Best Practices

#1 Title of the Practice:

• National Seminar on Forensic Science on the occasion of National Science Day

Objectives of the Practice:

- To acquaint the students with various important aspects and issues related to Forensic Science.
- To celebrate and commemorate National Science Day
- To promote participation of stakeholders from various Colleges, Institute, Universities and Organizations in the field to encourage collaboration.
- Zero usage of Paper for the entire event thus making it environmentally friendly and sustainable.

The Context: The National Seminar on Forensic Science and the celebration of National Science Day both play vital roles in promoting scientific awareness, research, and development, especially in the context of forensic science:

- Platform for Knowledge Sharing
- Advancement of Forensic Techniques: By discussing advancements in forensic science, such seminars contribute to improving the accuracy and reliability of evidence used in the criminal justice system.
- **Fosters collaboration** between experts from various fields, helping to develop more effective solutions for forensic investigations.
- **Capacity Building**: The seminar help build the capacity of students, educators, and professionals in the field of forensic science. This contributes to enhancing skills and staying updated with global standards and practices.
- Celebration of Science and Scientific Contribution
- Promotion of Scientific Temper
- **Encouragement for Young Scientists**: National Science Day events inspire students and young scientists to pursue careers in science and technology.
- **Public Engagement and Science Communication**: On this day, schools, colleges, and research institutions organize exhibitions, lectures, and interactive sessions to engage the public in scientific topics. This helps demystify scientific concepts and makes science more accessible to non-experts.

The Practice:

A one-day National Seminar on Forensic Science was organised on occasion of National Science Day 2022 and in celebration of 75 glorious years of Independence (Azadi ka Amrit Mahotsav) by the IQAC Cell and Department of Forensic Science, Government Institute of Forensic Science, Nagpur on 28th Feb 2022 from 10:30 am to 4:00 pm in Hybrid Mode.

The session began as per the Schedule. Dr. Ashish Badiye welcomed the participants and the speakers. This was followed by the National Anthem. Following this, Dr. Badiye read the brief profile of the Institute and invited Dr. Atram for the welcome address. Dr. Ramdas Atram addressed the gathering and showered his blessings. Ms. Hansi Bansal introduced the speakers.

The first session was held on **Forensic Toxicology and Drugs of Abuse**. The resource person for the session was Dr. Vinod Dhingra, Senior Scientific Officer, Regional Forensic Science

Laboratory, Gwalior, Madhya Pradesh. He enlightened the audience with his vast experience in the field of over 22 years. He discussed the various classifications of Poisons and also elaborated on several case studies that he had solved using scientific methods and techniques of Forensic Science.

The second session was held on an important topic **Intellectual Property Rights**. Mr. Mangesh Mokashi, Assistant Controller of Patents & Designs, Patent Office, Mumbai was the resource person. He emphasized on the principle "Protect then Publish" vs "Publish and Perish". He also explained in detail about the patent filing process and the timeline thereof. He also explained about Geographical Indication with the help of animated video.

The third session was held on **Crime Scene Investigation: The Practical Aspect** in which Dr. Harsh Sharma, (Retired) Director, State Forensic Science Laboratory, Sagar, Madhya Pradesh was the resource person. He enthralled the participants with the various challenging case studies that he had help solve with his field experience of over 38 years and over 4500 cases. The participants enjoyed the sessions and were left amused, as was evident from the feedback received. Dr. Badiye delivered the vote of thanks for the Seminar

Evidence of Success:

- Over 600 participants of more than 40 institutes, colleges, universities and organisations registered for the program from across India.
- The feedback received from the participants was wonderful and motivating.

Problems encountered and resources required:

- The COVID-19 pandemic itself was the biggest problem in holding a offline event of such large scale. However, this problem was countered by organizing the seminar in Hybrid mode which didn't require the participants from various parts of the country to travel. They could participate and attend the sessions online from the safety of their homes.
- Funding is often an important issue and drawback. However, this seminar was organised with zero funding and no participation fees.
- The carbon footprint of this event was also minimal.
- The seminar was practically and effectively "**Paperless**" thus eco-friendly (as the Invitation, Brochures, Certificates, Letters everything was in electronic form.



