THE WEST BENGAL NATIONAL UNIVERSITY OF JURIDICAL SCIENCES









Information Brochure

and

ANNUAL REPORT

2022-2023
2023-2024

Prepared By:

SCHOOL OF FORENSIC SCIENCES

12, LB BLOCK, SALT LAKE, SECTOR-III, KOLKATA-700106, INDIA



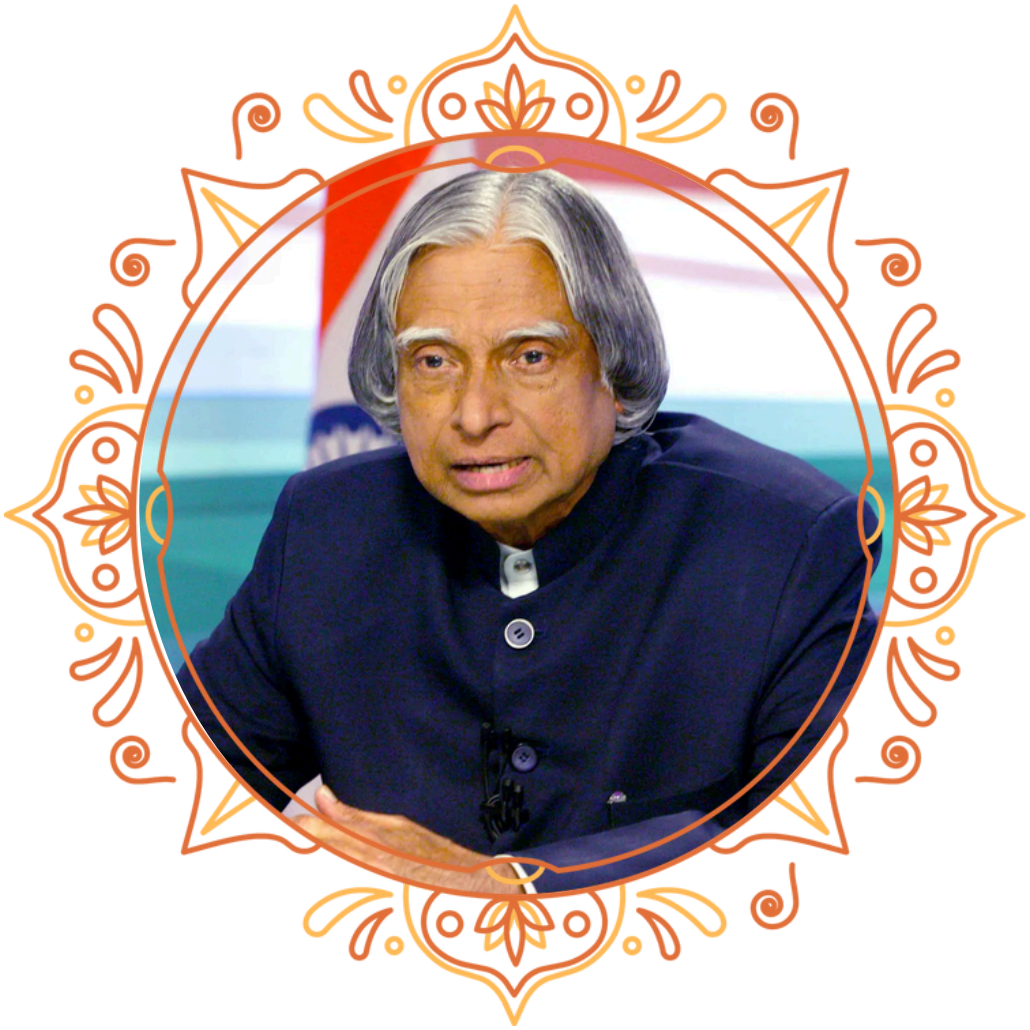
“From Crime Scene to Court Room, the future of Justice is being written in the language of Forensic Science - Our Graduates will be part of this transformation”

Prof. (Dr.) Nirmal Kanti Chakrabarti
Hon’ble Vice Chancellor, WBNUJS, Kolkata

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“The purpose of education is to make good human beings with skill and expertise.
Enlightened human beings can be created by teachers.”

Dr. A.P.J. Abdul Kalam
1931-2015



From the Vice Chancellor's Desk



Dear Students, Faculty, and Stakeholders,

In today's complex and interconnected world, the issue of crime is a grave concern for societies worldwide. The criminal justice system Comprising law enforcement agencies, courts, and correctional facilities stands as a bulwark against these disruptions, serving as the institutional framework designed to maintain order, protect individuals, property, and administer justice.

Forensic science plays a pivotal role in the pursuit of truth, justice, and the safeguarding of society. It encompasses a multidisciplinary approach that combines elements of various scientific disciplines to examine, analyse, and interpret evidence crucial to criminal investigations. The School of Forensic Science is the culmination of careful planning, unwavering dedication, and a profound commitment to advancing knowledge and expertise in forensic science which will provide a comprehensive and rigorous education that equips students with the skills, knowledge, and ethical grounding necessary to excel in this demanding field.

At its core the School of Forensic Sciences is dedicated and aims to achieve excellence by providing world-class education in forensic science that fosters critical thinking, analytical skills, and ethical conduct. Our esteemed faculty, comprising leading experts in the field, will impart knowledge through a combination of cutting-edge research, hands-on laboratory work, and immersive practical experiences. Through collaborative efforts with law enforcement agencies, government institutions, and industry partners, we aim to serve as a hub for groundbreaking research that enhance the effectiveness and accuracy of forensic investigations. The School of Forensic Sciences also offers consultancy services, training programs, and workshops to support law enforcement agencies, legal professionals, and other stakeholders in the criminal justice system.

I extend my heartfelt gratitude to all those who have been instrumental in bringing this vision to fruition, and I look forward to witnessing the transformative impact of the School of Forensic Sciences on our institution and society at large.

Prof. (Dr.) Nirmal Kanti Chakrabarti
Hon'ble Vice Chancellor, WBNUJS

From the Desk of Registrar



Dear All,

I am proud to address you on the crucial matter of crime and its impact on our society. In our interconnected world, crime remains a significant concern, and it is the role of the criminal justice system—comprising law enforcement, the judiciary, and correctional facilities—to uphold order, protect individuals and property, and ensure justice is served.

Forensic science is instrumental in this endeavor, providing the necessary tools to uncover the truth and support the judicial process. By integrating various scientific disciplines, forensic science allows for the meticulous examination and interpretation of evidence crucial to criminal investigations. The establishment of the School of Forensic Sciences represents our commitment to advancing knowledge and expertise in this critical field. Through rigorous and comprehensive education, we aim to equip our students with the skills, knowledge, and ethical foundation required for success in forensic science.

The School of Forensic Sciences is dedicated to educational excellence. We strive to provide world-class instruction that fosters critical thinking, analytical skills, and ethical conduct. Our distinguished faculty, leaders in their respective fields, deliver education through cutting-edge research, hands-on laboratory experience, and immersive practical training. Collaborating with law enforcement agencies, government bodies, and industry partners, we aim to be a hub for groundbreaking research that enhances the accuracy and effectiveness of forensic investigations.

I am deeply grateful to everyone who has contributed to making this vision a reality. I am confident that the School of Forensic Sciences will have a transformative impact on our institute and the wider community.

Thank you for your unwavering support and dedication.

Mr. Raja Chakraborty
Registrar, WBNUJS



From the Desk of Head

Dear All,

It is with great pleasure and pride that I present to you the Information Brochure and Annual Report of the School of Forensic Sciences for the academic session [2022-2023 and 2023-2024]. This report encapsulates our collective achievements, challenges, and advancements in the field of forensic science.

Throughout the year, our school has continued to uphold its commitment to excellence in education, research, and professional development under the dynamic leadership of our Hon'ble Vice Chancellor Prof. (Dr.) Nirmal Kanti Chakrabarti. Our dedicated faculty members have played a pivotal role in fostering a vibrant academic environment where innovative ideas flourished and knowledge is continually advanced.

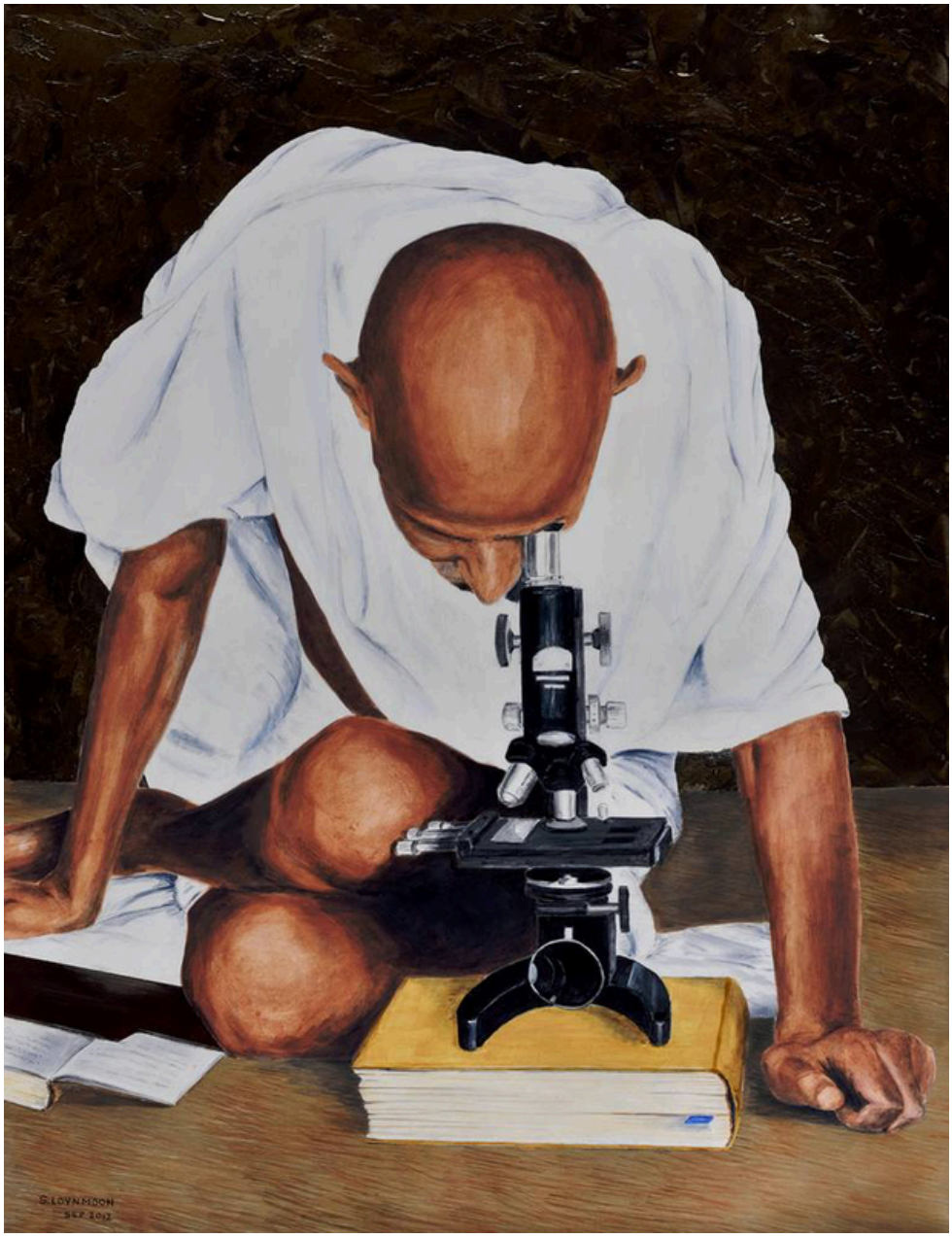
Our students have been at the heart of our achievements, demonstrating outstanding academic performance, research contributions, and practical skills in forensic science. Their enthusiasm and dedication inspire us to strive for excellence in all aspects of our educational mission.

