



# MAHATMA GANDHI UNIVERSITY

## DEPARTMENT OF LIFELONG LEARNING AND EXTENSION

### CERTIFICATE PROGRAMME IN APPLIED CRIMINOLOGY AND CYBER FORENSICS SYLLABUS

Duration	: 120hrs
Eligibility	: A pass in Plus Two or Equivalent
Course Fee	: 5200/-
Medium of Instruction	: Malayalam /English

#### INTRODUCTION

Crime being a dynamic phenomenon, the nature of crime and criminals has changed considerably due to advent of economic liberalization, globalization and communication revolution. This has not only resulted in effecting substantial alterations in the dynamics of crime and criminal behavior but also brought about multiple challenges for the Criminal Justice System in particular and society as a whole in general. Therefore, awareness and education in various fields of Criminology and Forensic Science have become duly bound to respond to the needs of the society and the Criminal Justice System to face these unprecedented challenges for their existence and to reduce the increasing rate of crime.

#### SCOPE OF THE COURSE

Increasing mode of crime rate in our State and ambiguousness in the cause of the same is creating negative effect about the present Criminal Justice System. This is due to the lack of awareness about causes of criminality and the causes of alarming rate in increasing number of crimes while modernization is being taken place. Alarming rate of crime against women and children, cyber crimes, drastically changing types of crimes, ineffectiveness of policing, low conviction rate, ineffectiveness of probation, reformation and reintegration of offenders, also point towards the lack of proper application of modern trends in Penology, Criminology, Victimology, Forensic Science, Cyber Forensic, Investigation and crime prevention and detection. Crimes are increasing day by day, many offenders are escaping from criminal procedures due to lack of scientific evidences, no offenders are reformed, communal and social disturbances are increasing and at the same time there are no eternal measures or awareness programs in our society till now.

## **MODULE**

### **Unit 1: CRIME AND CRIMINOLOGY**

1. Criminology: Definition, Nature, Scope, Relevance and Relation with other Social Sciences. Crime: Ancient, medieval and Modern society, Social Disorganization, Crime Trends, Prevention. Contemporary forms of Crime: White Collar, Economic, Organized Crime, Terrorism, Cyber Crime, Environmental Crimes. Recent trends in Crime
2. Victim: Meaning, Nature, Type, Patterns of Victimization, Compensation
3. CJS: Police system, Judicial System, Prosecution, Prison System. Institutional and Non Institutional Forms of treatment. Juvenile Delinquency: Etiology, Identification, Apprehension and Prevention
4. Investigation Aids: Criminal profiling, Brain mapping, and Lie detector. Criminal profiling and applied criminology. Crime Prevention and its modern trends.
5. Introduction to Criminal law

### **Unit 2: CRIMINOLOGICAL THEORIES**

1. Pre classical, classical, neo classical, Positivism, Psychological Theories, Sociological and Radical Theories.
2. RAT, RCT and Space Transition theory
3. Recent Theories in Criminology

### **Unit 3: UNDERSTANDING CYBER CRIME**

1. Meaning, Definition, Nature, Forms of Cyber Crime.
2. Historical Evolution of Cyber Crime.
3. Computer memory, processors, operating systems and networks. Computer malwares- trojan horse, computer virus and worms. Hacking, stalking, pornography, spamming, phishing
4. Contemporary Cyber Deviances.
5. Physical and Virtual World.
6. Factors Influencing Cyber Propensity of Adults & Children.
7. Cyber Deviances in India. Cyber Terrorism, Cyber Warfare. Social Implications of Cyber Deviance. Prevention and Control of Cyber Crime
8. Introduction on IT Act

#### **Unit 4: FUNDAMENTALS OF CYBER FORENSICS**

1. Definition of cyber forensics, classification of cyber-crimes
2. Cyber-crimes and conventional crimes, handling of cyber-crime scene
3. Collection preservation and packaging of evidence from a cyber-crime scene
4. Cyber Forensics: Basic Forensic Principles

#### **Unit 5: CYBER FORENSIC TECHNIQUES**

1. Extraction of information, restoration of deleted files,
2. Encase software, forensically sterile media.
3. Fundamentals of encryption and decryption, Cryptography and Steganography
4. Tracking & Tracing Emails, Recovery of Digital Evidence.
5. Forensic Imaging & Verification, Data Recovery and Analysis.
6. Ethical Hacking

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