

P.G. Diploma in Criminology and Forensic Science

Semester I

July 2014- December-2014

Pt. Ravishankar Shukla University, Raipur

PG Diploma in Criminology and Forensic Science[Credit System]

Scheme of Examination

July 2014-December 2014

FIRST Semester	Paper No.	Title of Papers	Marks		Cre dit
			(External)	(Internal)**	
I		Fundamentals of Forensic Science and Physical Evidence	80	20	6
II		<u>Fundamentals of Criminology</u>	80	20	6
LC-I		Lab Course-I	80	20	8
		Total	300		20

January 2015-June 2015

SECOND Semester	Paper No.	Title of Papers	Marks		Cre dit
			(External)	(Internal)**	
I		Toxicology, Forensic Chemistry and Forensic Biology	80	20	6
II		<u>Fundamentals of Police Science</u>	80	20	6
LC-II		Lab Course-II	80	20	8
		Total	300		20

Semester I

Paper I

Fundamentals of Forensic Science and Physical Evidence

Maxi. Marks-80

UNIT -I

Definition, History, Development and Scope of Forensic Science.

Scene of Crime and Collection of Physical Evidences.

Sketching of Crime Scene spot.

Forensic Examination in Drowning, Burning, Firearms, Hanging, Strangulation, Throttling, Poisoning, Railway cutting, Stabbing explosion, Sexual offences and Natural deaths, Cause of deaths.

UNIT- II

Forensic Science and Jurisprudence, Medical Jurisprudence.

Criminal Law: Definition as per Indian Penal Code.

General exceptions of Indian Penal Code.

Offences against Persons & Property

Procedure in Court as per Criminal Procedure Code

Indian Evidence Act- 45, Sections 59-73 and Sections 137 & 138

UNIT- III

Introduction and Classification of Questioned Documents.

Examination of Documents.

Basis of Handwriting Identification – Individuality of Handwriting

Various Writing Features and Their Estimation.

Examination of Signatures.

Examination of Alterations, Erasers, Over Writing, Additions and Obliterations.

UNIT -IV

Dermatoglyphics in Criminology & Forensic Science

History of Dermatoglyphic Prints developments

Personal identification from Finger prints

Types and Classification of Finger Prints (Henry's Classification)

Battley's Single Print Classification

Development and Lifting of Latent Finger Prints

Finger prints problems, Foot print, Palmar, Sole & Toe Prints, Tool marks.

UNIT -V

Introduction of Forensic Photography, Role of Photography in Forensic Science.

Camera: Its parts and functioning, Enlarger and other Equipments used in Photography, Developing and Printing method.

References:

1. R. Safferstin: Hand book of forensic science
2. Ohara & Osterburn : Criminalistics
3. P.L. Krik : Criminalistics
4. B.R. Sharma: Forensic Science in criminal investigation & crime
5. C.R. Parikh: Parikh's Textbook of Medical Jurisprudence & Toxicology
6. J.V.P. Conway: Evidential Documents
7. S. Goldblatt: Document Evidence & Identification
8. C. Cummins & R. Midlo: Introduction to Dermatographics: Finger, Sole & Toe.
9. Albert Osborn Questioned documents.
10. Chales. C. Thomas Type writing identification
11. Hardless. H.R. Disputed document, handwriting and thumbs print identification.
12. Wilson. R. Harrison Suspended documents – their scientific examination
13. Hilton Scientific Examination of questioned documents
14. R.A. Goegory Scientific identification of disputed documents, Finger Prints &
15. W.R. Harris Suspected Documents

Semester I

Paper II

Fundamentals of Criminology

Maxi.

Marks -80

UNIT -I

Definition, aims, nature and scope of Criminology.

History and Development of Criminology.

Role of Criminology in Forensic science.

Relationship of Criminology with other sciences: Forensic science, Psychology, Anthropology, Sociology and Law.

UNIT-II

The Characteristics and Relationship of Concept of Crime.

The Concept of Crime and its Socio-Legal Aspects.

The Causes of Crime, its level and General Description

The Differentiation approach to the assessment of Cause of Crime

The inter connections of Social and Biological in the Cause of Crime.

