#### **INTRODUCTION:**

Rural Medical College and the Department of Forensic Medicine came into existence in the year 1984. The department is located in the main building of the College. The department provides educational services for the II year M.B.B.S. students in the subjects of Forensic Medicine. It also offers MCI recognized postgraduate degree in Forensic Medicine since 1991. The Institution is recognized as a Medico-legal centre by the Home Ministry, Government of Maharashtra. Department also provides a favorable environment for conduct of scientific research, which has beneficial practical outcomes.

In addition to teaching and research activities, the department of Forensic Medicine also renders services to the community by conducting different activities like examining and opining on all types of Medico-legal cases.

Our objective is not only to provide the above mentioned services but to exceed expectations of students, patients and law enforcement agencies. An illustrious history of the last 25 years which were devoted to the welfare of the rural populace of Pravara are a benchmark in the Indian healthcare sector and was duly appreciated by none other than honorable His Excellency **Dr APJ Abdul Kalam, President of India** on his visit to the college on 15 Oct 2005.

## VISION, MISSION, GOAL & OBJECTIVE:

#### VISION:

The department strives to fulfill the following vision:

#### "Promote, Provide and Assist Justice through Knowledge of Medicine"

#### **MISSION STATEMENT:**

- 1. Equip the future doctors with knowledge of 'Forensic aspects' of different branches of medicine to enable them to apply the same during their practice.
- 2. Provide world class training to the Under-graduate, Post graduate students & Registered Medical Practitioners on Medico-legal issues and Medical Jurisprudence with emphasis on examination of a Medico-legal case; collection, preservation & dispatch of evidence and General & Medico-legal documentation.
- 3. Relentlessly work to generate world-class research in the subject with beneficial practical outcomes. We endeavor to develop newer techniques of examination of evidences, crime scene etc, with a broader mission to facilitate immaculate forensic examinations for the benefit of law enforcement agencies.
- 4. Utilizing the expertise and authority of our faculty and staff in the field of Forensic Medicine, the department provides comprehensive services to the community, through innovative programs that relate to medico-legal issues.

## **OBJECTIVE:**

- 1. To enable the future healthcare providers to :
  - a. Shoulder the responsibility of providing quality medical care to the society, without infringing the virtuous medical ethics and medical code of conduct.
  - b. Acquire knowledge of law in relation to medical practice.
- 2. They should also be capable of
  - a. Making observations and inferring conclusions by logical deduction.
  - b. Setting enquiries on the right track in criminal matters and associated medico-legal problems.
  - **c.** Facilitating the Law enforcement agencies and the Judiciary in criminal investigations and implementation of justice.

## FACULTY: PROFILE, ADEQUACY & COMPETENCY:

The department has the following staff for adequate UG and PG teaching:

1. Professors:022. Associate Professor:013. Assistant Professor:014. Tutors:04

## Dr. K.D. Chavan: (Professor & Head)

- Illustrious career as a Forensic expert, with 17 yrs teaching experience.
- UG as well as PG examiner for numerous universities.
- General Secretary medico legal Association of Maharashtra
- Member Board of Studies, PIMS, Loni.
- Ex-Member Board of Studies RGUHS, Bangalore.
- Ex-Medico-legal consultant to the Govt. of Karnataka.
- Ex-Associate Editor: Journal of Medico-legal Association of Maharashtra.
- 16 significant scientific research projects completed.
- Publications in National & International indexed scientific journals.
- Chaired scientific sessions in various national as well as state conferences.

## Dr. R.S. Bangal: (Professor)

- Vast teaching experience of 18 yrs.
- A renowned Forensic consultant who is also qualified in Law.
- Member Board of Studies, PIMS, Loni.
- UG & PG examiner for numerous Universities.





- Editor In Chief : Journal of Medico-legal Association of Maharashtra.
- Ex-Member District Consumer Forum, Thane.
- Ex-Associate Editor: Journal of Medico-legal Association of Maharashtra.
- Prepared manual and evidence kit for examination of sexual offence victims in collaboration with CEHAT.
- Successfully conducted 09 scientific research projects.
- Publications in national & international indexed scientific journals.

