

Handbook of Department of Forensic Science



**Guru Ghasidas Vishwavidyalaya (A Central University)
Bilaspur (C.G.) – 495009, India**



**Guru Ghasidas Vishwavidyalaya (A Central University) Bilaspur
(C.G.) – 495009, India**

Department of Forensic Science



Handbook of Department of Forensic Science

© Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) – 495009, India
(Central University)

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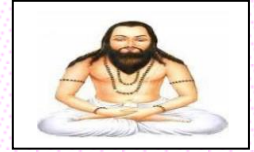
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**Guru Ghasidas Vishwavidyalaya,
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Message

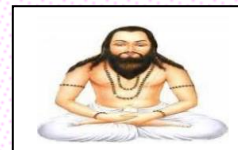
It gives me immense pleasure to learn that the Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) is going to publish a handbook of the Department. I am sure, the handbook will provide a glimpse of the past achievements, ongoing activities and a vision document of the Department. I am confident that with the necessary facilities for the quality education and research available in the campus, it would establish itself as a strong centre of learning and knowledge in this interdisciplinary subject to take up the challenges of R&D in days to come.

I congratulate the faculty members, research scholars and students for bringing out this handbook and wish them all success.

**(Prof. Alok Kumar Chakrwal)
Vice-Chancellor**



**Guru Ghasidas Vishwavidyalaya,
(A Central University)
Bilaspur, C.G.-495009**



Message

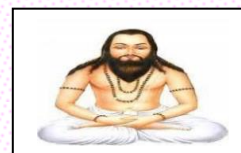
It gives me immense pleasure to know that the Department of Forensic Science, Guru Ghasidas Vishwavidyalaya is going to publish a handbook of the department for fresher taking admission includes the past achievements of the department, current academic and extracurricular activities, infrastructure facilities fee structure of the different courses offered by the department, syllabus, research and developmental activities. I am confident that this handbook will provide a glimpse of the department and may be a path finder to the students in making their decision for the selection of one of the best Forensic Department. The department was established in the year 2012 under the School of Life Science but now it comes under school of interdisciplinary education and research(IER) and the department has grown in terms of infrastructure and faculty. The Department of Forensic Science is aiming to provide well trained and skilled manpower to serve the local administration and nation. It is a matter of immense pleasure that department of forensic science has started the Ph.D. programme which will help in further development of subject. Recently department got research projects which have been funded by the central government agencies. The number of scientific publications in peer reviewed journals of high IF has also come out to the credit of faculty members. Alumni of this department are placed well in forensic field at various level and are in constant contact with faculty members. The number of students qualifying NET, GATE, SLET and PSCs has exponentially grown.

I congratulate the faculty members, non-teaching staff, research scholars and students for their efforts in bringing out this handbook and wish all the best for their future.

Dr. Rajendra Mehta
Dean (Interdisciplinary Sciences)



**Guru Ghasidas Vishwavidyalaya,
(A Central University)
Bilaspur, C.G.-495009**



Message

Nine batches of the undergraduate and postgraduate students have been passed out from the Department since its initiation. Students of the department have been successful in prestigious UGC (NET), FACT, FACT-Plus, examinations. Alumni of this Department are presently working in different esteemed organizations of National and International repute including various CFSLs, SFSLS, RFSLs, NFSU, industries etc. The Department of Forensic science is developing facility for research and the thrust area of research includes Forensic Biology, Serology, forensic genetics, DNA fingerprinting, forensic toxicology and nanotechnology. The Instruments available include Compound microscope, stereomicroscope, spectrophotometer, BOD incubator, digital pH meter, anthropometric board etc. Department of Forensic Science has organized various workshops and seminars. The Entrepreneurship development and management are also part of curriculum of M.Sc. Forensic Science coursework. This provides an exposure to the avenues in the different areas of Forensic Science.

Dr. Sudhir Yadav

Head (In-charge)
Department of forensic science

About the Department

Established in 2012 as an independent department under School of Life Sciences, Guru Ghasidas University, Bilaspur (C.G.). First and the only independent department in Chhattisgarh.

The random and inexplicable nature of today's crime require a new approach to deal with it and provide factual assistance to the criminal justice system. A proper approach towards crime detection and its prevention can be offered by the study of different aspects of Forensic Science. It is a multidisciplinary field which not only uses scientific methods but also involves study of current crime trends, technology related crimes, human psychology and thorough study of law. The main objective of the Department is to create students more skilled and capable to deal with the actual crime scenarios. To develop high level reasoning skills in order to put different elements of crime together and provide a conclusive opinion in criminal justice system. Different courses provided by the Forensic Science Department will generate trained expertise in various agencies related to crime detection such as Police investigation, State and Central Forensic Laboratories, mass communication and journalism, various private laboratories and detective agencies. The curriculum provides the educational standards that meet global standards in the field of Forensic Science.

The department is having 04 regular teaching faculties and 04 Ad-hoc faculties in the capacity of Assistant Professors. The reputation of any academic institute is confined to the qualities of its faculties, the department is bigheaded to have highly qualified and acclaimed faculty members.

Presently the department is running 3 years B.Sc. (Hon's) in Forensic Science, 2 years M.Sc. in Forensic Science and Phd. The department offers specialization in Forensic Biology & Serology including DNA Forensics, Forensic Medicine, Chemistry and Toxicology Questioned Documents & Fingerprint Examination.

Vision of Department

- To provide Forensic Experts in country and Worldwide.
- To contribute in nations development by generating trained manpower and experts in the field of Forensic science.
- To provide excellent knowledge and learning techniques with a view to develop Globally Competent students.
- To provide various methods and approach to prevent Crime in society.

Courses offered

<i>Course</i>	<i>Seat</i>	<i>Duration</i>	<i>Eligibility for admission</i>
B.Sc. Forensic Science (Honours)	37	Six semesters	10+2 with science as a main subject (biology/mathematics) as main subject with 50% marks
M.Sc. Forensic Science	45	Four semesters	B.Sc. (Honours) with 50% aggregate with Basic/Allied science subjects (Physics, Zoology, Botany, Biochemistry, Biotechnology, Computer Science, Anthropology) and chemistry as an essential subject at graduation level
Ph.D.		One semester (Course Work)	Post-graduation in Forensic Science and allied subjects. Admission through VRET/VRET Exempted category

*VRET exempt category includes those with UGC-NET (including JRF), DST-INSPIRE, & any other fellowship granted for Ph.D. on the basis of a prescribed process of selection by central government funding agencies.

