

University of Management & Technology

School of Science Department of Life Science

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BT-302 Fundamentals of Forensic Science				
Lecture Schedule	Wednesday (08:00 AM -09:15 PM) Saturday (08:00 AM - 09:15 PM)	Semester	Spring 2021	
Pre-requisite		Credit Hours	3	
Instructor	Mr. Rana Muhammad Mateen	Contact	Muhammad.mateen@umt.ed u.pk	
Office	2S-45	Office Hours	ffice Hours See office window	
Course Description	Forensic science is the application all the sciences for the support of justice system. It provides important clues regarding investigation of the cases. It not only provides scientific basis for solving a crime but also helps judiciary system for making decisions. This course will cover basic domains of the forensic science and its role in solving criminal cases. Many concepts regarding crime scene investigation, forensic fingerprint analysis, question documents, firearm analysis, forensic DNA, forensic serology and many other related will be discussed with reference to identification of the crime scene evidence and their impact on justice system.			
Expected Outcomes	 Upon completion of this in-depth course on bioenergetics and metabolism, students should have mastered the concepts, and skills and can be able to: Scientific basis of criminal investigation. Process of evidence collection, processing, identification and presentation in the court. Extrapolate how important forensic science is in solving criminal cases. 			
Textbook(s)	 Saferstein, R. (2014). Criminalistics: An introduction to forensic science. Butler, J. M. (2009). Fundamentals of forensic DNA typing. Academic press. 			
Grading Policy	AssignmentPresentation/ProjectMid-term exam	15% 20% 05% 25% 35%		

Course Schedule

WEEK	WEEK LECTURE TOPICS		
1	1 2	History and nature of Forensic Sciences	
2	1	Physical evidence and criminal justice system	
	2	Crime Scene Investigation	
3	1	Death Investigation	
	2	Polygraph Examination	
4	1 2	Latent Finger Print Analysis	
	1		
5	1 2	Trace Evidence Analysis	
6	1	Fire and Explosive examination	
	2		
7	1	Biological Evidence (Forensic Serological examination)	
	2		
8	1	MID TERM EXAM	
	2	PAPER REVIEW	
9	1 2	Forensic DNA Analysis	
	2		
10	1	Forensic Pathology	
	2		
11	1	Forensic Toxicology	
	2	Narcotics and illicit Drugs	
12	1	Questioned Documents	
	2		
13	1	Firearms and Tool Marks	
	2		
14	1	Advances in forensic sciences	
	2		
15	1	Recent trends in forensic sciences	
	2		