IAFM/04/2014 08/02/2014

To,
President
Medical Council of India,
New Delhi-110077.

Subject: Reforms in GME, PGME & MSR

Respected Madam,

“Jay Hind” from the office of General Secretary-IAFM.

The Indian Academy of Forensic Medicine (IAFM) is oldest and largest association of Forensic Medicine experts representing almost each and every state and is committed to encourage the study, improve the medico legal practice, elevate the standard and progress of the field of Forensic Medicine & Toxicology since its inception in the year 1972.

On behalf of IAFM, I would like to heartily congratulate your office for a reformative step taken in the month of January-2014, that is to say, not considering the application for starting MD( Forensic Medicine) course by colleges not catering medico legal post mortem services.

In continuation of efforts by IAFM with reference to standard and progress of Forensic Medicine, the Executive Committee meeting held on 15-12-2013 at GMC, Mumbai had formed expert committees to formulate proposals with reference to:

1. Graduate Medical Education
2. Post Graduate Medical Education
3. Minimum Standard Requirement;

The proposals submitted by the committees were uploaded on official website of IAFM for members’ opinion. We are pleased to inform you that the same was thoroughly discussed at General Body Meeting of IAFM held on 01-02-2014 while 35th Annual National Conference of IAFM held at Gauhati, Assam and sanctioned unanimously.

To be continued...
On behalf of IAFM, I request you to consider it positively and do needful to implement them for the academic calendar of 2014-2015 and onwards.

I am sure that under your esteemed leadership and guidance, the statutory body will uplift the standard of Forensic Medicine with reference to medical education.

Long live IAFM!!!

With sincere regards

[Signature]

General Secretary
Indian Academy of Forensic Medicine (IAFM)

Enclosures:
1. Proposal for Graduate Medical Education
2. Proposal for Post Graduate Medical Education
3. Proposal for Minimum Standard Requirement (MSR)

CC:
1. Vice-President (MCI)
2. Executive Committee Members
3. Chairman & Members- PG Committee
4. Members- MCI
5. Secretary-MCI
6. President-IAFM
DRAFT PROPOSAL- GRADUATE MEDICAL EDUCATION

Review of literatures

a) Curriculum suggested by: Dr. P. K. Devdas, Dr. B. D. Gupta, Dr. V.V. Pillay & Dr. S. M. Mohite committee( 2011)
b) Memo MCI- October 2013
c) Revised GME by MCI( 2012)
d) Memo MCI- July 2012
e) Memo MCI- January 2011
f) Memo MCI- July 2010

Learning Objectives

At the end of the course in Undergraduate Forensic Medicine & Toxicology, the student should be able to
1. Identify, examine and prepare report or certificate in medicolegal cases/situations in accordance with
   the law of the land, with particular emphasis on maintenance of medicolegal registers such as accident
   register, issuance of wound certificate, drunkenness certificate, death certificate, sickness and fitness
   certificate, etc., estimation of age by physical, dental and radiological examination and issuance of
   certificate, examination of victim/accused and issuance of certificate in sex-related offences.
2. Perform medicolegal postmortem examination and reasonably interpret autopsy findings, as well as the
   results of other relevant investigations to logically conclude the cause, manner and time since death –
   especially in accidental deaths, hanging, burns, drowning and poisoning.
3. Preserve and dispatch specimens and other relevant materials in medicolegal/postmortem cases to the
   appropriate Government agencies for necessary examination and report.
4. Understand and observe medical ethics, etiquette, duties, rights, and medicosocial and legal
   responsibilities of the physicians towards patients, profession, State and society at large.
5. Be aware of relevant legal/court procedures applicable to medicolegal/medical practice.
6. Deal with basic aspects of diagnosis and management of poisoning (acute & chronic), and develop
   competence to deal with medicosocial and medicolegal issues arising there-from.
7. Recognize and deal with the general principles of environmental, occupational, and preventive aspects
   of toxicology.
8. Manage medicolegal and medicosocial issues related to mass disasters, including chemical and
   bioterrorism
Knowledge

- Identify medicolegal cases
- Define responsibilities of a basic physician: both medicolegal and medicosocial.
- Appreciate physician’s responsibilities in criminal matters
- Be aware of the principles of analytical toxicology
- Diagnose, manage & document acute/chronic poisonings

Skills

- Perform, make observations in post mortems/make logical inferences
- Prepare proper certificates related to death, age, wound, fitness and sickness
- Describe and testify as an expert witness in a Court of Law

Integration

- Provide integrated approach with other allied disciplines of medicine such as anatomy, pathology, radiology, hospital administration, emergency medicine, dentistry, microbiology, medicine, pharmacology, surgery, obstetrics & gynecology, pediatrics and psychiatry.
- Impart training relating to medicolegal responsibilities of physicians at all levels of health care.

