



TECHNO INDIA UNIVERSITY

W E S T B E N G A L

**Course Structure of 4 years B.Sc. (H) Program
Forensic Science**



Department of Chemistry

**Techno India University, West Bengal
EM-4, EM Block, Sector V, Bidhannagar,
Kolkata -700091, West Bengal**



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W E S T B E N G A L

Curriculum: 4-Year B.Sc. (H) In Forensic Science (Following NEP 2020 Framework)

SEMESTER I

Course Code	Course Type	Course Title	Contact Hrs./Week (L-T-P)	Credit
TIU-UFS-MJ-T11101	Major 1	Introduction to Forensic Science	3-1-0	4
TIU-UCH-MI-T11101	Minor 1	Chemistry-I	3-0-0	3
TIU-UCH-MD-T11101	MDC 1	Chemistry in Daily Life	2-1-0	3
TIU-UEN-AEC-S1101	AEC 1	Communicative English – I	2-0-0	2
TIU-UES-CVA-T1101	CVA / VAC 1	Environmental Science	2-0-0	2
TIU-UFS-MJ-L11101	Major Lab 1	Crime Scene & Evidence Handling Lab	0-0-4	2
TIU-UCH-MI-L11101	Minor 1 Lab	Chemistry-I Lab	0-0-2	1
TIU-UFS-SEC-T1101	SEC 1	Laboratory Practices and Safety Rules	2-1-0	3
Total				20



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SEMESTER II

Course Code	Course Type	Course Title	Contact Hrs./Week (L-T-P)	Credit
TIU-UFS-MJ-T12101	Major 3	Crime Scene Investigation, Management and Reconstruction	3-1-0	4
TIU-UPH-MI-T12101	Minor 2	Physics-I	3-0-0	3
TIU-UPS-MD-T12101	MDC 2	Introduction to Psychology	2-1-0	3
TIU-UEN-AEC-S1201	AEC 2	Communicative English – II	2-0-0	2
TIU-UFS-CVA-T1201	CVA /VAC 2	Artificial Intelligence (AI)	2-0-0	2
TIU-UFS-MJ-L12101	Major 1 Lab	Narcotics and Drug Analysis	0-0-4	2
TIU-UFS-MI-L12101	Minor 2 Lab	Physics-I Lab	0-0-2	1
TIU-UFS-SEC-T1201	SEC 2	Digital Literacy for Forensic Applications	2-1-0	3
Total				20



SEMESTER III

Course Code	Course Type	Course Title	Contact Hrs./Week (L-T-P)	Credit
TIU-UFS-MJ-T21201	Major 3	Finger Print Examination & Questioned Document	3-1-0	4
TIU-UCS-MI-T21101	Minor 3	Forensic Biology	3-0-0	3
TIU-UEN-AEC-T2101	AEC 3	Heritage of Modern Indian Languages (Bengali/Hindi/Sanskrit etc.)	2-0-0	2
TIU-UCR-MD-T22101	MDC 3	Sociology & Criminology	2-1-0	3
TIU-UFS-SEC-T2101	SEC 3	Forensic Photography & Videography	2-1-0	3
TIU-UFS-MJ-L21101	Major 3 Lab	Fingerprint & Document Examination Lab	0-0-4	2
TIU-UFS-MI-L12101	Minor 3 Lab	Biological Evidence Analysis Lab	0-0-2	1
TIU-UFS-SEC-L2101	SEC 3 Lab	Forensic Photography & Videography Lab	0-0-4	2
			Total	20



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SEMESTER IV

Course Code	Course Type	Course Title	Contact Hrs./Week (L-T-P)	Credit
TIU-UFS-MJ-T22101	Major 4	Forensic Ballistics & Explosives	3-1-0	4
TIU-UFS-MJ-T22102	Major 5	Forensic Anthropology	3-1-0	4
TIU-UCH-MI-T22101	Minor 4	Statistical Methods	3-1-0	4
TIU-UES-CVA-T2201	CVA / VAC 3	Gender Studies and Human rights	2-0-0	2
TIU-UEN-AEC-S2291A/B	AEC 4	Modern Indian Language Hind / Bengali	2-0-0	2
TIU-UFS-MJ-L22101	Major 4 Lab	Forensic Ballistics Lab	0-0-4	2
TIU-UFS-MJ-L22102	Major 5 Lab	Forensic Anthropology Lab	0-0-4	2
Total				20