In terms of research, our faculty and students have made significant strides in various specialized areas of forensic science. From advancements in forensic genetics to cutting-edge techniques in digital forensics and crime scene investigation, our research initiatives have contributed valuable insights to the field.

Looking ahead, we are committed to building on our successes and furthering our impact in the field of forensic science. Our vision remains steadfast—to be a global leader in forensic education, research, and practice, shaping the future of forensic science through excellence and integrity.

I extend my sincere gratitude to our faculty, students, staff, alumni, and partners for their unwavering support and dedication. Together, we will continue to push the boundaries of forensic science and make a lasting impact on society.
Thank you.

Dr. Ankit Srivastava
Head, School of Forensic Sciences



Mahatma Gandhi studying the leprosy germs with a Carl Zeiss microscope, Maharashtra, 1939

"SCIENTIFIC KNOWLEDGE REQUIRES CONSTANT PROBING INTO THE WHY AND WHEREFORE OF EVERY LITTLE PROCESS THAT YOU PERFORM."

.....Mahatma Gandhi

about WBNUJS



WBNUJS was established under the National University of Juridical Sciences Act, 1999, and it officially started functioning in 2000. It was set up with the aim of promoting legal education and research in India. The university boasts a highly qualified and experienced faculty, many of whom are leading experts in their respective fields of law and allied subjects. Their expertise contributes significantly to the quality of legal education provided at NUJS.

While it covers various fields of law, very recently it became the first National Law University in India by starting masters and doctoral degrees in Forensic Sciences. This year it took one more historical step forward as it started B.Sc. LL.B. (Hons.) in Criminology and Forensic Science as the first course of its kind in India.

The campus of NUJS is equipped with state-of-the-art facilities, including modern classrooms, a well-stocked library, research centers, Forensic Science Laboratories and moot courtrooms. These facilities enhance the learning experience for students. The university encourages research in various legal areas. It has several research centers and institutes dedicated to specific branches of law as well as Forensic Science studies. The university also publishes various journals and publications, contributing to legal scholarship.

NUJS collaborates with various national and international institutions to facilitate academic exchange, research, and collaboration. This university stands as a beacon of legal education and research in India, producing skilled professionals who are well-equipped to excel in the legal profession, law enforcement agencies, academia, public service and to assist criminal justice system in India and around the globe.

about School of Forensic Sciences

The School of Forensic Sciences (SFS) is an integral part of WBNUJS, Kolkata, focusing on the intersection of law and forensic sciences. The school is dedicated for its comprehensive and interdisciplinary approach towards understanding, teaching, and applying forensic science within the framework of legal systems through programmes offered i.e., M.Sc. Forensic Science and Ph.D. in Forensic Science.



Hon'ble Vice Chancellor WBNUJS Prof. (Dr.) Nirmal Kanti Chakrabarti and Director CFSL Kolkata Shri Brijendra Badoniya signing a MoU for establishment of Forensic Science

Genesis

The School of Forensic Sciences established in collaboration with CFSL Kolkata under the dynamic leadership of Hon'ble Vice Chancellor WBNUJS Prof. (Dr.) Nirmal Kanti Chakrabarti and Director CFSL Kolkata Shri Brijendra Badodiya with the MoU in 2021. The first Batch of M.Sc. Forensic Science was started from March 2022. The school collaborates with other academic, forensic and research organizations and institutions to provide practical and diverse exposure to the students and scholars across the country. These collaborations can lead to joint research projects, exchange programs, and conferences, which enrich the learning experience.



Vision

The vision of the School of Forensic Sciences is to become a globally recognized leader in forensic science education, research, and innovation. We aspire to advance the field through cutting-edge research, interdisciplinary collaboration, and the development of highly skilled professionals who are dedicated to upholding justice and integrity in society.

Mission

The mission of the School of Forensic Sciences is to provide comprehensive education and training in forensic science, fostering critical thinking, ethical practices, and scientific excellence. We are committed to:

- **Educational Excellence:** Delivering high-quality, rigorous academic programs that equip students with the knowledge, skills, and competencies necessary for successful careers in forensic science.
- **Innovative Research:** Promoting and conducting innovative research that advances forensic science methodologies, technologies, and applications.
- **Collaborative Partnerships:** Building strong partnerships with law enforcement agencies, research institutions, and industry to enhance the practical application of forensic science and contribute to public safety.
- **Professional Development:** Offering continuous professional development opportunities for students, faculty, and forensic practitioners to stay abreast of the latest advancements and best practices in the field.
- **Ethical Standards:** Upholding the highest ethical standards and promoting integrity, objectivity, and impartiality in all aspects of forensic science practice and education.



Partnerships & Collaborations

The WBNUJS Kolkata has signed MoU for the strategic partnership and collaboration with the Central Forensic Science Laboratory (CFSL) Kolkata, Indian Institute of Science Education and Research (IISER) Kolkata and National Forensic Science University (NFSU), Gandhinagar, Gujarat. These collaborations aims to leverage the combined expertise and resources of these esteemed institutions to advance forensic science research and education. By fostering an environment of shared knowledge and innovative research, we aim to enhance forensic methodologies, provide advanced training opportunities, and contribute significantly to the field of forensic sciences. This partnership will pave the way for groundbreaking research, cutting-edge technology development, and the cultivation of highly skilled forensic professionals.

DFSS

नयायार्थ विज्ञानम्

IISER KOLKATA

NFSU

National Forensic Sciences University

Knowledge | Wisdom | Fulfilment

An Institution of National Importance
(Ministry of Home Affairs, Government of India)

Faculties



Prof. (Dr.) Nirmal Kanti Chakrabarti
Hon'ble Vice Chancellor



DR. ANKIT SRIVASTAVA
ASSOCIATE PROFESSOR & HEAD, SFS



DR. KAVITA SINGH
PROFESSOR



DR. SARFARAZ A. KHAN
ASSOCIATE PROFESSOR



DR. AJAY SHARMA
DISTINGUISHED VISITING PROFESSOR & DIRECTOR FSL, JAIPUR



DR. ASHA SRIVASTAVA
DISTINGUISHED VISITING PROFESSOR & FORMER DIRECTOR CFSL, CBI



DR. K. THANGARAJ
DISTINGUISHED VISITING PROFESSOR & FORMER DIRECTOR CDFD, HYDERABAD



SHRI AMIT KUMAR
DISTINGUISHED VISITING PROFESSOR & CYBER SECURITY ADVISOR, NEW DELHI



SHRI B.P. MISHRA
ADJUNCT FACULTY & FORMER DEPUTY DIRECTOR, CFSL KOLKATA



DR. BHAVYA SRIVASTAVA
ASSISTANT PROFESSOR



DR. TANURUP DAS
ASSISTANT PROFESSOR



DR. PRANABESH SARKAR
TEACHING ASSISTANT



MS. DEBLINA GANGOPADHYAY
TEACHING ASSISTANT

Details of Faculties

Full Time Faculties

Name of Faculty	Designation	Qualification	Teaching Experience
Prof. (Dr.) Nirmal Kanti Chakrabarti	Vice Chancellor	LL.M. Ph.D. Law	40 Years
Prof. (Dr.) Kavita Singh	Professor	LL.M. Ph.D. Law	22 Years
Dr. Ankit Srivastava	Associate Professor & Head	M.Sc. Forensic Science Ph.D. Forensic Science	16 Years
Dr. Sarfaraz Ahmed Khan	Associate Professor	LL.M. Ph.D. Law	22 Years
Dr. Bhavya Srivastava	Assistant Professor	M.Sc. Forensic Science Ph.D. Analytical Chemistry	5 Years
Dr. Tanurup Das	Assistant Professor	M.Sc. Forensic Science Ph.D. Forensic Science	3 Years
Dr. Pranabesh Sarkar	Teaching Assistant	M.Sc. Anthropology Ph.D. Anthropology	2 Years
Ms. Deblina Gangopadhyay	Teaching Assistant	M.Sc. Forensic Science Ph.D. Pursuing	2 Years

Distinguished Visiting Professors

Name of Faculty	Designation	Qualification	Experience
Dr. Ajay Sharma	Director, FSL, Rajasthan	M.Sc. , Ph.D.	30 Years
Dr. K. Thangaraj	CCMB, Hyderabad	M.Sc. , Ph.D.	35 Years
Dr. Asha Srivastava	Ex Director, CFSL , Delhi	M.Sc. , Ph.D.	30 Years
Shri Amit Kumar	Cyber Security Advisor, Delhi	M.Tech	20 Years

Adjunct Professor

Name of Faculty	Designation	Qualification	Experience
Mr. Bhakti Pad Mishra	Former Deputy Director, CFSL	M.Sc.	33 Years

Programmes Offered

❶ M.Sc. Forensic Science

About the Programme

Forensic science is a multidisciplinary field that plays a pivotal role in the criminal justice system and society. Forensic science is inherently interdisciplinary, involving aspects of biology, chemistry, physics, psychology, etc. Pursuing Masters in Forensic Science program allows students to gain a holistic understanding of these various disciplines and how they intersect within the context of criminal investigations. Forensic science involves the application of scientific principles to analyse and interpret evidence related to criminal investigations. This program offers in-depth training in various forensic disciplines, such as DNA analysis, Digital Forensics, toxicology, ballistics, Chemistry, Explosives, Document examination, Fingerprints, Biology, Physical and Trace evidence analysis etc. This specialised knowledge equips students with the skills necessary for conducting precise and thorough examinations of evidence, ensuring the accuracy and integrity of forensic findings. Forensic scientists are integral to the criminal justice system, as their work can make the difference between convicting the guilty and exonerating the innocent. The importance of M.Sc. in Forensic Science lies in its ability to produce highly skilled professionals who can provide unbiased and reliable evidence in court. Their testimony can sway legal decisions and help ensure justice is served, crucial for maintaining public trust in the legal system. M.Sc. Forensic Science program teaches students the fundamental principles of forensic science and exposes them to cutting-edge technologies and methodologies. This knowledge enables graduates to stay updated with the latest tools and techniques used in the field, allowing them to adapt to changing investigative needs. Forensic Graduates can find employment in law enforcement agencies, Forensic Science laboratories, government organisations, and private industry. With a M.Sc. degree, they are better positioned for senior roles and leadership positions within these organizations, allowing them to make more significant contributions to solving complex criminal cases. In conclusion, forensic science continues to evolve and individuals with a M.Sc. in Forensic Science will be well-equipped to make meaningful contributions to society by helping to solve crimes and ensure justice prevails.