Course Curriculum

Semester III (Total 30 hours)
Topics & Themes

I. Legal Procedures
- Define Courts in India and their powers: Supreme Court, High Court, Sessions Court, Magistrate’s Court, Labour Court, Family Court, Executive Magistrate Court, Juvenile Court
- Describe Court procedures: summons, conduct money, oath, solemn affirmation, types of witnesses, recording of evidence, conduct of medical practitioner/medical officer in witness box
- Outline offences in Court: perjury; court strictures vis-à-vis medical officer
- Demonstrate medical certification and drafting of medicolegal reports:
  - maintenance of patient case records, discharge summary, prescribed registers to be maintained in health centres
  - maintenance of medicolegal register (e.g., accident register)
  - issuance of wound certificate
  - issuance of drunkenness certificate
  - issuance of sickness/ fitness certificate
I. Identification
- Define ‘Identification’ and list the medicolegal aspects related to age
- Outline the principles involved in the methods of identification of an unknown living/dead person by age, sex, stature, scars, moles, tattoos, dactylography, foot prints, hairs, poroscopy, DNA typing, photography and superimposition technique, dental examination including forensic odontology
- Outline the procedure and medicolegal formalities of exhumation
- Develop skills in the examination of mutilated human remains and skeletal remains.

II. Death and its medicolegal aspects
- Differentiate and list natural and unnatural deaths
- Explain issues related to sudden natural deaths; anaesthetic & operative deaths
- Outline the salient features of organ transplantation in relation to The Human Organ Transplant Act 1994. Discuss ethical issues.
- Describe and exemplify the conditions of suspended animation.

IV. Postmortem changes
- Describe cooling of body, lividity, rigor mortis, cadaveric spasm, cold stiffening and heat stiffening
- Describe putrefaction, mummification, adipocere and maceration,
- Estimate time of death by various features and methods

V. Medicolegal autopsy
- Define medicolegal and clinical/pathological autopsies
- Describe the objectives, procedures and formalities of medicolegal autopsies, including the National Human Rights Commission Protocol

Semester IV (Total 40 hours)
Topics & Themes

I. Medical law and ethics
- Medical Jurisprudence
  - Definition and differentiation of forensic medicine and medical jurisprudence.
  - Explain medical negligence: civil and criminal negligence, contributory negligence, vicarious liability, res ipsa loquitur, prevention of medical negligence, and defence in medical negligence litigations
  - Explain Indian Medical Council (MCI) and State Medical Councils (SMC); Provisions of the Medical Council of India Act 1956; Registration of a medical practitioner – procedure; functions and disciplinary control of MCI and SMC.
  - Describe the Consumer Protection Act, 1986; medical indemnity insurance; civil litigations and compensations
  - Describe the legal and ethical aspects of
    - Euthanasia
    - HIV and Law
• Stem cell research and cloning
• Social aspects and stress management in dealing with medicolegal cases
  o Outline the social aspects of medicolegal cases with respect to victims of assault, rape, attempted suicide, homicide, domestic violence, dowry-related cases
  o Outline the challenges in managing medicolegal cases
    • Develop skills in relationship management – human behaviour, communication skills, conflict resolution techniques
    • Outline the principles of handling work pressure – definition, types, causes, sources and skills for managing pressures while dealing with medicolegal cases by the medical practitioner/medical officer
• Bioethics
  o Define medical ethics and outline its historical evolution
  o Explain ethical principles: Respect for patient autonomy, non-malfeasance, beneficence, justice
  o Explain various Oaths – Hippocrates, Charaka and Sushruta; Modified Declaration of Geneva and its relevance; Procedure for administration of Oath – Code of Medical Ethics 2002
  o Describe codes of conduct, professional conduct, etiquette and ethics in medical practice
  o Enumerate and explain the rights, privileges and duties of a registered medical practitioner, disciplinary proceedings in professional misconduct, and penal erasure.
  o Explain medical practitioner/medical officer-patient relationship: professional secrecy, privileged communications
  o Discuss the rights of a patient
  o Explain the legal issues of informed consent:
    • Types of consent and ingredients of informed consent
    • Age in relation to consent
    • Consent in relation to mental illness and alcohol intoxication
    • Consent in emergency situations
  o Ethical dilemmas in medical profession in relation to consent, treatment and death
• Clinical research & ethics
  o Human experimentation, including clinical trials
  o Constitution and functioning of ethical committees
  o Ethical guidelines for biomedical research on human subjects & animals

