

# **SAURASHTRA UNIVERSITY**

## **RAJKOT**

(ACCREDITED GRADE "A" BY NAAC)



### **FACULTY OF LAW**

Syllabus for

## **PG DIPLOMA IN FORENSIC SCIENCE**

**With Effect From: 2016-17**

## Program Outcomes

P.G. Diploma in Forensic Science program curricula are developed according to the local, regional and national developmental needs. It also covers certain international aspects and requirements. All these reflect in program outcomes and program specific outcomes.

### PO1: Research Oriented

Law plays an important role in society. Law will always be there in the one form or the other, of course, our laws must be in a position to tackle the changing situation, and this is possible only through the legal research. No society can progress without research.

**PO2:** 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. To deal with these criminals requires the knowledge of emerging changes in commission of crime and technology.

**PO3.** Now a days old technique 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 of the crime, criminal and victim. The students acquire this new science and technology.

### PSO1.

Development of the creative potential, analytical and interpretative power makes a skilled professional in the legal field.

### PSO2.

Development of the learning ability, conceptual clarity and custodian of knowledge makes a good investigator.

### PSO3.

Acquiring the knowledge advance technology and substantive laws helps him/her to become a good administrator.

### PSO4.

A competent to analyse and evaluate the legal process from a broader juristic perspective makes a perfect judge of crime scene.

Saurashtra University  
Faculty of Law  
DIPLOMA IN FORENSIC SCIENCE  
IN FORCE FROM JUNE, 2016  
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 will 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 will 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	Mini. Passing Marks Internal Total 40	Mini. Passing Marks External Total 60	Max. Marks	Exam. Hours



1.	Forensic Science	16	24	100	Two Hours
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**Semester – 2**

Sr.	Name of Subject	Mini. Marks Internal Total 75	Passing 16	Mini. Marks Viva (External) Total 25	Passing 24	Total 100	Minimum aggregate for passing	Exam. Hours
1.	Project	30	16	10	24	-	50	Half Hour