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SEMESTER V

Course Code	Course Type	Course Title	Contact Hrs./Week (L-T-P)	Credit
TIU-UFS-MJ-T31101	Major 6	DNA Fingerprinting & Serology	3-1-0	4
TIU-UFS-MJ-T31102	Major 7	Forensic Medicine & Pathology	3-1-0	4
TIU-UCH-MI-T31203	Minor 5	Basics of Biochemistry	3-0-1	4
TIU-UFS-MJ-L31101	Major 6 Lab	DNA & Serology Lab	0-0-4	2
TIU-UFS-MJ-L31102	Major 7 Lab	Forensic pathology lab	0-0-4	2
TIU-UFS-INT-S3101	Internship	Field Training in Forensic Laboratory (4-6 Weeks)	0-0-8	4
Total				20



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SEMESTER VI

Course Code	Course Type	Course Title	Contact Hrs./Week (L-T-P)	Credit
TIU-UFS-MJ-T32101	Major 8	Advanced Instrumental Techniques	3-1-0	4
TIU-UFS-MJ-T32102	Major 9	Forensic Psychology & Criminal Profiling	3-1-0	4
TIU-UFS-MJ-T32103	Major 10	Wildlife & Environmental Forensics	3-1-0	4
TIU-UFS-MI-T32101	Minor 6	Data Analytics for Investigation	3-0-1	4
TIU-UFS-MJ-L32101	Major 8 Lab	Instrumentation Lab	0-0-4	2
TIU-UFS-MJ-L32102	Major 9 Lab	Forensic Psychology & Criminal Profiling Lab	0-0-4	2
			Total	20



SEMESTER VII

Course Code	Course Type	Course Title	Contact Hrs./Week (L-T-P)	Credit
TIU-UFS-MJ-T41101	Major 11	Digital Forensics	3-1-0	4
TIU-UFS-MJ-T41102	Major 12	Forensic Accounting and Corporate Fraud Investigation	3-1-0	4
TIU-UFS-MI-T41101	Minor 7	Police Science and Law Enforcement	3-1-0	4
TIU-UFS-MJ-L41101	Major 11 Lab	Digital Forensics Lab	0-0-4	2
TIU-UFS-MJ-L41102	Major 12 Lab	Research and Case Analysis Lab	0-0-4	2
TIU-UFS-SEC-P4101	Project	Research Project (Phase I: Literature Review & Methodology)	0-0-8	4
			Total	20



SEMESTER VIII (with research)

Course Code	Course Type	Course Title	Contact Hrs./Week (L-T-P)	Credit
TIU-UFS-MJ-T42101	Major 13	Forensic Genomics and Proteomics	3-1-0	4
TIU-UFS-MJ-T42103	Major 14	Expert Testimony & Courtroom Procedures	3-1-0	4
TIU-UFS-MI-T42102	Minor 8	Intellectual Property Rights (IPR) and Research Ethics	3-1-0	4
TIU-UFS-RPJ-S4201	Research Project	Research Project (Phase II: Execution, Thesis & Viva Voce)	0-0-16	8
Total				20



SEMESTER VIII (without research)

Course Code	Course Type	Course Title	Contact Hrs./Week (L-T-P)	Credit
TIU-UFS-MJ-T42101	Major 13	Forensic Genomics and Proteomics	3-1-0	4
TIU-UFS-MJ-T42103	Major 14	Expert Testimony & Courtroom Procedures	3-1-0	4
TIU-UFS-MI-T42102	Minor 8	Intellectual Property Rights (IPR) and Research Ethics	3-1-0	4
TIU-UFS-MI-T42302	Minor 9	Biometrics	3-1-0	4
TIU-UFS-MJ-L42101	Major 13 Lab	Forensic Genomics and Proteomics Lab	0-0-4	2
TIU-UFS-MJ-L42103	Major 14 Lab	Mock Court & Case Study Analysis Lab	0-0-4	2
Total				20