GOVERNMENT INSTITUTE OF FORENSIC SCIENCE, NAGPUR IQAC Cell & Department of Forensic Science Organizes One day National Seminar (Hybrid Mode)

One-day National Seminar (Hybrid Mode)

CELEBRATING NATIONAL SCIENCE DAY

On 28.02.2022, 10:30 am to 04:00 pm

<u>Report</u>

A one-day National Seminar on Forensic Science was organised on occasion of National Science Day 2022 and in celebration of 75 glorious years of Independence (Azadi ka Amrit Mahotsav) by the IQAC Cell and Department of Forensic Science, Government Institute of Forensic Science, Nagpur on 28th Feb 2022 from 10:30 am to 4:00 pm.

Dr. Ramdas Atram, Director, Government Institute of Forensic Science, Nagpur was the **Chairperson** for the seminar. **Dr. Ashish Badiye**, HOD & Assistant Professor (Department of Forensic Science) was the **Program Coordinator** and **Ms. Hansi Bansal**, Asst. Professor (Dept. of Forensic Science) was the **Program Co-coordinator**.

Over 600 participants of more than 40 institutes, colleges, universities and organisations registered for the program from across India. The session began as per the Schedule. Dr. Ashish Badiye welcomed the participants and the speakers. This was followed by the National Anthem. Following this, Dr. Badiye read the brief profile of the Institute and invited Dr. Atram for the welcome address. Dr. Ramdas Atram addressed the gathering and showered his blessings. Ms. Hansi Bansal introduced the speakers.

The first session was held on Forensic Toxicology and Drugs of Abuse. The resource person for the session was Dr. Vinod Dhingra, Senior Scientific Officer, Regional Forensic Science Laboratory, Gwalior, Madhya Pradesh. He enlightened the audience with his vast experience in the field of over 22 years. He discussed the various classifications of Poisons and also elaborated on several case studies that he had solved using scientific methods and techniques of Forensic Science.

The second session was held on an important topic Intellectual Property Rights. Mr. Mangesh Mokashi, Assistant Controller of Patents & Designs, Patent Office, Mumbai was the resource person. He emphasized on the principle "Protect then Publish" vs "Publish and Perish". He also explained in detail about the patent filing process and the timeline thereof. He also explained about Geographical Indication with the help of animated video.

The third session was held on **Crime Scene Investigation: The Practical Aspect** in which **Dr. Harsh Sharma, (Retired) Director, State Forensic Science Laboratory, Sagar, Madhya Pradesh** was the **resource person**. He enthralled the participants with the various challenging case studies that he had help solve with his field experience of over **38 years** and over **4500 cases**. The participants enjoyed the sessions and were left amused, as was evident from the feedback received. **Dr. Badiye** delivered the **vote of thanks for the Seminar**.

Program Coordinator Dr. Ashish Badiye HOD & Asst. Professor Dept. of Forensic Science Government Institute of Forensic Science Nagpur

Chairperson Dr. Ramdas Atram Director Government Institute of Forensic Science Nagpur