## Dr. Sandeep Kadu: (Asso. Professor)

- 11 years of teaching experience.
- Qualified in Law.
- Conducted numerous research projects successfully
- Presented numerous research paper in national conference
- Published numerous papers in national and international journals
- Recognized examiner for various universities

## Dr. Jamebaseer. M. Farooqui: (Asst. Professor)

- 5 years of UG teaching experience.
- Conducted 03 research projects successfully
- Presented research paper in national conference
- Publications in national & international journals

# Dr. C.S. Makhani:(Tutor)

- 2 year of UG teaching experience.
- Conducted research projects successfully
- Presented research paper in national conference
- Publications in national & international journals
- Awarded for Best Research Paper (PIMS) 2009-10.

## Dr. Madhusudan Petkar: (Tutor)

- DFM Qualified
- 3 yrs teaching experience
- Presented research papers in National conferences









## **Dr. Ullas Gonnade : (Tutor)**

- Vast UG teaching experience of 14 years
- Presented research papers in National conferences



## Dr. Vikrant Kalokhe: (Tutor)

- DFM Qualified
- 3 yrs teaching experience
- 01 Publication in National journal
- Presented research papers in National conferences



## **PROGRAMMES OFFERED**

The department offers the following courses recognized by the Medical Council of India.

- 1. M.B.B.S.
- 2. MD (Forensic Medicine)

Courses under planning:

- 1. Orientation Course in Medical Ethics and Medicolegal Practices
- 2. Orientation Course in Analytical Toxicology
- 3. Medico-legal training and Information Centre

## FACILITIES FOR TEACHING LEARNING PROCESS:

## A. Infrastructure

The department is well structured and equipped for effective learning of the UG & PG students.

- **a.** Lecture halls: The department has three main lecture halls of the college available for UG teaching. Adequate space is available for conduct of tutorials and seminars.
- **b. Museum:** The departmental museum is well planned and stocked. Numerous specimen, bones, skaigrams, photographs, weapons, models, charts, poisons, etc are on display.
- **c. Laboratory:** There is a well equipped laboratory as per the curricula for Undergraduate and Postgraduate courses. The department has a fully functional laboratory which offers the facility to conduct following tests which are essential in forensic investigations as well as for academic and research purpose :
  - i. Thin layer chromatography & colour test for qualitative assessment of poisons in samples.
  - ii. Diatom test for drowning cases
  - iii. Analysis of various stains

#### d. Major Equipment:

xiii. Microscope

(Compound) xv. Refrigerator

i. Oven 01 iii. Autopsy Table : 03 v. Chemical balance : 01 vii. Camera 01 (Sony DCR DVD 910) ix. Dissection sets 02 : (All Instruments) xi. Digital Weighing : 01 Scale No V 100 cap. 150 kg

vi.	Analytical Balance Autopsy Saw Computer with Printer Cold storage for 3 bodie	: : : es:	01 01 01 01
	Equipment for reporting height Alcohol Breath Analyze	: er:	02 01
xiv.	Binocular microscope	:	01
xvi.	Instrument sterilizer	:	01

#### e. Departmental Library cum Seminar Room:

:

:

01

02

There is a well stocked departmental library cum seminar room which is utilized by the staff and PG students alike. The departmental activities like Seminars, Journal club, Case discussion are regularly conducted here.

Following materials are available in the library:

i. Books-104	ii. Journals: National & International	iii. Study material (Catalogue
etc)	iv. PG Dissertation	v. UG and PG Question bank

## **B. Audio-Visual Aids:**

- i. LCD projector
- ii. Over Head Projector
- iii. Slide Projector
- iv. Power point presentations: 100.
- v. Educational CD's: 15.
- vi. Departmental desktop with internet facility.