5. Fee structure

B.Sc. (Forensic science)

<i>Sr. No.</i>	<i>Particulars</i>	<i>Amount</i>		
		<i>One time Fee</i>	<i>Yearly Fee</i>	<i>Semester Fee</i>
1	Admission Fee	600		
2	Enrolment Fee	200		
3	Library Fee		300	
4	Sports Fee			250
5	Students' welfare Fund		100	
6	Medical Fee		100	
7	**E-Suvidha Fee			
8	Magazine Fee		100	
9	Co-curriculum /School Fest		100	
10	Identity Card		50	
11	Tuition Fee			1400
12	Lab Fee			750.00
13	Examination fees			400.00
	Total	800	750	2800

*750.00 Rs. lab fee will be extra in the relevant semester where lab work/moot court will be a part of the syllabus.

** E Suvidha fee will be charged after starting of such facility in the relevant semester.

Caution Money One Time Refundable (For Non-Practical Courses)	500.00
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Caution Money One Time Refundable (For Courses having Practical)	1000.00
Caution Money One Time Refundable (For Professional Courses)	1000.00

ATKT Exam fee per Semester- 200.00 Rs.

Degree Fee (One time, be paid in the last Semester of the Course)- 300.00 Rs.

M. Sc. Forensic Science

Sr. No.	Particulars	Amount		
		One time Fee	Yearly Fee	Semester Fee
1	Admission Fee	600		
2	Enrolment Fee	200		
3	Library Fee		300	
4	Sports Fee			250
5	Students welfare Fund		100	
6	Medical Fee		100	
7	**E-Suvidha Fee			
8	Magazine Fee		100	
9	Co-curriculum/School Fest		100	
10	Identity Card		50	
11	Lab Fee			1000.00
12	Tuition Fee			1600.00
13	Examination fees			400.00
	Total	800	750	3250

** E Suvidha fee will be charged after starting of such facility in the relevant semester.

ATKT Exam fee per Semester- 200.00 Rs.

Degree Fee (One time, be paid in the last Semester of the Course)- 300.00 Rs.

Caution Money One time Refundable(For Non Practical Courses)	500.00
Caution Money One time Refundable(For Courses having Practical)	1000.00
Caution Money One time Refundable(For Professional Courses)	1000.00



Ph.D. Forensic Science (At the time of admission)

* Examination Fee is extra at the time of Pre-Ph.D. course work examination



S. No.	Particular	Amount (Rs.)
1.	<i>Tuition fee</i>	7000.0
2.	<i>Admission fee</i>	100.00
3.	<i>Identity card fee</i>	30.00
4.	<i>Syllabus fee</i>	50.00
5.	<i>Central library fee</i>	100.00
6.	<i>Library caution money fee</i>	200.00
7.	<i>Lab. caution money fee</i>	200.00
8.	<i>Dept. library fee</i>	350.00
9.	<i>Dept. Lab. fee</i>	200.00
10.	<i>Visiting faculty fee</i>	750.00
11.	<i>Magazine fee</i>	100.00
12.	<i>Physical welfare fee</i>	250.00
13.	<i>Student welfare fee</i>	50.00
14.	<i>Poor boy's fund</i>	25.00
15.	<i>Bus fund</i>	25.00
16.	<i>Amalgamated fee</i>	50.00
	TOTAL	9,480.00

Faculty Members of the Department

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	Designation:	<i>Assistant Professor</i>
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	Contact No.:	<i>78274-09151</i>
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	Contact No.:	<i>95xxxxxx32</i>
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	Contact No.:	<i>96xxxxxx69</i>

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	Contact No.:	<i>9630627326</i>
	Name	<i>Mr. Loman Singh Banjare</i>
	Designation:	<i>Multi-Tasking Staff</i>
	Contact No.:	<i>9827878013</i>

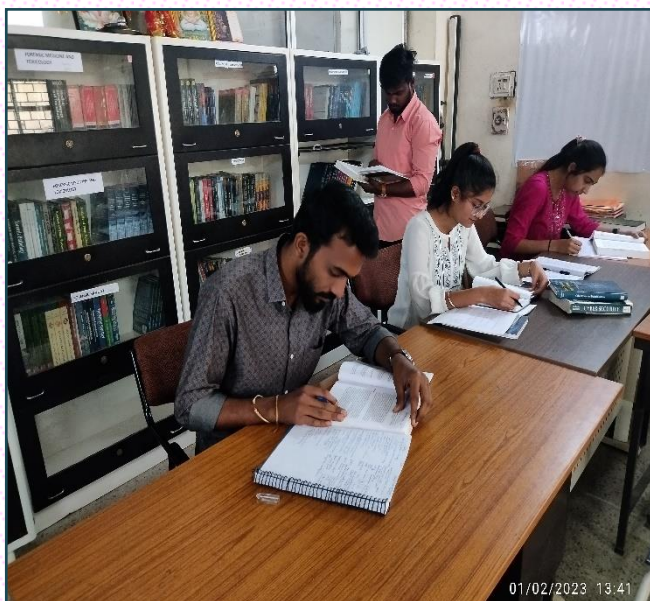
FACILITIES IN THE DEPARTMENT –

The department has excellent laboratories for undergraduate, postgraduate and research scholars. Departmental library contains a huge range of books that can enrich the understanding of students.

Library Facilities:

In addition to the university's comprehensive Central Library, the department has its own departmental library

with far more than 250 national and global editions of text books, reference books, dissertation, and a forensic encyclopedia, many of which are available in multiple copies to meet the need of the department's students. Countless publications are available for several primary specialisations, including forensic biology, forensic medicine, cyber forensic, criminalistics, etc.



