

**DEPARTMENT OF LAW  
SAURASHTRA UNIVERSITY,  
RAJKOT**



[ Accredited Grade "A" ]  
By NAAC

**FACULTY OF LAW**

**PG DIPLOMA IN FORENSIC  
SCIENCE**

**Syllabus [ cbcs ]**

**Effective From June - 2019**

**Saurashtra University  
University Campus, Rajkot – 360 005  
Gujarat , India.**

**Website : [www.saurashtrauniversity.edu](http://www.saurashtrauniversity.edu)**

**Saurashtra University**  
**Faculty of Law**  
**DIPLOMA IN FORENSIC SCIENCE**  
**IN FORCE FROM JUNE, 2019**  
**Ordinances and Regulations**

**O.D.F.S.1.** Candidate shall be admitted to the course should have passed a bachelor's degree examination having three years duration from this university or any other recognized university.

**O.D.F.S.2.** The Diploma Course is a regular full time of one year duration consisting of two academic terms.

**O.D.F.S.3.** The admitted candidate can not join any other course of study without prior permission of the university.

**O.D.F.S.4.** The Medium of instruction & Examination shall be English, Hindi or Gujarati as the case may be which shall not be changed during the entire Diploma programme.

**O.D.F.S.5.** Admission granted by the affiliated college/institute to any student shall be provisional till the enrollment/registration/enlistment is made by the University & in case the admission is granted on the bases of provisional eligibility certificate, the conditions & instruction given by the University should be complied within the time limit fixed by the University or latest by the beginning of next semester otherwise term kept by the such a student Shall be cancelled and no fees on any account will be refunded.

**O.D.F.S.6.** Every affiliated college or institution shall have to take appropriate measures against ragging & gender problems in the college/institution. The word college/institution included college building, sports complex, Hostels and such other components which are within the purview of the college. In case of occurrence of any such incident the violator shall be dealt with very seriously and appropriate stringent action be taken by the principal of the college observing principle of natural justice. The head of college may appoint a committee to inquire in to the matter which will also observe the principle of natural justice. The committee will submit its report to the Head of college who may take further necessary action in the matter.

**Regulation's:**

**R.D.F.S.1.** The Teaching and examination scheme shall be as under

**Semester - 1**

Sr.	Name of Subject	Minimum marks	passing	Max. Marks	Exam. Hours
1.	Forensic Science	50		100	Three Hours

**Semester – 2**

Sr.	Name of Subject	Mini. Passing Marks Internal Total 75	Mini. Passing Marks Viva (External) Total 25	Total 100	Minimum aggregate for passing	Exam. Hours
1.	Project	30	10	-	50	Half Hour

**R.D.F.S.2.**Candidates must forward their application for admission to university Controller of Examination on or before the prescribed date with a certificate of attendance duly signed by the principal along with the examination fees prescribed by the University.

**R.D.F.S.3.**(1)Minimum passing standard 50%. (2) Candidate securing 50% to 59% marks will be awarded second class. (3) Candidate securing 60% or more marks in the examination will be awarded first class.

**R.D.F.S.4**

Candidate who remain absent in viva shall be declared fail in the examination.

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## Saurashtra University, Rajkot

Structure to be prepared in the Beginning of the Syllabus for All Semester / Year  
PG. Diploma in Forensic Science Programme – 2019

## Semester – 1

No.	Course Code	Course Title	C	IM	EM	TM
1.	1604030005010100	Forensic Science	6	00	100	100

C = Credits

IM=Internal Marks

EM=External Marks

TM=Total Marks

CCT=Core Course

SO=Sill Oriented Course

ICT=Interdisciplinary Course

SS=Self Study Course

DP=Dissertation / Project Work

ECT=Elective Course

## Saurashtra University, Rajkot

Structure to be prepared in the Beginning of the Syllabus for All Semester / Year  
PG. Diploma in Forensic Science Programme – 2019

## Semester – 2

No.	Course Code	Course Title	C	IM	EM	TM
1.	1604030005020100	Project	6	75	25	100

C = Credits

IM=Internal Marks

EM=External Marks

TM=Total Marks

CCT=Core Course

SO=Sill Oriented Course

ICT=Interdisciplinary Course

SS=Self Study Course

DP=Dissertation / Project Work

ECT=Elective Course

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# PG DIPLOMA IN FORENSIC SCIENCE

(Revised w.e.f. June-2019)

