systems and Remote systems, servers. E-mail Investigations, Password Cracking. 	<p>14 hours</p>

Unit IV	<p>CYBER SECURITY</p> <p>CHAPTER -7 INTRODUCTION TO CYBER SECURITY</p> <ul style="list-style-type: none"> • Evolution and Impact of Internet, Internet Services, Concept of World Wide Web, History of World Wide Web, Purpose of Web, Functioning & Mechanism of Web. • Introduction to Cyber Security. Confidentiality, Integrity and Availability – Triad. • Attacks: Threats, Vulnerabilities and Risk. Risk Management, Risk Assessment and Analysis. Information Classification, Policies, Standards, Procedure and Guidelines. • Controls: Physical, Logical and Administrative; Security Frameworks, Defence in-depth: Layers of Security. <p>CHAPTER- 8 NETWORK ARCHITECTURE & SECURITY</p> <ul style="list-style-type: none"> • Network Scanning, Eaves dropping techniques and counter measures. Network security including firewalls. Networks and vulnerabilities, networking software - Client side and server side, secure network infrastructure, security protocol layers, create usage policy, conduct risk analysis, security violation and restoration. • Network security zone, encapsulation of network services, allocation of traffic control functions. 	14 hours
----------------	---	---------------------

References:

1. Aaron Philipp, David Cowen, Chris Davis; Hacking Exposed Computer Forensics Second Edition, McGraw Hill, USA, 2010.
2. Bill Nelson, Amelia Phillips and Christopher Steuart; “Guide to Computer Forensics and Investigations” – 3rd Edition, Cengage, 2010 BBS.
3. Cory Altheide and Halan Carvey; “Digital Forensics with Open Source Tools”, Syngress Publication.
4. Harish Chander; “Cyber Laws and IT Protection”, PHI Learning Pvt. Ltd, 2012.
5. LNJNI National Institute of Criminology and Forensic Science, “A Forensic Guide for Crime Investigators – Standard Operating Procedures”, LNJNI NICFS, 2016.
6. Matt Bishop, “Computer Security Art and Science”, Pearson/PHI, 2002.
7. Michael E Whiteman and Herbert J Mattord; “Principles of Information Security”, Vikas Publishing House, New Delhi, 2003.
8. Nina Godbole and Sunit Belapore; “Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives”, Wiley Publications, 2011.
9. Sherri Davidoff and Jonathan Ham; “Network Forensics – Tracking Hackers through Cyberspace”, Pearson Publications, 2012.
10. Vakul Sharma; “Information Technology: Law and Practice”, Universal Law Publishing Co., India, 2011.

Formative Assessment for Theory	
Assessment Occasion/ type	Marks
Internal Assessment Test 1	10
Internal Assessment Test 2	10
Quiz/ Assignment/ Small Project	10
Seminar	10
Total	40 Marks
<i>Formative Assessment as per guidelines.</i>	

B.A / B.Sc. Semester – V
Discipline Specific Course (DSC)-12

Course Title: DIGITAL FORENSIC EXAMINATION (PRACTICAL)

Course Code: B.A : 015FSC014

B.Sc. : 035FSC014

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
DSCC-12	Practical	02	04	52 hrs.	3hrs.	25	25	50

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

CO1: To demonstrate the ability to effectively collect, preserve, and document digital evidence from various sources such as computers, mobile devices, and network logs.

CO 2: To exhibit proficiency in conducting thorough forensic analysis of digital evidence.

CO 3: To understand the legal and ethical considerations that pertain to digital forensics investigations.

CO 4: To develop strong report writing and communication skills.

Expt. No.	Title:	56.hrs/sem
Unit-I	INTRODUCTION TO DIGITAL FORENSIC EXAMINATION 1. Encrypting and decrypting the partition using Bit locker. 2. Analyzing hidden files and folders including slack space for evidence. 3. Understanding Network Devices: Modem, Router, Switch, Hub, Repeater. 4. Email and IP Tracking Techniques.	(28Hrs)
Unit-II	EXAMINATION DIGITAL DATA SOURCES 5. Understanding Data Packet Sniffers. 6. Open-Source Forensic Tools. 7. Disk Forensics and Data Recovery.	(28Hrs)

Instruction to the Examiners

1. Conduct experiments.
2. Applying forensic techniques.
3. Introduction and overview.
4. Legal framework and Ethics.
5. Evidence collection and Preservation.
6. Assessment and Documentation.