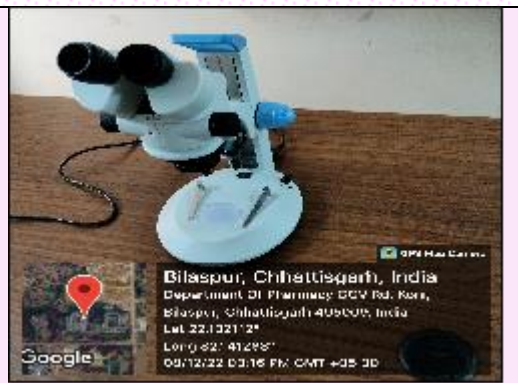


Research Facilities:

A distinct atmosphere is established by the department's vast range of discipline, which promotes both core and interdisciplinary research in a variety of emerging fields like toxicology, molecular biology, medicine, serology, and environmental forensics. Additionally, we have a well-established laboratory that makes it possible for researchers and students to pursue their research projects and improve their practical knowledge, which involves a wide range of laboratory apparatus.







THRUST AREA OF RESEARCH

The thrust areas of research of the department includes Forensic Toxicology, Forensic Serology, Forensic Molecular Biology, Questioned Document and Fingerprints.



FORENSIC
TOXICOLOGY



FORENSIC
SEROLOGY



FORENSIC
MOLECULAR BIOLOGY

Some of the tools that are used by the forensic document examiner



Question document &
fingerprint

The main research areas addressed by Dr. Sudhir Yadav are toxicity studies, medicinal studies, environmental toxicity studies on aquatic & terrestrial organisms, along with analytical & clinical chemistry testing, which lead to great interdisciplinary interaction and facilitate collaboration. The motto of this multidisciplinary research is safety to environment and health and service to humanity. The group's goal is to investigate how chemicals and stressors affect biological systems while monitoring changes in traditional toxicological criteria. The creation, evaluation, and use of methods for determining the negative effects of environmental chemicals have received special attention.

Current research thrust area of Dr. Ajay Amit is drug of abuse immunology. Currently his research group is trying to elucidate the impact of various herbal extract on the drug induce dependency through analysing the various behavioural and immunological parameter besides that Dr. Ajay Amit and group is also exploring various evidences of biological origin to maximise it's potential as evidences. Other important area of research

of his group is to explore the evidential potential of hair to assist in wildlife investigation through development of new tools and techniques.

Currently Dr.Chanchal Kumar research group working on various aspects of forensic science streams. Our research group working on the DNA based approach to solve the problem of adulteration and in meat and dairy products. We are also trying to elucidate the role of alcohol on brain receptor of human using various molecular biology tools. Another very important aspect ,our group is working on identification of various cyanobacterial toxin present in water bodies using chromatographic and DNA based molecular sensors. Identification of this toxin will help to avoid health hazard poses to the human and animal drinking water from open water bodies.

RESEARCH PROJECTS

Number of research projects per teacher funded by government and non-government agencies

<i>Name of the Scheme/Project/Endowments/Chairs</i>	<i>Name of the Principal Investigator/Co Investigator (if applicable)</i>	<i>Name of the Funding agency</i>	<i>Type (Government/Non-Government)</i>	<i>Department</i>	<i>Year of Award</i>	<i>Funds provided (INR in lakhs)</i>	<i>Duration of the project</i>
2020-2021							
<i>UGC-Startup</i>	<i>Dr.Ajay Amit</i>	<i>UGC</i>	<i>Government</i>	<i>Forensic Science</i>	<i>2021</i>	<i>10 Lakhs</i>	<i>3 Years</i>
<i>UGC-Startup</i>	<i>Dr.Chancal Kumar</i>	<i>UGC</i>	<i>Government</i>	<i>Forensic Science</i>	<i>2021</i>	<i>10 Lakhs</i>	<i>3 Years</i>

11. Seminars, Symposium and Invited lectures organized by the Department :-

1. **One Day National Seminar, National seminar on “Integrating Forensic Science and society for Awareness against crime” (IFSSAC-2018), September 18, 2018** Venue : Department of Forensic Science, Guru Ghasidas Vishwavidyalaya.

Report:- This one day National workshop entitled “Integrating Forensic Science and society for Awareness against crime” was held by Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh on 18th of September, 2018. Around 300 students participated in this event. Our speakers Shri A.K Kanuja (DIG, CRPF), Dr. Harsh Sharma (Director, State Forensic Science Lab, Bhopal), Dr. Krishnakant (AIIMS, Raipur, C.G), Shri Ashish Badiye (Assistant Professor& Head, Government Institute of Forensic Science, Nagpur) & Dr. RK Gupta (State Forensic Science Lab, Raipur, C.G) shared valuable information regarding the application of Forensic Science for the benefit of our society. After their valuable guidance, a poster presentation competition was held among the participants and various prizes were distributed. At last, vote of thanks was given by all the organizing members for making this event successful and memorable.

REGISTRATION FORM
National Seminar
"Integrating Forensic Science and Society for Awareness against Crime"
(IFSSAC-2018)
(September 18, 2018)

Name (In-Block) _____
Date of Birth _____
Gender Male _____ Female _____
Marital Status _____
Educational Qualification _____
Address _____
Mobile No. _____
Email _____
Paper (Title/Topic) Title _____
Details of Accommodation: _____ Required _____
_____ Not required _____
_____ International ID _____ Bank _____ Date _____
Signature of Participant _____

Department of Forensic Science
Guru Ghasidas Vishwavidyalaya
(A Central University)
Bilaspur (Chhattisgarh) 495009

National Seminar on "Integrating Forensic Science and Society for Awareness against Crime" (IFSSAC-2018) September 18, 2018

CHIEF PATRON
Prof. Anjlia Gupta
Honorable, Vice-Chancellor

PATRONS
Prof. Shalendra Kumar
Ropar
Dr. Ramesh Bhatt
Dean, School of Life Sciences

CONVENER
Dr. Shanti Ashwari
Head, Department of Forensic Science

Organizing Committee Members
Dr. I. Arjun Rao
Dr. Sudhir Yadav
Mrs. Sushma Upadhyay
Dr. Mounika Saha
Mr. Shivam Chaurasiya
Dr. Preethi Chatterjee
Miss. Ekta Jaiswal

