



**Shri Guru Ram Rai Institute of Medical & Health Sciences
College of Nursing**

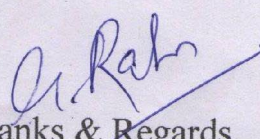
Patel Nagar, Dehradun - 248 001

Ref.No: SGRRU/CON/2025/ - 843

Date: 27/02/2025

**NOTIFICATION FOR VISIT FORENSIC SCIENCE
LABORATORY**

This is to inform you that SGRRIM & HS College of Nursing B.Sc. Nursing & M.Sc. Nursing Students (2024-25 batch) is planning to visit **FORENSIC SCIENCE LABORATORY, PANDITWARI, DEHRADUN** on 27 & 28 February 2025 as a part of their curriculum.


Thanks & Regards,
Dean, Nursing
Principal
College of Nursing
S.G.R.B.I.M.H.S.
Patel Nagar, Dehradun



SHRI GURU RAM RAI INSTITUTE OF MEDICAL & HEALTH SCIENCES
COLLEGE OF NURSING

Patel Nagar, Dehradun - 248 001

Ref No.: SGRIM&HS/CON/2025/ - 3107

Date: 13/02/2025

To,
The Director
Forensic Science Laboratory
Panditwari, Dehradun

Sub: Permission to visit forensic Science laboratory - Regarding

Respected Sir,

This is to kind information that Shri Guru Ram Rai institute of Medical & Health Sciences, College of Nursing, Patel Nagar, Dehradun runs ANM, GNM, under graduates and Post Graduate Nursing programme. As per Indian Nursing Council curriculum, the students required to visit to your forensic science Lab. We feel it will be fulfill that the students with academic background have glimpse of lab in order to have a better appreciation of practical applications of theory. Hereby I request you to kindly permit our nursing students to your forensic Lab.

S.No.	Course	No. of Students	Date
1	Basic B.Sc. (N) 5 th Semester	106	28-02-2025
2	M.Sc. Nursing 1 st Year	23	
3	M.Sc. Nursing 2 nd Year	13	

I will be very thankful to you for permitting our students to visit the forensic Lab.

Thanking You.



(Handwritten Signature)
Principal

(Dr. G. Ramalakshmi)

Principal
College of Nursing
S.G.R.R.I.M.H.S.
Patel Nagar, Dehradun

SGRRU, SGRRIM&HS COLLEGE OF NURISNG



PATEL NAGAR, DEHRADUN

FORENSIC SCIENCE LAB VISIT REPORT

Date of Visit: 27/02/2025 & 28/02/2025

Location: Forensic Science Lab 19, Chakrata Rd, near Police Chauwki, Phase 2, Panditwari, Dehradun, Uttarakhand 248007

Participants: M.Sc. Nursing I & II Year, B.Sc. Nursing Vth Semester

Faculty Incharge:

- Dr. Pomari. K
- Prof. Dineshwori
- Mrs. D.Roalind Beulah
- Mrs. Rachel
- Mrs. Shivani
- Ms. Anjali

As a part of our nursing curriculum, we have visited Forensic Science Laboratory (FSL) in Dehradun on 27.02.2025 & 28.02.2025 with the guidance of our faculty members. We welcomed by our Forensic scientist Dr. S.K. Sharma, Joint Director, FSL-Uttarakhand and Dr. M.K.Agrawal, Dy.Director, FSL-Uttarakhand. By following this our Respected dean Prof. Dr. G. Ramalakshmi were given token of love by momentum and gift to Forensic scientist.

The Forensic Science Laboratory (FSL) in Dehradun, Uttarakhand, serves as a pivotal institution in the realm of criminal investigations, providing scientific analysis of evidence to aid the justice system. This report encapsulates the insights and knowledge gained during our visit to the FSL, Dehradun, highlighting its various divisions, methodologies, and contributions to forensic science.

A forensic science laboratory (FSL) plays a crucial role in crime investigations by analyzing evidence scientifically to aid in the administration of justice. This report presents a detailed account of our visit to a forensic science laboratory, covering the various divisions, techniques, and real-life case studies demonstrated during the visit.

The visit provided an opportunity to observe forensic experts in action, understand the scientific methods used in criminal investigations, and explore how forensic science contributes to law enforcement and legal proceedings.

Objectives of the Visit

The main objectives of our visit to the forensic science laboratory were:

- ❖ To understand the functioning of a forensic science laboratory.
- ❖ To observe forensic techniques used in crime investigations.
- ❖ To interact with forensic experts and learn about their roles.
- ❖ To analyze the significance of forensic science in criminal justice.
- ❖ To study real-life case applications of forensic analysis.

Overview of Forensic Science

Forensic science is the application of scientific principles to solve crimes. It involves the collection, preservation, and examination of evidence to establish facts in legal cases. It includes multiple branches, such as toxicology, ballistics, fingerprint analysis, digital forensics, and DNA profiling.