Formative Assessment for Practical	
Assessment	Distribution of Marks
Record	05
Plan, Procedure & Conduction	05
Results & Discussion	05
Applying Forensic Techniques	05
Viva	05
Total	25 Marks
<i>Formative Assessment as per guidelines.</i>	

The same shall be used for semester end Examination

B.A / B.Sc. Semester – V

Skill Enhancement Course: SEC-3

Course Title: TECHNIQUES AND ETHICS IN INTERROGATION.

Course Code: B.A : 015FSC061

B.Sc. : 035FSC061

Type of Course	Theory / Practical	Credits	Instruction hour/ week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
SEC-3	Practical	02	02	30 hrs.	3hrs.	25	25	50

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

CO 1: To understand the Preparation, Techniques, Ethics and Observation involved in the interrogation process within the field of Criminology and Forensic Science

CO 2: Understand the importance of effective interrogation in criminal investigation.

CO 3: Learning various interrogative techniques and their applications.

CO 4: Develop skills to ethically conduct interrogations and handle sensitive situations.

CO 5: Gain Proficiency in observing and analyzing verbal and non-verbal cues during interrogation.

Expt. No	Title:	56.hrs/sem
UNIT-I	INTRODUCTION TO INTERROGATION 1. Importance and Historical overview of Interrogation in Criminal Investigation. 2. Developing Pre-Interrogation Strategy. 3. Direct Questioning and Types of Interviewing. 4. Rapport Building, Active Listening, Empathy and Understanding in Interrogation.	28 hours
UNIT-II	OBSERVATIONAL SKILLS AND ETHICAL CONSIDERATIONS IN INTERROGATION 1. Human Rights and Interrogation. 2. False Confessions and Cultural Sensitivity in Interrogation. 3. Verbal and Non-Verbal clues, Microexpressions. 4. Body Language, Detecting Deception and Truthfulness.	28 hours

References:

1. Inbau, F.E., Reid, J.E., Buckley, J.P., & Jayne, B.C.(2013). * Criminal Interrogation and Confessions*. Jones & Bartlett Learning.
2. Godwin, G.M. (2018). * Criminal Psychology and Forensic Technology: A Collaborative Approach to Effective Profiling*. CPC Press.
3. Gordaon, N.J., & Fliesher, W.L.(2013). Effective Interviewing and Interrogation Techniques*. Academic Press.
4. Knapp,M.L., & Hall, J.A. (2010). *Non-verbal Communication in Human Interaction*. Wadsworth.
5. Leo, R.A.(2008). *Police Interrogation and American Justice*. Harvard University Press.
6. Oxburgh, G., Myklebust, T., Grant, T., & Milene,R.(2016). Investigative Interviewing: The Conversation Management Approach*. Wiley.
7. Turvey, B.E., & Crowder, S. (2019). *Ethical Justice: Applied Issues for Criminal Justice Students and Professionals*. Academic Press.

Instruction to the Examiners

1. Conduct experiments.
2. Applying Forensic Techniques.
3. Introduction and Overview.
4. Legal framework and Ethics.
5. Evidence collection and Preservation.
6. Assessment and Documentation.

Formative Assessment for Practical	
Assessment	Distribution of Marks
Record	05
Plan, Procedure & Conduction	05
Results & Discussion	05
Applying Forensic Techniques	05
Viva	05
Total	25 Marks
<i>Formative Assessment as per guidelines.</i>	

The same shall be used for semester end Examination

**B.A / B.Sc. in Criminology and
Forensic Science
VI Semester**

W. e. f.: 2024-25

B.A / B.Sc. Semester – VI

Discipline Specific Course (DSC)-13

Course Title: FORENSIC DACTYLOSCOPY AND DNA FINGERPRINTING (THEORY)

Course Code: B.A : 016FSC011

B.Sc. : 036FSC011

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
DSCC-13	Theory	04	04	56 hrs.	2hrs.	40	60	100

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

CO 1: Understanding the concept of Forensic Dactyloscopy and DNA and its significance.