#### LABORATORY SERVICES

The Department has well equipped laboratory as per the curriculum for the Undergraduate and Postgraduate courses. In addition facilities for conducting TLC and Colour test for qualitative analysis of poisons in various samples is available for academic purpose.



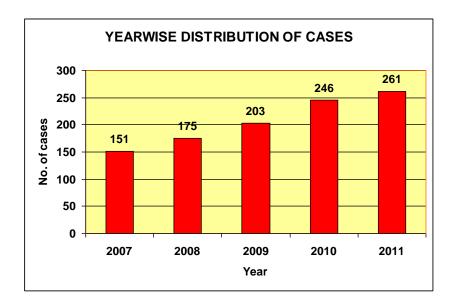
Mr BU Kanade displaying lab experiment



Dr JM Farooqui conducting lab work

# MEDICO LEGAL POST POSTMORTEM EXAMINATIONS CONDUCTED

The department conducts on an average 200-250 postmortem examinations per year



# **EXTENSION ACTIVITIES**

1. Assisting the Courts of law in disbursement of justice.



- 2. Providing official assistance to the police & investigating authorities in relation to visit to scene of crime
- 3. Providing continuing medic-legal orientation programs to doctors throughout the state of Maharashtra **Dr SN Hussaini (Ex Asst Prof) visiting a scene of crime**

# **TEACHING METHODS:**

## **Undergraduate:**

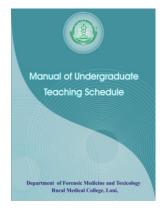
- Theory : 100 hrs
- Practical : 40 hrs
- Teaching-Learning Methods:
  - ★ Didactic lectures
  - ★ Demonstrations
  - ★ Seminars
  - ★ Tutorials
  - ★ Group discussions
  - ★ PBL

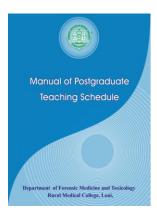
Co-curricular activities: Essay, Debate and Quiz competitions

## **Postgraduate:**

Structured learning program like:

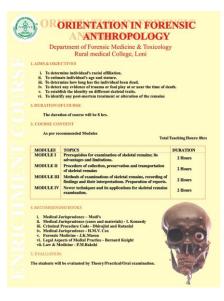
- ★ Journal clubs
- ★ Seminars
- ★ Case discussions
- ★ Teaching UG
- ★ Conducting medico-legal work and deposing evidence
- ★ Crime scene visit
- ★ Allied dept. posting
- ★ Collaborative & guided research
- ★ Integrated teaching
- ★ Teaching methodology
- ★ Participating in National and International forums



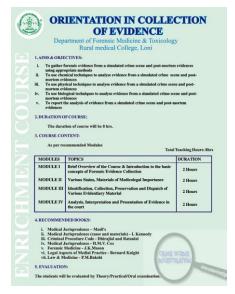


## **STUDENT EVALUATION: UG/PG**

- ★ Student evaluation: CPA Card
- ★ PG Log Book
- ★ Bridge Program: Educationally disadvantaged
- ★ Remedial Program: Educationally Weak
- ★ Enrichment courses: Educationally Advanced
- ★ Personal Counselling



C		RIENTATION IN MEDICAL ETHIC ND MEDICO LEGAL PRACTICES	
	Depa	rtment of Forensic Medicine & Toxicol Rural medical College, Loni	ogy
	(ii) To impart (iii) To sensit practice. (iv) To orient (v) To provid	the induction storautic dividing, lengt and moral support of molecules lowerdaps about the length in in model approaches the dimensional storage and the length approaches the molecule storage and the induction of a length approaches the molecule storage and the length approaches the molecule storage the length approaches the leng	ations governing medical mer forums. licies and their fallacies.
			1
	MODULES	TOPICS Laws related to Medical Profession	2 Hours
	MODULE II	Ethical aspects in medical practice Doctor-Patient Relationship Medical Negligence Actions assist Doctors	2 Hour
	MODULE III	Defenses available for doctors in cases of alleged medical negligence Various doctrines pertaining to medical profession	2 Hours
	MODULE IV	Medical Documentation Practical aspects of Consumer Protection Act	2 Hours
	<ul> <li>Medical Jur</li> <li>Criminal Priv. Medical Jur</li> <li>Forensic Medical Jur</li> <li>Forensic Medical Appective</li> <li>Legal Appective</li> <li>Law &amp; Medical Appective</li> <li>EVALUATION:</li> </ul>	sprudence – Modi's u sprudence (canes and materials) - L Kennedy coedure Code – Dhirpilal and Ratanial isprudence – H. M. V. Cox. obiere – J. K. Mause – 1. Bernard Knight kinne - P.M.Bakahi	$\bigcirc$