Please send the registration form along with online payment receipt to:
Dr. Shanti Ashwari, Convener,
Department of Forensic Science,
Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) 495009
Organizing Committee: ifssac2018@rediffmail.com
Dr. Shanti Ashwari
Dr. Sudhir Yadav
Dr. Preethi Chatterjee
Department of Forensic Science
Guru Ghasidas Vishwavidyalaya
Bilaspur (C.G.) 495009



2. **Five days skill development “Exploration of importance of Forensic Techniques by hands on training for the benefit of society”, October 15-19, 2019**, Venue:- New IT Building, Department of Forensic Science, Guru Ghasidas Vishwavidyalaya

Report:- Five days workshop on skill development entitled “Exploration of importance of Forensic Techniques by hands on training for the benefit of the society” was held by joint efforts of Skill Development cell and Department of Forensic Science on 15-19th October 2019 in New IT Building, Guru Ghasidas Vishwavidyalaya. Various resource persons contributed their valuable knowledge and experience which was very helpful. All the participants including students learnt the utility, types and nature of different forensic techniques during these sessions.



3. *five days Skill Development Workshop on concepts in Forensic Science*”, January 30- February 3, 2018, Venue : E- Classroom, New IT Building, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G)

Report:- Five days Skill Development Workshop on basic techniques and concepts in Forensic Science was organized by Skill Development Cell and Department of Forensic Science, GGV, Bilaspur from 30th January to 3rd February 2018. Inaugural ceremony of this workshop was held at e- classroom of New IT building, GGV, Bilaspur. The chief guest of this ceremony was Dr. RK Gupta, Joint Director, SFSL Raipur and Dr. P.S. Bhagat, Director in charge, RFSL Bilaspur. A total of 143 students of forensic Science and anthropology attended the inaugural ceremony of five days workshop After the ceremony, students were taken to visit RFSL, Bilaspur. Next day, students visited SFSL Raipur in the presence of Dr. R.K Gupta and Dr. R.K. Sirmour. Next day, students learnt about the procedures and formalities of post mortem from Dr. S.N Gole. In next day of workshop students were briefed about firearm and ammunitions by Shri Prabhakar Upadhyay. The session ended with informative lecture of Dr Sujit Naik about neuroimaging.



2. *Achanakmar, Amarkantak for practical demonstration of protected demonstration of protected areas and pugmark studies*, April 14, 2017,

Report:- Visit to Achanakmar Amarkantak was organized by Department of Forensic Science, Guru Ghasidas Vishwavidyalaya, Bilaspur for students of BSc (Hons) Forensic science Semester IVth in order to provide them practical demonstration of protected areas and pugmarks with the help of Forest department of Chhattisgarh state on 14th April 2017. 34 students out of 43 were present for the visit.

3. *One day lecture on “Forensic Acousting”*, february,19 2020

Report:- One day lecture was organized by department of Forensic science in association with Department of Biotechnology, School of Interdisciplinary Education and Research, GGV, Bilaspur in the e classroom of Biotech building. Lectures were taken Role of Forensic Science in crime investigation and New emerging trends in Forensic Science by Dr. Manoj Radheshyam Bhandarkar (AD, FSL, Maharashtra).

4. *Special Guest Lecture on “Recent Trends in Forensic Science” February,16 2017*_Venue : New IT Building, Guru Ghasidas Vishwavidyalaya, Bilaspur, C.G

Report:- Special guest lecture was organized by Department of Forensic Science , Guru Ghasidas University, Bilaspur. Topic of lecture was “ Recent trends in Forensic Science” delivered by Dr. M.K Verma, Ex- Director SFSL Sagar (M.P) at new IT building of GGV Bilaspur. All the faculty members and UG/PG students were present in the lecture.

5. **One Day Skill Development workshop on “Interview Skills and Stress Management”** Febuary, 07, 2019

Report:- One day skill development workshop on interview skills and stress management is organized at e-classroom of New IT building of GGV, Bilaspur. Workshop includes two sessions. One on interview skills and other on stress management. Speakers of workshop were Mr. Pradeep Sharma and Mr Phultushi Ganguli from Raipur (C.G). Students from various departments participated in this event.



6. **Special lecture on Forensic Medicine and Toxicology**, March,16, 2017

Report:- Special lecture was organized by Department of Forensic Science , GGV, Bilaspur (C.G.). Topic of lecture was based on Forensic Medicine and Toxicology. It was delivered by Prof. Manish Nigam, Indore Medical College (M.P) on 16TH of March at 3:30 PM at G-21 Department of Biotechnology. Guru Ghasidas Vishwavidyalaya, Bilaspur, C.G. All faculty members and students were present for the lecture.



7. **“Recent trends and scope in Forensic Science”**, October,25, 2018

Report:- Department of Forensic Science, GGV, Bilaspur organized a special lecture on “Recent trends and Scope in Forensic Science by Prof. Devashis Bose, Head, Department of Forensic Science, Dr. Hari Singh Gaur University, Sagar at e classroom of Department of Biotechnology, GGV, Bilaspur. All the faculty members of department were present at the lecture.

8. **Two days Skill Development Workshop on Cyber Crime and its Prevention** September,12-13,2017

Report:- Two days Skill Development Workshop on Cyber Crime and its Prevention was organized from 12-13th September 2017 for M.Sc. and B.Sc. Forensic Science. Chief guest for this workshop was Shri G.P Singh (IG,

Raipur) and Shri Mayank Shrivastava (City SP, Bilaspur). In this workshop, Hon'ble Vice Chancellor, Prof Anjila Gupta and Registrar Prof B.N. Tiwari was present as special guests. Various lectures on cyber crime and its prevention was delivered by experts from Raipur and Bilaspur during these two days.




