

## B.Sc. Forensic Science - Course Structure

### Choice Based Credit System

Basket	Basket Category	Minimum Credits to be acquired
I	Ability Enhancement Compulsory Courses	4
II	Skill Enhancement Courses	4
III	Core Courses	84
IV	Generic Elective Courses	24
V	Discipline Specific Courses	24
	<b>Total Credits</b>	<b>140</b>

### CORE COURSES

Sr. No.	Code	Course Title	Type of course	Credit	Prerequisite
1.	CUTM1659	Basics of Forensic Science	Theory + Practice	4+2+0 ( 06)	Nil
2.	CUTM1660	Crime and Society	Theory + Practice	4+2+0 ( 06)	Nil
3.	CUTM1661	Criminal Law	Theory + Practice	4+2+0 ( 06)	Nil
4.	CUTM1662	Forensic Psychology	Theory + Practice	4+2+0 ( 06)	Nil
5.	CUTM1663	Forensic Dermatoglyphics	Theory + Practice	4+2+0 ( 06)	Nil
6.	CUTM1664	Technological Methods in Forensic Science	Theory + Practice	4+2+0 ( 06)	Nil
7.	CUTM1665	Criminalistics	Theory + Practice	4+2+0 ( 06)	Nil
8.	CUTM1666	Forensic Chemistry	Theory + Practice	4+2+0 ( 06)	Nil
9.	CUTM1667	Questioned Documents	Theory + Practice	4+2+0 ( 06)	Nil
10.	CUTM1668	Forensic Biology	Theory + Practice	4+2+0 ( 06)	Nil
11.	CUTM1669	Forensics Ballistics	Theory + Practice	4+2+0 ( 06)	Nil
12.	CUTM1670	Forensic Toxicology	Theory + Practice	4+2+0 ( 06)	Nil
13.	CUTM1671	Forensic Anthropology	Theory + Practice	4+2+0 ( 06)	Nil
14.	CUTM1672	Forensic Medicine	Theory + Practice	4+2+0 ( 06)	Nil

### ABILITY ENHANCEMENT COURSE

Code	Course Title	Type of Course	Credit	Prerequisite
CUTM1673	English	Theory	2-0-0 (02)	Nil
CUTM1010	Environmental Science	Tutorial	0-0-2 (02)	Nil

### ABILITY ENHANCEMENT ELECTIVE (SKILL BASED) COURSE

Sl.No	Code	Course Title	Type of Course	Credit	Prerequisite
1.	CUTM1675	Introduction to Biometry	Practice	0-2-0 (02)	Nil
2.	CUTM1676	Handwriting Identification and Recognition	Practice	0-2-0 (02)	Nil

### DISCIPLINE SPECIFIC ELECTIVE (DSE COURSES)

Sl.No	Code	Course Title	Type of Course	Credit	Prerequisite
1.	CUFS2410	Digital Forensics	Theory + Practice	4+2+0 (06)	Computer as one of the subject in 10+2
2.	CUFS24111	Economic Offences	Theory + Practice	4+2+0 (06)	Nil
3.	CUFS24112	Forensic Serology	Theory + Practice	4+2+0 (06)	Biology as one of the subject in 10+2
4.	CUFS24113	Accident Investigations	Theory + Practice	4+2+0 (06)	Nil
5.	CUFS24114	DNA Forensics	Theory + Practice	4+2+0 (06)	Biology as one of the subject in 10+2
6.	CUFS24115	Audio Recognition and Video Analysis	Theory + Practice	4+2+0 (06)	Knowledge about basic concepts of physics is required
7.	CUFS24116	Explosive Analysis and Post Blast Investigation	Theory + Practice	4+2+0 (06)	Student should have knowledge regarding basic concepts of chemistry
8.	CUFS24117	Quality control and Quality Assurance	Theory + Practice	4+2+0 (06)	Student should have knowledge regarding basic concepts of chemistry

## **GENERIC ELECTIVE (GE)**

**Subjects From other Disciplines ( One each in Semester I, II, III, IV )**

<b>Code</b>	<b>Course Title</b>	<b>Type of Course</b>	<b>Credit</b>	<b>Prerequisite</b>
		Theory + Practice	4+2+0 ( 06)	Nil

**One each in semester 1, 2, 3 and 4, to be chosen from the following:**

<b>1.</b>	<b>Chemistry</b>
<b>2.</b>	<b>Physics</b>
<b>3.</b>	<b>Zoology</b>
<b>4.</b>	<b>Botany</b>