II. Torture and Human Rights
• Define and explain issues relating to torture
• Identify injuries caused by torture and its sequelae
• Management of torture survivors
• Outline the National Human Rights Commission guidelines and protocols

III. Mechanical injuries
• Define, classify and differentiate – abrasion, contusion and laceration
• Differentiate simple from grievous injuries
• Describe stab wound, incised wound, defence cut, hesitation cuts, self inflicted injuries and fabricated wounds
• Differentiate between accidental, suicidal and homicidal injuries.
• Identification of the weapon by interpretation of the wound
• Explain the causes of death in mechanical injuries
• Determine the age of injury
• Classify firearms and interpret the findings of firearm wounds.
• Explain the medicolegal aspects of wounds.

IV. Regional injuries
• Injuries of head, neck, thorax, abdomen, pelvis, genitalia, vertebral column and other bones
  o Enumerate and describe types of skull fracture
  o Explain coup and contre coup injuries, intracranial haemorrhages, and injury to brain
  o Explain injuries to spine and spinal cord, thoracic, abdominal and pelvic viscera, bones and joints, and their medicolegal importance

V. Transportation injuries
• Road, rail & aviation injuries
  o State the importance of primary, secondary and tertiary impact injuries, crush syndrome
  o Outline the medicolegal importance of investigation of road, railway and aircraft accidents

VI. Injuries/ death due to heat, cold, electricity, lightning, explosives & radioactive substances
VII. Medicolegal management of mass disasters including chemical and bioterrorism

Semester V (Total 40 hours)
Topics & Themes

I. Mechanical asphyxia
• Define, state causes, enumerate types and describe postmortem appearances and medicolegal significance of hanging, strangulation, suffocation, traumatic asphyxia and drowning.

II. Virginity, pregnancy and delivery
• Describe sexual and reproductive rights of women in India
• Describe medicolegal aspects of virginity, pregnancy and delivery
• Explain legitimacy and medicolegal aspects of pregnancy and delivery, including in-vitro fertilisation and surrogacy
• Outline medicolegal aspects of reproductive medicine
  o Impotence
  o Infertility – Male and Female
  o Assisted pregnancies and legal problems, surrogate motherhood, hormone replacement therapy and postmenopausal pregnancies
• Explain principles of protection of women from domestic violence with particular reference to the Domestic Violence Act 2005
• Discuss principles of Pre-Conception and Pre-Natal Diagnostic Techniques (PCPNDT) (Prohibition of Sex Selection) Act 2003

III. Sexual offences
• Describe the medicolegal aspects of sexual offences and outline sexual paraphilias
• Explain the objectives and procedure of examination of victim and accused in cases of sexual offence.