12. PUBLICATIONS FROM THE DEPARTMENT: -



- Dr. Sudhir Yadav, Dr. Dixit AK. Forensic approaches in the solution of wildlife crime. *International Journal of Multidisciplinary Research and Development*, Volume 3, Issue 6, 2016, Pages 89-93
- Upadhyay, Sushma; Ray, Rakesh Kumar; Yadav, Sudhir, Toxic and Chemical Substances and Associated Legislations, *Indian Journal of Forensic Medicine & Toxicology* . Apr-Jun2018, Vol. 12 Issue 2, p126-131. 6p.
- Upadhyay, Sushma; Ray, Rakesh Kumar; Yadav, Sudhir , Forensic Applications and Important Legislations Associated to Wild Life Crime, *Medico-Legal Update* . Jan-Jun2018, Vol. 18 Issue 1, p157-161. 5p.
- Ray, Rakesh Kumar; Upadhyay, Sushma; Lamey, Sudhir K.; Yadav, Sudhir, Lanthanides Toxicity and their Involvement in Biological Activities, *Indian Journal of Forensic Medicine & Toxicology* . Apr-Jun2018, Vol. 12 Issue 2, p108-113. 6p.
- Ray, Rakesh Kumar; Upadhyaya, Sushma; Limaye, Sudhir N.; Yadav, Sudhir, Association of Barbiturates in Biological Activities as a Toxicological Agent, *Indian Journal of Forensic Medicine & Toxicology* . Apr-Jun2018, Vol. 12 Issue 2, p165-170. 6p
- Ray, Rakesh Kumar; Upadhyay, Sushma; Yadav, Sudhir; Limaye, Sudhir N, Variations in the Physico-Chemical Parameters of Thio-Barbiturate Derivative, *Indian Journal of Forensic Medicine & Toxicology* . Apr-Jun2018, Vol. 12 Issue 2, p137-140. 4p
- Upadhyay, Sushma; Yadav, Sudhir, A Study of Suspicious Death in Bilaspur District, *Medico-Legal Update* . Jan-Jun2018, Vol. 18 Issue 1, p197-200. 4p
- Suman, S. S., Kumar, A., Singh, A. K., Amit, A., Topno, R. K., Pandey, K., ... & Bimal, S. (2021). Dendritic cell engineered cTXN as new vaccine prospect against *L. donovani*. *Cytokine*, 145, 155208.



Visitors to the department

<i>S. No.</i>	<i>Name</i>	<i>From</i>
1.	<i>De. M.K. Verma</i>	<i>Former, Director, Forensic science laboratory, sagar, M.P.</i>
2.	<i>Dr. Manish Nigam</i>	<i>Prof. & Head Forensic Medicine Toxicology Deputy MS. SAIMS, Indore</i>
3.	<i>Prof. Mitashree Mitra</i>	<i>Head school of studies in Anthropology Pt. Ravishankar Shukla University, Raipur</i>
4.	<i>P.S. Bhagat</i>	<i>Senior Scientific officer, Reginal Forensic Science laboratory, Bilaspur, C.G.</i>
5.	<i>Dr. R.k. Gupta</i>	<i>Joint Director state forensic science laboratory , Raipur, C.G.</i>
6.	<i>Dr. Sunanda Dhenge</i>	<i>Consulting forensic expert Raipur, C.G.</i>
7.	<i>Pradeep Sharma</i>	
8.	<i>Dr. D.K. Sattapathy</i>	<i>Ex. Director medicolegal Institute Govt. Bhopal, M.P.</i>
9.	<i>Dr. S.N. Gole</i>	<i>Assistant prof. FMT CIMS, Bilaspur</i>
10.	<i>Prabhakar Tiwari</i>	<i>Cyber Cell</i>
11.	<i>Manoj R. Bhandarkar</i>	<i>Assistant Director, Mini forensic Science laboratory, Chandrapur, Maharastra</i>
12.	<i>Siddharth Agarwal</i>	<i>Secretary SLSA, Bilaspur</i>
13.	<i>Dr. S.O. Junare</i>	<i>Campus Director, NFSU, Delhi</i>
14.	<i>Dr. M.K.Paswan</i>	<i>Professor & Dean N.I.T, Jamshedpur</i>
15.	<i>Dr. R.N. Mangoli</i>	<i>Professor of Criminology , Rani Channamma University, Belagavi</i>

Research Scholars working in the Department

1.	<i>Maitri Naik</i> 	<i>UGC-NET/JRF</i>
2.	<i>Megha Yadav</i> 	<i>UGC-NET/JRF</i>
3.	<i>Animesh Tiwari</i> 	<i>UGC-NET/JRF</i>
4.	<i>Diksha Kashyap</i> 	<i>UGC-NET</i>
5.	<i>Aayushi Pathak</i>	<i>UGC-NET</i>

		
6.	<i>Shubhra Shree Gajbhiye</i> 	<i>UGC-NET</i>
7.	<i>Prashant Kumar</i> 	<i>VRET</i>
s8.	<i>Sanjida Shabnam</i> 	<i>VRET</i>
9.	<i>Priyanka Gupta</i> 	<i>VRET</i>

10.	<i>Shantnu Singh Rathore</i> 	<i>VRET</i>
11.	<i>Shivangi Rao</i> 	<i>VRET</i>

ACHIEVEMENTS OF STUDENTS

Students who are placed in various field

1.	<i>Shailendra Kumar</i>	<i>Scientific Professional</i>	<i>CFSL Bhopal</i>
2.	<i>Shalini Nupur</i>	<i>Scientific Professional</i>	<i>CFSL Chandigarh</i>
3.	<i>Akanksha Singh</i>	<i>Scientific Professional</i>	<i>CFSL Bhopal</i>
4.	<i>Jenifer Tirki</i>	<i>Scientific Professional</i>	<i>CFSL Kolkata</i>
5.	<i>Pooja Uppal</i>	<i>Scientific Professional</i>	<i>CFSL Assam</i>
6.	<i>Rajnish Kumar Yadav</i>	<i>Scientific Professional</i>	<i>CFSL Assam</i>
7.	<i>Manisha Rana</i>	<i>Scientific Assistant</i>	<i>SFSL Jaipur</i>
8.	<i>Satakshi Upadhyay</i>	<i>Content Writer</i>	<i>Chhattisgarh Samvad</i>
9.	<i>Akhilesh Tiwari</i>	<i>Assistant Professor</i>	<i>MATS University, Raipur</i>
10.	<i>Nisha Patel</i>	<i>Assistant Professor</i>	<i>Bharti Vishwavidyalaya, Bhilai</i>
11.	<i>Srishti Aich</i>	<i>Assistant Professor</i>	<i>Kristu Jayanti College, Banglore</i>
12.	<i>Varsha Rani Patel</i>	<i>Assistant Professor</i>	<i>Medicaps University, Indore</i>
13.	<i>Tejaswini Ramteke</i>	<i>Assistant Professor</i>	<i>G H Raisonni University, Amravati, Maharashtra</i>
14.	<i>Sukrut Pradeep Choudhary</i>	<i>Assistant Professor</i>	<i>Shivaji College, Amravati</i>
15.	<i>Ambati Ramesh Babu</i>	<i>Principle</i>	<i>Achrya Nagarjuna College, Andhra Pradesh</i>
16.	<i>Mahima Tirki</i>	<i>Teacher</i>	<i>Atmanand English medium School, Bilaspur</i>
17.			

