

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FORENSIC MEDICINE & TOXICOLOGY										
Topic: General Information		Number of competencies: (11)			Number of procedures that require certification: (NIL)					
FM1.1	Demonstrate knowledge of basics of Forensic Medicine like definitions of Forensic medicine, Clinical Forensic Medicine, Forensic Pathology, State Medicine, Legal Medicine and Medical Jurisprudence	1 - At the end of the session,the phase III part I MBBS student should be able to - Define Forensic medicine correctly. 2 - At the end of the session,the phase III part I MBBS student should be able to -Define Clinical Forensic Medicine correctly. 3 - At the end of the session,the phase III part I MBBS student should be able to -Define Forensic Pathology correctly. 4 - At the end of the session,the phase III part I MBBS student should be able to Define State Medicine correctly. 5 - At the end of the session,the phase III part I MBBS student should be able to Define Legal Medicine correctly. 6 - At the end of the session,the phase III part I MBBS student should be able to define Medical Jurisprudence correctly.	K	KH	N	Lecture, Small Group Discussion	Written/ Viva voce			
FM1.2	Describe history of Forensic Medicine	1 - At the end of the session,the phase III part I MBBS student should be able to Describe history of Forensic Medicine correctly.	K	KH	N	Lecture, Small Group Discussion	Written/ Viva voce			
FM1.3	Describe legal procedures including Criminal Procedure Code, Indian Penal Code, Indian Evidence Act, Civil and Criminal Cases, Inquest (Police Inquest and Magistrate's Inquest), Cognizable and Non-cognizable offences	1 - .At the end of the session,the phase III part I MBBS student should be able to - Define Criminal Procedure Code correctly. 2 - At the end of the session,the phase III part I MBBS student should be able to -define Indian Penal Code correctly. 3 - At the end of the session,the phase III part I MBBS student should be able to- define Indian Evidence Act correctly. 4 - At the end of the session,the phase III part I MBBS student should be able to- define Civil cases correctly. 5 - At the end of the session,the phase III part I MBBS student should be able to- define Criminal Cases correctly. 6 - At the end of the session,the phase III part I MBBS student should be able to - define Inquest correctly. 7 - At the end of the session,the phase III part I MBBS student should be able to- describe Police Inquest correctly. 8 - At the end of the session,the phase III part I MBBS student should be able to - describe Magistrate's Inquest correctly. 9 - At the end of the session,the phase III part I MBBS student should be able to- describe Cognizable offences correctly. 10 - At the end of the session,the phase III part I MBBS student should be able to- describe Non-cognizable offences correctly.	K	KH	N	Lecture, Small Group Discussion	Written/ Viva voce			
FM1.4	Describe Courts in India and their powers: Supreme Court, High Court, Sessions court, Magistrate's Court, Labour Court, Family Court, Executive Magistrate Court and Juvenile Justice Board	1 - At the end of the session,the phase III part I MBBS student should be able to - Describe various Courts in India. 2 - At the end of the session,the phase III part I MBBS student should be able to discuss the powers of various courts.	K	KH	N	Lecture, Small Group Discussion	Written/ Viva voce			

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FM1.5	Describe Court procedures including issue of Summons, conduct money, types of witnesses, recording of evidence oath, affirmation, examination in chief, cross examination, re-examination and court questions, recording of evidence & conduct of doctor in witness box	<p>1 - At the end of the session, the phase III part I MBBS student should be able to - Describe Court procedures including issue of Summons.</p> <p>2 - At the end of the session, the phase III part I MBBS student should be able to discuss conduct money.</p> <p>3 - At the end of the session, the phase III part I MBBS student should be able to discuss types of witnesses.</p> <p>4 - At the end of the session, the phase III part I MBBS student should be able to describe recording of evidence.</p> <p>5 - At the end of the session, the phase III part I MBBS student should be able to describe oath affirmation.</p> <p>6 - At the end of the session, the phase III part I MBBS student should be able to describe examination in chief.</p> <p>7 - At the end of the session, the phase III part I MBBS student should be able to describe cross examination.</p> <p>8 - At the end of the session, the phase III part I MBBS student should be able to describe re-examination.</p> <p>9 - At the end of the session, the phase III part I MBBS student should be able to describe court questions.</p> <p>10 - At the end of the session, the phase III part I MBBS student should be able to describe recording of evidence.</p> <p>11 - At the end of the session, the phase III part I MBBS student should be able to discuss conduct of doctor in witness box.</p>	K	KH	N	Lecture, Small Group Discussion, Moot Court	Written/ Viva voce			
FM1.6	Describe Offenses in Court including Perjury; Court strictures vis-a-vis Medical Officer	<p>1 - At the end of the session, the phase III part I MBBS student should be able to - Describe Offenses in Court including Perjury,</p> <p>2 - At the end of the session, the phase III part I MBBS student should be able to - Describe Court strictures vis-a-vis Medical Officer.</p>	K	KH	N	Lecture, Small Group Discussion	Written/ Viva voce			
FM1.7	Describe Dying Declaration & Dying Deposition	<p>1 - At the end of the session, the phase III part I MBBS student must be able to Describe Dying Declaration.</p> <p>2 - At the end of the session, the phase III part I MBBS student must be able to describe Dying Deposition.</p>	K	KH	Y	Lecture, Small Group Discussion	Written/ Viva voce			

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FM1.8	Describe the latest decisions/ notifications/resolutions/circulars/standing orders related to medico-legal practice issued by Courts/Government authorities etc.	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the latest decisions related to medico-legal practice issued by courts/ Government authorities etc.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Describe the latest notificationsrelated to medico-legal practice issued by courts/ Government authorities etc.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Describe the latest resolutions related to medico-legal practice issued by courts/ Government authorities etc.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Describe the latest circulars related to medico-legal practice issued by courts/ Government authorities etc.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Describe the latest standing orders related to medico-legal practice issued by courts/ Government authorities etc.</p>	K	KH	Y	Lecture, Small Group Discussion	Written/ Viva voce			
FM1.9	Describe the importance of documentation in medical practice in regard to medicolegal examinations, Medical Certificates and medicolegal reports especially - maintenance of patient case records, discharge summary, prescribed registers to be maintained in Health Centres. - maintenance of medico-legal register like accident register. - documents of issuance of wound certificate - documents of issuance of drunkenness certificate. - documents of issuance of sickness and fitness certificate. - documents for issuance of death certificate. -documents of Medical Certification of Cause of Death - Form Number4 and 4A - documents for estimation of age by physical, dental and radiological examination and issuance of certificate	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the importance of documentation in medical practice in regard to medicolegal examinations, Medical Certificates and medicolegal reports.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - maintenance of patient case records,</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - discharge summary</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - prescribed registers to be maintained in Health Centres</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - maintenance of medico-legal register like accident register</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - documents of issuance of wound certificate .</p> <p>7- At the end of the session,the phase III part I MBBS student must be able to - documents of issuance of drunkenness certificate.</p> <p>8 - At the end of the session,the phase III part I MBBS student must be able to - documents of issuance of sickness fitness certificate</p> <p>9 - At the end of the session,the phase III part I MBBS student must be able to - documents of issuance of fitness certificate.</p> <p>10 - At the end of the session,the phase III part I MBBS student must be able to- documents for issuance of death certificate. - documents of Medical Certification of Cause of Death - Form Number4 and 4A.</p> <p>11 - At the end of the session,the phase III part I MBBS student must be able to - documents for estimation of age by physical, dental and radiological examination and issuance of certificate.</p>	K	KH	Y	Lecture, Small Group Discussion	Written/ Viva voce		Radiodiagnosis, General Surgery, General Medicine, Pediatrics	

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FM1.10	Select appropriate cause of death in a particular scenario by referring ICD 10 code	1 - At the end of the session,the phase III part I MBBS student must be able to - choose an appropriate cause of death in a particular scenario by referring ICD 10 code.	K	KH	Y	Lecture, Small Group Discussion	Written/ Viva voce			
FM1.11	Write a correct cause of death certificate as per ICD 10 document	1 - At the end of the session,the phase III part I MBBS student must be able to - Write a correct cause of death certificate as per ICD 10 document.	S	SH	Y	Lecture, Small Group Discussion	Written/ Viva voce			

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Topic: Forensic Pathology			Number of competencies: (35)			Number of procedures that require certification : (NIL)				
FM2.1	Define, describe and discuss death and its types including somatic/clinical/cellular, molecular and brain-death, Cortical Death and Brainstem Death	1 - At the end of the session,the phase III part I MBBS student must be able to - Define Death. 2 - At the end of the session,the phase III part I MBBS student must be able to - Clasify Death. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe Cortical Death. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Brainstem Death	K	KH	Y	Lecture/Small group discussion	Written/ Viva voce	Pathology		
FM2.2	Describe and discuss natural and unnatural deaths	1 - At the end of the session,the phase III part I MBBS student must be able to -Describe Natural Death. 2 - At the end of the session,the phase III part I MBBS student must be able to - Duscuss Un-natural Death.	K	KH	Y	Lecture, Small Group Discussion	Written/ Viva voce	Pathology		
FM2.3	Describe and discuss issues related to sudden natural deaths	1 - At the end of the session,the phase III part I MBBS student must be able to -Describe Sudden Natural death. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss issues related to sudden natural death.	K	KH	Y	Lecture, Small Group Discussion	Written/ Viva voce	Pathology		
FM2.4	Describe salient features of the Organ Transplantation and The Human Organ Transplant (Amendment) Act 2011 and discuss ethical issues regarding organ donation	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe salient features of the Organ Transplantation. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss salient features of The Human Organ Transplant (Amendment) Act 2011. 3 - At the end of the session,the phase III part I MBBS student must be able to - discuss ethical issues regarding organ donation.	K	KH	Y	Lecture/Small group discussion	Written/ Viva voce	AETCOM		
FM2.5	Discuss moment of death, modes of death - coma, asphyxia and syncope	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss moment of death (coma, asphyxia and syncope) 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss modes of death (coma, asphyxia and syncope)	K	KH	Y	Lecture, Small Group Discussion	Written/ Viva voce		Psychiatry, Pathology	

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FM2.6	Discuss presumption of death and survivorship	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss presumption of death. 2 - At the end of the session,the phase III part I MBBS student must be able to -Discuss presumption of survivorship.	K	KH	Y	Lecture, Small Group Discussion	Written/ Viva voce			
FM2.7	Describe and discuss suspended animation	1 - At the end of the session,the phase III part I MBBS student must be able to - discuss suspended animation	K	KH	Y	Lecture, Small Group Discussion	Written/ Viva voce			
FM2.8	Describe and discuss postmortem changes including signs of death, cooling of body, post-mortem lividity, rigor mortis, cadaveric spasm, cold stiffening and heat stiffening	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe signs and death/ postmortem changes (Immediate & early changes)	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE			
FM2.9	Describe putrefaction, mummification, adipocere and maceration	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe signs and death/ postmortem changes (Late changes)	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE			
FM2.10	Discuss estimation of time since death	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss estimation of time since death.	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE			
FM2.11	Describe and discuss autopsy procedures including post-mortem examination, different types of autopsies, aims and objectives of post-mortem examination	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe discuss autopsy procedures (Including P.M.Examination) 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss different types of autopsies. 3 - At the end of the session,the phase III part I MBBS student must be able to - discuss aims and objectives of post-mortem examination.	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE		Pathology	
FM2.12	Describe the legal requirements to conduct post-mortem examination and procedures to conduct medico-legal post-mortem examination	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the legal requirements to conduct post-mortem examination. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss procedures to conduct medico-legal post-mortem examination	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE		Pathology	
FM2.13	Describe and discuss obscure autopsy	1 - At the end of the session,the phase III part I MBBS student must be able to - discuss obscure autopsy.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	