General guidelines for admission

Eligibility: B.Sc. / B.Sc. Hons. with Forensic Science/Chemistry/ Biochemistry/Biotechnology/Microbiology/Computer Science/B.Sc. LL.B. or any equivalent degree with minimum of 50% marks.

Intake : 30

Duration : 2 Years

Criteria of Admission : Entrance Examination followed by Interview

Note: 5% marks for relaxation of SC/ST candidate for eligibility.

Program Outcomes

- To learn and understand the fundamental and advanced concepts of forensic sciences
- To learn analytical techniques used in various disciplines of forensic sciences
- To analyse the scientific evidence encountered in criminal and civil cases
- To develop decision-making abilities among the students based on results of various evidence analysis
- To prepare skilful forensic professionals to serve in various law enforcement agencies and society
- To design and develop research-based solutions for challenges faced by stakeholders of the criminal justice system

Fee Structure of M.Sc. Forensic Science (in INR)

COMPONENT	SEM-1	SEM-2	SEM-3	SEM-4
Admission Fee	1000	—	—	—
Refundable Deposit	10000	—	—	—
Tuition Fee	40000	40000	40000	40000
Library Fee	10000	—	10000	—
Computer Fee	5000	—	5000	—
Student Welfare Fee	5000	—	5000	—
Development Fee	10000	—	10000	—
Infrastructure & Maintenance	10000	—	10000	—
Laboratory & Examination Fee	15000	—	15000	—
Students Health Insurance	1800	—	1800	—
Total Fee	**₹ 1,07,800**	**₹ 40,000**	**₹ 96,800**	**₹ 40,000**
Composite Hostel Fee (Room Rent) **	30000	30000	30000	30000
Hostel (Adjustable) Mess Charges **	20000	20000	20000	20000
Total Fee (With Hostel)	**₹ 1,57,800**	**₹ 90,000**	**₹ 1,46,800**	**₹ 90,000**

*** Subject to the decision of University authority from time to time**

Course Structure of M.Sc. Forensic Science

First Semester

Course Title	Course Code	Credit
Introduction to Criminal Law, Criminology and Forensic Science	310001	4
Fundamentals of Dermatoglyphics and Questioned Document analysis	310002	4
Forensic Ballistics and Explosives	310003	4
Instrumentation - I	310004	4
Optional Elective-I	*******	4
Practical for Crime Scene Investigation and Dermatoglyphics analysis	320001	2
Practical for Questioned Document Analysis and Ballistics	320002	2

Second Semester

Course Title	Course Code	Credit
Fundamentals of Forensic Physics	310005	4
Fundamentals of Digital and Computer Forensics	310006	4
Fundamentals of Forensic Biology, Serology and Genetic Markers	310007	4
Instrumentation - II	310008	4
Optional Elective-II	*******	4
Practical for Forensic Physics, Digital and Computer Forensics	320003	2
Practical for Forensic Biology, Serology and Genetic Markers	320004	2

Third Semester

Course Title	Course Code	Credit
Forensic Anthropology and Medico-Legal Aspects	310009	4
Fundamentals of Forensic Chemistry and Toxicology	310010	4
Fundamentals of Narcotics and Psychotropic Substance Analysis	310011	4
Laboratory Management System and Research Methodology	310012	4
Optional Elective-III	*******	4
Practical for Forensic Anthropology and Medico-legal Aspects	320005	2
Practical for Forensic Chemistry, Toxicology and Narcotic Substances	320006	2

Fourth Semester

Specialisation - A: Forensic Physical Sciences

Advanced Forensic Physics and Ballistics	310013	4
Advanced Digital and Computer Forensics	310014	4
Optional Elective-IV	*******	4
Practical for Advanced Forensic Physics and Ballistics	320007	2
Practical for Advanced Digital and Computer Forensics	320008	2
Dissertation	320009	8

Specialisation - B: Forensic Biological Sciences

Advanced Forensic Biology	310015	4
Advanced Forensic Serology and Genetic Markers	310016	4
Optional Elective-IV	*******	4
Practical for Advanced Forensic Biology	320010	2
Practical for Advanced Forensic Serology and Genetic Markers	320011	2
Dissertation	320012	8

Fourth Semester

Specialisation - C: Forensic Chemical Sciences

Advanced Forensic Chemistry	310017	4
Advanced Forensic Toxicology, Narcotics and Psychotropic substance	310018	4
Optional Elective-IV	*******	4
Practical for Advanced Forensic Chemistry and Toxicology	320013	2
Practical for Advanced Narcotics and Psychotropic Substance Analysis	320014	2
Dissertation	320015	8

Specialisation - D: Fingerprint and Questioned Document analysis

Advanced Dermatoglyphics Analysis	310019	4
Advanced Questioned Document analysis	310020	4
Optional Elective-IV	*******	4
Practical for Advanced Dermatoglyphics Analysis	320016	2
Practical for Advanced Questioned Document Analysis	320017	2
Dissertation	320018	8

Electives Offered

Course Title	Code	Course Title	Code
Cyber Law and Cyber Forensics	330001	Microbial Forensics	330002
Forensic Engineering	330003	Environmental Forensics	330004
Forensic Accounting	330005	Forensic Nanotechnology	330006
Ergonomics	330007	Forensic Psychology	330008
Forensic Evidence in Criminal Trial	330009	Legal Admissibility of Forensic Evidence	330010

Revised Course Structure of M.Sc. Forensic Science
(from academic session 2024-2025 onwards)

First Semester

Course Title	Course Code	Credit
Introduction to Forensic Science and Criminal Justice System	310001	4
Fundamentals of Fingerprints and Questioned Document analysis	310002	4
Fundamentals of Forensic Ballistics and Explosives	310003	4
Instrumentation Techniques - I	310004	4
Optional Elective-I	*******	4
Practical - I: Crime Scene Investigation and Fingerprint analysis	320001	2
Practical - II: Questioned Document Analysis and Ballistics	320002	2

Second Semester

Course Title	Course Code	Credit
Fundamentals of Forensic Physics	310005	4
Fundamentals of Digital and Computer Forensics	310006	4
Fundamentals of Forensic Serology and DNA Technology	310007	4
Instrumentation Techniques - II	310008	4
Optional Elective-II	*******	4
Practical - III:Forensic Physics, Digital and Computer Forensics	320003	2
Practical - IV: Forensic Serology and DNA Technology	320004	2

Third Semester

Course Title	Course Code	Credit
Forensic Biology and Forensic Anthropology	310009	4
Fundamentals of Forensic Medicine and Toxicology	310010	4
Fundamentals of Forensic Chemistry and Narcotics and Psychotropic Substance Analysis	310011	4
Laboratory Management System and Research Methodology	310012	4
Optional Elective-III	*******	4
Practical - V: Forensic Anthropology and Medico-legal Aspects	320005	2
Practical - VI: Forensic Chemistry, Toxicology and Narcotic Substances	320006	2

Fourth Semester

Specialisation - A: Forensic Physical Sciences (FPS)

Advanced Forensic Physics and Ballistics	310013	4
Audio Recognition and Video Analysis	310014	4
Practical - VII: Advanced Forensic Physics and Ballistics	320007	2
Practical - VIII: Advanced Digital and Computer Forensics	320008	2
Dissertation	320009	12

Specialisation - B: Forensic Biological Sciences (FBS)

Advanced Forensic Biology	310015	4
Advanced Forensic Serology and DNA Technology	310016	4
Practical - VII: Advanced Forensic Biology	320010	2
Practical - VIII: Advanced Forensic Serology and Genetic Markers	320011	2
Dissertation	320012	12

Specialisation - C: Forensic Chemical Sciences (FCS)

Advanced Forensic Chemistry and Drug Analysis	310017	4
Advanced Forensic Toxicology	310018	4
Practical - VII: Advanced Forensic Chemistry and Drug Analysis	320013	2
Practical - VIII: Advanced Forensic Toxicology	320014	2
Dissertation	320015	12

Specialisation - D: Fingerprint and Questioned Document analysis (FPQD)

Advanced Fingerprint Analysis	310019	4
Advanced Questioned Document analysis	310020	4
Practical - VII: Advanced Dermatoglyphics Analysis	320016	2
Practical - VIII: Advanced Questioned Document Analysis	320017	2
Dissertation	320018	12

Specialisation - E: Cyber Forensic and Cyber Security (CFCS)

Advanced Cyber Forensic	310019	4
Cyber Security and Incident Response	310020	4
Practical - VII: Advanced Cyber Forensic	320016	2
Practical - VIII: Cyber Security and Incident Response	320017	2
Dissertation	320018	12

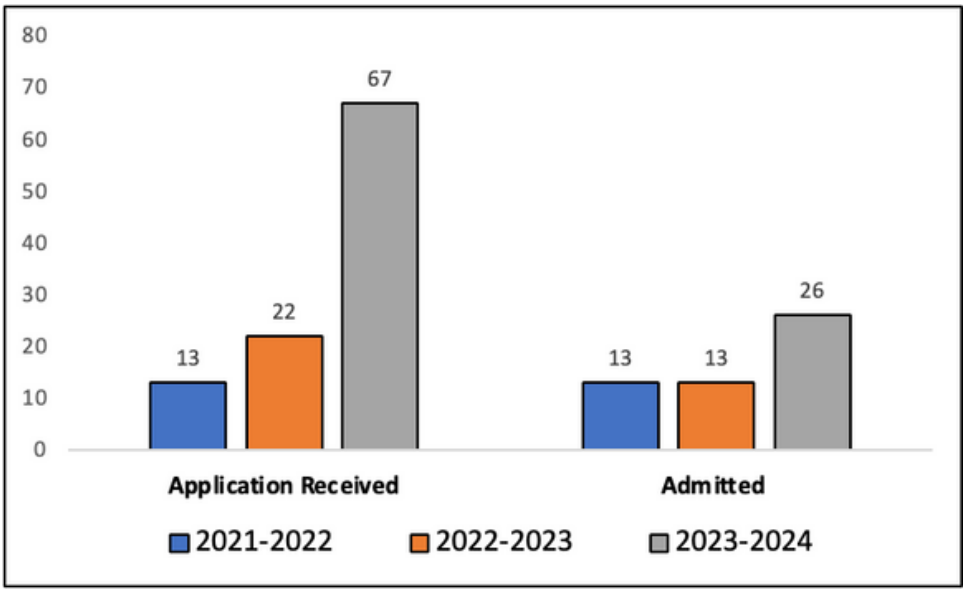
Pool of Electives Offered

Course Title	Semester	Course Title	Semester
• **Forensic Archaeology**	: First	• **Forensic Psychology**	: First
• **Forensic Evidence in Criminal Trial**	: First	• **Scientific Protocols of Fire and Arson Investigation**	: First
• **Cyber Law and Cyber Forensics**	: Second	• **Environmental Forensics**	: Second
• **Criminology and Victimology**	: Second	• **Crime Scene Management**	: Second
• **Microbial Forensics**	: Third	• **Forensic Engineering**	: Third
• **Forensic Nanotechnology**	: Third	• **Humanitarian Forensics**	: Third
• **Intellectual Property Rights**	: Third		