IV. Abortion
• Define and classify abortion.
• Describe Medical Termination of Pregnancy Act, 1971 with amendment.
• Enumerate complications of criminal abortion
• Outline investigative procedure in deaths due to criminal abortion

V. Infant and childhood deaths
• Define still-born, dead-born and live-born child
• Describe the signs of still-born, dead-born and live-born child
• Describe the estimation of age of foetus
• Describe sudden infant death syndrome
• Explain child sexual abuse and its medicolegal implications

VI. Laboratory investigations in medicolegal practice
• Different types of specimens and tissues to be collected in medicolegal cases for investigative purposes from living persons/ dead bodies
  o Body fluids - blood, urine, semen, vaginal smear, saliva, viscera, skull, specimens for blood grouping & DNA analysis, specimens for histopathological examination
  o Methods of sample collection, preservation, labelling, dispatch, and interpretation of reports

VII. Emerging technologies in Forensic Medicine
• Outline the principles, reliability and medicolegal importance of:
  o DNA typing
  o Polygraph (Lie Detector)
  o Narcoanalysis
  o Brain mapping
  o Digital autopsy
  o Virtual autopsy
  o Imaging technologies

VIII. Forensic Psychiatry
• Classify common mental illnesses including post traumatic stress disorder (PTSD) as per DSM or ICD systems
• Define, classify and exemplify – delusions, hallucinations, illusion, impulse control and obsessive compulsive disorders, delirium, lucid interval.
• Describe the civil and criminal responsibilities of a mentally ill person
• Differentiate true insanity from feigned insanity.
• Certification of ‘Insanity’
• Explain testamentary capacity and methods of restraint of an insane person.
• Outline the Indian Mental Health Act, 1987 with special reference to admission, care and discharge of a mentally ill person.

Semester VI (Total 40 hours)
Topics & Themes

I. General Toxicology
• Describe the general principles of diagnosis and management of common poisonings encountered in India
General symptoms of poisoning, simple bedside tests to detect poison/drug in a patient’s body fluids, basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidotal therapy, procedures of enhanced elimination, etc.

- Explain the medicolegal considerations in cases of suspected poisoning
  - Procedure of intimation of suspicious cases or actual cases of foul play to the police, maintenance of records, preservation and despatch of relevant samples for laboratory analysis.

- Outline the general principles of analytical toxicology
  - Brief description of common bedside tests in toxicology

II. Chemical Toxicology

- Describe the clinical features, fatal dose, management, postmortem appearances and medicolegal aspects of poisoning by:
  - Caustics
    - Inorganic – sulphuric, nitric, & hydrochloric acids
    - Organic – carboxylic acid (phenol), oxalic, and acetylsalicylic acids
  - Inorganic elements
    - Phosphorus, iodine, barium
  - Heavy Metals
    - Arsenic, lead, mercury, copper, iron, cadmium, thallium
  - Alcohols
    - Ethanol, methanol, ethylene glycol
  - Hydrocarbons and Pesticides
    - Kerosene, petrol, benzene, methane, turpentine
    - Organophosphates, carbamates, organochlorines, pyrethroids, paraquat, aluminium and zinc phosphide
  - Toxic Gases
    - Ammonia
    - Carbon monoxide
    - Hydrogen cyanide & derivatives, methyl isocyanate, tear (riot control) gases

III. Pharmaceutical Toxicology

- Describe the clinical features, fatal dose, management, postmortem appearances and medicolegal aspects of poisoning by:
  - Antipyretics – paracetamol, salicylates
  - Anti-Infectives: Common antibiotics – an overview
  - Neuropsychotoxicology: Barbiturates, benzodiazepines, phenytoin, lithium, haloperidol, neuroleptics, tricyclics
  - Narcotic Analgesics, Anaesthetics, and Muscle Relaxants
  - Cardiovascular Toxicology
    - Cardiotoxic plants – oleander, odollam, aconite, digitalis
  - Gastro-Intestinal and Endocrinial Drugs – insulin

IV. Biotoxicology

- Describe the clinical features, fatal dose, management, postmortem appearances and medicolegal aspects of poisoning by:
V. Sociomedical Toxicology

- Describe the clinical features, fatal dose, management, postmortem appearances and medicolegal aspects of poisoning by:
  - Substances of dependence and abuse: Tobacco, cannabis, amphetamines, cocaine, hallucinogens, designer drugs & solvent abuse