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FM2.14	Describe and discuss examination of clothing, preservation of viscera on post-mortem examination for chemical analysis and other medico-legal purposes, post-mortem artefacts	1 - At the end of the session,the phase III part I MBBS student must be able to - discuss examination of clothing. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss preservation of viscera on post-mortem examination for chemical analysis. 3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss preservation of viscera on post-mortem examination for other medico - legal purposes. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss post-mortem artefacts.	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE			
FM2.15	Describe special protocols for conduction of medico-legal autopsies in cases of death in custody or following violation of human rights as per National Human Rights Commission Guidelines	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe special protocols for conduction of medico-legal autopsies in cases of death in custody or following violation of human rights as per National Human Rights Commission Guidelines.	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE			
FM2.16	Describe and discuss examination of mutilated bodies or fragments, charred bones and bundle of bones	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe examination of mutilated bodies or fragments. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe examination of charred bones. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe examination of bundle of bones.	K	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce/ OSPE			
FM2.17	Describe and discuss exhumation	1 - At the end of the session,the phase III part I MBBS student must be able to - discuss exhumation.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
FM2.18	Crime Scene Investigation: Describe and discuss the objectives of crime scene visit, the duties & responsibilities of doctors on crime scene and there construction of sequence of events after crime scene investigation	1 - At the end of the session,the phase III part I MBBS student must be able to - discuss the objectives of crime scene visit. 2 - At the end of the session,the phase III part I MBBS student must be able to - discuss duties & responsibilities of doctors on crime scene. 3 - At the end of the session,the phase III part I MBBS student must be able to - discuss construction of sequence of events after crime scene investigation.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

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FM2.19	Investigation of anaesthetic, operative deaths: Describe and discuss special protocols for conduction of autopsy and for collection, preservation and dispatch of related material evidences	1 - At the end of the session,the phase III part I MBBS student must be able to -discuss the Investigation of anaesthetic, deaths. 2 - At the end of the session,the phase III part I MBBS student must be able to - discuss the Investigation of operative deaths.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Anesthesiology, General Surgery	
FM2.20	Mechanical asphyxia: Define, classify and describe asphyxia and medico-legal interpretation of post-mortem findings in asphyxial deaths	1 - At the end of the session,the phase III part I MBBS student must be able to - Difine Mechanical asphyxia. 2 - At the end of the session,the phase III part I MBBS student must be able to - classify Mechanical asphyxia. 3 - At the end of the session,the phase III part I MBBS student must be able to - describe asphyxia. 4 - At the end of the session,the phase III part I MBBS student must be able to - discuss medico-legal interpretation of post-mortem findings in asphyxial deaths.	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE			
FM2.21	Mechanical asphyxia: Describe and discuss different types of hanging and strangulation including clinical findings, causes of death, post-mortem findings and medico-legal aspects of death due to hanging and strangulation including examination, preservation and dispatch of ligature material	1 - At the end of the session,the phase III part I MBBS student must be able to - define hanging. 2 - At the end of the session,the phase III part I MBBS student must be able to - define strangulation. 3 - At the end of the session,the phase III part I MBBS student must be able to - clasify hanging. 4 - At the end of the session,the phase III part I MBBS student must be able to - clasify strangulation. 5 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical findings of hanging. 6 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical findings of strangulation. 7 - At the end of the session,the phase III part I MBBS student must be able to - discuss causes of death in hanging. 8 - At the end of the session,the phase III part I MBBS student must be able to - discuss causes of death in strangulation. 9 - At the end of the session,the phase III part I MBBS student must be able to - discuss post-mortem findings of hanging death. 10 - At the end of the session,the phase III part I MBBS student must be able to - discuss post-mortem findings of strangulation death. 11 - At the end of the session,the phase III part I MBBS student must be able to - discuss medico-legal aspects of hanging and strangulation. 12 - At the end of the session,the phase III part I MBBS student must be able to - discuss examination, preservation and dispatch of ligature material.	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE			

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FM2.22	Mechanical asphyxia: Describe and discuss patho-physiology, clinical features, postmortem findings and medico-legal aspects of traumatic asphyxia, obstruction of nose & mouth, suffocation and sexual asphyxia	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss patho-physiology of traumatic asphyxia</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss patho-physiology of obstruction of nose & mouth</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss patho-physiology of suffocation.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss patho-physiology of sexual asphyxia.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss clinical features of traumatic asphyxia.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss clinical features of obstruction of nose & mouth.</p> <p>7 - At the end of the session,the phase III part I MBBS student must be able to - Discuss clinical features of suffocation.</p> <p>8 - At the end of the session,the phase III part I MBBS student must be able to - Discuss clinical features of sexual asphyxia.</p> <p>9 - At the end of the session,the phase III part I MBBS student must be able to - discuss postmortem findings of traumatic asphyxia.</p> <p>10 - At the end of the session,the phase III part I MBBS student must be able to - discuss postmortem findings of obstruction nose & mouth.</p> <p>11 - At the end of the session,the phase III part I MBBS student must be able to - discuss postmortem findings of suffocation.</p> <p>12 - At the end of the session,the phase III part I MBBS student must be able to - discuss postmortem findings of sexual asphyxia.</p> <p>13 - At the end of the session,the phase III part I MBBS student must be able to - Discuss medico-legal aspects of traumatic asphyxia</p> <p>14 - At the end of the session,the phase III part I MBBS student must be able to - Discuss medico-legal aspects of obstruction nose & mouth.</p> <p>15 - At the end of the session,the phase III part I MBBS student must be able to - Discuss medico-legal aspects of suffocation.</p> <p>16 - At the end of the session,the phase III part I MBBS student must be able to - Discuss medico-legal aspects of sexual asphyxia.</p>	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE			

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FM2.23	Describe and discuss types, patho-physiology, clinical features, postmortem findings and medico-legal aspects of drowning, diatom test and, gettler test.	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - define drowning.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to -classify drowning.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Describe patho-physiology drowning.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features drowning.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Describe postmortem findings drowning.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - Describe medico-legal aspects drowning.</p> <p>7 - At the end of the session,the phase III part I MBBS student must be able to - discuss diatom test.</p> <p>8 -At the end of the session,the phase III part I MBBS student must be able to - discuss gettler test.</p>	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE			

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FM2.24	Thermal deaths: Describe the clinical features, post-mortem finding and medicolegal aspects of injuries due to physical agents like heat (heat-hyper pyrexia, heatstroke, sunstroke, heat exhaustion/prostration, heat cramps [miner's cramp] or cold (systemic and localized hypothermia, frostbite, trenchfoot, immersion foot)	<p>1 - At the end of the session, the phase III part I MBBS student must be able to - Define Thermal injuries.</p> <p>2 - At the end of the session, the phase III part I MBBS student must be able to - Classify Thermal injuries.</p> <p>3 - At the end of the session, the phase III part I MBBS student must be able to - Describe clinical features heat-hyper pyrexia.</p> <p>4 - At the end of the session, the phase III part I MBBS student must be able to - Describe clinical features heatstroke.</p> <p>5 - At the end of the session, the phase III part I MBBS student must be able to - Describe clinical features sunstroke.</p> <p>6 - At the end of the session, the phase III part I MBBS student must be able to - Describe clinical features heat exhaustion.</p> <p>7 - At the end of the session, the phase III part I MBBS student must be able to - Describe clinical features heat cramps.</p> <p>8 - At the end of the session, the phase III part I MBBS student must be able to - Describe clinical features hypothermia.</p> <p>9 - At the end of the session, the phase III part I MBBS student must be able to - Describe clinical features frostbite.</p> <p>10 - At the end of the session, the phase III part I MBBS student must be able to - Describe clinical features trenchfoot.</p> <p>11 - At the end of the session, the phase III part I MBBS student must be able to - Describe clinical features immersion foot.</p> <p>12 - At the end of the session, the phase III part I MBBS student must be able to - Discuss post-mortem finding heat-hyper pyrexia.</p> <p>13 - At the end of the session, the phase III part I MBBS student must be able to - Discuss post-mortem finding heatstroke.</p> <p>14 - At the end of the session, the phase III part I MBBS student must be able to - Discuss post-mortem finding sunstroke.</p> <p>15 - At the end of the session, the phase III part I MBBS student must be able to - Discuss post-mortem finding heat exhaustion.</p>	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce			

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		<p>16 - At the end of the session,the phase III part I MBBS student must be able to - Discuss post-mortem finding heat cramps.</p> <p>17 - At the end of the session,the phase III part I MBBS student must be able to - Discuss post-mortem finding hypothermia.</p> <p>18 - At the end of the session,the phase III part I MBBS student must be able to - Discuss post-mortem finding frostbite.</p> <p>19 - At the end of the session,the phase III part I MBBS student must be able to - Discuss post-mortem finding trenchfoot.</p> <p>20 - At the end of the session,the phase III part I MBBS student must be able to - Discuss post-mortem finding immersion foot.</p> <p>21 - At the end of the session,the phase III part I MBBS student must be able to - Describe medicolegal aspects heat-hyper pyrexia.</p> <p>22 -At the end of the session,the phase III part I MBBS student must be able to - Describe medicolegal aspects heatstroke.</p> <p>23 - At the end of the session,the phase III part I MBBS student must be able to - Describe medicolegal aspects sunstroke.</p> <p>24 - At the end of the session,the phase III part I MBBS student must be able to - Describe medicolegal aspects heat exhaustion.</p> <p>25 - At the end of the session,the phase III part I MBBS student must be able to - Describe medicolegal aspects heat cramps.</p> <p>26 - At the end of the session,the phase III part I MBBS student must be able to - Describe medicolegal aspects hypothermia.</p> <p>27 - At the end of the session,the phase III part I MBBS student must be able to - Describe medicolegal aspects frostbite.</p> <p>28 - At the end of the session,the phase III part I MBBS student must be able to - Describe medicolegal aspects trenchfoot.</p> <p>29 - At the end of the session,the phase III part I MBBS student must be able to - Describe medicolegal aspects immersion foot.</p>								

