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MINISTRY OF  
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National Forensic  
Sciences University  
Knowledge | Wisdom | Fulfilment  
An Institution of National Importance  
(Ministry of Home Affairs, Government of India)

NATIONAL FORENSIC  
SCIENCES UNIVERSITY

# SCHOOL OF MEDICO-LEGAL STUDIES



National Forensic Sciences University (Headquarters)  
Sector 9, Gandhinagar - 382007  
Gujarat, India



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www.nfsu.ac.in



(079)-23977103



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## About NFSU

The National Forensic Sciences University (NFSU) is the erstwhile Gujarat Forensic Sciences University (GFSU), the world's first and the only University dedicated to Forensic Science and allied subjects. This unique University was envisioned by the Hon'ble Prime Minister of India, Shri Narendra Modi as the then Hon'ble Chief Minister of Gujarat in 2008 to be an institution of higher learning of international standard to meet the huge shortfall of experts in different fields of forensic Science across the world. It was established on 11th February, 2009 at Gandhinagar, Gujarat with the appointment of Dr. J.M. Vyas as its first Director General. On 1st October 2020, the Government of India elevated the university into a national university and established NFSU through the National Forensic Sciences University Act, 2020. Simultaneously, NFSU has also been accorded the status of an 'Institution of National Importance' (INI). On upgradation, the erstwhile GFSU has become the Gujarat Campus of the NFSU, and the Lok Nayak Jayprakash Narayan National Institute of Criminology and Forensic Sciences (LNJN NICFS) at Rohini, New Delhi is the Delhi campus. The headquarters of the NFSU continues to be located at its ultra-modern and lush green campus at Gandhinagar, the Capital city of a vibrant and industrious State of Gujarat.

The University comprises of twelve Schools spread across wide ranging academic disciplines of Forensic Science, Cyber Security, Behavioral Sciences, Forensic Psychology, Engineering & Technology, Pharmacy, Management, Police Science & Security Studies, Medico-Legal studies and Law. Presently, the University offers 68 post-graduate courses as well as integrated courses. Besides this, it undertakes variety of short term training programmes for the officers from diverse fields such as police, judiciary, prosecution, armed forces, academics, finance, banking, etc. As a result, since 2009, NFSU has trained over 12,000 officers, including around 2500 foreign officers from 70 different countries. In order to harness the latest knowledge, advanced technologies and the best practices, NFSU has entered into academic collaboration across the world and within India with more than 130 multi-disciplined institutions. One of its unique features is that it offers expert consultancy in setting up or upgrading various laboratories in the country as well as abroad. The University boasts of some unique and state-of-the-art infrastructure, which includes the Cyber Defence Centre (CDC), the Ballistics Research Centre & Testing Range, Centre of Excellence for Narcotics Drugs and Psychotropic Substance (NDPS), the first-ever International Centre for Humanitarian Forensics (ICHF) in collaboration with the ICRC, Forensic Innovation Centre etc.



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## Brief about SCHOOL OF MEDICO-LEGAL STUDIES

This school was established mainly to create professionals in the field of medico-legal sciences and other allied disciplines. The school is mandated to impart education, research, training and consultancy in the areas of medico legal and medico-social and other allied areas. This school has come into existence for the effective teaching and learning with excellent advances in human bio sciences in all the areas pertaining to the investigation of crime against individuals. This also has extended its ambit in imparting skills and knowledge with the creation of professional experts for the service to the humanity.



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National Forensic Sciences University

## VICE CHANCELLOR

Dr. J. M. Vyas



Establishing the Medico-Legal School is the hallmark of the investigation of crime against human beings. Investigation of the crime and method of commission needs highly technical examination and analysis of the evidence accordingly. This requires highly sophisticated mechanism and techniques for resolving the issue. This is envisaged with a wide range of investigative courses as Forensic Toxicology, Forensic Dentistry (Odontology), Forensic Nursing, Humanitarian Forensic.