Faculty of Law

Name of Course	Semester	Core/Elective/Allied/Practical/Project	Course/Paper Code	Course/Paper Title	Credit	Internal Marks	External Marks	Practical / Viva Exam Marks	External Exam Time Duration
PGDFS	1	Core	1604030005010100	Forensic Science	6	00	100	-	Three Hours

## SEMESTER-1

### **P. G. Diploma in FORENSIC SCIENCE - [Multi-disciplinary]**

#### **Design of Programme**

This course is of one year-two semester's course. It is a theo-practical study. During the first semester, in theory, the students shall take guidance from the concerned teacher through attending lectures, interactions with teachers as well as professionals or concerned officials. This subject is taught on every Monday, Tuesday and Wednesday during 8.30.a.m. to 9.30 a.m. and on Sunday during 8.30 a.m to 11.30 a.m.in the Department. In practical, the students shall visit minimum ten concerned police department, forensic science laboratory, professionals, courts, etc. and acquire knowledge regarding practical aspect of the subject, then prepare a report of about 25 to 30 pages and submit it before the Department of Law on or before 10<sup>th</sup> October and make a presentation thereof. This will be evaluated by the teacher of the Department.

The second semester is for the preparation of project in which the student shall have to conduct a case –study, dealing with the forensic science activities. The report is to be prepared, which shall include introduction of the case to be studied, objectives of the study, hypothesis, and methodology, collection of data, treatment of data, significance, conclusion and suggestions, which may be of minimum 50 pages. That shall be submitted before the Department of Law on or before 20<sup>th</sup> March and make a presentation thereof. This will be evaluated by the teacher of the Department and give marks accordingly out of 100.

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# **FORENSIC SCIENCE**

## **Course Objectives:**

- Crime in the society is as old as human race.
- With the advancement of science and technology types and methods of crime have undergone a radical change.
- Intelligent criminal has been quick to exploit science and technology for commission of crime.
- Present scenario of criminal justice system is sad
- Large percentage of criminals goes scot free These frequent acquittals not only waste the huge amount of public money and precious time but embolden the criminals, escalate crime and multiply criminals.
- Now a days old techniques of criminal investigation has become obsolete
- Use of third degree does not find favour with the new generation of administrators, judges and the public at large.
- Forensic Science has proved a very useful tool for identification the crime, criminal and victim.
- The syllabus is designed to make aware the students of this new science and technology.

## **Course Contents:**

### **Unit – 1 Principles & Perspectives**

- 1.1. Need.
- 1.2. Function.
- 1.3. Development.
- 1.4. Principles.
- 1.5. Tools & Techniques.
- 1.6. Problems of Proof.

### **Unit – 2 The Forensic Psychology**

- 2.1. Importance.
- 2.2. Nature.
- 2.3. Classification.
- 2.4. Collection of Evidence.
- 2.5. Hypnosis.
- 2.6. Truth Serum.
- 2.7. Brain Printing.
- 2.8. Case Law.

### **Unit – 3 Road Accidents**

- 3.1. Scientific investigation and evaluation of clue, materials, Arson
- 3.2. Scientific investigation and evaluation of materials trace Analysis
- 3.3. Nature, Location, Collection and evaluation of trace materials.

### **Unit – 4 Nature, Identification, Classification, Collection, Location of Narcotics clue materials**

- 4.1. Opium, Morphine, Heroin, Pathadin, Barbiturates.
- 4.2. Cocaine, Amphetamines, Methaquinon.
- 4.3. Cannabis, LSD, DMT.
- 4.4. Alcohol and Alcoholic Beverages.

### **Unit – 5 Nature, Classification and mode of action of poison their symptoms, fatal dozes etc.**

- 5.1. Sodim hydroxide, Annonium Hydroxide and Potassium hydroxide.
- 5.2. Mercury, Arsenic, Lead, Copper, Zink.
- 5.3. Sulphuric acid, Nitric Acid, Hydrochloric acid.
- 5.4. Phenol, Phosphorous, Chlorine, Iodine.
- 5.5. Castor oilseed, Cotton seeds, Dhatura, Oleander seed, Abrus precatitions seeds.
- 5.6. Barbiturates, Opium, charas, Ethyl alcohol, methyl alcohol, Chloroforms, ether, Snake Venom, DDT, Endrin, Deldrin, Aldrin, B.H.C. (Gammoxene, Parathion, Malathion and Diazinon).