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Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM2.25	Describe types of injuries, clinical features, patho-physiology, postmortem findings and medico-legal aspects in cases of burns, scalds, lightening, electrocution and radiations	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Define Injury.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to -Clasify Injury.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features of burns</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features of scalds</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features of lightening</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features of electrocution</p> <p>7 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features of radiations.</p> <p>8 - At the end of the session,the phase III part I MBBS student must be able to - Discuss patho-physiology of burns</p> <p>9 - At the end of the session,the phase III part I MBBS student must be able to - Discuss patho-physiology of scalds</p> <p>10 - At the end of the session,the phase III part I MBBS student must be able to - Discuss patho-physiology of lightening</p> <p>11 - At the end of the session,the phase III part I MBBS student must be able to - Discuss patho-physiology of electrocution.</p> <p>12 - At the end of the session,the phase III part I MBBS student must be able to - Discuss patho-physiology of radiations.</p> <p>13 - At the end of the session,the phase III part I MBBS student must be able to - Describe postmortem findings of burns.</p> <p>14 - At the end of the session,the phase III part I MBBS student must be able to - Describe postmortem findings of scalds.</p> <p>15 - At the end of the session,the phase III part I MBBS student must be able to - Describe postmortem findings of lightening.</p> <p>16 - At the end of the session,the phase III part I MBBS student must be able to - Describe postmortem findings of electrocution.</p> <p>17 - At the end of the session,the phase III part I MBBS student must be able to - Describe postmortem findings of radiations.</p> <p>18 - At the end of the session,the phase III part I MBBS student must be able to - Discuss medico-legal aspects of burns.</p> <p>19 - At the end of the session,the phase III part I MBBS student must be able to - Discuss medico-legal aspects of scalds</p> <p>20 - At the end of the session,the phase III part I MBBS student must be able to - Discuss medico-legal aspects of lightening</p> <p>21 - At the end of the session,the phase III part I MBBS student must be able to - Discuss medico-legal aspects of electrocution.</p> <p>22 - At the end of the session,the phase III part I MBBS student must be able to - Discuss medico-legal aspects of radiations.</p>	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE		General Surgery	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM2.26	Describe and discuss clinical features, post-mortem findings and medico-legal aspects of death due to starvation and neglect	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Define starvation.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features of death due to starvation</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features of death due to neglect.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - discuss post-mortem findings of death due to starvation</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - discuss post-mortem findings of death due to neglect.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to -Describe medico-legal aspects of death due to starvation</p> <p>7 - At the end of the session,the phase III part I MBBS student must be able to -Describe medico-legal aspects of death due to neglect.</p>	K	KH	Y	Lecture/Small group discussion	Written/ Viva voce			
FM2.27	Define and discuss infanticide, foeticide and stillbirth	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Define infanticide.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Define foeticide.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Define stillbirth.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss infanticide.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss foeticide.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss stillbirth.</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pediatrics	
FM2.28	Describe and discuss signs of intrauterine death, signs of live birth, viability of foetus, age determination of foetus, DOAP session of ossification centres, Hydrostatic test , Sudden Infants Death syndrome and Munchausen's syndrome by proxy	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - discuss signs of intrauterine death.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - discuss signs of live birth</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - discuss viability of foetus.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - discuss age determination of foetus.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - discuss DOAP session of ossification centres.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - discussn Hydrostatic test.</p> <p>7 - At the end of the session,the phase III part I MBBS student must be able to - discuss Sudden Infants Death syndrome.</p> <p>8 - At the end of the session,the phase III part I MBBS student must be able to - discuss Munchausen's syndrome by proxy.</p>	K	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE		Pediatrics, Human Anatomy	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM2.29	Demonstrate respect to the directions of courts, while appearing as witness for recording of evidence under oath or affirmation, examination in chief, cross examination, re-examination and court questions, recording of evidence	1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate respect to the directions of courts, while appearing as witness for recording of evidence under oath or affirmation.	A and C	SH	Y	Lecture, Small group discussion, Moot Court, Court visits, Role Play	Role Play during internal assessment			
FM2.30	Have knowledge/awareness of latest decisions/notifications/ resolutions/circulars/standing orders related to medico-legal practice issued by Courts/Government authorities etc	1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate knowledge related to medico-legal practice issued by Courts/ Government authorities etc. 2 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate awareness of latest decisions related to medico-legal practice issued by Courts/ Government authorities etc. 3 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate notifications related to medico-legal practice issued by Courts/ Government authorities etc. 4 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate solutions related to medico-legal practice issued by Courts/ Government authorities etc. 5 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate circulars related to medico-legal practice issued by Courts/ Government authorities etc.. 6 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate standing orders related to medico-legal practice issued by Courts/ Government authorities etc.	A	K	Y	Lecture/Small group discussion	Written/ Viva voce			
FM2.31	Demonstrate ability to work in a team for conduction of medico-legal autopsies in cases of death following alleged negligence medical dowry death, death in custody or following violation of human rights as per National Human Rights Commission Guidelines on exhumation	1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate ability to work in a team for conduction of medico-legal autopsies in cases of death following alleged negligence medical dowry death, death in custody or following violation of human rights as per National Human Rights Commission Guidelines on exhumation.	A	KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE			
FM2.32	Demonstrate ability to exchange information by verbal,or nonverbal communication to the peers, family members, law enforcing agency and judiciary	1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate ability to exchange information by verbal,or nonverbal communication to the peers, family members, law enforcing agency and judiciary.	A and C	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce		AETCOM	
FM2.33	Demonstrate ability to use local resources whenever required like in mass disaster situations	1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate ability to use local resources whenever required like in mass disaster situations.	A and C	KH	Y	Lecture/Small group discussion	Written/ Viva voce		Community Medicine	
FM2.34	Demonstrate ability to use local resources whenever required like in mass disaster situations	1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate ability to use local resources whenever required like in mass disaster situations.	A and C	KH	Y	Lecture/Small group discussion	Written/ Viva voce		General Medicine, AETCOM	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM2.35	Demonstrate professionalism while conducting autopsy in medicolegal situations, interpretation of findings and making inference/opinion, collection preservation and dispatch of biological or trace evidences	1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate professionalism while conducting autopsy in medicolegal situations, interpretation of findings and making inference/opinion, collection preservation and dispatch of biological or trace evidences.	A and C	KH/SH		Lecture, small group discussions, DOAP session	Written/ Viva voce/ OSPE		AETCOM	

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Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
Topic: Clinical Forensic Medicine										
Number of competencies: (33)			Number of procedures that require certification: (NIL)							
FM3.1	IDENTIFICATION Define and describe Corpus Delicti, establishment of identity of living persons including race, Sex, religion, complexion, stature, age determination using morphology, teeth-eruption, decay, bite marks, bones-ossification centres, medico-legal aspects of age	1 - At the end of the session,the phase III part I MBBS student must be able to - Define Identification. 2 - At the end of the session,the phase III part I MBBS student must be able to - Clasify Identification. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe Corpus Delicti. 4 - At the end of the session,the phase III part I MBBS student must be able to - Describe Datas of Identification in living. 5 - At the end of the session,the phase III part I MBBS student must be able to - Describe Datas of Identification in dead. 6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss bones-ossification centres. 7 - At the end of the session,the phase III part I MBBS student must be able to - Discuss medico-legal aspects of age.	K	KH	Y	Lecture, Small group discussion, Bedside clinic, DOAP session	Written/Viva voce/ skill assessment		Human Anatomy	
FM3.2	IDENTIFICATION Describe and discuss identification of criminals, unknown persons, dead bodies from the remains-hairs, fibers, teeth, anthropometry, dactylography, footprints, scars, tattoos, poroscopy and superimposition	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe identification of criminals from the remains- hairs, fibers, teeth anthropometry , dactylography footprints, scars, tattoos, poroscopy and superimposition. 2 -At the end of the session,the phase III part I MBBS student must be able to - Describe identification of unknown persons from the remains- hairs, fibers, teeth anthropometry , dactylography footprints, scars, tattoos, poroscopy and superimposition. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe identification of dead bodies from the remains- hairs, fibers, teeth anthropometry , dactylography footprints, scars, tattoos, poroscopy and superimposition.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM3.3	Mechanical injuries and wounds: Define, describe and classify different types of mechanical injuries, abrasion, bruise, laceration, stabwound, incised wound, chop wound, defense wound, self-inflicted/fabricated wounds and their medico-legal aspects	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Define Mechanical injury.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Define Wound.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Classify mechanical injury</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Define abrasion</p> <p>5- At the end of the session,the phase III part I MBBS student must be able to - Define bruise.</p> <p>6- At the end of the session,the phase III part I MBBS student must be able to - Define laceration.</p> <p>7- At the end of the session,the phase III part I MBBS student must be able to - Define stabwound</p> <p>8- At the end of the session,the phase III part I MBBS student must be able to - Define incised wound</p> <p>9- At the end of the session,the phase III part I MBBS student must be able to - Define chop wound</p> <p>10- At the end of the session,the phase III part I MBBS student must be able to - Define defense wound.</p> <p>11 - At the end of the session,the phase III part I MBBS student must be able to - Classify abrasion.</p> <p>12- At the end of the session,the phase III part I MBBS student must be able to - Classify bruise.</p> <p>13- At the end of the session,the phase III part I MBBS student must be able to - Classify laceration.</p> <p>14- At the end of the session,the phase III part I MBBS student must be able to - Classify stabwound</p> <p>15- At the end of the session,the phase III part I MBBS student must be able to - Classify incised wound.</p> <p>16- At the end of the session,the phase III part I MBBS student must be able to - Classify chop wound</p> <p>17 - At the end of the session,the phase III part I MBBS student must be able to - Classify defense wound.</p> <p>18 - At the end of the session,the phase III part I MBBS student</p>	K	KH	Y	Lecture, Small group discussion Bed side clinic, DOAP session	Written/ Viva voce/ OSCE		General Surgery	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
		<p>must be able to -Discuss Aging of abrasion.</p> <p>19- At the end of the session,the phase III part I MBBS student must be able to -Discuss Aging of bruise</p> <p>20- At the end of the session,the phase III part I MBBS student must be able to -Discuss Aging of laceration.</p> <p>21 - At the end of the session,the phase III part I MBBS student must be able to -Discuss Aging of stabwound</p> <p>22- At the end of the session,the phase III part I MBBS student must be able to -Discuss Aging of incised wound</p> <p>23- At the end of the session,the phase III part I MBBS student must be able to -Discuss Aging of chop wound</p> <p>24- At the end of the session,the phase III part I MBBS student must be able to -Discuss Aging of defense wound.</p> <p>25 - At the end of the session,the phase III part I MBBS student must be able to -Discuss medico-legal aspects of abrasion</p> <p>26- At the end of the session,the phase III part I MBBS student must be able to -Discuss medico-legal aspects of bruise</p> <p>27- At the end of the session,the phase III part I MBBS student must be able to -Discuss medico-legal aspects of laceration</p> <p>28- At the end of the session,the phase III part I MBBS student must be able to -Discuss medico-legal aspects of stabwound.</p> <p>29- At the end of the session,the phase III part I MBBS student must be able to -Discuss medico-legal aspects of incised wound</p> <p>30- At the end of the session,the phase III part I MBBS student must be able to -Discuss medico-legal aspects of chop wound</p> <p>31- At the end of the session,the phase III part I MBBS student must be able to -Discuss medico-legal aspects of defense wound.</p> <p>32 - At the end of the session,the phase III part I MBBS student must be able to - Describe self-inflicted</p> <p>33- At the end of the session,the phase III part I MBBS student must be able to - Describe fabricated wounds.</p>								

