



COURSE CURRICULUM

Course Title: FORENSIC BIOLOGY & SEROLOGY - PRACTICAL

Course Code: FSIC 705

Credit Units: 4

Course Level: PG

Course Objectives: This course will cover:

- The practical aspects of forensic biology, anthropology, and serology
- To collect, pack and analyse biological, anthropological, & serological evidences
- To document chain of custody, write laboratory reports pertaining to the examinations conduct presumptive and confirmatory tests for evidence

Pre-requisites: Basic knowledge of biology.

Course Contents/Syllabus:

	Weightage (%)
Module I :	
Descriptors/Topics Introduction to the preliminary and confirmatory tests for identification of blood and biological fluids, determination of human species, other techniques for species identification.	25
Module II :	
Descriptors/Topics Introduction to craniometry and osteometry, identification through somatometry & somatoscopy, identification through long bones and skulls.	25

Student Learning Outcomes: On completion of this course:

- The students will be able to **analyze** biological, anthropological, & serological evidences.
- The students will be able to **demonstrate** chain of custody.
- The students will be able to **analyze** laboratory reports.

Pedagogy for Course Delivery:

L	T	P/S	SW/F W	TOTAL CREDIT UNITS
2	0	4	0	4

The course will be taught in active-learning mode to apply principles and laboratory procedures of forensic biology. Lecture and Practical classes will be performed along with regular independent experimental sessions.

Lab/ Practicals details, if applicable: NA

List of Experiments:

List of Experiments:	Weightage (%)
Presumptive and Confirmatory tests for blood Examination and Identification body fluids Microscopic Examination of Hair for the determination of species Gel Immuno Diffusion tests for species origin Blood grouping from dried stains by Absorption Inhibition or Absorption Elution Cranimetry & Osteometry Somatometry & Somatoscopy Stature estimation from bones Age Estimation from Skull, Mandible, Long bones Sexing from Barr Bodies	50

Assessment/ Examination Scheme:

Theory L/T (%)	Lab/Practical/Studio (%)	Total (%)
50	50	100

Theory Assessment (L&T):

Continuous Assessment/Internal Assessment				End Term Examination
Components (Drop down)	A	H	CT	
Weightage (%)	5	10	15	70

Lab/ Practical/ Studio Assessment:

Components (Drop down)	Continuous Assessment/Internal Assessment		End Term Examination		
	Practical (Conduction Through Out the Semester)	Attachment	Record File	Viva	Practical Exam
Weightage (%)	25	5	10	25	35