Student Profile of M.Sc. Forensic Science

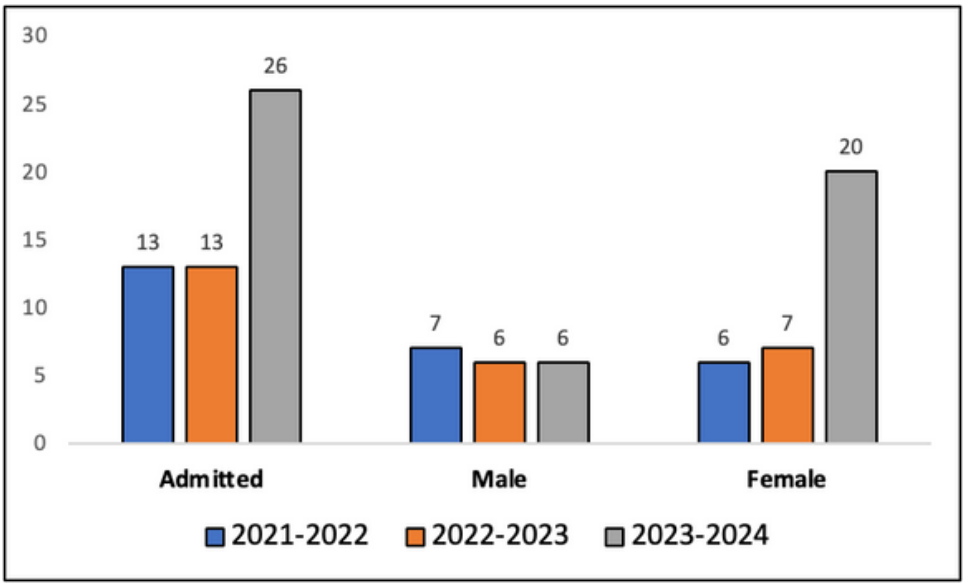
Student Progression

Academic Session	Intake	Applications Received	Admitted Students
2021-2022	30	13	13
2022-2023	30	22	13
2023-2024	30	67	26



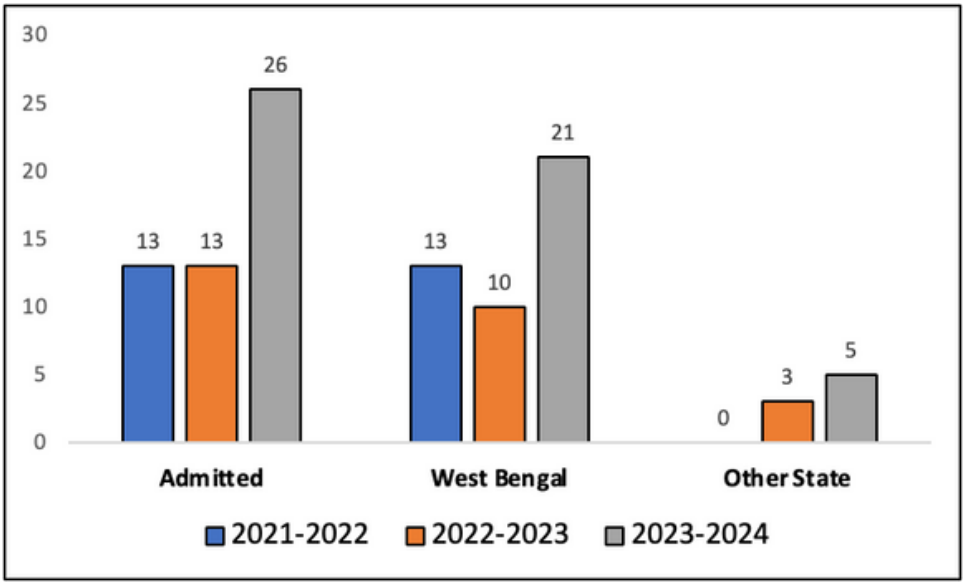
Gender wise distribution

Academic Session	Admitted students	Male	Female
2021-2022	13	07	06
2022-2023	13	06	07
2023-2024	26	06	20



Student Diversity

Academic Session	Admitted students	West Bengal	Other State
2021-2022	13	13	-
2022-2023	13	10	03
2023-2024	26	21	05



② Ph.D. in Forensic Science

About the Programme

Ph.D. in Forensic Science programme prepares students for advanced research and leadership roles in the application of scientific principles to legal investigations. Typically spanning 3-5 years, this program integrates multidisciplinary approaches of natural sciences i.e. chemistry, biology, physics in Forensic Sciences and also exploring more specialized fields like forensic pathology and DNA analysis etc.

The curriculum emphasizes both theoretical knowledge and hands-on experience, often requiring students to conduct original research in areas such as forensic toxicology, criminalistics, and forensic anthropology. Courses cover advanced topics like forensic evidence interpretation, crime scene investigation techniques, and courtroom testimony preparation.

Students collaborate with faculty on cutting-edge research projects, contributing to the development of new forensic methodologies or the improvement of existing techniques. This research often involves practical applications, addressing real-world challenges in crime detection, evidence analysis, and forensic technology development.

Graduate of a Ph.D. in Forensic Science typically pursue careers in academia, research institutions, government agencies (such as the CFSLs or SFSLs), or private industry. They may also serve as expert witnesses in legal proceedings, providing critical analysis and interpretation of forensic evidence.

Admission into these programs is highly competitive, often requiring a strong academic background in science, and a compelling statement of purpose outlining research interests and career goals. Overall, a Ph.D. in Forensic Science equips students with the expertise needed to advance the field through research, innovation, and application of scientific principles to criminal investigations.

General Guidelines for Admission

Eligibility	Intake	Duration	Mode of Admission
Master Degree in Forensic Science from a UGC recognized Universities in India or any other university abroad permitted under the Indian Govt. rules	As per the availability of the seats under recognised Supervisors	As per the WBNUJS Ph.D Regulations 2020	As per WBNUJS Ph.D Regulations 2020

Core Research Area



Forensic Biology



Forensic Genetics



Forensic Chemistry



Forensic Toxicology



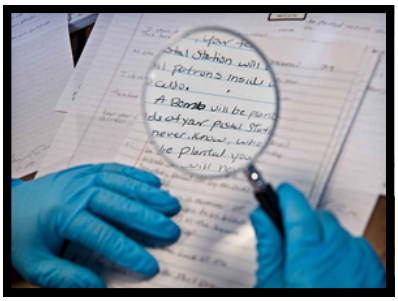
Forensic Ballistics



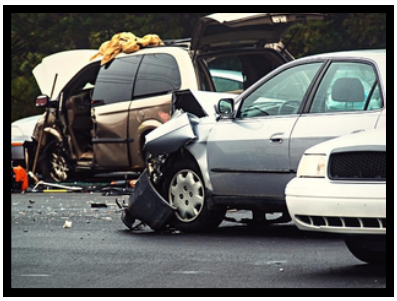
Digital Forensic



Fingerprints



Questioned Documents



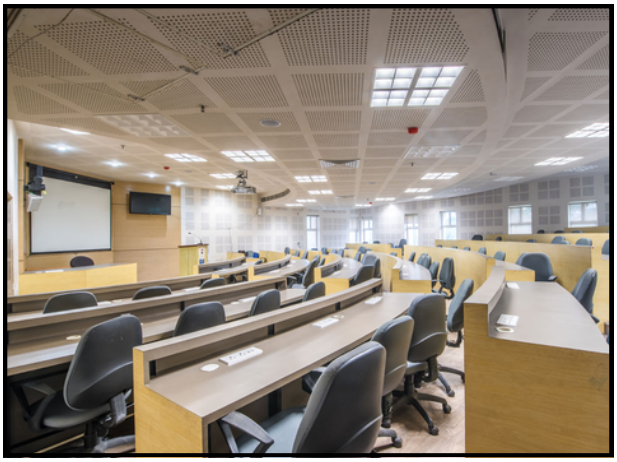
Forensic Physics

Details of Registered Research Scholars

Name of Research Scholar	Qualification	Registration Year	Area of Research
Mr. Vaibhav Kumar	UGC - JRF	2022	Forensic Chemistry
Ms. Ujaala Jain	UGC - NET	2022	Fingerprint
Mr. Shrijoy Banerjee	UGC - JRF	2022	Forensic Genetics
Ms. Deblina Gangopadhyay	UGC - NET	2022	Forensic Chemistry
Mr. Neelesh Tiwari	UGC - NET	2023	Digital Forensic
Mr. Maheep Saxena	UGC - JRF	2023	Digital Forensic
Mr. Shivendra Singh	UGC - NET	2023	Forensic Biology

Infrastructure Facilities

In terms of infrastructure, School of Forensic Science, WBNUJS Kolkata is one of the best institutes in the country matching international standards. It is one of the few colleges in the country which has upgraded classrooms to facilitate teaching through modern tools and techniques. The University has air conditioned classrooms with Wi-Fi enabled system, LCD projectors, tutorial rooms, library, state-of-the-art seminar rooms. The University takes pride in being a differently-abled friendly campus with ramps, lifts and special washrooms added to the building. Also, the University has various facilities to address the reading, hearing and understanding requirements of various students. The WBNUJS library is an empowering unit with a Resource Centre for Visually Challenged possessing an array of audio-visual aids to assist in the process of self actualization. The University provides an eco-friendly environment to its students with the latest initiatives of solar heating, rainwater harvesting, paper recycling and other green initiatives. The College has taken measures to address the need for vigilance and security. The campus is CCTV-enabled to cater to the safety requirements of a well endowed and equipped campus receiving a huge footfall.





Laboratories

Focusing on Practical Knowledge WBNUJS established Forensic laboratory facility that provides controlled conditions in which scientific or technological research, experiments, and measurement are performed. At NUJS we ensure that we provide our students with the best infrastructure and state-of-the-art laboratories that are well-stocked and equipped with the latest technology. The laboratories of NUJS comprising of various certified as well as stabled equipment to meet the academic requirements of the students as per the University guidelines. Augmented experiments are also taught to students on selected areas of specialization which helps the students in doing additional experiments other than the regular curriculum, in which students meet to work on societal problems or make prototypes, working collaboratively or sharing resources.

Institute consisting two Laboratories such as Wet Lab and Dry Lab in which modern furniture installed with updated instruments such as UV Visible Spectrophotometer, Phase Contrast Microscope, Trinocular Microscope, Centrifuge, Water Batch, Fume Hood, Stereo Microscope, Crime Scene Investigation Kits etc. The university is also in process to procure RT-PCR, HPLC, ATR-FTIR and other instruments. The WBNUJS is also focused to develop a state of the art Digital Forensic Lab with the latest software and technology.