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Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM3.4	Mechanical injuries and wounds: Define injury, assault & hurt. Describe IPC pertaining to injuries	1 - At the end of the session,the phase III part I MBBS student must be able to - Define Injury. 2 - At the end of the session,the phase III part I MBBS student must be able to Define Assault. 3 - At the end of the session,the phase III part I MBBS student must be able to Define Hurt. 4 - At the end of the session,the phase III part I MBBS student must be able to Describe IPC pertaining to injuries.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		General Surgery	
FM3.5	Mechanical injuries and wounds: Describe accidental, suicidal and homicidal injuries. Describe simple, grievous and dangerous injuries. Describe ante-mortem and post-mortem injuries	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe homicidal injuries. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe suicidal injuries. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe accidental injuries. 4 - At the end of the session,the phase III part I MBBS student must be able to - Describe simple injuries. 5 - At the end of the session,the phase III part I MBBS student must be able to - Describe grievous injuries . 6 - At the end of the session,the phase III part I MBBS student must be able to - Describe dangerous injuries. 7 - At the end of the session,the phase III part I MBBS student must be able to - Describe ante-mortem injuries. 8 - At the end of the session,the phase III part I MBBS student must be able to - Describe post-mortem injuries.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce			
FM3.6	Mechanical injuries and wounds: Describe healing of injury and fracture of bones with its medico-legal importance	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe healing of injury. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe healing of fracture of bones. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe medico-legal importance of its.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		General Surgery	
FM3.7	Describe factors influencing infliction of injuries and healing, examination and certification of wounds and wound as a cause of death: Primary and Secondary	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe factors influencing infliction of injuries. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe factors influencing healing. 3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Wound Examination. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Wound Certification. 5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss cause of death Primary in Wound. 6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss cause of death Secondary in Wound.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		General Surgery, Orthopaedics	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM3.8	Mechanical injuries and wounds: Describe and discuss different types of weapons including dangerous weapons and their examination	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss different types of weapons including dangerous weapons. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Examination of different types of weapons including dangerous weapons.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		General Surgery, Orthopaedics	
FM3.9	Firearm injuries: Describe different types of firearms including structure and components. Along with description of ammunition propellant charge and mechanism of fire-arms, different types of cartridges and bullets and various terminology in relation of firearm – caliber, range, choking	1 - At the end of the session,the phase III part I MBBS student must be able to - Define Firearm. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe different types of firearms including structure and components. 3 - At the end of the session,the phase III part I MBBS student must be able to - Description of ammunition (Gun - Powder). 4 - At the end of the session,the phase III part I MBBS student must be able to -Discuss mechanism of fire-arms. 5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss different types of cartridges. 6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Caliber of Firearm. 7 - At the end of the session,the phase III part I MBBS student must be able to - Discuss range of Firearm 8 - At the end of the session,the phase III part I MBBS student must be able to - Discuss choking of Firearm.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		General Surgery, Orthopaedics	
FM3.10	Firearm injuries: Describe and discuss wound ballistics-different types of firearm injuries, blast injuries and their interpretation, preservation and dispatch of trace evidences in cases of firearm and blast injuries, various tests related to confirmation of use of firearms	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss different types of firearm injuries. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss different types of Blast injuries. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe preservation of trace evidences in cases of firearm injuries. 4 - At the end of the session,the phase III part I MBBS student must be able to - Describe preservation of trace evidences in cases of blast injuries. 5 - At the end of the session,the phase III part I MBBS student must be able to - Describe dispatch of trace evidences in cases of firearm injuries. 6 - At the end of the session,the phase III part I MBBS student must be able to - Describe dispatch of trace evidences in cases of blast injuries. 7 - At the end of the session,the phase III part I MBBS student must be able to - Describe the various tests related to confirmation of firearms.	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic, DOAP session	Written/Viva voce/ OSCE		General Surgery, Orthopaedics	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM3.11	Regional Injuries: Describe and discuss regional injuries to head (Scalp wounds, fracture skull, intracranial haemorrhages, coup and contrecoup injuries), neck, chest, abdomen, limbs, genital organs, spinal cord and skeleton	1 - At the end of the session,the phase III part I MBBS student must be able to - Define Head Injuries. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe Scalp wounds. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe skull fracture. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Various types of intracranial haemorrhages. 5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss coup and contrecoup injuries. 6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss injuries to neck. 7 - At the end of the session,the phase III part I MBBS student must be able to - Discuss injuries to Chest. 8 - At the end of the session,the phase III part I MBBS student must be able to - Discuss injuries to Abdomen 9 - At the end of the session,the phase III part I MBBS student must be able to - Discuss injuries to Limbs. 10 - At the end of the session,the phase III part I MBBS student must be able to - Discuss injuries to Genital Organ. 11 - At the end of the session,the phase III part I MBBS student must be able to - Discuss injuries to Spinal cord. 12 - At the end of the session,the phase III part I MBBS student must be able to - Discuss injuries to Skeleton.	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic or autopsy, DOAP session	Written/ Viva voce/ OSCE/OSPE		General Surgery, Orthopaedics	
FM3.12	Regional Injuries Describe and discuss injuries related to fall from height and vehicular injuries – Primary and Secondary impact, Secondary injuries, crush syndrome, railway spine	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss injuries related to fall from height. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss vehicular injuries. 3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Primary impact Injury. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Secondary impact Injury. 5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Secondary injuries. 6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss crush syndrome. 7 -At the end of the session,the phase III part I MBBS student must be able to - Discuss railway spine.	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic or autopsy, DOAP session	Written/ Viva voce/ OSCE/OSPE		General Surgery, Orthopaedics	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM3.13	Describe different types of sexual offences. Describe various sections of IPC regarding rape including definition of rape (Section 375 IPC), Punishment for Rape (Section 376 IPC) and recent amendments notified till date	1 - At the end of the session,the phase III part I MBBS student must be able to - Define sexual offences (S. 375) 2 - At the end of the session,the phase III part I MBBS student must be able to - Classify sexual offences. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe Punishment for Rape (Section 376 IPC). 4 - At the end of the session,the phase III part I MBBS student must be able to - Describe recent amendments notified till date in context to sexual offences.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce/ OSCE/OSPE		Obstetrics & Gynaecology	
FM3.14	SEXUAL OFFENCES Describe and discuss the examination of the victim of an alleged case of rape, and the preparation of report, framing the opinion and preservation and despatch of trace evidences in such cases	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the examination of the victim of an alleged case of rape. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe the preparation of report of case of rape. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe the opinion in it. 4 - At the end of the session,the phase III part I MBBS student must be able to - Describe the preservation of trace evidences in such cases. 5 - At the end of the session,the phase III part I MBBS student must be able to - Describe the despatch of trace evidences in cases.	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic, DOAP session	Written/ Viva voce/ OSCE		Obstetrics & Gynaecology, Psychiatry	
FM3.15	SEXUAL OFFENCES Describe and discuss examination of accused and victim of sodomy, preparation of report, framing of opinion, preservation and despatch of trace evidences in such case	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the examination of accused of sodomy. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe the examination of victim of sodomy. 3 - At the end of the session,the phase III part I MBBS student must be able to preparation of report preparation of report in it. 4 - At the end of the session,the phase III part I MBBS student must be able to - Describe the opinion regarding this. 5 - At the end of the session,the phase III part I MBBS student must be able to - Describe preservation of trace evidences in such case. 6 - At the end of the session,the phase III part I MBBS student must be able to - Describe despatch of trace evidences in such case.	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic, DOAP session	Written/ Viva voce/ OSCE		Obstetrics & Gynaecology, Psychiatry	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM3.16	SEXUAL OFFENCES Describe and discuss adultery and unnatural sexual offences- sodomy, incest, lesbianism, buccal coitus, bestiality, indecent assault and preparation of report, framing the opinion and preservation and despatch of trace evidences in such cases	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss adultery. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss unnatural sexual offences. 3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss preparation of report of unnatural sexual offences. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss framing the opinion of unnatural sexual offences. 5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss preservation of trace evidences in such cases. 6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss despatch of trace evidences in such cases.	K	K/KH	Y	Lecture/Small group discussion	Written/ Viva voce		Obstetrics & Gynaecology, Psychiatry	
FM3.17	Describe and discuss the sexual perversions fetishism, transvestism, voyeurism, sadism, necrophagia, masochism, exhibitionism, frotteurism, Necrophilia	1 - At the end of the session,the phase III part I MBBS student must be able to - Define sexual perversions. 2 - At the end of the session,the phase III part I MBBS student must be able to - Classify sexual perversions. 3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss fetishism. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss transvestism. 5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss voyeurism. 6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss sadism. 7 - At the end of the session,the phase III part I MBBS student must be able to - Discuss necrophagia. 8 - At the end of the session,the phase III part I MBBS student must be able to - Discuss masochism. 9 - At the end of the session,the phase III part I MBBS student must be able to - Discuss exhibitionism. 10 - At the end of the session,the phase III part I MBBS student must be able to - Discuss frotteurism. 11 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Necrophilia.	K	K/KH	Y	Lecture/Small group discussion	Written/ Viva voce		Obstetrics & Gynaecology, Psychiatry	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM3.18	Describe anatomy of male and female genitalia, hymen and its types. Discuss the medico-legal importance of hymen. Define virginity, defloration, legitimacy and its medicolegal importance	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Describe anatomy of male genitalia.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Describe anatomy of female genitalia.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Describe anatomy of hymen.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to -Classify hymen.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the medico-legal importance of hymen.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - Define virginity.</p> <p>7 - At the end of the session,the phase III part I MBBS student must be able to - Define defloration.</p> <p>8 - At the end of the session,the phase III part I MBBS student must be able to - Define legitimacy</p> <p>9 - At the end of the session,the phase III part I MBBS student must be able to - Discuss medico-legal importance of virginity</p> <p>10 - At the end of the session,the phase III part I MBBS student must be able to - Discuss medico-legal importance of defloration</p> <p>11- At the end of the session,the phase III part I MBBS student must be able to - Discuss medico-legal importance of legitimacy.</p>	K	K/KH	Y	Lecture/Small group discussion	Written/ Viva voce		Obstetrics & Gynaecology	
FM3.19	Discuss the medicolegal aspects of pregnancy and delivery, signs of pregnancy, precipitate labour superfoetation, superfecundation and signs of recent and remote delivery in living and dead	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss medicolegal aspects of pregnancy.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the medicolegal aspects of delivery.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss signs of pregnancy.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss precipitate labour .</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss superfoetation.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss superfecundation.</p> <p>7 - At the end of the session,the phase III part I MBBS student must be able to - Describe the signs of recent delivery in living and dead.</p> <p>8 - At the end of the session,the phase III part I MBBS student must be able to -Describe the signs of remote delivery in living and dead.</p>	K	K/KH	Y	Lecture/Small group discussion	Written/ Viva voce		Obstetrics & Gynaecology	
FM3.20	Discuss disputed paternity and maternity	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss disputed paternity.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss disputed maternity.</p>	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Obstetrics & Gynaecology	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM3.21	Discuss Pre-conception and Pre Natal Diagnostic Techniques (PC&PNDT) - Prohibition of Sex Selection Act 2003 and Domestic Violence Act 2005	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Pre-conception and Pre Natal Diagnostic Techniques (PC&PNDT). 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Domestic Violence Act 2005.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Obstetrics & Gynaecology, AETCOM	
FM3.22	Define and discuss impotence, sterility, frigidity, sexual dysfunction, premature ejaculation. Discuss the causes of impotence and sterility in male and female	1 - At the end of the session,the phase III part I MBBS student must be able to - Define impotence. 2 - At the end of the session,the phase III part I MBBS student must be able to - Classify impotence. 3 - At the end of the session,the phase III part I MBBS student must be able to - Define sterility. 4 - At the end of the session,the phase III part I MBBS student must be able to - Define frigidity. 5 - At the end of the session,the phase III part I MBBS student must be able to - Define sexual dysfunction. 6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss premature ejaculation. 7 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the causes of impotence in male 8 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the causes of impotence in female. 9 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the causes of sterility in male 10 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the causes of sterility in female.	K	K/KH	Y	Lecture/Small group discussion	Written/ Viva voce		Obstetrics & Gynaecology, General Medicine	
FM3.23	Discuss Sterilization of male and female, artificial insemination, Test Tube Baby, surrogate mother, hormonal replacement therapy with respect to appropriate national and state laws	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Sterilization of male. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Sterilization of female, 3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss artificial insemination. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Test Tube Baby. 5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss surrogate mother. 6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss hormonal replacement therapy with respect to appropriate national laws. 7 - At the end of the session,the phase III part I MBBS student must be able to - Discuss hormonal replacement therapy with respect to appropriate state laws.	K	K/KH	Y	Lecture/Small group discussion	Written/ Viva voce		Obstetrics & Gynaecology	
FM3.24	Discuss the relative importance of surgical methods of contraception (vasectomy and tubectomy) as methods of contraception in the National Family Planning Programme	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the relative importance of surgical methods of contraception (vasectomy and tubectomy) as methods of contraception in the National Family Planning Programme.	K	K/KH	N	Lecture, Small group discussion	Written		Obstetrics & Gynaecology	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM3.25	Discuss the major results of the National Family Health Survey	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the major results of the National Family Health Survey.	K	K/KH	N	Lecture	Written		Obstetrics & Gynaecology	
FM3.26	Discuss the national Guidelines for accreditation, supervision & regulation of ART Clinics in India	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the national Guidelines for accreditation, supervision & regulation of ART Clinics in India.	K	K/KH	Y	Lecture, Small group discussion	Written		Obstetrics & Gynaecology	
FM3.27	Define, classify and discuss abortion, methods of procuring MTP and criminal abortion and complication of abortion. MTP Act 1971	1 - At the end of the session,the phase III part I MBBS student must be able to - Define abortion. 2 - At the end of the session,the phase III part I MBBS student must be able to - classify abortion. 3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the methods of procuring MTP. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the methods of procuring criminal abortion. 5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss complication of abortion. 6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss MTP Act 1971.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Obstetrics & Gynaecology, AETCOM	
FM3.28	Describe evidences of abortion - living and dead, duties of doctor in cases of abortion, investigations of death due to criminal abortion	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe evidences of abortion - in living and dead. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe the duties of doctor in cases of abortion. 3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the investigations of death due to criminal abortion.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Obstetrics & Gynaecology, Pathology	
FM3.29	Describe and discuss child abuse and battered baby syndrome	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss child abuse. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss battered baby syndrome.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pediatrics	
FM3.30	Describe and discuss issues relating to torture, identification of injuries caused by torture and its sequelae, management of torture survivors	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe issues relating to torture. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss identification of injuries caused by torture. 3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the sequelae of torture 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the management of torture survivors.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce			