Required Skills To Handle Cases Pertaining to Forensic Medicine & Toxicology

<table>
<thead>
<tr>
<th>Skill</th>
<th>Able to perform independently</th>
<th>Able to perform under guidance</th>
<th>Observe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prepare proper certificates of birth and death</td>
<td>+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prepare dying declaration</td>
<td>+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Give evidence in a court of law as an expert witness</td>
<td>+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Collect and do proper labeling, preservation and dispatch of medicolegal specimens</td>
<td>+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diagnose and manage common acute and chronic Poisonings</td>
<td>+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perform medicolegal duties in cases of poisoning and log 5 cases in the record book</td>
<td>+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Observe ten medicolegal autopsies* and enter the reports in practical record book</td>
<td>+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age estimation from bones, x-rays and dentition</td>
<td>+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Examination of injuries, weapons and report writing, Draft informed consent form</td>
<td>+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Examination and reporting of an alcohol intoxication case</td>
<td>+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Examination of victim &amp; accused in sexual offences and report writing</td>
<td>+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study of specimens of poisons</td>
<td>+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perform simple bedside tests in poisoning</td>
<td>+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study of wet specimens during autopsy</td>
<td>+</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Medical colleges not having autopsy facilities can depute the students to the nearest Government Medical College
Course Regulations

Course duration
A total teaching time of 150 hours may be allotted for transacting Forensic Medicine & Toxicology curriculum over 4 semesters (3rd to 6th semester)

Course schedule
The principle of integration should form the basis for scheduling the course contents. Forensic Medicine & Toxicology should integrate with the following departments for teaching the subject:
Horizontal: Pathology, Microbiology, Pharmacology
Vertical: Anatomy, Physiology, General Medicine, General Surgery and Obstetrics and Gynaecology, Pediatrics & Radiodiagnosis

Methods of assessment:
Internal assessment programme:
1. Periodic objective/problem based tests – One at the end of each semester
2. Activity – Case studies/ Seminars/ Individual and group assignments
3. Practical Assessment
4. Structured Oral Viva Voce
5. Internal Assessments (a minimum of 3 in number) should be held (I- end of 4th sem, II- end of 5th sem, Prelim-end of 6th sem)

Evaluation:
At the end of the sixth semester of MBBS, two papers of University theory examination, one practical examination and viva voce must be conducted.
Paper 1 – Forensic Medicine and Forensic Psychiatry – 3 hours
Paper 2 – Medical Jurisprudence and Toxicology – 3 hours

Details of Assessment: Marks
University Theory Paper 1 - 80 (Forensic Medicine 70 + Forensic Psychiatry – 10)
University Theory Paper 2 - 80 (Medical Jurisprudence 30 + Toxicology – 50)
University Practical Examination – 80 Viva Voce – 20
Internal Assessment - Theory 20 Practical 20
TOTAL 300

Assessment methods must include essay questions, short answer questions, MCQs, problem solving exercises, objective and structured clinical examination (OSCE), objective and structured practical examination (OSPE), microscopic examination, records review, and structured oral viva voce.
In practical examination, the distribution of marks shall be as follows (each carrying 10 marks):

i. Age estimation of subject or on the basis of X-rays & issuance of age certificate
ii. Examination and report on skeletal remains
iii. Medical certification of cause of death
iv. Sickness and fitness certification
v. Examination and certification of injured person
vi. Examination of a case of drunkenness
vii. Problem solving exercise based on medicolegal autopsy report
viii. Problem solving exercise of a case of poisoning

The marks obtained in the internal assessments should be considered along with the final marks obtained in the theory and practical examination.

A candidate must obtain 50 percent in aggregate, with 50 percent in Theory + Viva Voce (minimum of 40% in theory), & 50 percent in practicals.

Internship:

Compulsory internship posting of 15 days to the department of Forensic Medicine & Toxicology. The posting should include working in the mortuary, casualty, handling clinical forensic medicine cases and attending court. During the posting, the candidate should assist minimum of TWO medicolegal autopsies, and perform ONE medicolegal autopsy under guidance. Medical colleges not having autopsy facilities can depute the interns to the nearest Govt Medical College.
DRAFT PROPOSAL-
POST GRADUATE MEDICAL EDUCATION

Review of literatures

a) RTI reply from MCI to Dr Mahabalesh Shetty (July 2012)
b) Memo MCI- October 2013
c) Memo MCI- July 2012
d) Memo MCI- January 2011
e) Memo MCI- July 2010
f) Post Graduate Medical Education Regulations, 2000
g) Opening of a new or higher course of study or training (MCI) amended upto 2010

1. No medical college shall be permitted to start post graduate course in Forensic Medicine unless it has “in campus” mortuary complex (as per MCI norms) catering medico legal postmortem services.