Azadi Ka GOVERNM	ENT INSTITUTE OF FORENSIC SCIEN	CE. NAGPUR	
Amrit Mahotsav	IQAC Cell & Department of Forensic Science Organizes	Receiving the second	
Limited Seats on	e-day National Seminar (Hybrid M BRATING NATIONAL SCIEN(on 28.02.2022		
Online Platform: ZOOM Crime S	10:30 am to 04:00 pm cene Investigation: The Practic Speaker Dr. Harsh Sharma Ex-Director	al Aspect	
Intellectual Property Rights Speaker Shri Mangesh Mokashi Assistant Controller of Patents & Designs Mechanical Group Patent Office, Mumbai	State Forensic Science Laboratory Sagar, Madhya Pradesh Chairperson	Forensic Toxicology Speaker Dr. Vinod Dhingra Senior Scientific Officer Regional Forensic Science Laboratory, Gwalior	
	Dr. Ramdas Atram Director Govt. Institute of Forensic Science Nagpur		
Program Co-coordinator N.S. Hansi Bansal Asst. Professor Dept. of Forensic Science Govt. Institute of Forensic Science Nagpur		Program Coordinator Dr. Ashish Badiye d of the Dept. & Asst. Professor Dept. of Forensic Science t. Institute of Forensic Science,	
Registration Form Link: https://forms.gle/W9StZCFoXWojtZ4t9	For further details: Contac	Nagpur t Dr. Ashish Badiye at ; +91-7387490889; <u>ashishbadiye@ifscnagpur.in</u> .	Technical Partner: SIFS New Delhi

Program Schedule

10.15 c m 10.25 c m	Entry of the Doutining on to in the Consign				
10:15 a.m 10:35 a.m.	Entry of the Participants in the Session				
10:40 a.m.	Welcome of the participants				
	National Anthem				
10:45 a.m. – 10:55 a.m.	Welcome Address by				
	Dr. Ramdas G. Atram, Director, GIFS Nagpur				
10:55 a.m. – 11:00 a.m.	Introduction of Resource Person				
11:00 a.m. – 12:30 p.m.	Dr. Vinod Dhingra				
	"Forensic Toxicology"				
12:30p.m 12:35 p.m.	Introduction of Resource Person				
12:35p.m. – 2:00 p.m.	Shri Mangesh Mokashi				
	"Intellectual Property Rights"				
2:00 p.m. – 2:05 p.m.	Introduction of Resource Person				
2:05 p.m. – 4:00 p.m.	Dr. Harsh Sharma				
	"Crime Scene Investigation: The Practical Aspect"				
	Vote of Thanks				

Topic: One Day National Seminar | Celebrating National Science Day

Join Zoom Meeting

https://us02web.zoom.us/j/84136901287?pwd=MDNVNGhnaXdsdzNYVzg2MkU0U1Rsdz09

Meeting ID: 841 3690 1287 Passcode: 991966

* Certificates will be issued only to the registered participants who attend all the three sessions and submit the feedback form within time. The feedback form link will be shared online during the session and would be open for a limited time. **The certificate would be shared within 10 days at the registered email id.**

Screenshots





	Recording				01:03:22 🏼 View	~	Participants (228)		
						QF	nd a participant		
	Dr. Ashish Badiy	SIFS India	Hansi Bansal	R g atram	K SWARNAAMB	DA	Dr. Ashish Bad (Co-host, me)	• 🎉	726
Vinod Dhingra	🔏 Dr. Ashish Badiye HOD &		🗶 Hansi Bansal	🥂 R g atram	🔏 K SWARNAAMBIGAA UR	SI	SIFS India (Host)	• 1/4	(26
						VD	Vinod Dhingra (Co-host)	₽	
URK20FS1024 P	Priscilla Alex	Sakshi Dayma	mrunal kapgate	Sejal's M21	IYESWARYA UR	DN	Dr. Neeti Kapoor (Co-host)	Ste	1726
URK20FS1024 POOVIKA, K	Priscilla Alex	🔏 Sakshi Dayma	🦹 mrunal kapgate	发 Sejal's M21	🔏 IYESWARYA URK21FS1009	нв	Hansi Bansal (Co-host)	h	(₁₂₆
Purwaja Gawande	Abhishek gupta	surajsingh kush	Vaishnavi Sardar	Samiksha Landge	Jagdish rathod	RG	R g atram (Co-host)	Ste	r (726
🖌 waja Gawande	🔏 Abhishek gupta	🔏 surajsingh kushwaha	🕷 Vaishnavi Sardar	🖉 Samiksha Landqe	🔏 Jaqdish rathod	AJ	Aakansha jogekar	X	1726
	2404				1/7	A	Aanchal	Ste	1 126
7 FC225934 R. Ka	Tayyiba Fazal	JENSY JOSE .A	DEETSHANYA A	Rutuja Kelaskar	Akash Goodwin	AB	Abhaya Bhople	X	i pati
🖡 FC225934 R. Kayathri	🔏 Tayyiba Fazal	🔏 JENSY JOSE .A	🔏 DEETSHANYA A URK21FS	🔏 Rutuja Kelaskar	🔏 Akash Goodwin M	AK	ABHIRAMI K Raj	Ste	1 24
						AG	Abhishek gupta	X	r jzati
Sachin Rao	Christy	ROHIT KUMHA	Prabuddha Hel	Devyani Godbole	Gayathri Jayasa		achal mundane		1726
Sachin Rao	🔏 Christy	🔏 ROHIT KUMHAREY	🔏 Prabuddha Helode	🔏 Devyani Godbole	🔏 Gayathri Jayasankar			1	
						AG	Adithya G		120
Anil kadam	SIMRAN PATEL	Kaveri Kotgale	Sakshi Fulke	Dr. Rajendra Pra	GAURAV SAKH	AS	Aditya Suryawanshi	She	((2A)
🖌 Anil kadam		🔏 Kaveri Kotgale	🕺 Sakshi Fulke	发 Dr. Rajendra Prasad Pawar	发 GAURAV SAKHARE	AA	Adv.kshama A.Dharmapuriwar	X	(126
¥ ~ 🗖 ^	÷ .	,228 ^ 🗭 🧧	• •	e ::	··· Leave		Invite Mute All	100	