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM4.3	Describe the functions and role of Medical Council of India and State Medical Councils	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe functions of Medical Council of India. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe role of Medical Council of India. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe functions of State Medical Councils. 4 - At the end of the session,the phase III part I MBBS student must be able to - Describe role of State Medical Councils.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM4.4	Describe the Indian Medical Register	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the Indian Medical Register.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM4.5	Rights/privileges of a medical practitioner, penalerasure, infamous conduct, disciplinary Committee, disciplinary procedures, warning notice and penal erasure	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe Rights. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe privileges of a medical practitioner. 3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss penalerasure. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss infamous conduct. 5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss disciplinary Committee. 6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss disciplinary procedures. 7 - At the end of the session,the phase III part I MBBS student must be able to - Discuss warning notice. 8 - At the end of the session,the phase III part I MBBS student must be able to - Discuss penal erasure.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM4.6	Describe the Laws in Relation to medical practice and the duties of a medical practitioner towards patients and society	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the Laws in Relation to medical practice. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe the duties of a medical practitioner towards patients and society.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM4.7	Describe and discuss the ethics related to HIV patients	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the ethics related to HIV patients.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM4.8	Describe the Consumer Protection Act-1986 (Medical Indemnity Insurance, Civil Litigations and Compensations), Workman's Compensation Act & ESI Act	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe Consumer Protection Act-1986. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe Workman's Compensation Act. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe ESI Act.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM 4.9	Describe the medico-legal issues in relation to family violence, violation of human rights, NHRC and doctors	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the medico-legal issues in relation to family violence. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss violation of human rights. 3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss NHRC and doctors.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM 4.10	Describe communication between doctors, public and media	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe communication between doctors, public and media.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM 4.11	Describe and discuss euthanasia	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss euthanasia	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM, Pharmacology	
FM4.12	Discuss legal and ethical issues in relation to stem cell research	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss legal issues in relation to stem cell research. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss ethical issues in relation to stem cell research.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM, Pharmacology	
FM4.13	Describe social aspects of Medico-legal cases with respect to victims of assault, rape, attempted suicide, homicide, domestic violence, dowry- related cases	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe social aspects of Medico-legal cases with respect to victims of assault. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe social aspects of Medico-legal cases with respect to victims of rape. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe social aspects of Medico-legal cases with respect to victims of attempted suicide. 4 - At the end of the session,the phase III part I MBBS student must be able to - Describe social aspects of Medico-legal cases with respect to victims of homicide. 5 - At the end of the session,the phase III part I MBBS student must be able to - Describe social aspects of Medico-legal cases with respect to victims of domestic violence. 6 - At the end of the session,the phase III part I MBBS student must be able to - Describe social aspects of Medico-legal cases with respect to victims of dowry- related cases.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM4.14	Describe & discuss the challenges in managing medico-legal cases including development of skills in relationship management – Human behaviour,communication skills, conflict resolution techniques	1 - At the end of the session,the phase III part I MBBS student must be able to -Discuss the challenges in managing medico-legal cases including development of skills in relationship management (Human behaviour, communication skills, conflict resolution techniques)	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM4.15	Describe the principles of handling pressure – definition, types, causes, sources and skills for managing the pressure while dealing with medico-legal cases by the doctor	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Define pressure.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Classify pressure.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Describe the causes of pressure.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Describe the sources of pressure.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Describe the skills for managing the pressure while dealing with medico-legal cases by the doctor.</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM4.16	Describe and discuss Bioethics	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Bioethics.</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM4.17	Describe and discuss ethical Principles: Respect for autonomy, nonmalfeasance, beneficence & justice	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - discuss ethical Principles: in Respect for autonomy.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - discuss ethical Principles: in Respect for nonmalfeasance.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - discuss ethical Principles: in Respect for beneficence.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - discuss ethical Principles: in Respect to justice.</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM, Pharmacology	
FM4.18	Describe and discuss medical negligence including civil and criminal negligence, contributory negligence, corporate negligence, vicarious liability , Res Ipsa Loquitur, prevention of medical negligence and defenses in medical negligence litigations	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Define Medical negligence.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Classify Medical negligence.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss civil negligence.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss criminal negligence.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss contributory negligence.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss corporate negligence.</p> <p>7 - At the end of the session,the phase III part I MBBS student must be able to - Discuss vicarious liability.</p> <p>8 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Res Ipsa Loquitur.</p> <p>9 - At the end of the session,the phase III part I MBBS student must be able to - Discuss prevention of medical negligence.</p> <p>10 - At the end of the session,the phase III part I MBBS student must be able to - Discuss defenses in medical negligence litigations.</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM4.19	Define Consent. Describe different types of consent and ingredients of informed consent. Describe the rules of consent and importance of consent in relation to age, emergency situation, mental illness and alcohol intoxication	1 - At the end of the session,the phase III part I MBBS student must be able to - Define Consent. 2 - At the end of the session,the phase III part I MBBS student must be able to - Classify Consent. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe different types of consent. 4 - At the end of the session,the phase III part I MBBS student must be able to - Describe the ingredients of informed consent. 5 - At the end of the session,the phase III part I MBBS student must be able to - Describe the rules of consent.(relation to age, emergency situation, mental illness and alcohol intoxication).	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM4.20	Describe therapeutic privilege, Malingering, Therapeutic Misadventure, Professional Secrecy, Human Experimentation	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe therapeutic privilege. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe Malingering. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe Therapeutic Misadventure. 4 - At the end of the session,the phase III part I MBBS student must be able to - Describe Professional Secrecy. 5 - At the end of the session,the phase III part I MBBS student must be able to - Describe Human Experimentation.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM4.21	Describe Products liability and Medical Indemnity Insurance	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Products liability. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Medical Indemnity Insurance.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM4.22	Explain Oath – Hippocrates, Charaka and Sushruta and procedure for administration of Oath.	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe Hippocrates Oath. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe Charaka Oath. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe Sushruta Oath. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss procedure for administration of Oath.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM, Pharmacology	
FM4.23	Describe the modified Declaration of Geneva and its relevance	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the modified Declaration of Geneva 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe the modified Declaration of Geneva relevance.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM, Pharmacology	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM4.24	Enumerate rights, privileges and duties of a Registered Medical Practitioner. Discuss doctor - patient relationship: professional secrecy and privileged communication	1 - At the end of the session,the phase III part I MBBS student must be able to - Enumerate rights of Registered Medical Practitioner. 2 - At the end of the session,the phase III part I MBBS student must be able to - Enumerate privileges of Registered Medical Practitioner. 3 - At the end of the session,the phase III part I MBBS student must be able to - Enumerate duties of Registered Medical Practitioner. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss doctor - patient relationship. 5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss professional secrecy. 6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss privileged communication.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM4.25	Clinical research & Ethics Discuss human experimentation including clinical trials	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss human experimentation including clinical trials.	K	KH	NY	Lecture, Small group discussion	Written/ Viva voce		AETCOM, Pharmacology	
FM4.26	Discuss the constitution and functions of ethical committees	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss constitution of ethical committees. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss functions.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM, Pharmacology	
FM4.27	Describe and discuss Ethical Guidelines for Biomedical Research on Human Subjects & Animals	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Ethical Guidelines for Biomedical Research on Human Subjects. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Ethical Guidelines for Biomedical Research on Animals Subjects.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		AETCOM, Pharmacology	
FM4.28	Demonstrate respect to laws relating to medical practice and Ethical code of conduct prescribed by Medical Council of India and rules and regulations prescribed by it from time to time	1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate respect to laws relating to medical practice. 2 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate Ethical code of conduct to medical practice by Medical Council of India. 3 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate rules prescribed by Medical Council of India from time to time. 4 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate regulations prescribed by Medical Council of India from time to time.	A and C	SH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM4.29	Demonstrate ability to communicate appropriately with media,public and doctors	1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate ability to communicate appropriately with Media. 2 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate ability to communicate appropriately with Public. 3 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate ability to communicate appropriately with Doctors.	A and C	KH/SH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
FM4.30	Demonstrate ability to conduct research in pursuance to guidelines or research ethics	1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate ability to conduct research in pursuance to guidelines or research ethics.	A and C	KH/SH	Y	Lecture, Small group discussion	Written/ Viva voce		AETCOM	
Topic: Forensic Psychiatry Number of competencies: (06) Number of procedures that require certification: (NIL)										
FM5.1	Classify common mental illnesses including post - traumatic stress disorder (PTSD)	1 - At the end of the session,the phase III part I MBBS student must be able to - Define Psychiatry. 2 - At the end of the session,the phase III part I MBBS student must be able to - Classify common mental illnesses including post - traumatic stress disorder (PTSD).	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Psychiatry	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM5.2	Define, classify and describe delusions, hallucinations, illusion, lucid interval and obsessions with exemplification	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Define delusions.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Define hallucinations.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Define illusion.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Define lucid interval.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Define obsessions exemplification.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - classify delusions.</p> <p>7 - At the end of the session,the phase III part I MBBS student must be able to - classify hallucinations.</p> <p>8 - At the end of the session,the phase III part I MBBS student must be able to - classify illusion.</p> <p>9 - At the end of the session,the phase III part I MBBS student must be able to - classify lucid interval.</p> <p>10 - At the end of the session,the phase III part I MBBS student must be able to - classify obsessions exemplification.</p> <p>11 - At the end of the session,the phase III part I MBBS student must be able to - describe various types of delusions.</p> <p>12 - At the end of the session,the phase III part I MBBS student must be able to - describe various types of hallucinations.</p> <p>13 - At the end of the session,the phase III part I MBBS student must be able to - describe various types of illusion.</p> <p>14 - At the end of the session,the phase III part I MBBS student must be able to - describe various types of lucid interval.</p> <p>15 - At the end of the session,the phase III part I MBBS student must be able to - describe various types of obsessions exemplification.</p>	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Psychiatry	
FM5.3	Describe Civil and criminal responsibilities of a mentally ill person	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Describe Civil responsibilities of Insane.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Describe criminal responsibilities of Insane.</p>	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Psychiatry	
FM5.4	Differentiate between true insanity from feigned insanity	1 - At the end of the session,the phase III part I MBBS student must be able to - Differentiate between true insanity from feigned insanity.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Psychiatry	
FM5.5	Describe & discuss Delirium tremens	1 - At the end of the session,the phase III part I MBBS student must be able to - discuss Delirium tremens.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Psychiatry, General Medicine	
FM5.6	Describe the Indian Mental Health Act, 1987 with special reference to admission, care and discharge of a mentally ill person	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the Indian Mental Health Act, 1987 with special reference to admission, care and discharge of a mentally ill person.	K	K/KH	N	Lecture, Small group discussion	Written/ Viva voce		Psychiatry	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
Topic: Forensic Laboratory investigation in medical legal practice			Number of competencies: (03)			Number of procedures that require certification: (NIL)				
FM6.1	Describe different types of specimen and tissues to be collected both in the living and dead: Body fluids (blood, urine, semen, faeces saliva), Skin, Nails, toothpulp, vaginalsmear, viscera, skull, specimen for histo - pathological examination, bloodgrouping, HLA Typing and DNA Fingerprinting. Describe Locard's Exchange Principle	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe different types of specimen to be collected in living. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe different types of specimen to be collected in dead. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe different types of tissues to be collected in living. 4 - At the end of the session,the phase III part I MBBS student must be able to - Describe different types of tissues to be collected in dead. 5 - At the end of the session,the phase III part I MBBS student must be able to - Describe specimen for histo - pathological examination. 6 - At the end of the session,the phase III part I MBBS student must be able to - Describe specimen for bloodgrouping. 7 - At the end of the session,the phase III part I MBBS student must be able to - Describe specimen for HLA Typing. 8 - At the end of the session,the phase III part I MBBS student must be able to - Describe specimen for DNA Fingerprinting. 9 - At the end of the session,the phase III part I MBBS student must be able to - Describe Locard's Exchange Principle.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
FM6.2	Describe the methods of sample collection, preservation, labelling, dispatch, and interpretation of reports	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the methods of sample collection. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe the methods of sample preservation. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe the methods of sample labelling. 4 - At the end of the session,the phase III part I MBBS student must be able to - Describe the methods of sample dispatch. 5 - At the end of the session,the phase III part I MBBS student must be able to - Describe the methods of sample interpretation of reports.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce			