Comprehensive justice delivery system involves the societal management with the care of individual/victims. There is a need for the comprehensive healthcare with homeostasis of the individuals to achieve. This could be achieved when the affected individual is given due respect with the normalcy of the victims. This is the reason why Humanitarian Forensics has been introduced.

The social health and community health is given utmost importance, in the case of crimes/disaster. The victim is taken care physically, mentally, socially, and clinically which delivers the justice with virtue of empathy and solace. This is perfectly achieved by the nursing professionals who are the first to take care of the victims. So, forensic nursing course has been started. These experts will be able to handle the victims with more compassion. This facilitates the justice delivery under a due process through the Humanitarian perspective and with a genial touch.

### **Dr. J. M. Vyas**

Vice Chancellor

National Forensic Sciences University



## M.Sc. Toxicology

Toxicology is a branch of biology, chemistry and pharmacology concerned with the study of the adverse effects of substances on living organisms. It is the study of harmful effects of chemical, biological and physical agents in biological systems that cause damage in living organisms up to different extent. It includes environmental agents and chemical compounds found in nature, as well as pharmaceutical and other compounds that are synthesized for medical and other purposes by humans. These substances may produce toxic effects in living organisms including disturbance in growth patterns, discomfort, disease and/or death. The goal of toxicity studies/ assessment is to identify adverse effects of substances.

The aim of the programs is to provide technical knowledge, competence and research skills in the field of toxicology and management of poisoning cases and how they can apply these skills in emerging areas concern with health, environment and forensics.

- Health services,
- Food Standards Agency,
- Pollution Control Boards,
- Environmental Toxicology Specialist/ Ecologist,
- Organic Section Manager in Pesticide Manufacturing Units,
- Safety Specialist like Health and Safety Executive in Hotels and Corporate Sectors,
- Toxicologist /Research Scientist at Poisons Information Centers and research laboratories to diagnose and manage poisoning cases, Disaster management and control sector,
- Food Scientist in food and its product manufacturing sectors to assess quality of food,
- Drug Inspector to prevent trafficking of illicit drug,
- Independent Toxicologist as consultant and advisor,
- Pharmaceutical industries for testing the toxic effects of newly manufactured drug,
- Faculty in Toxicology and Forensic Toxicologist in Forensic Science Laboratory.



# Courses

## M.Sc. Toxicology

### Course duration

2 years (four semesters)

### Intake

20 seats

## Eligibility Criteria

Bachelor's degree in Chemistry/Biology/ Environmental Sciences/Biochemistry/ Biotechnology/ Forensic Sciences/Medicine /Pharmacy with at least 55% or equivalent marks for General/OBC (NCL)/EWS category candidates, and 50% or equivalent marks for SC/ST and PwD category candidates.

## Course Outline

- Essentials of Toxicology
- Instrumentation
- Human Physiology
- Food Toxicology
- Forensic Science and Law
- Environmental and Occupational Toxicology
- Analytical Toxicology
- Systemic Toxicology
- Forensic Toxicology and Pharmacology
- Regulatory Toxicology
- Developmental and Genetic Toxicology
- Mechanistic Toxicology
- Clinical Toxicology and Health Care Management
- Applied Toxicology
- Research Methodology and Communication in Scientific Re-search/Biostatistics and Bioinformatics/ Pharmacotoxicology/Pesticide and Metal Toxicology/ Molecular Toxicology



# Courses

## M. Sc. Forensic Dentistry (Odontology)

Forensic odontology also referred as forensic dentistry, is a discipline of the forensic sciences concerned with the proper handling, examination and evaluation of dental evidence in criminal or civil legal proceedings. Forensic odontologists perform examinations required by medical examiners, law enforcement and judicial agencies. They work to identify victims and perpetrators, usually by examining and comparing dental records with human remains and pattern injuries such as bite marks.

Dentistry plays a key role in human identification and has vital role even from legal viewpoint. In instances of disastrous events, the question of identification is one of the most relevant medical-legal issues. It is fundamental for the experts associated in resolving such cases to know the appropriate techniques and protocols for both isolated and large-scale incidents. Even though dental identification needs to be used simultaneously alongside other identification techniques (fingerprints or forensic genetics), it offers the advantage of being a quick, effective, scientific and economical method of great importance to identification in major disasters.