UV Visible Spectrophotometer (SHIMADZU)



Centrifuge (REMI)



Oven (REMI)



Water Bath with Shaker (SPAC)



Ultra Modern Fume Hood (Godrej)



Distillation Apparatus (Borosil)



Student during Practical examination



Trinocular Microscope (MAGNUS)

Visit of Eminent Persons/Scientist



Prof. Avinash Chandra Pandey, Director, IUAC, UGC, Delhi and Shri B. Badoniya, Director, CFSL Kolkata present in Orientation Program of M.Sc. Forensic Science



Hon'ble Vice Chancellor WBNUJS welcomed Prof. Avinash Chandra Pandey, Director, IUAC, UGC, Delhi



Prof. Avinash Chandra Pandey interacted with faculties and students of School of Forensic Sciences



Prof. Avinash Chandra Pandey, Director, IUAC, UGC, Delhi delievered his keynote address as Chief Guest of M.Sc. Forensic Science Orientation Program



Head, School of Forensic Science welcomed Dr. Moinak Banerjee, Scientist-G, Rajiv Gandhi Center of Biotechnology, Kerala



Dr. Moinak Banerjee with faculties and students of School of Forensic Sciences



Head, School of Forensic Science felicitated Dr. Adarsh Kumar after his valuable Talk



Hon'ble Vice Chancellor WBNUJS welcomed Prof. Adarsh Kumar, Senior Professor, Department of Forensic Medicine & Toxicology, AIIMS, New Delhi



Hon'ble Vice Chancellor WBNUJS Prof. (Dr.) Nirmal Kanti Chakrabarti welcomed Dr. Ajay Sharma, Director, State Forensic Science Laboratory, Jaipur, Rajasthan



Hon'ble Chief Justice Prakash Shrivastava Calcutta High Court and Hon'ble Vice Chancellor WBNUJS during inauguration of Smart Class Room



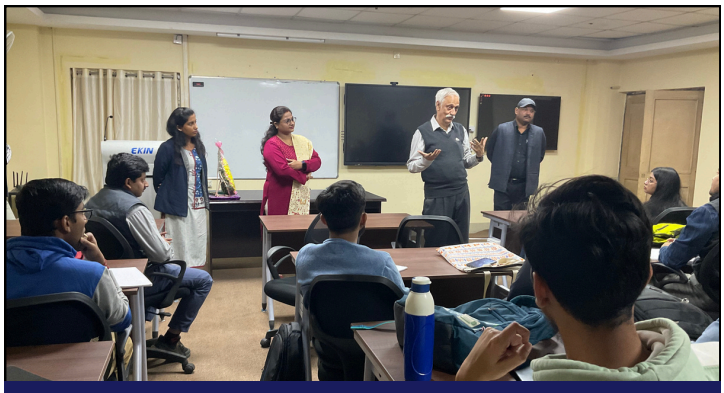
Hon'ble Vice Chancellor WBNUJS Prof. (Dr.) Nirmal Kanti Chakrabarti , Dr. Ajay Sharma, Director, FSL, Jaipur, Rajasthan and Dr. Ankit Srivastava, Head, Forensic Science



Dr. Asha Srivastava, Director, CFSL (CBI), New Delhi and Prof. Arvind Tiwari, Dean, TISS, Mumbai interacted with students of Forensic Sciences



Mr. Amit Kumar, National Cyber Security Advisor visited WBNUJS for interation with Faculties and students



Prof. Alok Srivastava, Senior Professor, Punjab University, Chandigarh interacted with students of Forensic Sciences on different aspects of Nuclear Forensics



Hon'ble Vice Chancellor WBNUJS welcomed Prof. S. Surya Prakash, Hon'ble Vice Chancellor NLU Visakhapatnam as Chief Guest of Inaugural Session of National Seminar



Dr. Meenakshi Mahajan, Director, FSL, Himachal Pradesh visited WBNUJS and interacted with M.Sc. students



Prof. Satish Kumar, Dean, School of Forensic Sciences, NFSU, Gandhinagar interacted with the M.Sc. students



Hon'ble Vice Chancellor WBNUJS Prof. Nirmal Kanti Chakrabarti welcomed the international delegation of Tarlac State University Philippines for ICTFLC-2024



The members of Curriculum Review Committee of M.Sc. Forensic Science Program interacted with Hon'ble Vice Chancellor WBNUJS Prof. (Dr.) Nirmal Kanti Chakrabarti



Dr. Ankit Srivastava, Head, Forensic Sciences briefed about the present curriculum to the the members



Dr. Anil Sharma, Director, CFSL, Guwahati visited WBNUJS Kolkata



Hon'ble Vice Chancellor welcomed and interacted with Shri L. Nato Singh, CFSL Guwahati for the development of Computer Forensics at NUJS

SPECIAL MOMENTS



Hon'ble Vice Chancellor WBNUJS Prof. (Dr.) Nirmal Kanti Chakrabarti praised the students namely Sourajit Bhatta, Soupayan Banerjee, Ritaja Chakrabarti and Sneha Dutta of M.Sc. Forensic Science (Batch 2021-2023) for winning Best Poster award at National Seminar organised by HP University Shimla



Hon'ble Vice Chancellor and Registrar WBNUJS with Sourajit Bhatta, (Batch 2021-2023) NCC Cadet (Air wing) on Independence Day Celebrations



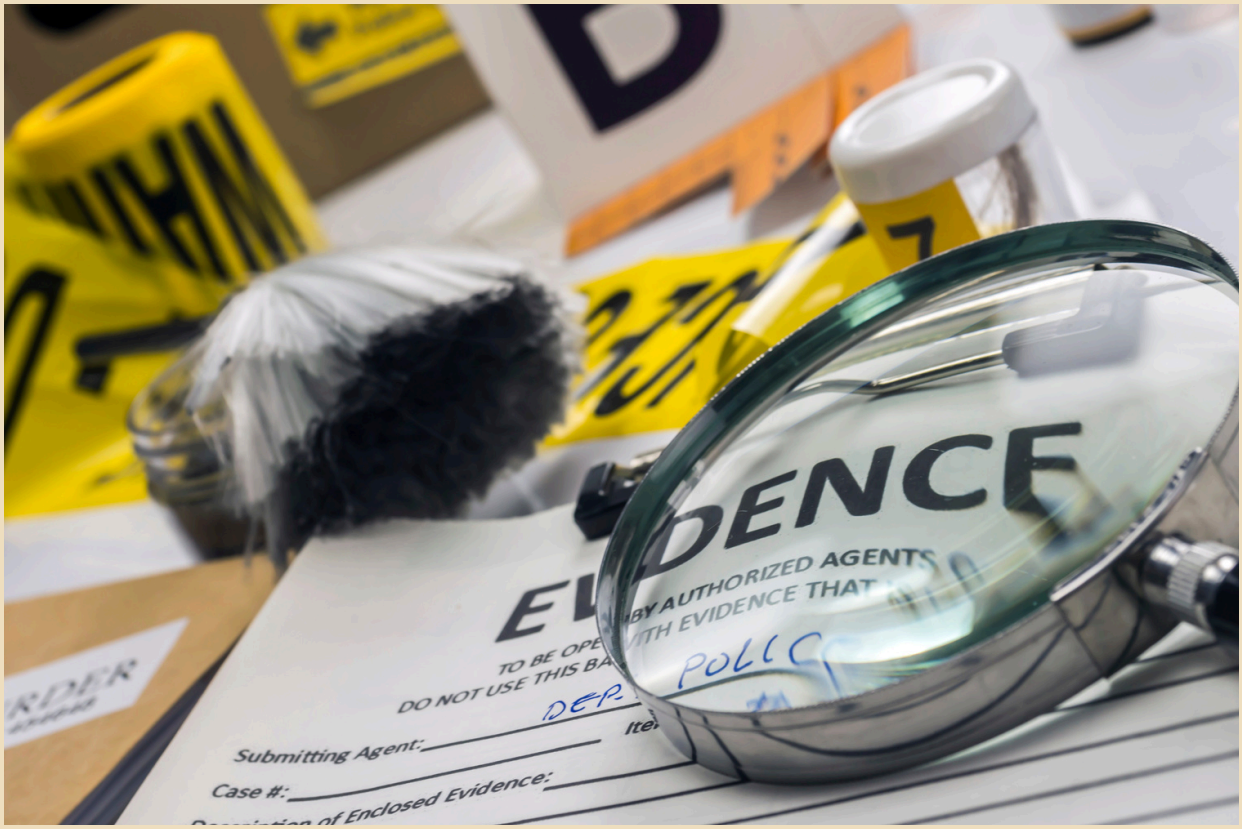
Hon'ble Vice Chancellor WBNUJS Prof. (Dr.) Nirmal Kanti Chakrabarti praised ShudhansuMani Tripathi, student of M.Sc. (Batch 2022-2024) for winning Best Poster award (2nd) at International Conference organised by SIFS India, New Delhi



Hon'ble Vice Chancellor Prof. (Dr.) Nirmal Kanti Chakrabarti and Registrar Raja Chakraborty inaugurate the Brochure of International Conference ICTFLC-2024



Faculties of School of Forensic Science with Hon'ble Vice Chancellor WBNUJS Prof. (Dr.) Nirmal Kanti Chakrabarti and Registrar on Independance Day



ACTIVITIES

2022-2023



A. Conferences/Workshops/Seminars/Invited Lectures organised

S.No.	Type of Event	Title of Event	Dates
1	Webinar	**"Scope of Forensic Sciences"** by **Dr. Ranjeet Kumar Singh**, CEO and Director, Sherlock Institute of Forensic Science (SIFS) India, New Delhi	**24.03.2022**
2	Seminar	National Seminar on "**Forensic Science in Judicial Enforcement - A Way Towards Progressive Justice"**	**06.05.2022 - 07.05.2022**
3	Special Lecture	**"Cyber Forensic in 21st Century: Challenges and Solutions"** by **Mr. Amit Kumar**, Distinguished Visiting Professor, WBNUJS Kolkata	**18.12.2022**
4	Special Lecture	**"Forensic Psychology: Emerging Trends in Criminal Investigation"** by **Dr. Asha Srivastava**, Distinguished Visiting Professor, WBNUJS Kolkata & Director, CFSL (CBI) New Delhi	**20.12.2022**
5	Special Lecture	**"Nuclear Forensics; A 21st Century Approach"** by **Prof. Alok Srivastava**, Senior Professor, Department of Chemistry, Punjab University, Chandigarh	**21.01.2023**
4	Special Lecture	**"Forensic Investigation and Human Rights: A View Point"** by **Prof. Adarsh Kumar**, Professor, All India Institute of Medical Sciences (AIIMS), New Delhi	**28.01.2023**
5	Special Lecture	**"Emerging Domains and Opportunities in Ethics and Forensics"** by **Dr. Moinak Banerjee**, Scientist-G, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala	**14.03.2023**

B. Publications

1. Journals (SCOPUS)

1. **Ankit Srivastava**, Abhimanyu Harshey, **Tanurup Das**, Akash Kumar, Murali Manohar Yadav & Pankaj Shrivastava (2022) "Impact of DNA evidence in criminal justice system: Indian legislative perspectives" Egyptian Journal of Forensic Science, 12, 51. DOI: https://doi.org/10.1186/s41935-022-00309-y