   The clause 2 of qualifying criteria(vide g) -“ The permission letter regarding desirability and feasibility for opening a new or higher course in the medical college/institution has been obtained by the applicant from the respective State Government or the Union Territory administration,” must have mention of authorization for conducting medico legal postmortem work and other medico legal services.

   The clause -3.2 (vide g) " That Essentiality Certificate in the prescribed format regarding no objection of the State Government/Union Territory administration for opening of New or Higher Course of Study or Training (Including Post Graduate Course of Study or Training) and Increase of Admission Capacity in any Course of Study or Training (Including a Post Graduate Course of Study or Training) in the medical college/institution and availability of the adequate clinical material as per the Council Regulations have been obtained by the applicant from the concerned State Government/Union Territory administration, as the case may be,” must have mention of authorization for conducting medico legal postmortem work and other medico legal services.

2. The institutions having permission of such course but not having such facility must be informed for “zero admission” until compliance.
3. Private institutions can cater such services in any of the following ways:
   a) Seek authorization from state government for post mortem services by their own staff;
   b) Seek deputation (at the cost of private institution) of Forensic faculty from government at the institution.

4. Until private institutions comply above requisite, for a period of 1-2 years (transitory period only), institutions shall depute the PG students (one month per semester) to nearest government medical college (not PHC/CHC/district hospital) for attending post mortem examinations & clinical forensic medicine cases.

**Course Curriculum**

<table>
<thead>
<tr>
<th>Area</th>
<th>Hours</th>
<th>Posting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Sciences</td>
<td>30</td>
<td>-</td>
</tr>
<tr>
<td>Medical Jurisprudence</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>Clinical Forensic Medicine</td>
<td>40</td>
<td>Casualty- 3 week per semester</td>
</tr>
<tr>
<td>Sexual Jurisprudence</td>
<td>20</td>
<td>Mortuary- 12 week per semester</td>
</tr>
<tr>
<td>Forensic Pathology</td>
<td>60</td>
<td>Medicine &amp; Pediatrics -1 week each per semester</td>
</tr>
<tr>
<td>Toxicology</td>
<td>40</td>
<td>4 week deputation at FSL in 4th semester</td>
</tr>
<tr>
<td>FSL techniques</td>
<td>10</td>
<td>1 week deputation in department of Pathology in 2nd semester</td>
</tr>
<tr>
<td>Microscopy in Forensic Medicine</td>
<td>5</td>
<td>1 week deputation in department of Radiology in 3rd semester</td>
</tr>
<tr>
<td>Forensic Radiology</td>
<td>10</td>
<td>1 week deputation in Anatomy in 2nd semester</td>
</tr>
<tr>
<td>Embalming techniques</td>
<td>5</td>
<td>By PG student</td>
</tr>
<tr>
<td>Journal reading</td>
<td>10 hrs / semester</td>
<td>By PG student</td>
</tr>
<tr>
<td>PG Seminar</td>
<td>2 presentation/ semester</td>
<td>By PG student</td>
</tr>
<tr>
<td>Research Publication</td>
<td>5 hrs / semester</td>
<td></td>
</tr>
<tr>
<td>Teaching methodologies</td>
<td>2 hrs / semester</td>
<td></td>
</tr>
<tr>
<td>Recent Advancements</td>
<td>2hrs / semester</td>
<td></td>
</tr>
</tbody>
</table>
## Schedule of Integrated Teaching