Students who qualified FACT PLUS & FACT

1.	<i>Diksha Kashyap</i>	<i>FACTS PLUS</i>	<i>Chemical Sciences</i>
2.	<i>Aayushi Pathak</i>	<i>FACTS PLUS</i>	<i>Chemical Sciences</i>
3.	<i>Megha Yadav</i>	<i>FACTS PLUS</i>	<i>Chemical Sciences</i>
4.	<i>Aakansha Singh</i>	<i>FACTS PLUS</i>	
5.	<i>Pooja Uppal</i>	<i>FACTS PLUS</i>	
6.	<i>Shantanu Singh Rathore</i>	<i>FACT</i>	<i>Biological Sciences</i>
7.	<i>Elipe Arjun</i>	<i>FACT</i>	<i>Biological Sciences</i>
8.	<i>Tejaswini Ramteke</i>	<i>FACT</i>	<i>Biological Sciences</i>
9.	<i>Rajnish Singh Yadav</i>	<i>FACT</i>	<i>Biological Sciences</i>
10.	<i>Paheli Sharma</i>	<i>FACT</i>	<i>Biological Sciences</i>
11.	<i>Nitu Yadav</i>	<i>FACT</i>	<i>Biological Sciences</i>
12.	<i>Ananya Iyengar</i>	<i>FACT</i>	<i>Biological Sciences</i>
13.	<i>Sukrut Pradeep Choudhary</i>	<i>FACT</i>	<i>Cyber Forensics</i>
14	<i>Shrishti Dutta</i>	<i>FACT</i>	
15	<i>Dimple</i>	<i>FACT</i>	<i>Chemical Sciences</i>
16	<i>Kavita Sahu</i>	<i>FACT</i>	
17	<i>Yogita Chandrawanshi</i>	<i>FACT</i>	
18	<i>Varsha Rani Patel</i>	<i>FACT</i>	
19	<i>Animesh Tiwari</i>	<i>FACT</i>	

Students who qualified UGC NET-JRF, SET

1.	<i>Maitri Naik</i>	<i>UCG-JRF</i>
2.	<i>Megha Yadav</i>	<i>UCG-JRF</i>
3.	<i>Diksha Kashyap</i>	<i>UGC- NET</i>
4.	<i>Aayushi Pathak</i>	<i>UGC- NET</i>
5.	<i>Shubhra Shree Gajbhiye</i>	<i>UGC- NET</i>
6.	<i>Jharna Kashyap</i>	<i>UGC- NET</i>
7.	<i>Manisha Rana</i>	<i>UGC- NET</i>
8.	<i>Nidhi Paikra</i>	<i>UGC- NET</i>
9.	<i>Garima Bais</i>	<i>UGC- NET</i>
10	<i>Priya Bhaisare</i>	<i>UGC- NET</i>
11	<i>Srishti Aich</i>	<i>UGC- NET</i>
12	<i>Pooja Uppal</i>	<i>UGC- NET</i>
13	<i>Bhoomika Bhatnagar</i>	<i>UGC- NET</i>

ALUMNI OF THE DEPARTMENT

<i>Name of Alumni</i>	<i>Passing year</i>	<i>Concerned organization</i>	<i>Current position</i>
<i>Shalini Nupur</i>	<i>2018</i>	<i>CFSL, Chandigarh</i>	<i>Forensic Professional</i>
<i>Akanksha Singh</i>	<i>2016</i>	<i>CFSL, Bhopal</i>	<i>Forensic Professional</i>
<i>Ananya Iyengar</i>	<i>2019</i>	<i>GIET Degree College</i>	<i>Lecturar</i>
<i>Ananya Karmakar</i>	<i>2019</i>		
<i>Ambati Ramesh Babu</i>	<i>2019</i>	<i>Aditya degree College, Aditya Group of Educational Institution</i>	<i>Lecturar</i>
<i>Nidhi Tiwari</i>	<i>2018</i>	<i>Actoress</i>	
<i>Deependra Barmate</i>	<i>2018</i>	<i>Forensic Investigation Agency</i>	<i>Director</i>
<i>Shailendra kumar</i>	<i>2018</i>	<i>CFSL, Guwahati</i>	<i>Forensic Professional</i>
<i>Trupti Satpathy</i>	<i>2018</i>	<i>CFSL, Chandigarh</i>	<i>Forensic Professional</i>
<i>Shalini Singh</i>			
<i>Manisha Rana</i>	<i>2019</i>	<i>SFSL Jaipur</i>	<i>Forensic Professional</i>
<i>Rajnish Singh Yadav</i>	<i>2022</i>	<i>CFSL, Guwahati</i>	<i>Forensic Professional</i>

Scheme of Examination

UG COURSE IN FORENSIC SCIENCE

(THREE YEARS / SIX SEMESTERS)

<i>Semester</i>	<i>Course Opted</i>	<i>Course Code</i>	<i>Name of the course</i>	<i>Credit</i>	<i>Hour / week</i>
<i>B.Scst Semester</i>	<i>Core-1</i>	<i>FSUATT1</i>	<i>Introduction to Forensic Science</i>	<i>3</i>	<i>3</i>
	<i>Core - 1 Practical</i>	<i>FSUALT1</i>	<i>Practical's based on Crime Scene</i>	<i>2</i>	<i>4</i>
	<i>Core -2</i>	<i>FSUATT2</i>	<i>Crime and Society</i>	<i>3</i>	<i>3</i>
	<i>Core - 2 Practical</i>	<i>FSUALT2</i>	<i>Practical's based on Crime and Society</i>	<i>2</i>	<i>4</i>
	<i>Generic Elective - 1 (GE- 1)</i>	<i>FSUATG1</i>	<i>Elementary Forensic Science</i>	<i>3</i>	<i>3</i>