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM6.3	Demonstrate professionalism while sending the biological or trace evidences to Forensic Science laboratory, specifying the required tests to be carried out, objectives of preservation of evidences sent for examination, personal discussions on interpretation of findings	<p>1 - At the end of the session, the phase III part I MBBS student must be able to - Demonstrate professionalism while sending the biological or trace evidences to Forensic Science laboratory.</p> <p>2 - At the end of the session, the phase III part I MBBS student must be able to - Demonstrate the required tests to be carried out biological or trace evidences.</p> <p>3 - At the end of the session, the phase III part I MBBS student must be able to - Demonstrate the objectives of preservation of evidences sent for examination</p> <p>4 - At the end of the session, the phase III part I MBBS student must be able to - Demonstrate the personal discussions on interpretation of findings.</p>	A and C	KH/SH	Y	Lecture, Small group discussions, DOAP sessions	Viva voce / OSPE			

Topic: Emerging technologies in Forensic Medicine

Number of competencies: (01)

Number of procedures that require certification:(NIL)

FM7.1	<p>Enumerate the indications and describe the principles and appropriate use for:</p> <ul style="list-style-type: none"> - DNA profiling - Facial reconstruction - Polygraph (Lie Detector) - Narcoanalysis, - Brain Mapping, - Digital autopsy, - Virtual Autopsy, - Imaging technologies 	<p>1 - At the end of the session, the phase III part I MBBS student must be able to - Enumerate the indications for DNA profiling.</p> <p>2 - At the end of the session, the phase III part I MBBS student must be able to - Enumerate the indications for Facial reconstruction.</p> <p>3 - At the end of the session, the phase III part I MBBS student must be able to - Enumerate the indications for Polygraph (Lie Detector).</p> <p>4 - At the end of the session, the phase III part I MBBS student must be able to - Enumerate the indications for Narcoanalysis.</p> <p>5 - At the end of the session, the phase III part I MBBS student must be able to - Enumerate the indications for Brain Mapping.</p> <p>6 - At the end of the session, the phase III part I MBBS student must be able to - Enumerate the indications for Digital autopsy</p> <p>7 - At the end of the session, the phase III part I MBBS student must be able to - Enumerate the indications for Virtual Autopsy.</p> <p>8 - At the end of the session, the phase III part I MBBS student must be able to - Enumerate the indications for Imaging technologies.</p> <p>9 - At the end of the session, the phase III part I MBBS student must be able to - describe the principles of DNA profiling.</p> <p>10 - At the end of the session, the phase III part I MBBS student must be able to - describe the principles of Facial reconstruction.</p> <p>11 - At the end of the session, the phase III part I MBBS student must be able to - describe the principles of Polygraph (Lie Detector)</p> <p>12 - At the end of the session, the phase III part I MBBS student must be able to - describe the principles of Narcoanalysis.</p> <p>13 - At the end of the session, the phase III part I MBBS student must be able to - describe the principles of Brain Mapping.</p> <p>14 - At the end of the session, the phase III part I MBBS student must be able to - describe the principles of Digital autopsy</p> <p>15 - At the end of the session, the phase III part I MBBS student must be able to - describe the principles of Virtual Autopsy.</p> <p>16 - At the end of the session, the phase III part I MBBS student must be able to - describe the principles of Imaging technologies.</p> <p>17 - At the end of the session, the phase III part I MBBS student</p>	K	K/KH	N	Lecture, Small group discussion	Written/ Viva voce			
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Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
		<p>must be able to - describe appropriate use for DNA profiling.</p> <p>18 - At the end of the session,the phase III part I MBBS student must be able to - describe appropriate use for Facial reconstruction.</p> <p>19 - At the end of the session,the phase III part I MBBS student must be able to - describe appropriate use for Polygraph (Lie Detector)</p> <p>20 - At the end of the session,the phase III part I MBBS student must be able to - describe appropriate use for Narcoanalysis.</p> <p>21 - At the end of the session,the phase III part I MBBS student must be able to - describe appropriate use for Brain Mapping.</p> <p>22 - At the end of the session,the phase III part I MBBS student must be able to - describe appropriate use for Digital autopsy.</p> <p>23 - At the end of the session,the phase III part I MBBS student must be able to - describe appropriate use for Virtual Autopsy.</p> <p>24 - At the end of the session,the phase III part I MBBS student must be able to - describe appropriate use for Imaging technologies.</p>								

Topic: Toxicology: General Toxicology

Number of competencies: (10)

Number of procedures that require certification: (NIL)

FM8.1	Describe the history of Toxicology	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the history of Toxicology.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
FM8.2	Define the terms Toxicology, Forensic Toxicology, Clinical Toxicology and poison	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Define Toxicology.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Define Forensic Toxicology.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Define Clinical Toxicology.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Define poison.</p>	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
FM8.3	Describe the various types of poisons, Toxicokinetics, and Toxicodynamics and diagnosis of poisoning in living and dead	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Classify poison.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Describe Toxicokinetics.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Describe Toxicodynamics.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Describe the diagnosis of poisoning in living.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Describe the diagnosis of poisoning in dead.</p>	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
F 8.4	Describe the Laws in relations to poisons including NDPS Act, Medico-legal aspects of poisons	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the Laws in relations to poisons including NDPS Act, Medico-legal aspects of poisons.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM8.5	Describe Medico - legal autopsy in cases of poisoning including preservation and dispatch of viscera for chemical analysis	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe Medico - legal autopsy in cases of poisoning including preservation and dispatch of viscera for chemical analysis.	K	K/KH	Y	Lecture, Small group discussion, Autopsy, DOAP session	Written/ Viva voce/ OSPE		Pharmacology	
FM8.6	Describe the general symptoms, principles of diagnosis and management of common poisons encountered in India	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the general symptoms, of common poisons encountered in India. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe the principles of diagnosis common poisons encountered in India. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe the management of common poisons encountered in India.	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic, DOAP session	Written/ Viva voce/ OSCE		Pharmacology	
FM8.7	Describe simple Bedside clinic tests to detect poison/drug in a patient's body fluids	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe simple Bedside clinic tests to detect poison/drug in a patient's body fluids.	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic, DOAP session	Written/ Viva voce/ OSCE		Pharmacology, General Medicine	
FM8.8	Describe basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination.	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic, DOAP session	Written/ Viva voce/ OSCE		Pharmacology, General Medicine	
FM8.9	Describe the 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.	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the procedure of intimation of suspicious cases or actual cases of foul play to the police. 2 - At the end of the session,the phase III part I MBBS student must be able to - Describe the maintenance of records in suspicious cases or actual cases. 3 - At the end of the session,the phase III part I MBBS student must be able to - Describe the preservation of relevant samples in suspicious cases or actual cases for laboratory analysis. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss despatch of relevant samples for laboratory analysis.	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce			

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM8.10	Describe the general principles of Analytical Toxicology and give a brief description of analytical methods available for toxicological analysis: Chromatography – Thin Layer Chromatography, Gas Chromatography, Liquid Chromatography and Atomic Absorption Spectroscopy	<p>1 - At the end of the session, the phase III part I MBBS student must be able to - Describe the general principles of Analytical Toxicology.</p> <p>2 - At the end of the session, the phase III part I MBBS student must be able to - Describe the description of analytical methods for toxicological analysis.</p> <p>3 - At the end of the session, the phase III part I MBBS student must be able to - Discuss Chromatography.</p> <p>4 - At the end of the session, the phase III part I MBBS student must be able to - Classify Chromatography.</p> <p>5 - At the end of the session, the phase III part I MBBS student must be able to - Discuss Thin Layer Chromatography.</p> <p>6 - At the end of the session, the phase III part I MBBS student must be able to - Discuss Gas Chromatography.</p> <p>7 - At the end of the session, the phase III part I MBBS student must be able to - Discuss Liquid Chromatography.</p> <p>8 - At the end of the session, the phase III part I MBBS student must be able to - Discuss Atomic Absorption Spectroscopy.</p>	K	K/KH	Y	Lecture, Small group discussion	Written/ Viva voce			
Topic: Toxicology : Chemical Toxicology			Number of competencies: (06)			Number of procedures that require certification : (NIL)				

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Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM9.1	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to: Caustics Inorganic – sulphuric, nitric, and hydrochloric acids; Organic Carbolic Acid (phenol), Oxalic and acetylsalicylic acids	<p>1 . At the end of the session,the phase III part I MBBS student must be able to - Describe General Principles in treatment of poisoning.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Describe basic methodologies.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Describe sulphuric Acid poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Describe nitric Acid poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Describe hydrochloric Acid poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - Describe Carbolic Acid poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>7 - At the end of the session,the phase III part I MBBS student must be able to - Describe Oxalic Acid poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning</p> <p>8 - At the end of the session,the phase III part I MBBS student must be able to - Describe acetylsalicylic acid poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p>	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic, Autopsy, DOAP session	Written/ Viva voce/ OSCE		Pharmacology, General Medicine	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM9.2	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Phosphorus, Iodine, Barium	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Phosphorus poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Iodine poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Barium poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p>	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic, Autopsy, DOAP session	Written/ Viva voce/ OSCE		Pharmacology, General Medicine	
FM9.3	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Arsenic, lead, mercury, copper, iron, cadmium and thallium	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Arsenic poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss lead poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss mercury poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss copper poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss iron poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss cadmium poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>7 - At the end of the session.the phase III part I MBBS student</p>	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic, Autopsy, DOAP session	Written/ Viva voce/ OSCE		Pharmacology, General Medicine	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
		must be able to - Discuss thallium poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.								
FM9.4	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Ethanol, methanol, ethylene glycol	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Ethanol poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss methanol poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss ethylene glycol poisoning. with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p>	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic, Autopsy, DOAP session	Written/ Viva voce/ OSCE		Pharmacology, General Medicine	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM9.5	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Organophosphates, Carbamates, Organochlorines, Pyrethroids, Paraquat, Aluminium and Zinc phosphide	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Organophosphates poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Carbamates poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Organochlorines poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Pyrethroids poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Paraquat poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Aluminium phosphide poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>7 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Zinc phosphide poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p>	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic, Autopsy, DOAP session	Written/ Viva voce/ OSCE		Pharmacology, General Medicine	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM9.6	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Ammonia, carbon monoxide, hydrogen cyanide & derivatives, methyl isocyanate, tear (riot control) gases	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Ammonia poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss carbon monoxide poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss hydrogen cyanide poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss methyl poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss isocyanate poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss tear gases poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p>	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic, Autopsy, DOAP session	Written/ Viva voce/ OSCE		Pharmacology, General Medicine	
<p>Topic: Toxicology : Pharmaceutical Toxicology Number of competencies: (01) Number of procedures that require certification : (NIL)</p>										