<table>
<thead>
<tr>
<th>Area</th>
<th>Learning Elements</th>
<th>Departments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identification</td>
<td>Anthropology</td>
<td>FMT [3]</td>
</tr>
<tr>
<td></td>
<td>Forensic Osteology</td>
<td>Anatomy [2]</td>
</tr>
<tr>
<td></td>
<td>Forensic Odontology</td>
<td></td>
</tr>
<tr>
<td>Medical Law and Ethics</td>
<td>Code of Conduct</td>
<td>FMT [4]</td>
</tr>
<tr>
<td></td>
<td>Etiquette and Ethics in Medical Practice</td>
<td>Surgery [1]</td>
</tr>
<tr>
<td></td>
<td>Duties, Rights &amp; Privileges of RMP Consent</td>
<td>Medicine [1]</td>
</tr>
<tr>
<td>Mechanical Injuries</td>
<td>Types of Mechanical Injuries</td>
<td>FMT [5]</td>
</tr>
<tr>
<td></td>
<td>Regional Injuries</td>
<td>Emergency Med [1]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Surgery [2]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pathology [1]</td>
</tr>
<tr>
<td>Sexual jurisprudence</td>
<td>Virginity, Pregnancy and Delivery</td>
<td>FMT [4]</td>
</tr>
<tr>
<td></td>
<td>Sexual Offences</td>
<td>Obs &amp; Gyn [2]</td>
</tr>
<tr>
<td></td>
<td>Abortion</td>
<td></td>
</tr>
<tr>
<td>Infant Deaths</td>
<td>Infant and Childhood Deaths</td>
<td>FMT [3]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pediatrics [1]</td>
</tr>
<tr>
<td>Forensic Psychiatry</td>
<td>Basic Psychiatry</td>
<td>FMT [3]</td>
</tr>
<tr>
<td></td>
<td>Medicolegal Issues</td>
<td>Psychiatry [2]</td>
</tr>
<tr>
<td>Toxicology</td>
<td>Clinical &amp; Pharmaceutical Aspects of Toxicology</td>
<td>FMT [5]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pharmacology [2]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medicine [2]</td>
</tr>
<tr>
<td>Clinical Research &amp; Ethics</td>
<td>Human Experimentation &amp; Clinical Trials</td>
<td>FMT [2]</td>
</tr>
<tr>
<td></td>
<td>Ethical Committees</td>
<td>Pharmacology [1]</td>
</tr>
<tr>
<td></td>
<td>Ethical Guidelines for Biomedical Research on Human Subjects &amp; Animals</td>
<td></td>
</tr>
<tr>
<td>Organ Transplantation</td>
<td>Medicolegal &amp; Ethical Issues</td>
<td>FMT [2]</td>
</tr>
<tr>
<td></td>
<td>The Human Organ Transplant Act 1994</td>
<td>Surgery [1]</td>
</tr>
</tbody>
</table>

*Office: Dr Madhu Ghodkirekar (Office Co-Coordinator)  
Media Room, Dept. of Forensic Medicine (New Complex)  
Goa Medical College, Bambolim, Goa-403202.*
### Skills

<table>
<thead>
<tr>
<th>Skill</th>
</tr>
</thead>
<tbody>
<tr>
<td>Able to perform independently</td>
</tr>
<tr>
<td>Medical Certification of Cause of death</td>
</tr>
<tr>
<td>Role at dying declaration</td>
</tr>
<tr>
<td>Give evidence in a court of law as an expert witness</td>
</tr>
<tr>
<td>Collection, labeling, preservation and dispatch of medico legal specimens</td>
</tr>
<tr>
<td>Diagnose and manage common acute and chronic Poisonings</td>
</tr>
<tr>
<td>Observe ten medico legal autopsies* per semester</td>
</tr>
<tr>
<td>Age estimation from bones, x-rays and dentition</td>
</tr>
<tr>
<td>Examination of injuries, weapons and report writing</td>
</tr>
<tr>
<td>Evaluation of consent &amp; medical negligence</td>
</tr>
<tr>
<td>Evaluation of psychiatric illness of ML importance</td>
</tr>
<tr>
<td>Examination and reporting of an alcohol intoxication case</td>
</tr>
<tr>
<td>Examination of victim &amp; accused in sexual offences</td>
</tr>
<tr>
<td>Study of specimens of poisons</td>
</tr>
<tr>
<td>Perform simple bedside tests in poisoning</td>
</tr>
<tr>
<td>Study of wet specimens during autopsy</td>
</tr>
<tr>
<td>Oral Presentation</td>
</tr>
<tr>
<td>Paper publication</td>
</tr>
<tr>
<td>Teaching methodologies- lectures, group discussion, problem based learning</td>
</tr>
<tr>
<td>Preparation &amp; interpretation of HP &amp; other microscopic examinations</td>
</tr>
<tr>
<td>Analysis/interpretation of FSL reports</td>
</tr>
<tr>
<td>Legal &amp; Ethical issues of clinical research</td>
</tr>
<tr>
<td>Exercise of medico legal audit</td>
</tr>
</tbody>
</table>
DRAFT PROPOSAL- MINIMUM STANDARD REQUIREMENT