	Generic Elective - Practical	FSUALG1	Practical's based on Crime Scene Investigation	2	4
	AEC(Ability Enhancement Course) 01	FSUATA1	Introduction to criminalistics	2	2
	SEC(Skill Enhancement Course) 01	FSUATL1	Handwriting Identification and Recognition	2	2
			Total Credits	19	
B.ScIInd Semester	Core-3	FSUBTT1	Criminal Law	3	3
	Core - 3 Practical	FSUBLT1	Practical's based on preparing schedules	2	4
	Core -4	FSUBTT2	Forensic Psychology	3	3
	Core - 4 Practical	FSUBLT2	Practical's based on Forensic Psychology	2	4
	Generic Elective -2(GE-2)	FSUBTG1	Applied Forensic Science	3	3
	Generic Elective - Practical	FSUBLG1	Practical's based on Applied Forensic Science	2	4
	AEC(Ability Enhancement Course) 02	FSUBTA2	English/Hindi	2	2
	SEC(Skill Enhancement Course) 02	FSUBTL1	Introduction to Biometry	2	2
			Total Credits	19	
B.ScIIIrd Semester	Core -5	FSUCTT1	Forensic Dermatoglyphics	3	3
	Core -5 Practical	FSUCLT1	Practical's based on Finger Prints	2	4
	Core -6	FSUCTT2	Technological Methods in Forensic Science	3	3

	Core -6 Practical 1	FSUCLT2	Practical's based on TechnologicalMethods	2	4
	Core - 7	FSUCTT3	Criminalistics	3	3
	Core -7 Practical 1	FSUCLT3	Practical's based on Crime scenesamples	2	4
	Generic Elective -3 (GE-3)	FSUCTG1	Crime Scene Management	3	3
	Generic Elective - Practical	FSUCLG1	Practical's based on Crime SceneManagement	2	4
	AEC(Ability Enhancement Course) 03	FSUCTA3	Environmental Science	2	2
		Total Credits		22	
B.ScIVth Semester	Core-8	FSUDTT1	Forensic Chemistry	3	3
	Core -8 Practical 1	FSUDLT1	Practical's based on ForensicChemistry	2	4
	Core -9	FSUDTT2	Questioned Documents	3	3
	Core -9 Practical 1	FSUDLT2	Practical's based on QuestionedDocuments	2	4
	Core - 10	FSUDTT3	Forensic Biology	3	3
	Core -10 Practical 1	FSUDLT3	Practical's based on ForensicBiology	2	4
	Generic Elective -4 (GE-4)	FSUDTG1	Advanced Forensic Science	3	3
	Generic Elective - Practical	FSUDLG1	Practical's based on AdvancedForensic Science	2	4
	AEC(Ability Enhancement Course) 04	FSUDTA4	Wildlife Forensics	2	2
		FSUDECI	Summer Internship	6	

			Total Credits	22+6	
B.Sc. Vth Semester	Core-11	FSUETT1	Forensic Ballistics	3	3
	Core - 11 Practical	FSUELT1	Practical's based on Forensic Ballistics	2	4
	Core -12	FSUETT2	Forensic Toxicology	3	3
	Core - 12 Practical	FSUELT2	Practical's based on Forensic Toxicological analysis	2	4
	Discipline Specific Elective-1	FSUETD1	Digital Forensics/	3	3
	Discipline Specific Elective-2	FSUETD2	Economic Offences	3	3
	Discipline Specific Elective Practical's-1	FSUELD1	Practical's based on Digital Forensics/ Practical's based on Economic offences	2	4
	Discipline Specific Elective Practical's-2	FSUELD2	Practical's based on Economic offences	2	4
	Discipline Specific Elective - 3	FSUETD3	Forensic Serology	3	3
	Discipline Specific Elective - 4	FSUETD4	Accident Investigations	3	3
	Discipline Specific Elective Practical's -3	FSUELD3	Practical's based on Forensic Serology /	2	4
	Discipline Specific Elective Practical's -4	FSUELD4	Practical's based on Accident Investigations	2	4

	AEC(Ability Enhancement Course) 05	FSUETA5	Introduction to Firearms andExplosives	2	2
			Total Credits	22	
B.Sc. VIth Semester	Core-13	FSUFTT1	Forensic Anthropology	3	3
	Core - 13 Practical	FSUFLT1	Practical's based on ForensicAnthropology	2	4
	Core-14	FSUFTT2	Forensic Medicine	3	3

	Core - 14 Practical	FSUFLT2	Practical's based on ForensicMedicine	2	4
	Discipline Specific Elective -5	FSUFTD5	DNA Typing	3	3
	Discipline Specific Elective -6	FSUFTD6	Modern Forensic Toxicology		
	Discipline Specific Elective Practical's-5	FSUFLD5	Practical's based on DNA Typing	2	4
	Discipline Specific Elective - 6	FSUFLD6	Practical's based on ModernForensic Toxicology		
			Seminar	2	
		FSUFDT1	Mini Project work	7	
			Total Credits	17+7	
			Overall Total Credits		

PG COURSE IN FORENSIC SCIENCE
(TWO YEARS / FOUR SEMESTERS)