	IONTIMESOF SOME COMMON ABLISE IN URINE*	- = = =
DRUGS	DURATION OF DETECTION IN URINE	Dr. Ashish Badiy
		🗶 Dr. Ashish Badiye HOD & Asst. Pro
Alcohol	up to 1 day	
Amphetamines (including MDMA, MDA)	1-3 days	
Barbiturates	1-3 days	Vined Dhingra
Benzodiazepines	1-3 days	
Camabis	upto 14 days	SIFS India
Cocaine	1-3 days	🖉 SIFS India
Cadeine	1-2 days	A SUS INCID
Cydizine	1-2 days	K SWARNAAMB
Dihydrocodeine	1-2 days	
Herain (marphine)	up to 1 day	🌋 K SWARNAAMBIGAA URK20FSTO
Methecone	1-3 days	
6-MAM	up to 1 day	URK20FS1024 P



Recording Origina								
	Hansi Bansal 🏌 Hansi Bansal	Dr. Ashish Badiy X Dr. Ashish Badiye HOD	MANGESH MOKASHI	🌋 Dr. Ashish Badiye	SIFS India X SIFS India	URK20FS1024 P	Priscilla Alex Priscilla Alex	
	mrunal kapgate	IYESWARYA UR	surajsingh kush	Jagdish rathod	Rutuja Kelaskar	Akash Goodwin	Sachin Rao	
	发 mrunal kapgate	🔏 IYESWARYA URK21FS	🔏 surajsingh kushwaha	发 Jagdish rathod	🔏 Rutuja Kelaskar	🔏 Akash Goodwin M	🔏 Sachin Rao	
	Christy	Devyani Godbole	Gayathri Jayasa	SIMRAN PATEL	Kaveri Kotgale	Dr. Rajendra Pra	GAURAV SAKH	
	🕺 Christy	🔏 Devyani Godbole	🔏 Gayathri Jayasankar	🔏 SIMRAN PATEL	🔏 Kaveri Kotgale	🔏 Dr. Rajendra Prasad Pa	🔏 GAURAV SAKHARE	
	Srujani Walaval X Srujani Walavalkar	Kamayani Vajpa X Kamayani Vajpayee	Soundharya.T	Siddhi Tanpure X Siddhi Tanpure	Shweta Bansod	Preeti shinde	Rona	
	POONAM MOON	SHAILESH Chau	Tanu Padole	Nandini Ghike	Sanasam Piba	Shruti Lende	Dr. Neeti Kapoor	
	🕺 POONAM MOON	🔏 SHAILESH Chaubey	🔏 Tanu Padole	🔏 Nandini Ghike	🔏 Sanasam Piba Meitei	🔏 Shruti Lende	🚀 Dr. Neeti Kapoor	
	Sumisha Seelam	Vaishnavi Katak	Dhanashri Raut	Arghya Mishra	Tejal Desai	Vikas Rathod	Rengaraj Ranjan	
	🌋 Sumisha Seelam	发 Vaishnavi Katakwar	发 Dhanashri Raut	发 Arghya Mishra	🔏 Tejal Desai	🚀 Vikas Rathod	发 Rengaraj Ranjan	
	AVINASH INGOLE	Pratiksha kaware	Divya jain	Pooja Sakhare	Rahul Darunde	PRAVAT KUMA	Neha Bawaskar	
		🔏 Pratiksha kaware	🔏 Divya jain	🗶 Pooja Sakhare			发 Neha Bawaskar	
· - 📈 ·		•	🚉 ²¹² 🔺 🔎	^	::	😅 ເງ 💀		