As there is dearth of specialists in this area especially in India, the course is specifically designed for evidence based and research-oriented teaching, thus directing the dental professionals to multi-disciplinary and integrated approach. The objective of the program is to equip dental professionals with forensic knowledge, skills, judgment and values to practice forensic and legal dentistry in a competent manner.



# Courses

## M. Sc. Forensic Dentistry (Odontology)

### Course duration

2 years (four semesters)

### Intake

20 seats

### Eligibility Criteria

Bachelor of Dental Surgery with at least 55% or equivalent marks for General/OBC (NCL)/EWS category candidates, and 50% or equivalent marks for SC/ST and PwD category candidates from any institution recognized by the Dental Council of India (DCI).

### Course Outline

- Introduction to Forensic Sciences and Biometrics
- Basic Concepts of Forensic Odontology
- Human Physiology and Basic Biochemistry
- Basic Molecular Biology and Microbiology
- Criminology, Law, Ethics and Legal aspects in Forensic Odontology
- Human Identification/Disaster Victim Identification
- Advanced Techniques in Forensic Odontology
- Forensic Genetics and Biostatistics
- Research Methodology, Scientific Protocols for Fire Investigation
- Forensic Pathology and Toxicology
- Forensic Radiology
- Medicolegal Investigation
- Dental records Maintenance and Information Management systems (Database management systems)





# Courses

## M.Sc. Forensic Nursing

This program is mainly aimed at creating the professional nurses to gain expertise in the areas of medico legal approaches in cases of abuses against women, elders and children. These specialist nurses are capable of providing clinical/ medical care to the victims of abuses (physical / mental and sexual). They are also able to provide psychological wellbeing in addition to the physical wellness as they had been subjected to physical and emotional trauma due to unfortunate / fateful events or conditions. They are capable of collecting the evidences (including body fluids and other physical / scientific evidences from the victims of physical/ sexual abuses for the purpose of early/ proper justice administration which is a due for the affected individuals. They are also able to provide scientific assistance in the cases of disasters by way of providing clinical and psychological care to the victims, assisting the experts in identifying the dead victims. They are also capable of assisting the medical officers in the medico legal cases of any kind including the postmortem examination.



# Courses

## M.Sc. Forensic Nursing

### Course duration

2 year (four semesters)

### Intake

20 seats

### Eligibility Criteria

B.Sc Nursing with 55% marks from any institution recognized by the INC (Indian Nursing Council) with one year experience in the respective area.

### Course Outline

Fundamentals of forensic sciences, objectives, need and scope, Fundamental concepts involved in the abuses / atrocities /offences against women, children and elderly. Remedies through the medico legal approaches, addressing Psycho social issues and providing psychological care to the victims, Disaster victim management ( clinical, forensic and psychological aspects )



## PG Diploma in Humanitarian Forensics (under the auspices of ICRC)

Forensic Science in general is being perceived to be associated only with the criminal investigations, identification of the offenders and is also known to play a vital role in the criminal justice delivery system. But there also exists a compassionate form of this forensic science that has emerged most recently is Humanitarian Forensics. By the terminology itself, it can be understood that Humanitarian Forensics is an exclusive expertise associated with the humanitarian services or actions. In every instance of social service, there is a scope of fulfilling the general needs of the society. But Humanitarian Forensics deals with the scientific approaches with the comprehensive management of the disaster victims. This involves rendering comprehensive and prudent management of the victims and also to facilitate the psycho social, socio cultural, health care, scientific identification and social security aspects.

In the contemporary world, humanity has been witnessing lot many scientific advancements beyond anybody's guess. But still there are certain things those are found to be unpredictable are especially that of the mass disasters. Mass disasters are of any kind such as natural and manmade origin. These may result in huge loss of lives. i.e., there may be a huge mortality and morbidity. These unpleasant or unlikely situations require concerted efforts for the effective tackling of the crisis with a mandatory compassionate humanitarian action (that is essential). In such condition there is a necessity of the locating, identifying the dead victims, rendering the critical health care to the victims those are affected with morbidity, providing reassurance to the victims and their relatives, dignified management of the dead victims and the rituals with their respective cultural context.