	OODONTOLOGY	
De	epartment of Forensic Medicine & Toxicol	ogy
	Rural medical College, Loni	
1. AIMS & OBJ	ECTIVES ification in mass fatalities	
ii. Asse	ssment of cases of abuse (child, spousal, elder ,rape)	
	cases involving malpractice tification of unknown human remains through dental record	a
v. Assis	sting at the scene of a mass disaster.	
vii. Anal	estimations of both living and deceased persons. lysis of bite marks found on victims of attack.	
viii, ID o	f bitemarks in other substances e.g. wood, leather and foodst lysis of weapon marks using the principles of bite mark analy	
	entation of bite and weapon mark evidence in court.	SES.
2. DURATION	DECOURSE	
	ation of course will be 8 hrs.	
3. COURSE CO	INTENT	
As per re	commended Modules Tot	al Teaching Hou
MODULES	TOPICS	DURATION
MODULE I	Antemortem & Postmortem Dental Examination	2 Hours
MODULE II	Examination of bite marks & its analysis	2 Hours
MODULE III	Comparative Study of actual examination & available dental records	2 Hours
MODULE IV	Investigations , interpretations and medicolegal aspects	2 Hours
4. RECOMME	ADED BOOKS:	
	and the second sec	The states
651.	i, Odontology often is final piece to grim puzzle. J Calif Dent Asso	
	DiZinno J A. Personal identification through dental evidence-toot alif Dent Assoc 1996; 24: 35-42.	h fragments to
iii. Weedn V	W. Postmortem identifications of remains. Clin Lab Med 1998; 12 r D K, Richards B H, Jones M L. Orthodontic reconstruction in a	4: 115-137.
and the second second		victim of
iv. Whittake murder. I	Br J Orthod 1998; 25: 11-14. B R. Haglund W, Morton T H. Dental identification in serial homic	132 B ( ) A ( )



# PARTICIPATION OF TEACHERS IN ACADEMIC AND PERSONAL COUNSELING OF STUDENTS

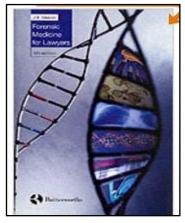
- ★ 10 Students allotted to each faculty under Mentorship Program to monitor and assist their academic and physical well being.
- ★ Meetings are held regularly



Dr KD Chavan Conducting Student Mentor Meeting

## **BOOKS & CHAPTERS AUTHORED:**

Dr RS Bangal has the distinction of updating a chapter titled : "Medicolegal systems in India, Pakistan and Srilanka" in Forensic Medicine for Lawyers, 4th Edition, J.K. Mason; 2004.



#### RESEARCH

The Departmental faculty has to its credit of having accomplished successfully 36 research projects of great forensic significance, 14 of which have been published in International and 12 in National scientific journals. The departmental faculty regularly guides students for ICMR STS projects. Till date four student projects have been accepted by ICMR under STS scheme.

The department also encourages research collaborations with other institutions.