#2 Title of the Practice:

• Celebration of science and technology, fostering public engagement and awareness of scientific advancements in the Society regarding Forensic Science

Objectives of the Practice:

- To showcase forensic science and its practical applications to a broad audience.
- To engage with the public and raise awareness of forensic science's role in solving crimes.
- To demonstrate various forensic techniques, models, and crime scene investigation processes.
- To establish the Government Institute of Forensic Science (GIFS), Nagpur as a leader in forensic education and research.

The Context:

The week-long "Vigyan Sarvatra Pujyate" Science Exhibition Fest was held at Visvesvaraya National Institute of Technology (VNIT), Nagpur from February 22 to 28, 2022, in collaboration with Vigyan Bharati Vidarbha Pradesh Mandal under the guidance of the Principal Scientific Adviser (PSA) and Ministry of Culture, Government of India. The event aimed to celebrate science across various domains and featured stalls from prestigious institutions such as NEERI, ISRO, DRDO, Indian Railways, and many others. Over 20,000 visitors attended the exhibition, making it a significant platform for scientific outreach.

The Practice:

The GIFS stall demonstrated various aspects of forensic science through models, posters, and practical demonstrations, including:

- Fingerprint analysis and its use in criminal identification.
- Handwriting analysis for forensic document examination.
- Security features of currency notes, stamp papers, and bank cheques, explaining how these are authenticated.
- Displays and discussions on road accidents, unnatural deaths, and cyber crimes.
- Live **crime scene investigation** (CSI) demonstrations, allowing visitors to witness real-life forensic procedures for different crime themes.

Evidence of Success:

GIFS Nagpur was awarded the Best Performance Award in the Academic and Research Institution category. The award was presented by Hon'ble Shri Nitin Gadkari, Minister of Road Transport and Highways of India, in recognition of their outstanding performance in the exhibition. This prestigious honor reflected the institute's innovative presentation and successful engagement with the public, helping to demystify forensic science for the general population. The success of the exhibit was evident in the large number of visitors who were captivated by the forensic demonstrations, with significant interest in crime scene investigation techniques. The interactive nature of the exhibit and the relevance of forensic science in solving real-world crimes drew considerable attention from visitors, contributing to its selection as the top academic display.

Problems Encountered and Resources Required:

Challenges in Preparation: Preparing an exhibit that combined both academic depth and public engagement was a challenge. The team had to design demonstrations that were both scientifically accurate and easily understandable for a diverse audience.

Time and Resource Constraints: Due to the comprehensive nature of forensic science, the team needed to prioritize which forensic topics to cover within the given space and time constraints.

Resource Requirements: The exhibition required a variety of models, posters, and specialized equipment to effectively demonstrate forensic techniques, which needed careful planning and allocation of resources. Additionally, organizing daily CSI demonstrations demanded logistical coordination and preparation of materials in advance.