CO 2: Familiarizing the fundamental principles and Laws of Individuality.

CO 3: To gain insights of crimes, scams and their investigation in Indian context.

CO 4: To understand the forensic importance of Forensic Dactyloscopy and DNA in CJS.

Unit	Title:	56.hrs/sem
UNIT I	<p>INTRODUCTION TO DACTYLOSCOPY</p> <p>CHAPTER -1 MEANING OF DACTYLOSCOPY</p> <ul style="list-style-type: none"> • Meaning and Scope; Print Science, Importance of Print Science. • Morphology of Fingerprints and Footprints. • Basic Features and Principles of Fingerprints. • Historical Development of Print Science. • Organization of State and Central Fingerprint Bureaus, Embryo genesis. • Dermatological formation and Diseases influence on the damages of fingerprints, Biometric uniqueness, and Finger prints as Evidence. <p>CHAPTER -2 CLASSIFICATION OF FINGER PRINTS PATTERNS</p> <ul style="list-style-type: none"> • Meaning and importance of classification of finger print patterns. • Explaining various types of classification of Finger prints; • Henry classification and its examination' • Secondary Classification System. • Sub- Secondary Classification System. • Secondary Sub- Secondary Classification System. • Key Classification • Final Classification and Single digit Classification System • Fingerprint Patterns: Fingerprint Peculiarities/Minutiae and Characteristic. <p>CHAPTER -3 SIGNIFICANCE OF PALM PRINTS</p> <ul style="list-style-type: none"> • Significance of palm prints, Ridges and characteristics, Ridge counting, Minutiae, Poroscopy and Edgeoscopy, 	14 hours

	<ul style="list-style-type: none"> • Characteristics of pores – size, position and latent print formation of pores. 	
Unit II	<p>DEVELOPMENT OF FINGER PRINTS.</p> <p>CHAPTER- 4 DEVELOPMENT OF FINGER PRINTS</p> <ul style="list-style-type: none"> • Types of Chance Prints at Scene of Crime • Development of Latent Finger Prints. <p>CHAPTER-5 PHYSICAL METHODS FOR LATENT FINGERPRINT DEVELOPMENT</p> <ul style="list-style-type: none"> • Powder Methods: Regular: - Black powder and white powder. Metallic: Aluminum powder and Magnetic black powder. Fluorescent: Greenescent and Pinkescent fluorescent powders. • Iodine Fuming Method. <p>CHAPTER-6 CHEMICAL AND PHOTOGRAPHY METHODS FOR FINGERPRINT DEVELOPMENT</p> <ul style="list-style-type: none"> • Gentian Violet, Cyanoacrylate and Silver Nitrate Method. • Ninhydrin Method etc. • Developing of Latent Prints and Visible prints by Slanting Photograph. <p>CHAPTER-7 BIOMETRIC, DIGITAL IMAGING AND GREEN METHODS</p> <ul style="list-style-type: none"> • Forensic application of Biometrics, Biometric Impression on Scanner/Live Scans. • Application of digital imaging process in Fingerprint science. • AFIS application in Police and Finger Print Bureau, Application of light sources infingerprint detection. 	14 hours
Unit III	<p>FOOTPRINTS</p> <p>CHAPTER- 8 DEVELOPMENT OF FOOT PRINTS</p> <ul style="list-style-type: none"> • Meaning, Types, Importance • Tracing of surface foot prints • Casting and lifting of surface and sub-sunken footprints. • Gait pattern analysis • Determination of Sex, Height, Age of a person 	14 hours
Unit IV	<p>DNA Finger Prints</p> <p>CHAPTER -9 MEANING AND IMPORTANCE OF DNA FINGER PRINTS</p> <ul style="list-style-type: none"> • Meaning of DNA Finger Prints and Scopes • Importance of DNA finger Prints • Legal procedure for conducting DNA finger Prints • Different type's cases conduct DNA Finger Prints. <p>CHAPTER – 10 LEGAL PROVISIONS OF DNA FINGER PRINTS.</p> <ul style="list-style-type: none"> • Source of DNA: Blood, Saliva, Hair, Skin Tissues and Nail etc. 	14 hours