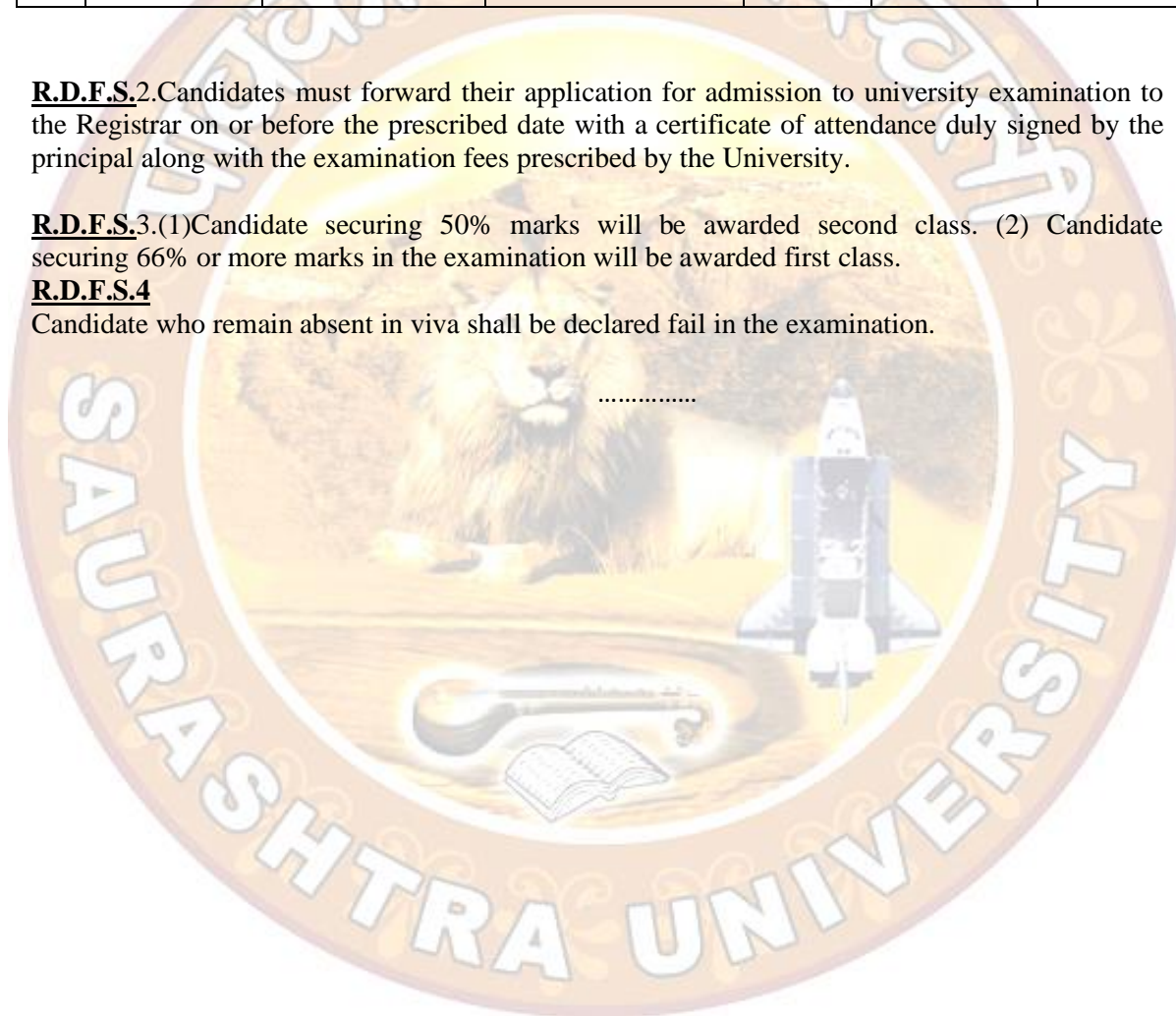
**R.D.F.S.2.**Candidates must forward their application for admission to university examination to the Registrar on or before the prescribed date with a certificate of attendance duly signed by the principal along with the examination fees prescribed by the University.

**R.D.F.S.3.**(1)Candidate securing 50% marks will be awarded second class. (2) Candidate securing 66% 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 – 2016

Semester – 1

No.	Course Code	Course Title	C	IM	EM	TM
1.	1604030005010100	Forensic Science	6	30	70	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 – 2016

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-2016)

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	40	60	-	Two Hours

### FORENSIC SCIENCE [ Multi-disciplinary ]

#### **Course Outcomes:**

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.

**COs. 1.** To acquire the knowledge of technology, methods of crime adopted by the criminals

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.

**COs.2.** to make aware of this sad situations and how to get rid of this

Now a days old technique 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 of the crime, criminal and victim.

**COs.3.**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, Amphetmines, 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 precatitons 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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**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 (Viva) Exam Time Duration
PGDFS	2	Core	1604030005020100	Project	6	00	75	25	Half Hours

Project - 100

**Course Outcomes :**

- 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.

PGDFS - 2016

Semester - 01

નં.	સબજેક્ટ	કોર્સ કોડ વર્ષ 16	ક્રેકલટી લો 04	વિષય કોર - 01 ઇલેક્ટીવ - 02	કોર્સ ગ્રુપ	લેવલ યુજી - 01	સેમેસ્ટર	પેપર નંબર	વિકલ્પ
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
૧.	Forensic Science	16	04	03	00	05	01	01	00

PGDFS - 2016

Semester - 02

નં.	સબજેક્ટ	કોર્સ કોડ વર્ષ 16	ક્રેકલટી લો 04	વિષય કોર - 01 ઇલેક્ટીવ - 02	કોર્સ ગ્રુપ	લેવલ યુજી - 01	સેમેસ્ટર	પેપર નંબર	વિકલ્પ
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
૧.	Project	16	04	03	00	05	02	01	00

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