## SEMESTER WISE SUBJECT DISTRIBUTION

### SEMESTER-I

Sl. No.	CourseCode	Course	Type of Course	T-P-Pj (credit)
1	CUTM1659	Basics of Forensic Science	Theory + Practice	4-2-0 ( 06)
2	CUTM1660	Crime and Society	Theory + Practice	4-2-0 ( 06)
3		Generic Elective	Theory + Practice	4-2-0 ( 06)
4		Ability Enhancement Compulsory Course	Theory	2-0-0 (02)
TOTAL CREDITS				20

### SEMESTER-II

Sl. No.	Course Code	Course	Type of Course	T-P-Pj (credit)
1	CUTM1661	Criminal Law	Theory + Practice	4-2-0 ( 06)
2	CUTM1662	Forensic Psychology	Theory + Practice	4-2-0 ( 06)
3		Generic Elective	Theory + Practice	4-2-0 ( 06)
4		Ability Enhancement Compulsory Course	Theory	2-0-0 (02)
TOTAL CREDITS				20

### SEMESTER- III

Sl. No.	CourseCode	Cou rse	Type of Course	T-P-Pj (credit)
1	CUTM1663	Forensic Dermatoglyphics	Theory + Practice	4-2-0 ( 06)
2	CUTM1664	Technological Methods in Forensic Science	Theory + Practice	4-2-0 ( 06)
3	CUTM1665	Criminalistics	Theory + Practice	4-2-0 ( 06)
4		Generic Elective	Theory + Practice	4-2-0 ( 06)
5		Ability Enhancement Elective ( Skill Based)course	Practice	0-2-0 (02)
TOTAL CREDITS				26

**SEMESTER-IV**

<b>Sl. No.</b>	<b>Course Code</b>	<b>Course</b>	<b>Type of Course</b>	<b>T-P-Pj (credit)</b>
1	CUTM1666	Forensic Chemistry	Theory + Practice	4-2-0 ( 06)
2	CUTM1667	Questioned Documents	Theory + Practice	4-2-0 ( 06)
3	CUTM1668	Forensic Biology	Theory + Practice	4-2-0 ( 06)
4		Generic Elective	Theory + Practice	4-2-0 ( 06)
5		Ability Enhancement Elective ( Skill Based) course	Practice	0-2-0 (02)
<b>TOTAL CREDITS</b>				26

**SEMESTER-V**

<b>Sl. No.</b>	<b>CourseCode</b>	<b>Cou rse</b>	<b>Type of Course</b>	<b>T-P-Pj (credit)</b>
1	CUTM1669	Forensics Ballistics	Theory + Practice	4-2-0 ( 06)
2	CUTM1670	Forensic Toxicology	Theory + Practice	4-2-0 ( 06)
3		Discipline Specific Elective	Theory + Practice	4-2-0 ( 06)
4		Discipline Specific Elective	Theory + Practice	4-2-0 ( 06)
<b>TOTAL CREDITS</b>				24

**SEMESTER-VI**

<b>Sl. No.</b>	<b>Course Code</b>	<b>Course</b>	<b>Type of Course</b>	<b>T-P-Pj (credit)</b>
1	CUTM1671	Forensic Anthropology	Theory + Practice	4-2-0 ( 06)
2	CUTM1672	Forensic Medicine	Theory + Practice	4-2-0 ( 06)
3		Discipline Specific Elective	Theory + Practice	4-2-0 ( 06)
4		Discipline Specific Elective	Theory + Practice	4-2-0 ( 06)
<b>TOTAL CREDITS</b>				24

## M.Sc. Cyber Security & Digital Forensics

### Course Structure

Semester I				
Code	Course	Course Type (Lecture-Tutorial- Practice)	Credit	Prerequisite
CUTM1618	Principles of Information Security	4-0-0	4	NIL
CUTM1619	Digital Forensics	4-0-2	6	NIL
CUTM1620	Computer Networks	4-0-2	6	NIL
CUTM1621	Cyber Crime & Investigations	4-0-0	4	NIL
CUTM1622	Intellectual Property Rights	4-0-0	4	NIL
	<b>Total Credits</b>		<b>24</b>	NIL

Semester II				
Code	Course	Course Type (Lecture-Tutorial- Practice)	Credit	Prerequisite
CUTM1623	Number theory & Cryptography	4-0-0	4	NIL
CUTM1624	Advanced Information Security	4-0-0	4	NIL
CUTM1625	Cyber Forensics	4-0-2	6	NIL
CUTM1626	System and Network Security	4-0-2	6	NIL
CUTM1627	Cyber Law	4-0-0	4	NIL
	<b>Total Credits</b>		<b>24</b>	NIL