The forensic laboratory is equipped with state-of-the-art instruments that help experts analyze different types of evidence, including biological samples, chemical substances, firearms, and electronic data.

Forensic Science Laboratory

The forensic science laboratory we visited was a government facility catering to various law enforcement agencies. It consisted of multiple specialized divisions handling different types of forensic investigations.

The lab was well-organized, with strict security and contamination-control protocols to ensure the integrity of evidence. We were guided through the facility by forensic scientists who explained their work and demonstrated various techniques used in forensic analysis.

Departments in the Forensic Science Laboratory

i. Biology and Serology Division

This division deals with the analysis of biological fluids such as blood, semen, saliva, and other bodily secretions. Techniques such as blood grouping, enzyme analysis, and immunoassays are used to establish connections between suspects, victims, and crime scenes.

We observed the forensic experts demonstrating how they detect blood stains using chemical reagents such as luminol and Kastle-Meyer tests.

ii. DNA Analysis Unit

DNA profiling is one of the most critical tools in forensic investigations. This unit extracts and analyzes DNA from various biological samples to identify individuals. Polymerase Chain Reaction (PCR) and Short Tandem Repeat (STR) analysis are commonly used techniques.

A forensic scientist demonstrated how DNA is extracted, amplified, and compared using electrophoresis techniques.

iii. Toxicology Division

This department analyzes poisons, drugs, alcohol, and other chemical substances in biological samples. It plays a vital role in cases of poisoning, drug overdose, and substance abuse.

Gas Chromatography-Mass Spectrometry (GC-MS) and High-Performance Liquid Chromatography (HPLC) are commonly used techniques to identify toxic substances.

iv. Ballistics and Firearms Division

Ballistics experts examine firearms, bullets, and cartridge cases to determine their origin and match them with weapons used in crimes. They study firing mechanisms, gunshot residues, and bullet trajectories.

We observed the use of comparison microscopes to match bullets and test-fire weapons.

v. Questioned Documents Examination

This department examines disputed documents, including forged signatures, counterfeit currency, and handwriting analysis. Techniques such as ultraviolet (UV) light examination, electrostatic detection, and ink analysis are used.

A forensic document examiner showed us how handwriting comparisons are performed using digital magnification.

vi. Fingerprint Analysis

Fingerprint identification remains one of the oldest and most reliable forensic methods. Experts use techniques like powder dusting, cyanoacrylate fuming, and Automated Fingerprint Identification Systems (AFIS) to compare prints.

We witnessed how latent fingerprints are developed using ninhydrin and fingerprint powders.

vii. Cyber Forensics

This division deals with digital evidence, including data retrieval from computers, mobile phones, and other electronic devices. Cyber forensic experts investigate hacking, cyber fraud, and data breaches.

A demonstration of how deleted data is recovered from hard drives was particularly intriguing.

viii. Forensic Psychology and Polygraph Examination

Forensic psychologists study behavioral aspects of suspects, conduct criminal profiling, and administer polygraph (lie detector) tests to detect deception.

We observed a polygraph test demonstration, where physiological responses such as heart rate and respiration were measured.

ix. Crime Scene Investigation

Crime scene experts are responsible for collecting and preserving evidence from crime scenes. Techniques like blood spatter analysis, footprint analysis, and evidence packaging were demonstrated during our visit.

x. Case Studies and Demonstrations

During our visit, we were presented with real-life case studies where forensic science played a key role in solving crimes.

- ❖ A homicide case where DNA evidence linked the suspect to the crime scene.
- ❖ A drug case where forensic toxicology identified narcotic substances in a suspect's blood.
- ❖ A cybercrime case involving digital forensics to track fraudulent financial transactions.

Each case study demonstrated the accuracy and reliability of forensic science in crime investigations.

Interaction with Forensic Experts

We had the opportunity to interact with forensic scientists and learn about their experiences, challenges, and the impact of their work. They shared insights on:

- ❖ The importance of proper evidence collection.
- ❖ The challenges of contamination and chain of custody.
- ❖ The role of forensic testimony in court proceedings.

Importance of Forensic Science in Criminal Justice

Forensic science provides scientific evidence that helps law enforcement agencies solve crimes. It aids in:

- ❖ Identifying suspects and victims.
- ❖ Establishing timelines and sequences of events.
- ❖ Ensuring fair trials by providing objective evidence.

Challenges Faced in Forensic Investigations

Despite its importance, forensic science faces challenges such as:

- ❖ Backlogs in forensic labs due to a high volume of cases.
- ❖ Contamination risks affecting evidence integrity.
- ❖ Technological advancements making cybercrimes harder to trace.