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM10.1	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to: i. Antipyretics – Paracetamol, Salicylates ii Anti - Infectives (Common antibiotics - an overview) iii Neuropsychotoxicology Barbiturates, benzodiazepins phenytoin, lithium, haloperidol, neuroleptics, tricyclics iv. Narcotic Analgesics, Anaesthetics, and Muscle Relaxants v. Cardiovascular Toxicology Cardiotoxic plants - oleander, odollam, aconite, digitalis vi. Gastro - Intestinal and Endocrinal Drugs - Insulin	1 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Paracetamol poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning. 2 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Salicylates poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning. 3 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Anti - Infectives (Common antibiotics) poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning. 4 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Barbiturates poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning. 5 - At the end of the session,the phase III part I MBBS student must be able to - Discuss benzodiazepins poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning. 6 - At the end of the session,the phase III part I MBBS student must be able to - Discuss phenytoin poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning. 7 - At the end of the session the phase III part I MBBS student must	K	K/KH	Y	Lecture, Small group discussion, Bed side clinic, Autopsy, DOAP session	Written/ Viva voce/ OSCE		Pharmacology, General Medicine	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
		<p>7 - At the end of the session,the phase III part I MBBS student must be able to - Discuss lithium poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>8 - At the end of the session,the phase III part I MBBS student must be able to - Discuss haloperidol poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>9 - At the end of the session,the phase III part I MBBS student must be able to - Discuss neuroleptics poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>10 - At the end of the session,the phase III part I MBBS student must be able to - Discuss tricyclics poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>11 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Narcotic Analgesics poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>12 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Anaesthetics poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>13 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Muscle Relaxants</p> <p>14 - At the end of the session,the phase III part I MBBS student must be able to - Discuss alcohol poisoning with special emphasis</p>								

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Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
		<p>must be able to - Discuss oleander poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>15 - At the end of the session,the phase III part I MBBS student must be able to - Discuss odollam poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>16 - At the end of the session,the phase III part I MBBS student must be able to - Discuss aconite poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>17 - At the end of the session,the phase III part I MBBS student must be able to - Discuss digitalis poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p> <p>18 - At the end of the session,the phase III part I MBBS student must be able to - Discuss Insulin overdose poisoning with special emphasis to general principles, basic methodologies (decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination) in treatment of such poisoning.</p>								
Topic: Toxicology : Biotoxicology			Number of competencies: (01)			Number of procedures that require certification : (NIL)				

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM11.1	Describe features and management of Snake bite, scorpion sting, bee and wasp sting and spider bite	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Classify Snakes.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Describe the features of common venomous Snakes.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to -Differentiate between venomous and non venomous Snakes.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - describe the signs & Symptoms of various venomous Snake bites.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - describe the signs & Symptoms of various scorpion sting.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - describe the signs & Symptoms of various bee and wasp sting.</p> <p>7 - At the end of the session,the phase III part I MBBS student must be able to - describe the signs & Symptoms of various spider bite.</p> <p>8 - At the end of the session,the phase III part I MBBS student must be able to - discuss Diagnosis of snake bite.</p> <p>9 - At the end of the session,the phase III part I MBBS student must be able to - discuss the management of snake bite.</p> <p>10 - At the end of the session,the phase III part I MBBS student must be able to - discuss the management of scorpion sting.</p> <p>11 - At the end of the session,the phase III part I MBBS student must be able to - discuss the management of bee and wasp sting.</p> <p>12 - At the end of the session,the phase III part I MBBS student must be able to - discuss the management of spider bite.</p> <p>13 - At the end of the session,the phase III part I MBBS student must be able to - discuss post mortem findings of snake bite deaths.</p> <p>14 - At the end of the session,the phase III part I MBBS student must be able to - discuss post mortem findings of scorpion sting.</p> <p>15 - At the end of the session,the phase III part I MBBS student must be able to - discuss post mortem findings of bee and wasp sting.</p> <p>16 - At the end of the session,the phase III part I MBBS student must be able to - discuss post mortem findings of spider bite.</p>	K	K/KH	Y	Lecture, Small group discussion, Autopsy	Written/ Viva voce		General Medicine	

Topic: Toxicology : Sociomedical Toxicology

Number of competencies: (01)

Number of procedures that require certification : (NIL)

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM12.1	Describe features and management of abuse/poisoning with following camicals: Tobacco, cannabis, amphetamines, cocaine, hallucinogens, designer drugs & solvent	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features of Tobacco.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features of cannabis.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features of amphetamines.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features of cocaine.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features of hallucinogens.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - Describe clinical features of designer drugs & solvent.</p> <p>7 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the management of Tobacco poisoning.</p> <p>8 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the management of cannabis poisoning.</p> <p>9 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the management of amphetamines poisoning.</p> <p>10 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the management of cocaine poisoning.</p> <p>11 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the management of hallucinogens poisoning.</p> <p>12 - At the end of the session,the phase III part I MBBS student must be able to - Discuss the management of designer drugs & solvent poisoning.</p> <p>13 - At the end of the session,the phase III part I MBBS student must be able to - Describe hallucinogens.</p> <p>14 - At the end of the session,the phase III part I MBBS student must be able to - Describe designer drugs & solvent.</p>	K	K/KH	Y	Lecture, Small group discussion, Autopsy	Written/ Viva voce		General Medicine	
Topic: Toxicology : Environmental Toxicology			Number of competencies: (02)			Number of procedures that require certification : (NIL)				
FM13.1	Describe toxic pollution of environment, its medico - legal aspects & toxic hazards of occupation and industry	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Describe toxic pollution of environment.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Describe its medico - legal aspects.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Describe toxic hazards of occupation and industry.</p>	K	K/KH	Y		Written/ Viva voce		General Medicine	
Fm13.2	Describe medico - legal aspects of poisoning in Workman's Compensation Act	2 - At the end of the session,the phase III part I MBBS student must be able to - Describe medico - legal aspects of poisoning in Workman's Compensation Act.	K	K/KH	Y		Written/ Viva voce			
Topic: Skills in Forensic Medicine & Toxicology			Number of competencies: (22)			Number of procedures that require certification: (NIL)				

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM14.1	Examine and prepare Medico - legal report of an injured person with different etiologies in a simulated/ supervised environment	1 - At the end of the session,the phase III part I MBBS student must be able to - Examine Medico - legal report of an injured person with different etiologies in a simulated/ supervised environment. 2 - At the end of the session,the phase III part I MBBS student must be able to - prepare Medico - legal report of an injured person with different etiologies in a simulated/ supervised environment.	S	SH/P	Y	Bedside clinic (ward/ casualty), Small group discussion	Log book/ Skill station/ Viva voce / OSCE			
FM14.2	Demonstrate the correct technique of clinical examination in a suspected case of poisoning & prepare medico - legal report in a simulated/ supervised environment	1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate the correct technique of clinical examination in a suspected case of poisoning. 2 - At the end of the session,the phase III part I MBBS student must be able to - prepare medico - legal report in a simulated/ supervised environment.	S	SH	Y	Bedside clinic (ward/ casualty), Small group discussion	Log book/ Skill station/ Viva voce / OSCE		General Medicine	
FM14.3	Assist and demonstrate the proper technique in collecting, preserving and dispatch of the exhibits in a suspected case of poisoning, along with clinical examination	1 - At the end of the session,the phase III part I MBBS student must be able to - Assist the proper technique in collecting, preserving and dispatch of the exhibits in a suspected case of poisoning, along with clinical examination. 2 - At the end of the session,the phase III part I MBBS student must be able to - demonstrate the proper technique in collecting, preserving and dispatch of the exhibits in a suspected case of poisoning, along with clinical examination.	S	SH	Y	Bedside clinic, Small Group discussion, DOAP session	Skill lab/ Viva voce		General Medicine	
FM14.4	Conduct and prepare report of estimation of age of a person for medico-legal and other purposes & prepare medico - legal report in a simulated/ supervised environment	1 - At the end of the session,the phase III part I MBBS student must be able to - Conduct estimation of age of a person for medico-legal and other purposes in a simulated/ supervised environment. 2 - At the end of the session,the phase III part I MBBS student must be able to - prepare report of estimation of age of a person for medico-legal and other purposes in a simulated/ supervised environment. 3 - At the end of the session,the phase III part I MBBS student must be able to - prepare medico - legal report in a simulated/ supervised environment.	S	KH	Y	Small group discussion, Demonstration	Log book/ Skill station/ Viva voce / OSCE			
FM14.5	Conduct & prepare post - mortem examination report of varied etiologies (at least 15) in a simulated/ supervised environment	1 - At the end of the session,the phase III part I MBBS student must be able to - Conduct post - mortem examination report of varied etiologies (at least 15) in a simulated/ supervised environment. 2 - At the end of the session,the phase III part I MBBS student must be able to - Prepare post - mortem examination report of varied etiologies (at least 15) in a simulated/ supervised environment.	S	KH	Y	Small group discussion, Autopsy, DOAP session	Log book/ Skill station/ Viva voce / OSCE			

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM14.6	Demonstrate and interpret medico - legal aspects from examination of hair (human & animal) fibre, semen & other biological fluids	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate medico - legal aspects from examination of hair (human & animal) fibre</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate medico - legal aspects from examination of semen.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate medico - legal aspects from examination of other biological fluids.</p> <p>4 - At the end of the session,the phase III part I MBBS student must be able to - interpret medico - legal aspects from examination of hair (human & animal) fibre.</p> <p>5 - At the end of the session,the phase III part I MBBS student must be able to - Interpret medico - legal aspects from examination of semen.</p> <p>6 - At the end of the session,the phase III part I MBBS student must be able to - Interpret medico - legal aspects from examination of other biological fluids.</p>	S	KH	Y	Small group discussion, Lecture	Log book/ Skill station/ Viva voce / OSCE			
FM14.7	Demonstrate & identify that a particular stain is blood and identify the species of its origin	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate that a particular stain is blood.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - Identify that a particular stain is blood.</p> <p>3 - At the end of the session,the phase III part I MBBS student must be able to - identify the species of its origin.</p>	S	KH	Y	Small group discussion, Lecture	Log book/Skill station/Viva voce		Pathology, Physiology	
FM14.8	Demonstrate the correct technique to perform and identify ABO & RH blood group of a person	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate the correct technique to perform ABO & RH blood group of a person.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - identify ABO & RH blood group of a person.</p>	S	SH	Y	Small group discussion, DOAP session	Log book/Skill station/Viva voce		Pathology, Physiology	
FM14.9	Demonstrate examination of & present an opinion after examination of skeletal remains in a simulated/ supervised environment	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate examination of skeletal remains in a simulated/ supervised environment</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - present an opinion after examination of skeletal remains in a simulated/ supervised environment.</p>	S	SH	Y	Small group discussion, DOAP session	Log book/Skill station/Viva voce			
FM14.10	Demonstrate ability to identify & prepare medicolegal inference from specimens obtained from various types of injuries e.g. contusion, abrasion, laceration, firearm wounds, burns, head injury and fracture of bone	<p>1 - At the end of the session,the phase III part I MBBS student must be able to - Demonstrate ability to identify from specimens obtained from various types of injuries e.g. contusion, abrasion, laceration, firearm wounds, burns, head injury and fracture of bone.</p> <p>2 - At the end of the session,the phase III part I MBBS student must be able to - prepare medicolegal inference from specimens obtained from various types of injuries e.g. contusion, abrasion, laceration, firearm wounds, burns, head injury and fracture of bone.</p>	S	KH	Y	Small group discussion, DOAP session	Log book/Skill station/ Viva voce/ OSPE			