Review of literatures

a) MSR- MCI  
b) Memo MCI- October 2013  
c) Revised GME by MCI( 2012)  
d) Memo MCI- July 2012  
e) Memo MCI- January 2011  
f) Memo MCI- July 2010

Phase wise Staff requirement

Annual admissions-50

<table>
<thead>
<tr>
<th></th>
<th>LOI/LOP</th>
<th>1st renewal</th>
<th>2nd renewal</th>
<th>3rd renewal</th>
<th>4th renewal</th>
<th>Recognition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Tutor/ Demonstrator</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

For more than 500 post mortems annually- additional staff: 1 Assistant Professor + 1 Tutor
### Annual admissions - 100

<table>
<thead>
<tr>
<th>LOI/LOP</th>
<th>1&lt;sup&gt;st&lt;/sup&gt; renewal</th>
<th>2&lt;sup&gt;nd&lt;/sup&gt; renewal</th>
<th>3&lt;sup&gt;rd&lt;/sup&gt; renewal</th>
<th>4&lt;sup&gt;th&lt;/sup&gt; renewal</th>
<th>Recognition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Tutor/demonstrator</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

For more than 500 post mortems annually- additional staff: 1 Assistant Professor + 2 Tutor

### Annual admissions - 150

<table>
<thead>
<tr>
<th>LOI/LOP</th>
<th>1&lt;sup&gt;st&lt;/sup&gt; renewal</th>
<th>2&lt;sup&gt;nd&lt;/sup&gt; renewal</th>
<th>3&lt;sup&gt;rd&lt;/sup&gt; renewal</th>
<th>4&lt;sup&gt;th&lt;/sup&gt; renewal</th>
<th>Recognition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Tutor/demonstrator</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

For more than 500 post mortems annually- additional staff: 1 Assistant Professor + 2 Tutor

### Annual admissions - 200

<table>
<thead>
<tr>
<th>LOI/LOP</th>
<th>1&lt;sup&gt;st&lt;/sup&gt; renewal</th>
<th>2&lt;sup&gt;nd&lt;/sup&gt; renewal</th>
<th>3&lt;sup&gt;rd&lt;/sup&gt; renewal</th>
<th>4&lt;sup&gt;th&lt;/sup&gt; renewal</th>
<th>Recognition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Tutor/demonstrator</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

For more than 500 post mortems annually- additional staff: 1 Assistant Professor + 2 Tutor

*Office :- Dr Madhu Ghodkirekar (Office Co-Coordinator)*  
*Media Room, Dept. of Forensic Medicine (New Complex)*  
*Goa Medical College, Bambolim, Goa-403202.*
Indian Academy of Forensic Medicine  
Governing Council( 2013-2016)  
Registration No.349, Panji, Goa

Dr. S.D. Nanandkar                                  Dr.C. B. Jani                                Dr. S.K. Dadu 
President                                      General Secretary                            Treasurer

Office: -
Dr Madhu Ghodkirekar                               
(Office Co- Coordinator) 
Media Room , Dept. of Forensic Medicine ( New Complex)  
Goa Medical College, Bambolim , Goa-403202.

Annual admissions-250

<table>
<thead>
<tr>
<th></th>
<th>LOI/LOP</th>
<th>1st renewal</th>
<th>2nd renewal</th>
<th>3rd renewal</th>
<th>4th renewal</th>
<th>Recognition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Tutor/ Demonstrator</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

For more than 500 post mortems annually- additional staff: 1 Assistant Professor + 2 Tutor

Staff requirement- Recognition

<table>
<thead>
<tr>
<th>Admission Capacity</th>
<th>50</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Tutor/ Demonstrator</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

For more than 500 post mortems annually- additional staff: 1 Assistant Professor + 2 Tutor