Combined efforts of the forensic expertise are essential for the identification of the victims as it is crucial information for the socio cultural aspects, demographic profiles and the social security applications. This requires an authentic source of information through flawless and reliable / foolproof scientific methods. This could be achieved only through the forensic sciences wherein the scrupulous techniques are applied for the authenticity of information about the determination of the individuality or identification profiling. This is useful in rendering the due financial and social assistance that is being dispersed and rendered by the respective governments. Population data for the updates are also made with more accuracy and reliability. Thereby humanitarian forensics is useful in carrying out the systematic management of the disasters and any other situation that ends up in the distress among the mankind in large numbers.



# Courses

## PG Diploma in Humanitarian Forensics (under the auspices of ICRC)

### Course duration

1 Year (2 Semesters)

### Intake

20 seats

### Eligibility Criteria

Bachelor's degree in any discipline with at least 50% or equivalent marks for General/OBC (NCL)/EWS category candidates, and 45% or equivalent marks for SC/ST and PWD category candidates.

### Course Outline

- Basic concepts of Humanitarian Forensics
- Scientific protocols in Disaster victim identification (DVI)
- Comprehensive management of disasters victims
- Psycho social, cultural perspective of disaster victims



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## PG Diploma in Forensic Toxicology

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The aim of the programs is to provide technical knowledge, competence and research skills in the field of toxicology and management of poisoning cases and how they can apply these skills in emerging areas concern with health, environment and forensics.

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- Food Standards Agency,
- Pollution Control Boards,
- Environmental Toxicology Specialist/ Ecologist, Organic Section Manager in Pesticide Manufacturing Units,
- Safety Specialist like Health and Safety Executive in Hotels and Corporate Sectors,
- Toxicologist /Research Scientist at Poisons Information Centers and research laboratories to diagnose and manage poisoning cases,
- Disaster management and control sector,
- Food Scientist in food and its product manufacturing sectors to assess quality of food,
- Drug Inspector to prevent trafficking of illicit drug,
- Independent Toxicologist as consultant and advisor,
- Pharmaceutical industries for testing the toxic effects of newly manufactured drug,
- Faculty in Toxicology and Forensic Toxicologist in Forensic Science Laboratory.



# Courses

## PG Diploma in Forensic Toxicology

### Course duration

1 Year (2 Semesters)

### Intake

20 seats

### Eligibility Criteria

Bachelor's degree in Chemistry, Zoology, Botany, Biochemistry, Microbiology, Environmental Sciences, Biotechnology, Medicine, Pharmacy, Dentistry or equivalent with at least 50% or equivalent marks for General/OBC (NCL)/EWS category candidates, and 45% or equivalent marks for SC/ST and PwD category candidates.

### Course Outline

- Concepts of Toxicology
- Forensic Toxicology
- Pharmacology and Pharmaceutical Drug Analysis
- Elective: Analytical Technique in Forensic Toxicology/ Research Methodology
- Forensic Science and Law



## Faculty members



**DR. G. RAJESH BABU**

DEAN



**DR. BHOOMIKA PATEL**

ASSOCIATE PROFESSOR



**DR. ABRAHAM JOHNSON**

ASSISTANT PROFESSOR



**DR. DHWANI PATEL**

ASSISTANT PROFESSOR



**DR. HARDI MENDPARA**

ASSISTANT PROFESSOR



**DR. NEELKANT VERMA**

ASSISTANT PROFESSOR



**DR. AKANKSHA SINGH  
KACHHAWA**

ASSISTANT PROFESSOR



**DR. CHETTY RAJLAKSHMI**

ASSISTANT PROFESSOR



**MS. PARVATHY HARI**

TEACHING & RESEARCH  
ASSISTANT





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