

CBCS Course Curriculum (Effective from Session 2021-22) [Bachelor of Science (B.Sc. Forensic Science)]

R.Sc. Forensic	Science: Senrester-IV	
EST 403	Chemistry- IV	
	Examination	

Vending Scheme	Examination Scheme	
South I me West	Class Test -12 Marks	
Lowerist of Market	Teachers Assessment - 6 Marks	
Ombie 4	Attendance – 12 Marks	
(Stringe &	End Semester Exam - 70 marks	

course observings. After sindying this paper the students will know

- 4 The methods of analyzing trace amounts of petroleum products in crime scene evidence.
- The methods of analyzing contaminants in petroleum products.
- The method of warehing, collecting, preserving and analyzing arson evidence.
- The classification of explosives, including the synthesis and characterization of representative analogs.
- The significance of explosion scene management.
- The techniques of locating hidden explosives.

Unit 1: Petroleum and Petroleum Products

Distillation and fractionation of petroleum. Commercial uses of different petroleum fractions. Analysis of petroleum products. Analysis of traces of petroleum products in forensie exhibits. Comparison of petroleum products. Adulteration of petroleum products.

Unit 2: Arson

Chemistry of fire. Conditions for fire. Fire scene patterns. Location of point of ignition. Recognition of type of fire. Searching the fire scene. Collection and preservation of arson evidence.

Unit 3: Analysis of Fire Debris

Analysis of ignitable liquid residue. Post-flashover burning. Scientific investigation and evaluation of clue materials. Information from smoke staining.

Unit 4: Explosives

Classification of explosives – low explosives and high explosives. Homemade explosives. Military explosives. Detonators. Synthesis and characteristics of TNT, PETN and RDX. Explosion process. Shock waves.

Unit 5: Explosion Scene Management

Searching the scene of explosion. Mechanism of explosion. Post blast residue collection and analysis. Blast injuries. Detection of hidden explosives.

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