2. R. Aparna, R.Shanti Iyer, **Tanurup Das**, Kapil Sharma, Arun Sharma and **Ankit Srivastava** (2022) "Detection, discrimination and aging of human tears stains using ATR-FTIR spectroscopy for forensic purposes" Forensic Science International: Reports, Volume 6, 100290, DOI: https://doi.org/10.1016/j.fsir.2022.100290

3. Prajjval Pratap Singh, Sunil Kumar Rai, Gyaneshwer Chaubey, Serosurveillance Consortium BHU (**Ankit Srivastava, Tanurup Das**) (2023) "Estimation of real COVID-19 cases in India during the first wave" IJID Regions, Volume 6, Pages 80-83 DOI: https://doi.org/10.1016/j.ijregi.2023.01.008

4. Akash Kumar, **Tanurup Das**, Abhimanyu Harshey, Amit Kumar, Vijay Kumar Yadav, Kapil Dev and **Ankit Srivastava** (2022) "Restoration of mechanically obliterated credentials on High Density Polyethylene surfaces by combination of heat treatment and reagent polishing" International Journal of Medical Toxicology and Legal Medicine, Volume 26, Number 1 and 2, Page No. 204-209, DOI No: 10.5958/0974-4614.2023.00033.5

5. **Ankit Srivastava**, Kaushal Sharma, Atul Kumar Mittal, Kapil Dev (2022) "Assessment of Variations in Pollen profiles of Soil and Cloth Samples from two different regions of Delhi and their comparison with reference data of Bundelkhand Region" Journal of Punjab Academy for Forensic Medicine and Toxicology, Vol. 22 No. 2, Page No. 125-132, DOI:10.5958/0974-083X.2022.00067.X

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6. Das E, Nandy P, Ghosh K, **Sarkar P**, Chatterjee D, Bandyopadhyay Arup R. (2023). "Obesity and Non-communicable Diseases: Estimation of Optimal Obesity Cut-Offs Among Karbi Females of Karbi Anglong District, Assam, North-east India", International Journal of Medical Science and Advanced Clinical Research, 6(3):135-142.

2. Book/Book Chapters

- ·Poonam Moon, Ashish Badiye, Samiksha Landge, Archana Kamble, **Ankit Srivastava** and Neeti Kapoor (2023) "Forensic Applications of Dark Field Microscope" Forensic Microscopy: Truth Under the Lenses, Ed. By Ritesh K Shukla, Neeti Kapoor and Ashish Badiye, CRC Press DOI: 10.4324/9781003120995-16

3. E-Content developed

- ·**Dr. Ankit Srivastava** developed E-Content 'egyankosh' "Unit 10- Recent Trends in Forensic Anthropology" as Unit Writer for Forensic Anthropology Course developed by School of Social Sciences, Indira Gandhi National Open University (IGNOU), New Delhi (2022)

C. Research Projects

- ·**Dr. Tanurup Das**: Co-Principal Investigator in a Research Project (Grant Rs. 8,00,000 only) on "Digital Forensic Practices and Reforms in IT Legal Regime" sanctioned by The W.B. National University of Juridical Sciences Kolkata (Order No. F.No. RP/11/2022 , Dated 08.08.2022)

- **Dr. Ankit Srivastava**: Co-Principal Investigator in a Research Project (Grant Rs. 1,00,000 only) on "Implementation of Preventive Forensic using Cop-Drone" sanctioned by The W.B. National University of Juridical Sciences Kolkata (Order No. F.No. RP/13/2022 , Dated 08.08.2022)

D. Participation in Conferences/Seminar/Workshops/FDP

- **Dr. Ankit Srivastava** delivered a lecture as **Invited Speaker** titled "Forensic DNA Fingerprinting: Challenges and Solutions for Personal Identification" in Capsule Course on Conflict Victim Identification on dated 23 April, 2022 organized by Command Military Dental Centre, Lucknow in association with KGMU, Lucknow.

- **Dr. Ankit Srivastava** participated in 8 days Faculty Development Program on "Emerging Trend in Legal Education" at the The West Bengal National University of Juridical Sciences, Kolkata Dated April 23 - 30, 2022.

- **Dr. Ankit Srivastava** invited as **Jury member** in Poster presentation professional category in the IASR International Conference on Forensic Science dated 25th to 28th August, 2022.

- **Dr. Pranabesh Sarkar** delivered a lecture as resource person on "Effect of PPARG (rs1801282) genetic polymorphism and obesity in T2DM: A study on Bengalee Hindu caste population of West Bengal, India" in the 52nd annual conference of The Indian Anthropological Society and International seminar, entitled, ' Sustainable Development Goals 2030: Role of Anthropology in Social Inclusion and Tribal Development'. held on 22nd to 24th November, 2022.

- **Dr. Ankit Srivastava** participated as **Chair of Technical Session** in National Conference on "Emerging Trends in Digital Crime & Forensics" organized by Himachal Pradesh University, Shimla is association with Regional Forensic Science Laboratory, Dharamshala, H.P. on dated 02nd – 03rd, December, 2022.

- **Ms. Deblina Gangopadhyay** participated and presented a Poster in National Conference on "Emerging Trends in Digital Crime and Forensics" (2nd-3rd December, 2022) organized by Himachal Pradesh University-Shimla on the topic "Preliminary Study of Variations Found in Audios from VOIP Calls".

- **Dr. Bhavya Srivastava** participated in the Faculty Development Program On Spectroscopic and Chromatographic Techniques from April 24th to 28th, 2023 organized by Department of Chemistry in the Collaboration with CSI (Chromatographic Society of India), Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore.

- **Dr. Ankit Srivastava** participated as **Chairperson of Technical Session** in 12th International Conference of Indian Academy of Medicolegal Experts held at NEIGRIHMS, Shillong dated June 01-04, 2023.

- **Dr. Pranabesh Sarkar** participated in the 12th International Conference of the Indian Academy of Medicolegal Experts (IAMLECON 2023) held on 1st to 4th June, 2023 in Shillong, Meghalaya.

E. Achievements and Recognition

- **Sourajit Bhatta, Ritaja Chakraborty, Sneha Dutta and Soupayan Banerjee** students of M.Sc. Forensic Science second Semester (Batch 2021 - 23) presented a paper entitled "IoT in Crime Investigations: An Emerging trend in Digital Forensics" and received **Best Poser Award (2nd)** in Student category at the 'National Conference on Emerging Trends in Digital Crime and Forensics' organised by FSL Himachal Pradesh and Himachal Pradesh University in Shimla on dated December 02-03, 2022.

- **Ms. Deblina Gangopadhyay** Teaching Assistant and Research Scholar presented a paper entitled "Preliminary Study of Variations Found in Audios from VOIP Calls" and received **Best Poster Award (1st)** in the Research Scholar category at the 'National Conference on Emerging Trends in Digital Crime and Forensics' organised by FSL Himachal Pradesh and Himachal Pradesh University in Shimla on dated December 02-03, 2022.

- **Mr. Vaibhav Kumar**, Research Scholar (UGC-JRF) and **Ms. Ujaala Jain**, Research Scholar received prestigious **Dr. Lal ji Singh Travel Award** in the International Scientific Conference "23rd ADNAT- Translating Human Evolutionary Study to Precision Medicine" organised by Banaras Hindu University (BHU), Varanasi on dated March 10-12, 2023.

- **Mr. Shrijoy Banerjee**, Research Scholar received prestigious **Dr. PM Bhargawa Award** in the International Scientific Conference "23rd ADNAT- Translating Human Evolutionary Study to Precision Medicine" organised by Banaras Hindu University (BHU), Varanasi on dated March 10-12, 2023.

- **Mr. Vaibhav Kumar**, Research Scholar (UGC-JRF) presented a paper entitled "A Novel method for Rapid Analysis of Transferred accelerant on Post Burnt Cloth Samples" and received **Best Paper Award (2nd)** in Research Scholar category at the 'National Conference on Recent trends and Advancements in Forensic Science (RTAFS-2023)' organised by Department of Forensic Science, Punjabi University, Patiala, Punjab on dated March 16-18, 2023.

- **Mr. Shrijoy Banerjee**, Research Scholar, School of Forensic Sciences, WBNUJS, Kolkata qualified the prestigious **UGC Junior Research Fellow award** in the national level examination conducted by NTA (University Grants Commission) in the month of June, 2023.

G. Student Training/Visits

Date	Details of Visit
09.05.2022 - 10.05.2022	Students of M.Sc. Forensic Science First Semester (Batch 2021-2023) visited CFSL, Kolkata for the practical
01.09.2022 - 15.09.2022	Students of M.Sc. Forensic Science Second Semester (Batch 2021-2023) visited IISER, Kolkata for the practical Demonstration and Lectures on Instrumentation techniques
10.11.2022 - 11.11.2022	Students of M.Sc. Forensic Science Second Semester (Batch 2021-2023) visited Department of Anthropology, Calcutta University for the practical
14.11.2022 - 17.11.2022	Students of M.Sc. Forensic Science Second Semester (Batch 2021-2023) visited CFSL, Kolkata for the practical
16.01.2023 to 21.01.2023	Students of M.Sc. Forensic Science First Semester (Batch 2022-2024) visited IISER, Kolkata for the practical Demonstration and Lectures on Instrumentation techniques
27.03.2023 to 08.04.2023	Students of M.Sc. Forensic Science Third Semester and Second Semester (Batch 2021-2023 and Batch 2022-2024) visited CFSL, Kolkata for the practical
03.05.2023 - 04.05.2023	Students of M.Sc. Forensic Science Third Semester (Batch 2021-2023) visited Department of Anthropology, Calcutta University for the practical
20.05.2023 - 30.05.2023	Students of M.Sc. Forensic Science Second Semester (Batch 2022-2024) visited IISER, Kolkata for the practical Demonstration and Lectures on Instrumentation techniques
26.06.2023 - 07.07.2023	Students of M.Sc. Forensic Science Second Semester (Batch 2022-2024) visited Central Forensic Science Laboratory, Kolkata for the practical