Ethical Considerations in Forensic Science

Forensic scientists must maintain objectivity, confidentiality, and integrity. Ethical concerns include:

- ❖ Avoiding bias in forensic examinations.
- ❖ Ensuring the accuracy of reports and testimonies.
- ❖ Adhering to legal and scientific standards.

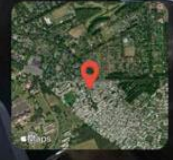
Conclusion

The forensic science laboratory visit was an enlightening experience, providing valuable insights into the scientific techniques used in crime investigations. It highlighted the crucial role forensic experts play in the criminal justice system and reinforced the importance of accuracy, ethics, and technological advancements in forensic science. We have completed our visit with giving thanks to forensic scientist.





GPS Map Camera



Handow Road, IMA, Dehradun, Uttarakhand
248007, India
Lat 30.332852, Long 77.987937
02/28/2025 10:54 AM GMT+05:30
Note : Captured by GPS Map Camera



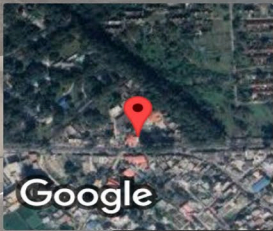
GPS Map Camera



Dehradun, Uttarakhand, India
823c+67q, Niranjapur, Dehradun, Uttarakhand
248121, India
Lat 30.303069° Long 78.02072°
28/02/25 11:02 AM GMT +05:30



 **GPS Map Camera**



Google

Dehradun, Uttarakhand, India


19, Chakrata Rd, Phase 2, Panditwari, Dehradun, Uttarakhand 248007, India

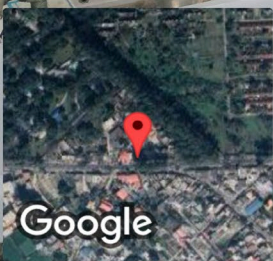
Lat 30.332814°

Long 77.987623°

27/02/25 12:30 PM GMT +05:30



 **GPS Map Camera**



Google

Dehradun, Uttarakhand, India

19, Chakrata Rd, Phase 2, Panditwari, Dehradun, Uttarakhand 248007, India

Lat 30.332747°

Long 77.987741°

27/02/25 11:42 AM GMT +05:30



GPS Map Camera



Handow Road, IMA, Dehradun, Uttarakhand
248007, India
Lat 30.332745, Long 77.987979
02/28/2025 11:35 AM GMT+05:30
Note : Captured by GPS Map Camera



GPS Map Camera



Chakrata Road, IMA, Dehradun, Uttarakhand
248007, India
Lat 30.332507, Long 77.987977
02/28/2025 11:35 AM GMT+05:30
Note : Captured by GPS Map Camera

ATTENDANCE SHEET

**SGRRU, SGRRIM&HS COLLEGE OF NURSING
PATEL NAGAR, DEHRADUN
FORENSIC SCIENCE LAB VISIT ON 27/02/2025**

S.NO	NAME OF THE STUDENT	SIGNATURE
1	AMIT SINGH	Amit
2	SAMUEL DAS	Samuel
3	JYOTI MISHRA	Jyoti
4	VAISHALI THAPA	Vaishali
5	SAMEEKSHA PANWAR	Sameeksha
6	SHIVANI KUMAYAN	Shivani
7	KARISHMA THAPA	Karishma
8	MAHIMA SHARMA	Mahima
9	PRATI KSHA CHAUHAN	Pratiksha
10	SAIFALI NEGI	Saifali
11	GOURAV KUMAR	Gourav
12	TANU PANDEY	Tanu
13	SAPNA CHOUDHARY	Sapna
14	ANJALI POKHRIYAL	Anjali
15	ANJU RANA	Anju
16	ANUPRIYA	Anupriya
17	ARCHANA BADIYARI	Archana
18	ASWATHY.K DAS	Aswathy
19	GARIMA DEV	Garima
20	KAMALJEET KAUR	Kamaljeet
21	LAXMI BUTOLA	Laxmi
22	MADHURI KAPHALIA	Madhuri
23	MENUKA RAI	Menuka
24	NEELAM CHETTRI	Neelam
25	OSHI DOGRA	Oshi
26	RIYA DAWAN	Riya
27	RIYA NEGI	Riya
28	SHALINI GAUR	Shalini Gaur
29	SHANTANU THAPA	Shantanu
30	SHIVANI CHAUHAN	Shivani
31	SHIVANI VERMA	Shivani
32	SHWETA	Shweta
33	SMIRTI	Smirti
34	SURBHI RAYAL	Surbhi
35	TANISHA KHATTRI	Tanisha
36	YOGITA BISHT	Yogita
37	ABHISHEK PANWAR	Abhishek
38	ABID ALI	Abid
39	ADITI SILORA	Aditi
40	AISHWARYA RANA	Aishwarya
41	ANANTA GURUNG	Ananta
42	ANJALI	Anjali
43	ANJALI	Anjali
44	ANJALI KUMARI	Anjali
45	ANJALI NEGI	Anjali
46	ANJALY SIJO	Anjali

