

**Syllabus**  
**for**  
**Toxicology, Chemistry, and Narcotics**

**1) Toxicology**

-Definition; Its role in crime; Classification of poisons; commonly used poisons; signs and symptoms of poisoning; Sample collection, Handling and packing.

-Analytical Toxicology; Extraction of poisons from various matrices including visceral samples; Isolation; Purification identification and interpretation of findings.

-Use of both Classical and Modern Instrumental methods of chemical analysis. of poisons.

-Adulteration and their examination.

**2) Chemistry**

-Forensic Chemistry; Its role in crime; Types of cases received for analysis.

-Procedures for sample selection, collection, preservation, identification.

-Forensic chemical analysis of samples using classical and modern instrumental techniques.

-Examination of chemicals used in graft cases.

-Analysis of alcohol and other spurious liquor.

-Examination of Petroleum products, Construction material for adulteration.

-Examination of burnt remains in arson cases.

-Analysis of dyes chemicals seized in crime.

-Types of explosives; commonly used explosives; their handling; analysis and identification of explosive residues.

### **3) Narcotics**

-Definition; Narcotic drugs and Psychotropic; substances; Problems of drug abuse; drug addiction.

-Classification of Narcotic drugs;  
Identification of narcotic drugs by spot tests and other classical methods.

-Extraction of Narcotic drugs from different matrices; Isolation, purification, identification and estimation.

-Examination of Narcotic drugs using modern instrumental methods

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