Dr CS Makhani, PG Student Conducting Research at AIMS, Kochi

Dr CS Makhani, PG Student awarded 1<sup>st</sup> Prize for research academic vear

## CME/CONFERENCES/SYMPOSIUM/WORKSHOPS/CO-CURRICULAR ACTIVITIES CONDUCTED:

#### **YEAR 2009:**

Symposium: "Legal Aspects of Medical Practice" A symposium on "Legal Aspects of Medical Practice" was held on 04<sup>th</sup> April 2009 at RMC, Loni. The inaugural function was presided by Hon'ble Dr. Ashok Patil, Ex-CEO, PMT, Loni. Chief Guest of the function was Hon'ble Dr. P. M. Jadhav, Member Ethical Committee, MCI. Other Hon'ble guests for the function were Hon'ble Dr. B. Sadananda, VC, PIMS, Loni, Dr. Shivananda Bhimalli, Member MCI & Dr. M. V. Garad – Director FSL, Mumbai.



Hon'ble Dr. Ashok Patil, CEO, PMT, addressing the delegates

Around 230 delegates and 80 Under-graduate students attended the symposium. Guest lecture by renowned forensic experts like Dr. RK Singh, Dr Ravindra Reddy, Dr R S Bangal, Dr S V Jogarao & Dr Ajay Patil were duly acknowledged by the delegates.



Dr RS Bangal during panel discussion

#### **YEAR 2010:**

# National symposium was organized on "Medical Documentation- Ethical, Legal and Social Aspects"

A National symposium was organized on "Medical Documentation- Ethical, Legal and Social Aspects" on 8th Aug 2010 at RMC, Loni under the aegis of PIMS (DU). Presiding over the function Hon'ble Lt Gen (Retd) Dr. B Sadananda, Vice Chancellor, PIMS (DU) highlighted the history & importance of medical documentation. Hon'ble Justice Shri MG Gaikwad, Retd Judge High Court, Mumbai & President Revenue Tribunal, Mumbai shared his experiences in the light of various court judgments and complimented Dr. KD Chavan for organizing a symposium on a very important topic.

The hallmark of the inaugural ceremony was the felicitation of senior faculty members of Forensic Medicine like **Dr. SA Sami, Dr. DP Sapre, Dr. HT Katade, Dr. VV Wase, Dr. SD Nanandkar**. These are the people who toiled hard all these years to give the subject the stature it has today. Three hundred and forty delegates from all over the country registered for the symposium. Eminent guest speakers included

- 1. **Justice Shri M Rahatgaonkar**, President, Consumer Distress Redressal Forum, Navi Mu
- 2. **Dr Anil Aggrawal**, Professor, Dept. of Forensic Medicine and Toxicology, Maulana Azad Medical College, New Delhi, an acclaimed Forensic Expert and Founder &`Editor of Dr Anil Aggarwals Internet Journal.
- Dr VV Pillay, Chief Analytical Toxicology & DNA Fingerprinting Unit, Dept. of Forensic Medicine & Toxicology, Amrita Institutue of Medical Sciences, Kochi. Founder and Director of WHO accredited an;



Chief Guest lighting the inaugural lamp



**Dignitaries Releasing Souvenir** 



Dr Anil Aggrawal delivering lecture

- 4. Adv (Dr) SV Jogarao, Ex Faculty National Law School of India University, Bangalore and Max-Plank Fellow for Foreign and International Criminal Law.
- 5. **Dr RS Bangal**, a renound Medico-legal Expert and Professor, Dept. of Forensic Medicine, Rural Medical College, Loni.
- 6. **Dr Ajay Patil**, Professor Dept. of Forensic Medicine and Toxicology, KIMS, Karad and Lead auditor for ISO 9001, Quality Council of India.

#### **YEAR 2011:**

#### **STATE FORENSICON 2011:**

The  $15^{\text{th}}$  Annual Conference of Medico Legal association of Maharashtra was held at Rural Medical College, Loni, Ahmendnagar on  $20^{\text{th}}$  and  $21^{\text{st}}$  Aug 2011.The theme of the conference is "Medicolegal Expertise – An Important Tool in Crime Investigation and Administration of Justice".