GLIMPSES OF STUDENTS ACADEMIC VISIT















GLIMPSES OF NATIONAL SEMINAR ON FORENSIC SCIENCE IN JUDICIAL ENFORCEMENT: A WAY TOWARDS PROGRESSIVE JUSTICE

May 06-07, 2022











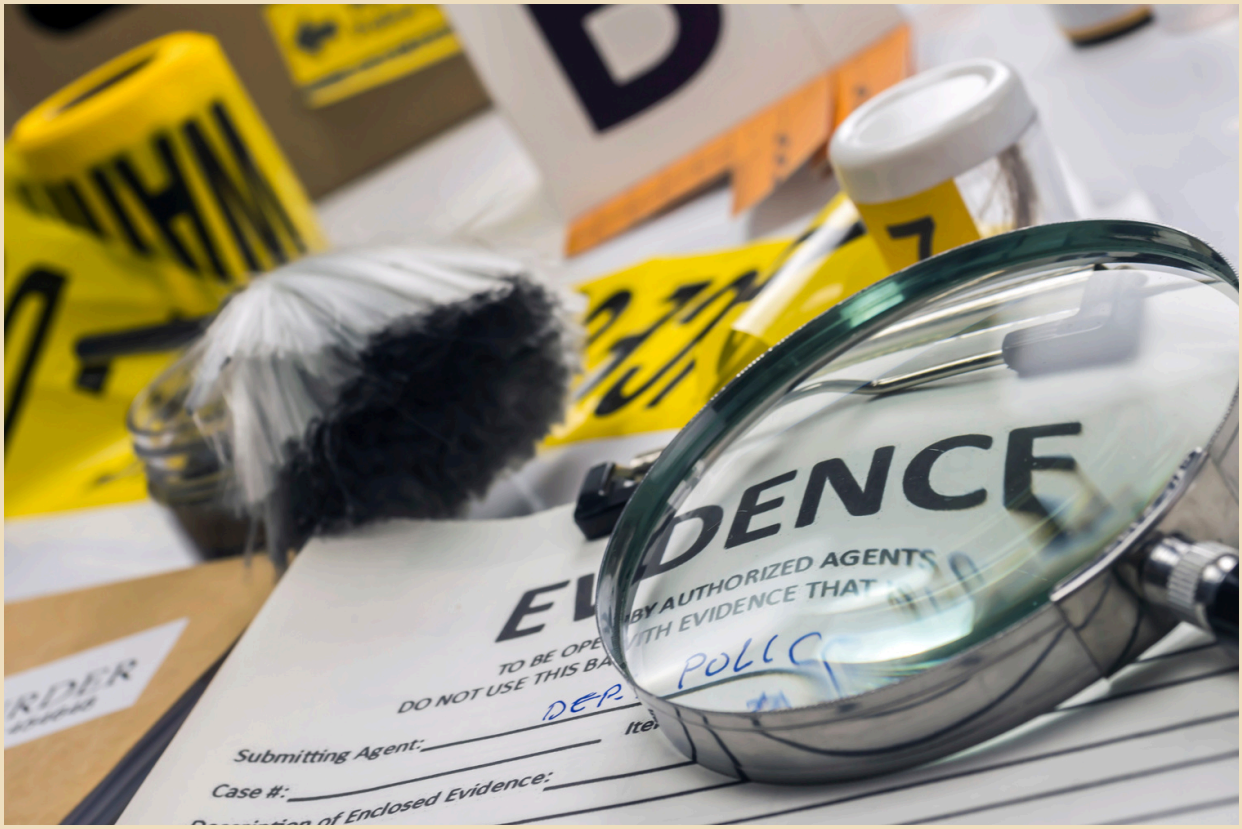

THE WEST BENGAL NATIONAL UNIVERSITY OF JURIDICAL SCIENCES
SCHOOL OF FORENSIC SCIENCES
1st National Seminar on
FORENSIC SCIENCE IN JUDICIAL ENFORCEMENT:
A Way Towards Progressive Justice








THE WEST BENGAL NATIONAL UNIVERSITY OF JURIDICAL SCIENCES
SCHOOL OF FORENSIC SCIENCES
1st National Seminar on



ACTIVITIES

2023-2024



A. Conferences/Workshops/Seminars/Invited Lectures organised

S.No.	Type of Event	Title of Event	Dates
1	Webinar	**"Forensics and Beyond: The Convergence of Science and Technology in Criminal Analysis"** by **Dr. Nawab John Dar**, Scientist, Salk Institute of Biological Sciences, USA	**02.09.2023**
2	Special Lecture	**"Recent Advancements and Challenges in Forensic Questioned Document Examination"** by **Dr. Ajay Sharma**, Director, FSL Rajasthan & Dist. Visiting Professor, WBNUJS	**16.09.2023**
3	Special Lecture	**"Application of Science and Technology in Legal Studies"** National Science Day Celebrations, Keynote Speaker: Prof. Adarsh Kumar, AIIMS, New Delhi	**28.02.2024**
4	International Conference	**"Trends in Forensics, Law and Criminology: Empowering Criminal Justice in 21st Century and Beyond"** sponsored by ICSSR, New Delhi and DST, Govt. of India	**20.03.2024 - 22.03.2024**
5	Special Lecture	**"Cyber vis a vis Digital Forensics"** by **Dr. Meenakshi Mahajan**, Director, Directorate of Forensic Science Services, Govt. of Himachal Pradesh	**09.05.2024**

B. Publications

1. Journals (SCOPUS)

- Narayan Singh, Deepanshu Singh, Kapil Dev, Atul Kumar Mittal and **Ankit Srivastava** (2023) "Anti-Forensics: Tool Against Cyber Forensics", Journal of Forensic Medicine Science and Law, Vol. 32 (1), Page No. 68 – 73, DOI: https://doi.org/10.1007/s10404-023-02674-z

- Abhimanyu Harshey, Alok Kumar, Akash Kumar, **Tanurup Das**, Kriti Nigam and **Ankit Srivastava** (2023) "Focusing the intervention of paper-based microfluidic devices for the forensic investigative purposes", Microfluidics and Nanofluidics, Vol. 27: 65, Page No. 1 – 19, DOI: https://doi.org/10.1007/s10404-023-02674-z

- Abhimanyu Harshey, Kailash Singh Negi, Sughosh Abhyankar, **Tanurup Das**, Md. Alim and **Ankit Srivastava** (2023) "Forensic investigation of fracture pattern on automobile laminated glass windshields made by mechanically propelled projectile", Glass Structures & Engineering, Page No. 1-11, DOI: https://doi.org/10.1007/s40940-023-00222-3

- Megha Agrawal, Murali Manohar Yadav, Abhimanyu Harshey, **Ankit Srivastava**, and Vijay Kumar Yadav (2023) "A study of External Ear Morphological Variation in Central Indian Population for Genealogical Purposes", Arab Journal of Forensic Sciences and Forensic Medicine, Volume 5 Issue 1, Page No. 31-42 DOI: 10.26735/KEXU1412

- Hansda, B., Mishra, S., Ghosh, A., Das, B., Biswas, T., Mondal, T. K., **Srivastava, B.**, Mondal, S., Roy, D. and Mandal, B. (2024) "Chemically Bonded Pepsin via Its Inert Center to Diazo Functionalized Silica Gel through Multipoint Attachment Mode: A Way of Restoring Biocatalytic Sustainability over "Wider pH" Range" Langmuir, 40(4), 2146-2164 DOI: 10.1021/acs.langmuir.3c03113

2. Book/Book Chapters

2.1 BookPublished (International Publisher)

- Pankaj Shrivastava, Jose Antonio Lorente, **Ankit Srivastava**, Ashish Badiye, Neeti Kapoor (eds.) (2023) "Textbook of Forensic Science". Springer Nature, Singapore [ISBN No.- 978-981-99-1376-3]

2.2 Book Chapters

- Mishra, J., Mishra, S., **Srivastava, A.**, Pandey, K.A. (2023) "Legal Aspects of Forensic Science: A Bird's Eye View", In: Shrivastava, P., Lorente, J.A., Srivastava, A., Badiye, A., Kapoor, N.(eds.) Textbook of Forensic Science, Springer Nature, Singapore, [ISBN No.- 978-981-99-1376-3] https://doi.org/10.1007/978-981-99-1377-0_4

- Ammal, A., Yadav, V.K.., Nigam, K., **Srivastava, A.** (2023) "Instruments and Techniques in Forensic Science", In: Shrivastava, P., Lorente, J.A., Srivastava, A., Badiye, A., Kapoor, N. (eds.) Textbook of Forensic Science, Springer Nature, Singapore, [ISBN No.- 978-981-99-1376-3] https://doi.org/10.1007/978-981-99-1377-0_5

- Harshey, A., **Das, T.**, Mishra, V., Shukla, R.K., **Srivastava, A.** (2023) "Essentials of Forensic Physics", In: Shrivastava, P., Lorente, J.A., Srivastava, A., Badiye, A., Kapoor, N. (eds.) Textbook of Forensic Science, Springer Nature, Singapore, [ISBN No.- 978-981-99-1376-3] https://doi.org/10.1007/978-981-99-1377-0_14

- Pandey, P.K. Harshey, A., Yadav, M.M., **Srivastava, A.** (2023) "Essentials of Forensic Ballistics", In: Shrivastava, P., Lorente, J.A., Srivastava, A., Badiye, A., Kapoor, N. (eds.) Textbook of Forensic Science, Springer Nature, Singapore, [ISBN No.- 978-981-99-1376-3] https://doi.org/10.1007/978-981-99-1377-0_15

- Alim, M., **Das, T.**, Yadav, V.K.., Dev, K., **Srivastava, A.**, Nigam, K. (2023) "Road Accident Investigation", In: Shrivastava, P., Lorente, J.A., Srivastava, A., Badiye, A., Kapoor, N. (eds.) Textbook of Forensic Science, Springer Nature, Singapore, [ISBN No.- 978-981-99-1376-3] https://doi.org/10.1007/978-981-99-1377-0_16

- Kushwaha, P., Rana, M., Singh, R., Kumawat, R.K., **Srivastava, A.**, Shrivastava, P. (2023) "Forensic Biology", In: Shrivastava, P., Lorente, J.A., Srivastava, A., Badiye, A., Kapoor, N. (eds.) Textbook of Forensic Science, Springer Nature, Singapore, [ISBN No.- 978-981-99-1376-3] https://doi.org/10.1007/978-981-99-1377-0_17

- Rana, M., Shrivastava, P., **Srivastava, A.**, Kushwaha, P., Kumawat, R.K. (2023) "Forensic Serology", In: Shrivastava, P., Lorente, J.A., Srivastava, A., Badiye, A., Kapoor, N. (eds.) Textbook of Forensic Science, Springer Nature, Singapore, [ISBN No.- 978-981-99-1376-3] https://doi.org/10.1007/978-981-99-1377-0_18

- Panda, M., Sharma, K., Sharna, A.N., Shrivastava, P., **Srivastava, A.** (2023) "Forensic Anthropology", In: Shrivastava, P., Lorente, J.A., Srivastava, A., Badiye, A., Kapoor, N. (eds.) Textbook of Forensic Science, Springer Nature, Singapore, [ISBN No.- 978-981-99-1376-3] https://doi.org/10.1007/978-981-99-1377-0_21

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- Tiwari, N., Baroniya, Y., Bharadwaj, V., Kumar, A., **Srivastava, A.** (2023) "Cyber and Digital Forensics", In: Shrivastava, P., Lorente, J.A., Srivastava, A., Badiye, A., Kapoor, N. (eds.) Textbook of Forensic Science, Springer Nature, Singapore, [ISBN No.- 978-981-99-1376-3] https://doi.org/10.1007/978-981-99-1377-0_25

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C. Participation of Faculties in Conferences/Seminar/Workshops/FDP

- **Dr. Bhavya Srivastava** participated in One-week Faculty Development Programme on Quantiative and Statistcal Research Methods organized by IQAC, WBNUJS from 30th June to 5th July, 2023

- **Dr. Tanurup Das** participated in One-week Faculty Development Programme on Quantiative and Statistcal Research Methods organized by IQAC, WBNUJS from 30th June to 5th July, 2023

- **Dr. Bhavya Srivastava** participated in a One Day National Faculty Development Program Under CRIKC For Allied Health Professionals on organized by Department of Medical Lab Science, University School of Allied Health Sciences, RBU Mohali on 21st , July 2023.