**SGRRU, SGRRIM&HS COLLEGE OF NURSING
 PATEL NAGAR, DEHRADUN
 FORENSIC SCIENCE LAB VISIT ON 28/02/2025**

S.NO	NAME OF THE STUDENT	SIGNATURE
1	ANKITA AMOLI	
2	ANKITA ANAND	Ankita
3	ANKUR DESHWAL	
4	ANSHIKA RAJ	Anshika
5	ANUSHKA RAJPUT	Anushka
6	ANUSHKA BISHT	Anushka
7	APOORVA SINDHU	Apoorva
8	ARUSHI	Arushi
9	ASTHA GRACE	Astha
10	ASTHA KUKRETI	Astha
11	AASTHA RAWAT	Aastha
12	AYUSH BISHT	Ayush
13	AYUSHI DANGWAL	Ayushi
14	BADAL SINGH	Badal
15	BHAVNA GUPTA	Bhavna
16	BHAWNA DEVI	Bhawna
17	CHANDA	Chanda
18	CHETNA KALAKOTI	Chetna
19	CHHAYA BISHT	Chhaya
20	DECHEN WANGMO	Dechen
21	DEEPIKA RAWAT	Deepika
22	DIVYA	Divya
23	DIYA	Diya
24	DIYA BISHT	Diya
25	DIYA LODHIYAL	Diya
26	DURGESH CHAMOLI	Durgesh
27	GARIMA KATHAIT	Garima
28	GARIMA RAWAT	Garima
29	HANSIKA BISHT	Hansika
30	HIMANI RANA	Himani
31	HIMANSHI PANWAR	Himanshi
32	HIMANSHU JOSHI	Himanshu
33	ISHA UNIYAL	Isha
34	Itika Kattal	Itika
35	JAHNAVI PANWAR	Jahnavi
36	KAJAL KUMARI	Kajal
37	KAMINI	Kamini
38	KANIKA	Kanika
39	KANISHKA BHATT	Kanishka
40	KAPIL UNIYAL	Kapil
41	KESHAV KISHOR	Keshav
42	KHUSHI	Khushi
43	KHUSHI	Khushi
44	KHUSHI	Khushi
45	KHUSHI CHAUHAN	Khushi
46	KHUSHI GIRI	Khushi

47	KUSUM PANWAR	Kusum
48	KUSUM RANA	Kusum
49	MAHAK SUYAL	Mahak
50	MAHEK ALE	Mahek
51	MANISHA	Manisha
52	MANSI RATURI	Mansi
53	MIRANDA NINGOMBAM	Miranda
54	MOHIT BISHT	Mohit
55	MUSKAAN	Muskaan
56	NAINA ADHIKARI	Naina
57	NAYAN SINGH KANDWAL	Nayan
58	NEHA	Neha
59	NIKITA	Nikita
60	NIKITA RAWAT	Nikita
61	PALLAVI SINGH	Pallavi
62	POOJA BHARDWAJ	Pooja
63	POORNIMA	Poornima
64	PRIYA PANWAR	Priya
65	PRIYA RAWAT	Priya
66	PRIYA SAINI	Priya
67	PRIYANSHI KANSWAL	Priyanshi
68	PRIYANSHU NAUTIYAL	Priyanshu
69	RAZIA WARSI	Razia
70	RENU DEVI	Renu
71	RUDRAKSHI CHAUHAN	Rudrakshi
72	SAIJAL WILLIAM	Saijal
73	SALONI	Saloni
74	SAMRIDHI MINGWAL	Samridhi
75	SAUMYA WARTI	Saumya
76	SHAILIKSHA RAWAT	Shailiksha
77	SHAMANAZ	Shamanaz
78	SHIVANI BHAGAT	Shivani
79	SHREYA BISHT	Shreya
80	SHREYA MALETHA	Shreya
81	SHUBHDEEP KAUR	Shubhdeep
82	SIMRAN	Simran
83	SIMRAN GOSAI	Simran
84	SITA	Sita
85	SIYA PANGOTRA	Siya
86	SONAL THAPA	Sonal
87	SONIKA	Sonika
88	TANUJA KUMARI	Tanuja
89	TENZIN DHASEL	Tenzin
90	TENZIN KELSANG	Tenzin
91	TENZIN LODUP	Tenzin
92	TENZIN THINLEY	Tenzin
93	TENZIN YANGKYI	Tenzin
94	UZMA NAAZ	Uzma
95	VAISHNAVI JAKHMOLA	Vaishnavi
96	YASHITA	Yashita