The conference was patronized by the **Director General**, **Indian Council of Medical** 



**Research** and **Medical Council** Dr PH Shingare, DMER, Addressing the Inaugural Function of India.

The Chief Guest of the inaugural function **Dr Pravin H Shingare, Director Medical Education and Research**, expressed his utmost satisfaction on the event. Speaking on the occasion he emphasized the importance of the Medicolegal expertise amongst all for doctors for the better administration of justice. The Guest of Honour was **Dr MV Garad, Director, Directorate of Forensic Science Laboratory, Maharashtra**, the function was presided by Hon. **Dr. MG Takwale, Vice Chancellor, Pravara Lighting of Ceremonial Lamp** 

#### **Institute of Medical Sciences,**

#### Loni (Deemed University). Brig (Retd.) Dr. S.

**Venkatramani**, welcomed one and all to the premier medical education institution in rural India and wished all delegates a informative and pleasurable stay.

The total number of delegates registered for the conference was around Four hundred and Fifty. The **Director Health Services**, Govt. of Maharashtra deputed One hundred and Twenty Four Medical Officers working in various Government hospitals, the **Addl. Director General Police (Training and Special Units)** deputed Eighty Six Police officers (PSI to ACP) to attend the conference. One hundred and eighty seven Forensic Faculty and





Dr KD Chavan addressing the delegates

Medical Practitioners also attended the conference, of which approx. hundred were deputed by the **Director Medical Education and Research**. Fourteen officers were detailed by the Director, **Directorate of Forensic Science Laboratories**, Maharashtra. We also received deputation of Twenty Five District Govt. Pleader (DGP) from Law and Judiciary Dept.

The Scientific Sessions were a treat, with lectures by renowned experts in the field.

- 1. Dr V.L.Deshpande: Key Note Address "Ethics and etiquettes in Medical Profession.
- 2. Dr O.P. Murthy : "Oration on Recent Advances in Forensic Medicine".
- 3. Dr. S.A.Sami: "Age determination in Medicolegal Cases"
- 4. Dr .C.S.Kapse: "Examination of Victim of Sexual Assault".
- 5. Dr. Pradeep Dhere: "Examination of Injured Victim".
- 6. Dr. S.D.Nanandkar: "Medico-Legal Policy for the State of Maharashtra".
- 7. Dr. V.V.Pillay: "DNA Fingerprinting- A Modern Tool in Crime Investigation"
- 8. Dr. A.G. Wankhede: "Forensic
- 9. Photography: Resolving dilemma in Medicolegal Cases"
- 10. Dr.A.C. Mohanty: "Medical Negligence & CPA- New Horizon in Indian Law"
- Dr. Rajendra Bangal: "Medical and medico-legal Documentation-Current Practice and Need of Change"
- 12. Dr. Nikhil Gupta (PhD): Role of Police Investigation in Cases Medical Negligence"
- 13. Dr. M.D.Karmarkar: "Autopsy Protocol in Cases Of Medical Negligence"
- 14. Dr. S.S.Chandekar: "Second Autopsy: Procedure and Protocol"
- 15. Dr. P.G.Dixit: "Collection, Preservation and Dispatch of Biological Evidence Material to FSL"



Dr Nikhil Gupta IAS Delivering Guest lecture

- 16. Dr. Pradeep Kumar: "Wound Ballastics-Challenges in Interpretation"
- 17. Dr. S.C.A.D.Sapeco: "Quality Control in Medicolegal Cases at Institutional Level"
- 18. Dr.K.U.Zine: "Problems in Night Postmortems"

One of the highlight of the conference was Open Forum with acclaimed Senior members of Police, Law and Judiciary, Forensic Science Laboratory and Forensic Medicine forming the panel of experts. Dr MV Garad, Adv Rhishikesh Ganu, Adv Dilip Patil Bankar, ACP Shri Nilesh Sawant, Dr SD Nanandkar and Dr SC Mohite answered the queries of the audience. The audience (including Police officers, Lawyers and Doctors) availed this opportunity enthusiastically and discussed in details the various



discussed in details the various **Open Forum in Progress** issues confronted by them and the experience gathered during everyday working.