Semester III				
Code	Course	Course Type (Lecture- Tutorial-Practice)	Credit	Prerequisite
CUTM1628	Mobile Security Analysis	4-0-2	6	NIL
CUTM1629	IT Governance, Risk and Compliance	4-0-0	4	NIL
CUTM1630	Business Continuity Planning (BCP) And Disaster Recovery (Dr)	4-0-0	4	NIL
CUTM1631	Penetration Testing & Vulnerability Assessment	4-0-2	6	NIL

CUTM1632	Digital Frauds	4-0-0	4	NIL
	<b>Total Credits</b>		<b>24</b>	NIL

Semester IV				
Code	Course	Course Type (Lecture-Tutorial- Practice)	Credit	Prerequisite
CUTM1633	Project/Dissertation	Project	24	NIL

Total credit: 96

## M.Sc. FORENSIC SCIENCE

### COURSE STRUCTURE

#### SEMESTER I

S I N o .	Subject Code	Name of Subject	Credit Theory + Practice + Project
	CUTM1634	Introduction to Forensics, Psychology Law and Statistics	4+0+0
	CUTM1635	Instrumental techniques	4+2+0
	CUTM1636	Crime Scene Management and Forensic Physics	4+2+0
	CUTM1637	Fingerprints and Questioned Documents	4+2+0
	CUTM1638	Business Communication	0+2+0
		<b>Total</b>	<b>24</b>

#### SEMESTER II

Sl No	Subject Code	Name of subject	Credit Theory + Practice + Project
1.	CUTM1639	Quality Management, Narcotic Drugs, Explosives, and Forensic Chemistry .	4+2+0
2.	CUTM1640	Forensic Biology and Forensic Medicine	4+2+0
3.	CUTM1641	Forensic Serology and DNA Profiling	4+2+0
4.	CUTM1642	Forensic Toxicology and Pharmacology	4+2+0
5.	CUTM1643	Forensic Ballistics and Computer Forensics	4+2+0
		<b>Total</b>	<b>30</b>

SEMESTER III : Student can select any one of the following specializations and have to undertake courses of that specialization.

#### SPECIALIZATION IN FORENSIC CHEMISTRY AND TOXICOLOGY

Sr. no.	Subject Code	Name of Subject	Credit Theory + Practice + Project
1.	CUTM1647	Pharmacology and Pharmaceutical Drug Analysis	4+2+0
2.	CUTM1648	Concepts of Toxicology	4+2+0



3.	CUTM1649	Modern and Applied Analytical Forensic Chemistry	4+2+0
4.	CUTM1656	Assignment	0+6+0
5.	CUTM1657	Seminar	0+6+0
		Total	30

#### **SPECIALIZATION IN FORENSIC BIOLOGY**

<b>Sr. no.</b>	<b>Subject Code</b>	<b>Name of Subject</b>	<b>Credit Theory + Practice + Project</b>
1.	CUTM1644	Molecular Biology and Genetics	4+2+0
2.	CUTM1645	Biotechnology in Pharmaceutical Sciences	4+2+0
3.	CUTM1646	Environmental Biotechnology	4+2+0
4.	CUTM1656	Assignment	0+6+0
5.	CUTM1657	Seminar	0+6+0
		Total	30

#### **SPECIALIZATION IN FORENSIC PHYSICS**

<b>Sr. no.</b>	<b>Subject Code</b>	<b>Name of Subject</b>	<b>Credit Theory + Practice + Project</b>
1.	CUTM1650	Advances in Physical Techniques	4+2+0
2.	CUTM1651	Concepts of Conventional and Modern Ballistics	4+2+0
3.	CUTM1652	Audio Recognition and Video Analysis	4+2+0
4.	CUTM1656	Assignment	0+6+0
5.	CUTM1657	Seminar	0+6+0
		Total	30

#### **SPECIALIZATION IN FINGERPRINTS AND QUESTIONED DOCUMENT**

<b>Sr. no.</b>	<b>Subject Code</b>	<b>Name of Subject</b>	<b>Credit Theory + Practice + Project</b>
1.	CUTM1653	Modern Trends in Fingerprint Sciences	4+2+0
2.	CUTM1654	Questioned Document and Forensic Accounting	4+2+0
3.	CUTM1655	Forensic Photography and Biometric Traits	4+2+0
4.	CUTM1656	Assignment	0+6+0
5.	CUTM1657	Seminar	0+6+0
		Total	30

SEMESTER IV

<b>Sr. no.</b>	<b>Subject Code</b>	<b>Name of Subject</b>	<b>Credit Theory + Practice + Project</b>
1.	CUTM1658	Project	0+0+12

Total credits for M. Sc Forensic science - 96