### **Unit – 6 Micro traces**

- 6.1. Importance.
- 6.2. Nature.
- 6.3. Location.
- 6.4. Collection.
- 6.5. Forensic Problems.
- 6.6. Individual Micro traces.
  - 6.6.1. Plant material.  
Wood, Leaves, Flowers, Seeds, Starch.

- 6.6.2. Dusts.
- 6.6.3. Soils, Glass.
- 6.6.4. Biological Materials.  
Hair & Fibre, Blood, Semen & other body fluids  
  
(Saliva, Urine, Faeces, Sweat, Nasal secretions, Tears)

**Unit – 7 Elementary Forensic Medicine**

- 7.1. Investigation of death.
- 7.2. Injuries.
- 7.3. Age determination of living person.
- 7.4. Insanity

**Unit – 8 Evaluation of skeletal remains formage, height, sex, time of death, mode of death, and identification including skull and site marks.**

**Unit – 9 Finger Prints & Foot Prints and Hand writings & Documents Marks and Scratches**

**Unit – 10 Alcohol and Drivers**

Nature, Location, Preservation, Collection, Identification, Comparison, Recording, etc

**Book Recommended :**

Sharma B.R. : Forensic Science.

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## Semester – 2

Name of Course	Semester	Core/Elective/Allied/Practical/Project	Course/Paper Code	Course/Paper Title	Credit	Internal Marks	External Marks	Practical / Viva Exam Marks	External (Viva) Exam Time Duration
PGDFS	2	Core	1604030005020100	Project	6	00	75	25	Half Hours

### Project

- 100

#### Course Objectives :

- To make the students aware of practical problems.
- To create in students his or her creative potential.
- To stimulate the students to deal with the practical problems.
- To use the theoretical knowledge in practical life.

#### Course Content :

In project students shall have to take the practical training in an institution and shall submit the report for the same / or conduct empirical research and prepare a report.

The students of the Semester –II, pursuing the Diploma in Banking law/EXIM Law/Forensic Science shall have to prepare the Project in their respective area in the below mentioned format/guidelines. If there is any query, seek guidance from your respective teacher.

Total pages should be minimum 30 and maximum 50 with spiral binding.

Report is to be submitted on or before 20<sup>th</sup> March in triplicate.

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## 1. Title page

- Title of Research
- Thesis/Dissertation/Clinical Report/Project/Case Study submitted in partial fulfillment of the Requirements for the

Degree of Doctor of Philosophy in Law/

Master of Laws/Diploma

- Name of Scholar
- Guided by
- Year

## 2. Declaration:

I....(full name) hereby declare that the work reported in this thesis/dissertation/report entitled '.....' submitted at Department of Law, Saurashtra University, Rajkot is an outcome of my original work and effort. No part of it has been published or submitted for the award of any other degree or diploma. I have declared all the resources from which the ideas and extracts have been borrowed

Rajkot:

Date:

Signature of Scholar

## 3. Certificate:

This is to certify that this thesis/dissertation/report entitled '.....' is a record of original work done by Mr./Miss.... at Department of Law, Saurashtra University, Rajkot under my supervision. I also certify that this thesis/dissertation/report has not formed in part or fully the basis for the award of any other previous any research degree/master degree/diploma in this Department or anywhere else.

Rajkot:

Date:

Signature of Guide

## 4. Acknowledgement

## 5. Contents:

- Chapter -1: Introduction (survey of Literature; Title of the Problem; Objectives; Hypothesis; Methodology; Significance)
- Chapter - 2 : Evaluation of Previous Research; Doctrinal information
- Chapter - 3 : Design of Research - Scope; Scheme of collection of data; Analysis of Data; Treatment of Data; Interpretation of Data
- Chapter – 4 : Findings/ Conclusion; Recommendations/Suggestions
- Bibliography – Books, Journals, Magazines, News Papers, and Web sites, Etc.
- Appendix

**Bibliography:**

- Books
- Journals
- Magazines
- News Papers
- Web cites

**Remember:**

- **Font Size: 12, Times New Roman(English)**
- **Title of Chapter: Capital letter, 14 size**
- **Title of Paragraph: Bold, size -12**
- **Margin: Left-1.5”; rest three sides – 1.0”**
- **Photos: if necessary, but size – proportionate**
- **Language: In Past Tense- Third person – Singular**
- **Footnotes to be used**

**Wish you all the Best**

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