Despite these challenges, the resources from the institute and the dedication of the team led to a highly successful outcome at the exhibition.

Science Exhibition 22-28 Feb 2022

Amrit Mahotsav

 "विज्ञान सर्वत्र पूज्यते"
 Amrit Mahotsa

 [Science and Technology is Revered all Over]
 Organised by:

 Vigyan Bharati Vidarbha Pradesh Mandal, and VNIT Nagpur
 Under the aegis of

 Principal Scientific Adviser (PSA) and Minsitry of Culture, GoI in association
 with Vigyan Prasar

<u>Report</u>

Government Institute of Forensic Science, Nagpur was invited to be a part of the week-long Science Exhibition Fest named "Vigyan Sarvatra Pujyate" from 22nd Feb-28th Feb 2022 being organised at Visvesvaraya National Institute of Technology (VNIT), Nagpur in association with Vigyan Bharati Vidarbha Pradesh Mandal under the aegis of Principal Scientific Adviser (PSA) and Ministry of Culture, Government of India and Vigyan Prasar

The Science Fest Exhibition received an overwhelming response with an estimate of **over 20000 visitors** over a period of one week. There were many technical stalls by various institution/organizations of Nagpur and around such as NEERI, Indian Railways, ISRO, DRDO, DAE, AIIMS, WCL, MAFSU, Ordnance Factory, etc. with display of various scientific models, videos and posters.

Dr. Ramdas Atram, Director, Government Institute of Forensic Science, Nagpur commissioned **a team** comprising of the **20 students of M.Sc. Forensic Science I year and II year** which was headed by **Dr. Ashish Badiye**, HOD, Dept. of Forensic Science and **Ms. Hansi Bansal**, Asst. Professor, Dept. of Forensic Science. Dr. Atram over saw the whole preparation for the event with daily reviews and also visited the stall to motivate the students and faculties of the team.

Various aspects of Forensic Science were demonstrated by the team at the stall of GIFS Nagpur. Everyone was intrigued with the **fascinating models and posters** like Fingerprints, Handwriting, Security Features of Currency Notes, Stamp Papers & Bank Cheques, Road Accident, Unnatural Deaths, Cyber Crimes to name a few. The visitors also saw practical **demonstration of Crime Scene Investigation** on various themes.

It is a matter of great honour and pleasure that **Government Institute of Forensic Science**, **Nagpur** was adjudged as the **Best** by the **Jury** and was bestowed **First Prize-Best Performance Award** in the **Academic and Research Institution category**. The award was given at the hands of Hon'ble **Shri Nitinji Gadkari**, **Minister of Road Transport and Highways of India** and was received by Dr. Ashish Badiye, Ms. Hansi Bansal and the team of students of the Institute. Second prize was given to **NEERI**.

Dr. Ashish Badiye IQAC Coordinator Government Institute of Forensic Science Nagpur Dr. Ramdas Atram Director Government Institute of Forensic Science Nagpur

Photo Gallery







Students of Government Institute of Forensic Science, Nagpur tending to the curiosity of the audience with the help of charts, models and practical demonstration







Team Forensics informing the audience about various aspects of Forensic Science



Various Models and Charts showcased at the stall of Government Institute of Forensic Science, Nagpur



Dr. Ramdas Atram with the team members and the models made by them during his visit.



Dr. Ashish Badiye, explaining the process of Crime Scene Investigation to the Jury with the help of a mock crime scene and models.





Team Forensics: Receiving the First Prize-Best Performance Award in the Academic and Research Institution category at the hands of Hon'ble Shri Nitinji Gadkari, Minister of Road Transport and Highways of India



Newspaper Cutting









Open source tools were demonstrated to the audience to provide them with a real life experience about how the process of such crime takes place. Our main motto was to provide awareness to the common people about different types of cybercrimes taking place nowadays and how to prevent them. Dr. Ramdas Atram, Director, Government Institute of Forensic Science, Nagpur also paid a visit to the stall and appreciated and motivated the students and faculties.