References:

1. Andrew R.W.Jackson, Julie M Jackson, 2011, “ Forensic Science”, Pearson Education Limited.
2. B.S.Nabar , 2001, forensic science in Crime Investigation”, Asia law House.
3. J C Upshaw Downs, Anjali Ranadive, Swienton , 2002, “Ethics in Forensic Science, Academic Press Publications.
4. Jay A Siegel, KatheyMirakovits, 2013, “ Forensic Science: The Basics”, CRC press.
5. Jim Fraser, Robin Williams, 2013,”Hand book of Forensic Science”, Routldge publications.
6. Max.M.Houck, Jay A Siegal,2010, “Fundamentals of Forensic Science” Academic Press.

Formative Assessment for Theory	
Assessment Occasion/ type	Marks
Internal Assessment Test 1	10
Internal Assessment Test 2	10
Quiz/ Assignment/ Small Project	10
Seminar	10
Total	40 Marks
<i>Formative Assessment as per guidelines.</i>	

B.A / B.Sc. Semester – VI

Discipline Specific Course (DSC)-14

Course Title: EXAMINATION OF FINGERPRINTS AND FOOTPRINTS(PRACTICAL)

Course Code: B.A : 016FSC012

B.Sc. : 036FSC012

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
DSCC-14	Practical	02	04	52 hrs.	3hrs.	25	25	50

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

CO1: To demonstrate the ability to properly identify and classify different types of Fingerprints and footprints.

CO2: To learn and apply appropriate techniques for collecting and preserving Fingerprint and Footprint evidence.

CO3: To develop the skills to compare and analyze Fingerprint and Footprint patterns.

CO4: To understand the role of Forensic experts in legal proceedings and be able to effectively communicate their findings and conclusions.

Expt. No,	Title:	56.hrs/sem
Unit-I	Examination of Fingerprints 1. Recording of fingerprints – Pattern analysis. 2. Identification of Ridge Characteristics. 3. Ridge tracing & ridge counting, Comparison of fingerprints 4. Developing latent fingerprints – Physical methods & Chemical Methods	(28 Hrs)
Unit-II	EXAMINATION OF FOOTPRINTS 5. Recording of foot prints. 6. Identification of Gait patterns 7. Tracing of surface footprints 8. Casting method of Sunken footprints	(28 Hrs)

Instruction to the Examiners

1. Conduct experiments.
2. Applying forensic techniques.
3. Introduction and Overview.
4. Legal framework and Ethics.
5. Evidence collection and Preservation.
6. Assessment and Documentation.

Formative Assessment for Practical	
Assessment	Distribution of Marks
Record	05
Plan, Procedure & Conduction	05
Results & Discussion	05
Applying Forensic Techniques	05
Viva	05
Total	25 Marks
<i>Formative Assessment as per guidelines.</i>	

The same shall be used for semester end Examination

B.A / B.Sc. Semester – VI

Discipline Specific Course (DSC)-15

Course Title: CORPORATE CRIMES (THEORY)

Course Code: B.A : 016FSC013

B.Sc. : 036FSC013

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
DSCC-15	Theory	04	04	56 hrs.	2hrs.	40	60	100

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

CO1: Understand the definition, nature, role of Corporate Crimes.

CO2: Explain the basic elements and major scope, types of Corporate Crimes.

CO3: Understanding the various types of corporate crimes occurred in India.

CO4: To know the existing Laws and Preventive measures towards Corporate Crimes in India.