- **Dr Ankit Srivastava** invited as **Resource Person** and delivered a lecture on date August 25, 2023, entitled "Forensic Ballistics, Weapons and Other Materials" in Six Day hands-on Workshop in "Forensic Anthropology" organized by the Department of Anthropology, University of Calcutta, Dated August 24 - September 01, 2023.

- **Dr Bhavya Srivastava** invited as **Resource Person** and delivered a lecture on date August 25, 2023, entitled "Forensic cases and method study" in Six Day hands-on Workshop in "Forensic Anthropology" organized by the Department of Anthropology, University of Calcutta, Dated August 24 - September 01, 2023.

- **Dr. Pranabesh Sarkar** delivered lecture as an invited speaker on "DNA and Personal Identification." Six-day hands on workshop on Forensic Anthropology organized by Department of Anthropology, University of Calcutta held on 24th August- 1 st September 2023.

- **Dr. Ankit Srivastava, Dr. Bhavya Srivastava and Dr. Tanurup Das** invited as **Resource Person** and delivered various lectures on different aspect of Forensic Science to the Cadets Sis (UB) & (AB) at Swami Vivekananda State Police Academy, Barrackpore, West Bengal in the month of September 2023.

- **Dr. Ankit Srivastava** invited as **Keynote Speaker** and delivered a lecture on date September 20, 2023, entitled "Forensic Science in Criminal Justice System: Past, Present and Future" at National Conference-Forensic Find 2K23 organized by Centurion University of Technology and Management, Vizianagaram Dated September 20-21, 2023.

- **Dr. Bhavya Srivastava** participated in 3rd Seven Days Faculty Development Program on "Current Trends in Forensic Science Education & Career Goals" from 18 Dec to 26 Dec 2023 organized by Amity Institute of Forensic Sciences at Amity University, Uttar Pradesh.

- **Dr. Bhavya Srivastava** participated in One Day Skill Development Program on Essentials of Patents organized by Innovative Technology Enabling Center - InTEC, CSIR Institute of Minerals and Material Technology (IMMT), Bhubaneswar on March 06, 2024.

- **Dr. Tanurup Da**s invited as Resource Person and delivered online invited talk on date August 28, 2023 on "AI and ML in Forensic Investigation: Current Trends and Way Forward" in the Webinar on AI and ML in Forensic Investigation: Current Trends and Way Forward, organized by Jaipur National University, Jaipur, Rajasthan.

- **Dr. Tanurup Das** invited as Resource Person and delivered invited talk on date September 12, 2023 on "Artificial Intelligence & Machine Learning in Animal Species Identification: State of the art and way forward" in the Workshop on 'Artificial intelligence in livestock farming', organized by Indian Council of Agricultural Research-National Dairy Research Institute (ICAR-NDRI), Kalyani.

- **Dr. Tanurup Das** invited as Resource Person and delivered Online invited lecture on date December 09, 2023 on "Artificial Intelligence in Forensic Science" in the Event titled. "Nexus is Technology and Justice: AI in Forensic Science", organized by C.A.S.E (Cases Analysis Society for Excellence and Exploration).

- **Dr. Bhavya Srivastava** delivered an invited lecture as Invited Speaker on "Empowering Women, Eradicating Violence Against Women: A Call to Action" in National Conference on "Women Empowerment For Sustainable Future" March 7, 2024 organised by Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore (India).

- **Dr. Tanurup Das** invited as Resource Person and delivered invited lecture on date April 10, 2024 on "Physical to Virtual: An Insight towards the Scientific investigation of crime against women and cybercrimes" in Lecture Series on New Criminal Laws" organized by Indian Institute of Science, Education and Research (IISER), Kalyani.

- **Dr. Ankit Srivastava** invited as a **Resource Person** and delivered a lecture on date May 15, 2024, entitled "Forensic Science: Key to Present and Future" in the Faculty Development Program on "Crime, Law and Justice: An Interdisciplinary Perspective" conducted by Rajiv Gandhi School of Intellectual Property Law, Indian Institute of Technology, Kharagpur dated May 11-17, 2024.

- **Dr. Ankit Srivastava** invited as a **Resource Person** and delivered a lecture on date June 20, 2024, entitled "Forensic Science and Evidence - Role in Criminal Justice System" in the Value Added Course on "Emerging Dimensions in the Field of Law" conducted by Department of Law, DDU Gorakhpur University, Gorakhpur, U.P. dated June 20-29, 2024.

D. Achievements and Recognition

- **Dr. Ankit Srivastava** conferred **Forensic Excellence Award** for outstanding contribution in the field of Forensic Sciences at International conference organized by SIFS India and Clue4Evidence Forensic Lab dated December 01-03, 2023.

- **Dr. Tanurup Das**, Assistant Professor presented a paper entitled "Estimation of Time Since Deposition of Body Fluids: An Exploration Towards the Limitations of Locard's Principle of Exchange" and received Best Paper Award (1st) in the Paper presentation category (Professionals) at the '4th International Forensic Science Conference' organised by SIFS India and Clue4Evidence Forensic Lab at New Delhi on dated December 01-03, 2023.

- **Ms. Deblina Gangopadhyay** participated and presented a Poster at National Symposium on "Advancements in Forensic Science and Impediments" AFSI-2023, organised by NFSU, Delhi on "Culinary Sherlock: Investigating Trends in the Art of Food Adulteration Detection" and achieved the Third Position.

- **Shudhansu Mani Tripathi**, student M.Sc. Forensic Science (Batch 2022-2024) presented a paper entitled "Elevating Environmental Forensics: Biosensor and chemical sensors through Interdisciplinary Synergy" and received **Best Poster Award (2nd)** in the Poster presentation category (student) at the '4th International Forensic Science Conference' organised by SIFS India and Clue4Evidence Forensic Lab at New Delhi on dated December 01-03, 2023.

- **Sourajit Bhatta** and **Ritaja Chakraborty** (Batch 2021-2023) placed in State Forensic Science Laboratory, Rajasthan as Forensic Scientific Assistant in DNA Division in March 2024.

- Total **Nine Students** of M.Sc. Forensic Science i.e. **Vedatri Bhattacharya**, **Swapnendu Mukherjee**, **Shaikat Maji** (Batch 2021-2023) and **Aditya Ansh**, **Sarojit Das**, **Sutirtha Bhattacharya**, **Sukanya Sasmal**, **Sambhawi Raj**, **Himansu Sharma** (Batch 2022-2024) qualified **National level FACT exam** for placement in different CFSLs/FSLs conducted by NFSU in June 2023.

E. Student Training/Visits

Date	Details of Visit
04.09.2023 - 15.09.2023	Students of M.Sc. Forensic Science Fourth Semester and Third Semester (Batch 2021-2023 and Batch 2022-2024) visited CFSL, Kolkata for the practical
03.10.2023 - 31.10.2023	Students of M.Sc. Forensic Science Third Semester (Batch 2022-2024) attached in CFSL, Kolkata; BSIP Lucknow; FSL Delhi ; RFSL Dharamshala and FSL Goa for their internships
20.11.2023 - 08.12.2023	Students of M.Sc. Forensic Science First Semester (Batch 2023-2025) visited Central Forensic Science Laboratory, Kolkata for the practical
26.12.2023 - 28.12.2023	Students of M.Sc. Forensic Science Third Semester (Batch 2022-2024) visited Department of Anthropology, Calcutta University for the practical
20.02.2024 - 19.04.2024	The pass out Students of M.Sc. Forensic Science Fourth Semester (Batch 2021-2023) attached in CFSL, Kolkata; CFSL Guwahati and FSL Delhi for internships
13.05.2024 - 30.05.2024	Students of M.Sc. Forensic Science Second Semester (Batch 2023-2025) visited CFSL, Kolkata for the practical
03.06.2024 - 14.06.2024	Students of M.Sc. Forensic Science Second Semester (Batch 2023-2025) visited IISER, Kolkata for the practical Demonstration and Lectures on Instrumentation techniques
11.06.2024	Students of M.Sc. Forensic Science Fourth Semester (Batch 2022-2024) visited CFSL, Kolkata for the practical

GLIMPSES OF STUDENTS ACADEMIC VISIT





















Glimpses of International Conference on Trends in Forensic Law & Criminology

March 20-22, 2024

Sponsored By: ICSSR, New Delhi and DST, Govt. of India











Hon'ble Vice Chancellor WBNUJS Prof. (Dr.) Nirmal Kanti Chakrabarti welcomed Hon'ble Justice Ashim Kumar Roy, Lokayukta, West Bengal and Chief Guest of Inaugural Session of the International Conference

Inaugural Session of International Conference

TECHNICAL SESSIONS









TECHNICAL SESSIONS











Hon'ble Vice Chancellor WBNUJS Prof. (Dr.) Nirmal Kanti Chakrabarti welcomed Dr. Deepa Verma, Director, FSL, Delhi Chief Guest of Valedictory Session of the International Conference ICTFLC-2024







Valedictory Session of International Conference

Alumni speaks



Sourajit Bhatta

Batch: 2021-2023

FORENSIC SCIENTIFIC ASSISTANT DNA DIV. FSL, JODHPUR

"My experience at WBNUJS for M.Sc. Forensic Science program was amazing. The support from the faculty, and all the staff of WBNUJS was invaluable. The forensic laboratory exposure provided by the university as hands-on experience in different cutting-edge technologies and instrumentation, was par excellence. As a budding educational institute in the academic domain of Forensic Science, WBNUJS has shown promising efforts towards the overall development of students and transform us all into sutainable workforce in the realm of law enforcement."



Ritaja Chakrabarti

Batch: 2021-2023

FORENSIC SCIENTIFIC ASSISTANT DNA DIV. FSL, JODHPUR

"Academically, the university excelled in providing a robust curriculum that balanced theoretical knowledge with practical application. I am eternally grateful to faculties for their guidance in my studies. Whether in lectures, seminars, or practical workshops, I found myself challenged to think deeper and expand my intellectual horizons. Beyond the classroom, the college offered a plethora of opportunities for personal growth and development. In my opinion, WBNUJS is going to become one of the upcoming desirable destination for students who wants to pursue state-of-the-art educational facility in Forensic Science"



Soupayan Banerjee

Batch: 2021-2023

RESEARCH INTERN CSIR-CCMB, HYDERABAD

"During my study at NUJS which I experienced significant academic and personal growth. The rigorous curriculum and diverse course offerings provided a comprehensive understanding of forensic science with my specialization being in Genetics, allowing me to delve deeply into both theoretical concepts and practical applications. And my research skills were sharpened while I worked closely with esteemed faculty members, and was able to gain valuable insights into the scientific studies.I would like to express my gratitude to the Vice Chancellor of WBNUJS and the faculty of Forensic Science for their invaluable assistance in fostering my academic growth."



CONTACT US

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