Biological problems in the complex of Anti Social Behavior

UNIT -III

Criminal Psychology

Schools of Criminology and Its Concept

Demonological, School of Freewheel, Classical School, Neo- Classical School, Geographical School, Socialistic School Italian Psychoanalytical, Psychological, Multifactor

UNIT -IV

Prevention of crime

The concept of Social Prevention and limits of its functioning

The basic principle of the legal regulation of Social Prevention

Juvenile Court, Rehabilitation Homes, Reformatories

UNIT -V

Objects of Punishment and its Critical Analysis

Modern concept of Penology

Capital Punishment

Prison System

Modern Concept of Prison

Reformation in Judicial System

Recommended Books:

1. Barns & Teeters: New Horizon in Criminology
2. Conkin: Criminology
3. Suderland and cressy: The Principals of Criminology
4. Siegel Laary, J: Criminology
5. Singh Shyamdhara: Essentials of Criminology (Hindi)

Semester I

PAPER-III

Lab Course - I

Maxi.

Marks -80

1. Sketching of Crime scene spot and collection of Physical evidences.
2. Its Packing, Preservation and Sending.
3. Recording, Identification & Classifications of Dermatoglyphic Prints.
4. Development of Latent finger prints on glass, paper, wall, polished surface etc.
5. Photography of Latent Finger Prints, Casting of food prints.
6. Photographic Techniques.
7. Preliminary Examination of questioned Documents.
8. Examination of Ink by Thin Layer Chromatography (TLC).
9. Classification of Fingerprints by Henry's Ten Digit Classification.
10. Examination of Tool marks.
11. Examination of Erased Punch Marks.
12. Examination of Mechanical impression (Type writing).

References:

- 1.R. Safferstin: Handbook of forensic science
- 2.Ohara &Osterburn: Criminalistics
- 3.P.L.Krik: Criminalistics
- 4.B.R. Sharma: Forensic Science in criminal investigation & crime
- 5.C.R. Parikh: Parikh'sTextbook of Medical Jurisprudence &Toxicology
- 6.J.V.P. Conway: Evidential Documents
- 7.S. Goldblatt: Document Evidence & Identification
- 8.C.Cummins & R. Midlo: Introduction to Dermatographics: Finger, Sole &Toe.
9. Albert Osborn Questioned documents.
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P.G. Diploma in Criminology and Forensic Science

Semester II

January 2015-June 2015

Semester II
Paper-I
Toxicology, Forensic Chemistry and Forensic Biology

Maxi. Marks -80

UNIT- I

Toxicology: Definition.

Classification of Poisons.

Various types of Plant Poisons.

Study of Insecticides and Pesticides.

Examination of Poisons in Viscera, Blood and Urine.

UNIT -II

Introduction to Narcotic Drugs and Psychotropic Substances (NDPS) Act 1985.

General Study of Narcotic Drugs and Psychotropic Substances.

Examination of Narcotic Drugs.

Adulteration in Jewelleries, Petroleum Products.

Examination of Inflammable Liquids like Kerosene, Petrol, Diesel.

UNIT -III

Introduction to Forensic Biology

Study of Body Fluids: Blood, Urine, Saliva, Semen, Vaginal Swab, Vomit, Milk.

Forensic Examination of Body Fluids.

Role of DNA in Paternal and Maternal Disputes.

DNA Fingerprinting.

Wildlife Forensics: Its role and Importance.

UNIT -IV

Introduction to Forensic Anthropology

Identification of Bone – Morphological, Anatomical Characteristics, Determination of Age, Sex, Race, Stature.

Forensic Odontology: Definition, Pattern, Type and Structure of Teeth, Age determination Identity of Person

Study of Bite Marks and their Forensic Significance.

Role in mass disaster, Diseases of teeth and their significance in personal identification.

References:

1. R. Safferstin: Handbook of Forensic Science
2. Ohara & Osterburn : Criminalistics
3. P.L. Krik : Criminalistics
4. B.R. Sharma: Forensic Science in Criminal Investigation & Crime
5. C.R. Parikh: Parikh's Textbook of Medical Jurisprudence & Toxicology
6. Surinder Nath Forensic Anthropology
7. Forensic Toxicology Manual, Ministry of Home Affairs, DFS

Semester II
Paper II
Fundamentals of Police Science

Maxi. Marks -80

UNIT- I

History and Development of Police System.

Reformation of Police System.

Application of Police in maintenance the Law and Order.

Limitations of Police System with reference to Human Rights

UNIT- II

Investigation of the following of cases:

1. Murder
2. Theft and Burglary
3. Road, Railway and Air Accidents
4. Arson
5. Sting Operation

UNIT- III

First Information Report, Search, Seizure, Arrest

Interrogation, Final Crime Theory, Preparation of Charge sheet.

UNIT- IV

Procedure in Court as per Criminal Procedure Court

Simons Trial, Warrant Trial, Case Diary.

UNIT- V

Role of Community in Police Corruption.

Use of Criminal Profiling in Crime Investigation.

Police System in India and its various organizations

Modernization of Police System with reference to Control system and Modern equipment