		<i>M.Sc.1stsemester</i>		<i>Hours/w eek</i>	<i>Credit</i>
<i>M.Sc.1stsemester</i>	<i>Core -1</i>	<i>FSPATT1</i>	<i>Forensic Science & Criminology</i>	3	3
	<i>Core -2</i>	<i>FSPATT2</i>	<i>Crime Scene management</i>	3	3
	<i>Core -3</i>	<i>FSPATT3</i>	<i>Instrumental analysis in Forensic sciences</i>	3	3
	<i>Core -4</i>	<i>FSPATT4</i>	<i>Forensic Biology and Serology</i>	3	3
	<i>Lab -1</i>	<i>FSPALT1</i>	<i>Practical's Based on Crime Scene management</i>	6	3
	<i>Lab -2</i>	<i>FSPALT2</i>	<i>Practical's Based on Forensic Biology and Serology</i>	6	3
		<i>FSPAST1</i>	<i>Seminar</i>	2	2
			Total credits		20
<i>M.Sc.2ndsemester</i>	<i>Core -5</i>	<i>FSPBTT1</i>	<i>Questioned Documents</i>	3	3
	<i>Core -6</i>	<i>FSPBTT2</i>	<i>Forensic Genetics and DNA Profiling</i>	3	3
	<i>Core -7</i>	<i>FSPBTT3</i>	<i>Forensic Chemistry and Toxicology</i>	3	3
	<i>Core -8</i>	<i>FSPBTT4</i>	<i>Research Methodology and Ethics</i>	3	3
	<i>Elective- 1*</i>	<i>FSPBTD1</i>	<i>Forensic Psychiatry</i>	3	3
	<i>Elective- 2*</i>	<i>FSPBTD2</i>	<i>Wildlife Forensics AND Forensic Entomology</i>		
	<i>Lab -3</i>	<i>FSPBLT1</i>	<i>Practical's Based on Forensic Genetics and DNA Profiling</i>	6	3
	<i>Lab -4</i>	<i>FSPBLT2</i>	<i>Practical's Based on Forensic Chemistry and Toxicology</i>	6	3
	<i>Lab -5</i>	<i>FSPBLD1</i>	<i>Practical's Based on Forensic Psychiatry</i>	6	3
	<i>Lab -6</i>	<i>FSPBLD2</i>	<i>Practical's Based on Wildlife Forensics and Forensic Entomology</i>		
		<i>FSPBST1</i>	<i>Seminar</i>	2	2
			<i>Summer / Field/Industrial Training</i>	--	2
		Total Credits		26+2	
<i>M.Sc.3rdsemester</i>	<i>Core -9</i>	<i>FSPCTT1</i>	<i>Computer Forensics and Digital investigations</i>	3	3
	<i>Core -10</i>	<i>FSPCTT2</i>	<i>Forensic Ballistics and Physics</i>	3	3
	<i>Core -11</i>	<i>FSPCTT3</i>	<i>Forensic Medicine</i>	3	3
	<i>Core -12</i>	<i>FSPCTT4</i>	<i>Forensic Anthropology</i>	3	3
	<i>Elective – 3**</i>	<i>FSPCTD1</i>	<i>Forensic Genomics, Proteomics and Bioinformatics</i>	2	2
	<i>Elective – 4**</i>	<i>FSPCTD2</i>	<i>Forensic Microbiology and</i>	2	2

			<i>Immunology</i>		
	<i>Lab -7</i>	<i>FSPCLT1</i>	<i>Practical's Based on Computer Forensics and Digital investigations</i>	6	3
	<i>Lab- 8</i>	<i>FSPCLT2</i>	<i>Practical's Based on Forensic Ballistics and Physics</i>	6	3
	<i>Lab- 9</i>	<i>FSPCLD1</i>	<i>Practical's Based on Forensic Genomics, Proteomics and Bioinformatics</i>	6	3
	<i>Lab- 10</i>	<i>FSPCLD2</i>	<i>Practical's Based on Forensic Microbiology and Immunology</i>		
	<i>Open Elective</i>	<i>FSPCTO1</i>	<i>Modern advances in Drugs of abuse</i>	2	2
		<i>FSPCST1</i>	<i>Seminar</i>		2
			Total Credits		27
<i>M.Sc. 4th Semester</i>	<i>Elective- 5****</i>	<i>FSPDTT1</i>	<i>Recent Advancement in Forensic Chemistry</i>	3	3
	<i>Elective- 6****</i>	<i>FSPDTT2</i>	<i>Recent Advancement in Forensic Toxicology and Pharmacology</i>	3	3
	<i>Elective- 7****</i>	<i>FSPDTT3</i>	<i>Nano Forensics</i>	3	3
	<i>Elective- 8****</i>	<i>FSPDTT4</i>	<i>Recent Advancement in Forensic Physics</i>	3	3
	<i>Elective- 9****</i>	<i>FSPDTT5</i>	<i>Recent Advancement in Forensic Ballistics</i>	3	3
	<i>Elective- 10****</i>	<i>FSPDTT6</i>	<i>Recent Advancement in Questioned Documents and Fingerprints</i>	3	3
	<i>Elective- 11****</i>	<i>FSPDTT7</i>	<i>Recent Advancement in Forensic Photography</i>	3	3
	<i>Elective- 12 ***</i>	<i>FSPDTT8</i>	<i>Recent Advancement in Forensic Biology</i>	3	3
	<i>Elective- 13****</i>	<i>FSPDTT9</i>	<i>Recent Advancement in Forensic Serology & Immunology</i>	3	3
		<i>FSPDDT1</i>	<i>Dissertation</i>		12
			Total Credits		15
			Overall Credits		90

***Students can opt any one Elective paper.**

****Students can opt any one Elective paper.**

*****Students can opt any one Elective paper.**

Pre-Ph.D. Course Work Forensic Science

<i>(Scheme of Examination) Course</i>	<i>Course Code</i>	<i>Name of the course</i>	<i>Credit</i>	<i>Hours / week</i>
<i>Paper-1</i>	<i>DFSC-PP-01</i>	<i>Research Methodology and Scientific Communication & Research Ethics</i>	<i>04</i>	<i>04</i>
<i>Paper-2</i>	<i>DFSC-PP-02</i>	<i>Analytical Approaches in Forensic Techniques (Physical, Chemical & Biological)</i>	<i>04</i>	<i>04</i>
<i>Paper-3</i>	<i>DFSC-PP-03</i>	<i>Advance & Applied Forensic Science</i>	<i>04</i>	<i>04</i>
<i>Seminar</i>	<i>DFSC-PS-04</i>	<i>-----</i>	<i>----</i>	<i>----</i>
<i>Total Credits</i>			<i>12</i>	<i>12</i>