Unit	Title:	56.hrs/sem
Unit I	INTRODUCTION CORPORATE CRIMES CHAPTER-1 NATURE OF CORPORATE CRIME <ul style="list-style-type: none"> • Meaning and Definition of Corporate Crimes. • Various Types of Corporate Crimes • Famous Cases of Corporate Crimes. CHAPTER- 2 FORMS OF CORPORATE CRIMES <ul style="list-style-type: none"> • Bankruptcy related Frauds • Exploiting assets and scams • Mortgage Frauds • Share Sale Frauds 	14 hours
Unit II	CORPORATE FRAUDS CHAPTER- 3 VARIOUS KINDS OF CORPORATE FRAUDS IN INDIA. <ul style="list-style-type: none"> • Meaning & Definition of Fraud • Types of Fraud: - Individual & Corporate • Characteristics of Fraud • Trends of Scams: National & Global Perspective. CHAPTER- 4 FRAUD IN BANKING SECTOR <ul style="list-style-type: none"> • Definition & Scope of Fraud in Banking Sector • Banking Impersonation. CHAPTER- 5 TYPES OF FRAUDS <ul style="list-style-type: none"> • Fraud against Accounts. • Fraud against Card (Debit/Credit) • Electronic Fraud and Miscellaneous Fraud 	14 hours

Unit III	INTRODUCTION TO INSURANCE FRAUDS CHAPTER- 6 MEANING OF INSURANCE FRAUDS <ul style="list-style-type: none"> • Definition, Nature and Scope of Insurance. • Losses due to Insurance Frauds. CHAPTER- 7 TYPES OF INSURANCE FRAUD <ul style="list-style-type: none"> • Property Insurance • Motor Vehicle Insurance • Health Insurance • Role of Investigation in Insurance Frauds 	14 hours
Unit IV	PREVENTION OF CORPORATE CRIMES CHAPTER- 8 MEASURES IN PREVENTING CORPORATE CRIMES IN INDIA. <ul style="list-style-type: none"> • Laws, Regulation and Supervision. • Corporate Governance. CHAPTER-9 PRIVATE SECTOR IN INDIA <ul style="list-style-type: none"> • Governance of Private Sectors in India. • Laws, Regulation and Supervision • Suspicious transaction reporting 	14 hours

References:

1. Anabui, Farad and Kakabadase, Andrew, 2004, Corporate sabotage, Jaico Publishing House.
2. Blum Richard H, 1972, Deleivers and Deceived, Charles, C. Thomas Publishers.
3. Bologna, Jack, 1984, Corporate Fraud, Butterworth Publishers.
4. Celia Wells, "Corporations and Criminal Responsibility".
5. Essential Commodities Act, 1955, 2005, Universal Law Publishing Co. Pvt. Ltd.
6. Ghosh Murrain, 1979, Black money – The case for India, Subarna Rekha, Calcutta.
7. Green Timothy, 1977, The Smuggling Business, Aldus Books, London. Internationally, Kogan Pagr Ltd.
8. Lal Bhure, 2003, Money Laundering: An insight into the dark world of Financial Frauds, Siddharth Publications.
9. Nabhi's Income Tax Guidelines and Mini Ready Reeckoner, 2009, Anabhi Publication Bare Acts.
10. PitchandiNand Sivamurthy A, 1985, Insurance Frauds, the Indian Socieity of Criminology, Department of Psychology, Madras.

Formative Assessment for Theory	
Assessment Occasion/ type	Marks
Internal Assessment Test 1	10
Internal Assessment Test 2	10
Quiz/ Assignment/ Small Project	10
Seminar	10
Total	40 Marks
<i>Formative Assessment as per guidelines.</i>	

B.A / B.Sc. Semester – VI

Discipline Specific Course (DSC)-16

Course Title: EXAMINATION OF FRAUDS AND CORPORATE CRIMES (PRACTICAL)

Course Code: B.A : 016FSC014

B.Sc. : 036FSC014

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
DSCC-16	Practical	02	04	52 hrs.	3hrs.	25	25	50

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

CO 1: Course Outcome: To identify various types of fraudulent activities and corporate crimes, including financial fraud, embezzlement, insider trading, and money laundering.

CO2: To gain proficiency in utilizing forensic examination techniques to gather and analyze evidence related to fraud and corporate crimes.

CO3: To develop an understanding of the legal and ethical implications surrounding fraud and corporate crimes.

CO4: To learn to conduct risk assessments to identify vulnerabilities that could lead to fraudulent activities.

CO5: To enhance their communication skills by preparing concise and accurate reports based on their findings from the examination of fraud and corporate crimes.

Expt. No,	Title:	56.hrs/sem
Unit-I	ANALYSIS OF CORPORATE CRIMES 1. To analysis the popular Indian Corporate Crimes. 2.Examination and Identification of the Forged Documents, Viz., a. EPIC (Voter card), Affidavits and other Government Documents, PAN card, Aadhar card, Marks cards frauds. b. Counterfeit of Notes and Coins. 3.Examination of Forged Signature	(28 Hrs)
Unit-II	EXAMINATION OF BANK AND IT FRAUDS 1. To analyze the Check Books, Debits cards and Credit cards Frauds. 2. Evaluate and study of preventive measures towards Frauds in local and national banks (Plastic Cards, E-transactions, Gold and other ornaments). 3. Examination of peculiar Characteristics of Different Documents like: Income Tax Returns, Insurance Bonds, Bond Agreements, Wills, E-certificates and E-documents.	(28 Hrs)

Instruction to the Examiners

1. Conduct experiments.
2. Applying forensic techniques.
3. Introduction and Overview.
4. Legal framework and Ethics.
5. Evidence collection and Preservation.
6. Assessment and Documentation.

Formative Assessment for Practical	
Assessment	Distribution of Marks
Record	05
Plan, Procedure & Condition	05
Results & Discussion	05
Applying Forensic Techniques	05
Viva	05
Total	25 Marks
<i>Formative Assessment as per guidelines.</i>	

The same shall be used for semester end Examination

B.A / B.Sc. Semester – VI INTERNSHIP

Course Title: INTERNSHIP

Course Code: B.A : 016FSC091

B.Sc. : 036FSC091

Type of Course	Theory / Practical	Credits	Instruction hour/ week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative assessment Marks	Total Marks
INTERNSHIP	Practical	02	02	30 hours		50		50

Internship:

A course requiring students to participate in a professional activity or work experience, or cooperative education activity with an entity external to the education institution, normally under the supervision of an expert of the given external entity. A key aspect of the internship is induction into actual work situations for 2 credits. Internships involve working with local governments, GOs, NGOs, Cos, Health Sector, Women & Child (such as panchayats, municipalities) or private organizations, business organizations, artists, crafts persons, and similar entities to provide opportunities for students to actively engage in on-site experiential learning.

Note;

1. 1 credit internship is equal to 30hrs on field experience.
2. Internship shall be Discipline Specific of 45-60 hours (2 credits) with duration 2 weeks (15 days.)
3. Internship may be full-time (full-time during last 2 weeks (15 days) before closure of the semester). College shall decide the suitable method for programme wise but not subject wise.
4. Internship mentor/supervisor shall avail work allotment during 6th semester for a maximum of 20 hours.
5. The student should submit the final internship report to the mentor for completion of the internship. (Report submission after every 5 days (3 Reports))
6. Method of evaluation: Presentations/Report submission/Activity/Viva-Voce etc.
7. Based on the requirement of the program, the students are expected to work in Institutions like Forensic Labs, B.P.R & D., Police Stations, Women and Children Welfare Departments, Police Training Centers, NGOs or Institutions allied with Criminal Justice System (Subject to approval from the concerned Institutions) as a part of the Internship Course.
8. The students are expected to work in affiliation with these Institutions and document their experiences and learning outcome weekly to the Department.
9. Submission of an Internship Report is mandatory towards the end of the Semester.

Formative Assessment

Marks Duration

Report Submission	-	10
Assessment / Methodology	-	10
Presentation	-	10
Viva	-	20
Total	-	50

UG programme: 2023-24

GENERAL PATTERN OF THEORY QUESTION COURSE FOR DSCC/ OEC

(60 marks for semester end Examination with 2 hrs duration)

Part-A

1. Question number 1-06 carries 2 marks each. Answer any 05 questions : 10 marks

Part-B

2. Question number 07- 11 carries 05Marks each. Answer any 04 questions : 20 marks

Part-C

3. Question number 12-15 carries 10 Marks each. Answer any 03 questions : 30 marks
(Minimum 1 question from each unit and 10 marks question may have sub questions for 7+3 or 6+4 or 5+5 if necessary)

Total: 60 Marks

Note: Proportionate weight age shall be given to each unit based on number of hours Prescribed