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM14.11	To identify & describe weapons of medicolegal importance which are commonly used e.g. lathi, knife, kripaan, axe, gandasa, gupti, farsha, dagger, bhalla, razor & stick. Able to prepare report of the weapons brought by police and to give opinion regarding injuries present on the person as described in injury report/ PM report so as to connect weapon with the injuries. (Prepare injury report/ PM report must be provided to connect the weapon with the injuries)	1 - At the end of the session,the phase III part I MBBS student must be able to - To identify weapons of medicolegal importance which are commonly used e.g. lathi, knife, kripaan, axe, gandasa, gupti, farsha, dagger, bhalla, razor & stick. 2 - At the end of the session,the phase III part I MBBS student must be able to - describe weapons of medicolegal importance which are commonly used e.g. lathi, knife, kripaan, axe, gandasa, gupti, farsha, dagger, bhalla, razor & stick. 3 - At the end of the session,the phase III part I MBBS student must be able to - Able to prepare report of the weapons brought by police. 4 - At the end of the session,the phase III part I MBBS student must be able to - Record opinion regarding injuries present on the person as described in injury report/ PM report so as to connect weapon with the injuries. (Prepare injury report/ PM report must be provided to connect the weapon with the injuries).	S	KH	Y	Small group discussion, DOAP session	Log book/Skill station/ Viva voce/ OSPE			
FM14.12	Describe the contents and structure of bullet and cartridges used & to provide medico-legal interpretation from these	1 - At the end of the session,the phase III part I MBBS student must be able to - Describe the contents of bullet /cartridges. 2 - At the end of the session,the phase III part I MBBS student must be able to - structure of bullet /cartridges. 3 - At the end of the session,the phase III part I MBBS student must be able to - medico-legal interpretation from these.	S	KH	Y	Small group discussion, DOAP session	Log book/ Skill station/Viva voce			
FM14.13	To estimate the age of foetus by post-mortem examination	1 - At the end of the session,the phase III part I MBBS student must be able to - estimate the age of foetus by post-mortem examination.	S	KH	Y	Small group discussion, DOAP session	Theory/ Clinical assessment/ Viva voce			
FM14.14	To examine & prepare report of an alleged accused in rape/ unnatural sexual offence in a simulated/ supervised environment	1 - At the end of the session,the phase III part I MBBS student must be able to - Examine an alleged accused in rape/ unnatural sexual offence in a simulated/ supervised environment. 2 - At the end of the session,the phase III part I MBBS student must be able to - Prepare report of an alleged accused in rape/ unnatural sexual offence in a simulated/ supervised environment.	S	KH	Y	Small group discussion, DOAP session	Log book/ Skill station/ Viva voce / OSCE			
FM 14.15	To examine & prepare medico - legal report of a victim of sexual offence/ unnatural sexual offence in a simulated/ supervised environment	1 - At the end of the session,the phase III part I MBBS student must be able to - examine a victim of sexual offence/ unnatural sexual offence in a simulated/ supervised environment. 2 - At the end of the session,the phase III part I MBBS student must be able to - Prepare medico - legal report of a victim of sexual offence/ unnatural sexual offence in a simulated/ supervised environment.	S	KH	Y	Small group discussion, DOAP session	Log book/ Skill station/ Viva voce / OSCE			

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM 14.16	To examine & prepare medico - legal report of drunk person in a simulated/ supervised environment	1 - At the end of the session,the phase III part I MBBS student must be able to - examine a drunk person in a simulated/ supervised environment. 2 - At the end of the session,the phase III part I MBBS student must be able to - prepare medico - legal report of drunk person in a simulated/ supervised environment.	S	KH	Y	Small group discussion, Bed side clinic, DOAP session	Log book/ Skill station/ Viva voce / OSCE			
FM14.17	To identify & draw medico - legal inference from common poisons e.g. dhatura, castor, cannabis, opium, aconite copper sulphate, pesticides compounds, markingnut, oleander, Nuxvomica, abrus seeds, Snakes, capsicum, calotropis, lead compounds & tobacco.	1 - At the end of the session,the phase III part I MBBS student must be able to - Identify common poisons e.g. dhatura, castor, cannabis, opium, aconite copper sulphate, pesticides compounds, markingnut, oleander, Nuxvomica, abrus seeds, Snakes, capsicum, calotropis, lead compounds & tobacco. 2 - At the end of the session,the phase III part I MBBS student must be able to - Draw medico - legal inference from common poisons e.g. dhatura, castor, cannabis, opium, aconite copper sulphate, pesticides compounds, markingnut, oleander, Nuxvomica, abrus seeds, Snakes, capsicum, calotropis, lead compounds & tobacco.	S	KH	Y	Small group discussion, DOAP session	Log book/ Viva voce			
FM14.18	To examine & prepare medico - legal report of a person in police, judicial custody or referred by Court of Law and violation of human rights as requirement of NHRC, who has been brought for medical examination	1 - At the end of the session,the phase III part I MBBS student must be able to - Examine a person in police, judicial custody or referred by Court of Law (violation of human rights as requirement of NHRC), who has been brought for medical examination. 2 - At the end of the session,the phase III part I MBBS student must be able to - Prepare medico - legal report of a person in police, judicial custody or referred by Court of Law (violation of human rights as requirement of NHRC), who has been brought for medical examination.	S	KH	Y	Small group discussion, DOAP session	Log book/ Skill station/ Viva voce / OSCE			
FM14.19	To identify & prepare medico - legal inference from histo-pathological slides of Myocardial Infarction, pneumonitis, tuberculosis, brain infarct, liver cirrhosis, brain haemorrhage, bone fracture, Pulmonary oedema, brain oedema, soot particles, diatoms & wound healing	1 - At the end of the session,the phase III part I MBBS student must be able to - Identify histo-pathological slides of Myocardial Infarction, pneumonitis, tuberculosis, brain infarct, liver cirrhosis, brain haemorrhage, bone fracture, Pulmonary oedema, brain oedema, soot particles, diatoms & wound healing. 2 - At the end of the session,the phase III part I MBBS student must be able to - Prepare medico - legal inference from histo-pathological slides of Myocardial Infarction, pneumonitis, tuberculosis, brain infarct, liver cirrhosis, brain haemorrhage, bone fracture, Pulmonary oedema, brain oedema, soot particles, diatoms & wound healing.	S	KH	Y	Small group discussion, DOAP session	Log book/ Skill station/ Viva voce			
FM14.20	To record and certify dying declaration in a simulated/ supervised environment	1 - At the end of the session,the phase III part I MBBS student must be able to - Record dying declaration in a simulated/ supervised environment. 2 - At the end of the session,the phase III part I MBBS student must be able to - Certify dying declaration in a simulated/ supervised environment.	S	KH	Y	Small group discussion, Role Play, Bed side clinic DOAP session	Log book/ Skill station/ Viva voce /OSCE			

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
FM14.21	To collect, preserve, seal and dispatch exhibits for DNA - Finger printing using various formats of different laboratories	1 - At the end of the session,the phase III part I MBBS student must be able to - collect exhibits for DNA - Finger printing using various formats of different laboratories. 2 - At the end of the session,the phase III part I MBBS student must be able to - preserve exhibits for DNA - Finger printing using various formats of different laboratories. 3 - At the end of the session,the phase III part I MBBS student must be able to - seal exhibits for DNA - Finger printing using various formats of different laboratories. 4 - At the end of the session,the phase III part I MBBS student must be able to - dispatch exhibits for DNA - Finger printing using various formats of different laboratories.	S	KH	Y	Small group discussion, Lecture	Log book/ Skill station/Viva voce			
FM14.22	To give expert medical/ medico - legal evidence in Court of law	1 - At the end of the session,the phase III part I MBBS student must be able to - Give expert medical/ medico - legal evidence in Court of law.	S	KH	Y	Small group discussion, Lecture, DOAP session, role play, Court Visits	Log book/ Viva voce/OSCE			
<p>Column C: K - Knowledge, S - Skill, A - Attitude / professionalism, C- Communication. Column D: K - Knows, KH - Knows how, SH - Shows how, P- independently, Column F: DOAP session - Demonstrate, Observe, Assess, Perform. Column H: If entry is P: indicate how many procedures must be done independently for certification/ graduation</p>										
Integration										
Human Anatomy										
AN14.3	Describe the importance of ossification of lower end of femur & upper end of tibia		K	KH	Y	Lecture	Viva voce/Practicals		Forensic Medicine	
Pharmacology										
PH1.22	Describe drugs of abuse (dependence, addiction, stimulants, depressants, psychedelics, drugs used for criminal		K	KH	Y	Lecture, Small group discussion	Written/Viva voce		Psychiatry	Forensic Medicine
PH5.7	Demonstrate an understanding of the legal and ethical aspects of prescribing drugs		K	KH	Y	Small group discussion	short note/Viva voce			Forensic Medicine
Radiodiagnosis										

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
RD1.13	Describe the components of the PC & PNDT act and its medicolegal implications		K	KH	Y	Lecture, Small group discussion			Obstetrics & Gynaecology, Forensic Medicine	
Psychiatry										
PS19.3	Describe and discuss the basic legal and ethical issues in psychiatry		K	KH	Y	Lecture, Small group discussion	Written/Viva voce		Forensic Medicine AETCOM	
General Medicine										
IM20.1	Enumerate the poisonous snakes of your area and describe the distinguishing marks of each		K	KH	Y	Lecture, Small group discussion	Written/Viva voce		Forensic Medicine, Pharmacology	
IM20.2	Describe, demonstrate in a volunteer or a mannequin and educate (to other health care workers / patients) the correct initial management of patient with a snake bite in the field		S	SH	Y	DOAP session	Skill assessment/ Written/ Viva voce		Forensic Medicine	
IM20.3	Describe the initial approach to the stabilisation of the patient who presents with snake bite		K	KH	Y	Lecture, Small group discussion	Written/Viva voce		Forensic Medicine	
IM20.4	Elicit and document and present an appropriate history, the circumstance, time, kind of snake, evolution of symptoms in a patient with snake bite		S	SH	Y	Bedside clinic, DOAP session	Skill assessment		Forensic Medicine	
IM21.2	Enumerate the common plant poisons seen in your area and describe their toxicology, clinical features, prognosis and specific approach to detoxification		K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Forensic Medicine, Pharmacology	
IM21.3	Enumerate the common corrosives used in your area and describe their toxicology, clinical features, prognosis and approach to therapy		K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Forensic Medicine, Pharmacology	
IM21.4	Enumerate the commonly observed drug overdose in your area and describe their toxicology, clinical features, prognosis and approach to therapy		K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Forensic Medicine, Pharmacology	
IM21.5	Observe and describe the functions and role of a poison center in suspected poisoning		S	KH	Y	DOAP session	document in log book		Forensic Medicine, Pharmacology	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
IM21.6	Describe the medico legal aspects of suspected suicidal or homicidal poisoning and demonstrate the correct procedure to write a medico legal report on a suspected poisoning		S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		Forensic Medicine, Pharmacology	
IM21.7	Counsel family members of a patient with suspected poisoning about the clinical and medico legal aspects with empathy		A/C	SH	Y	DOAP session	Skill assessment		Forensic Medicine, Pharmacology	
IM21.8	Enumerate the indications for psychiatric consultation and describe the precautions to be taken in a patient with suspected suicidal ideation / gesture		K	KH	Y	DOAP session	Skill assessment		Forensic Medicine, Psychiatry	
Obstetrics & Gynaecology										
OG1.3	Define and Discuss still birth and abortion		K	KH	Y	Lecture, Small group discussions	Short notes		Forensic Medicine	
OG9.2	Describe the steps and observe/ assist in the performance of an MTP evacuation		S	SH	Y	DOAP session, Bedside clinic	Viva voce		Forensic Medicine	
OG20.1	Enumerate the indications and describe and discuss the legal aspects, indications, methods for first and second trimester MTP; complications and management of complications of medical termination of pregnancy		K	KH	Y	Lecture, Small group discussions	Written/ Viva voce		Forensic Medicine	
OG20.2	In a simulated environment administer informed consent to a person wishing to undergo medical termination of		S/A/C	SH	Y	DOAP session	Skill assessment		Forensic Medicine	
OG20.3	Discuss Pre-conception and Pre Natal Diagnostic Techniques (PC & PNNT) Act 1994 & its amendments		K	K/KH	Y	Lecture, Small group discussions	Written/ Viva voce		Forensic Medicine	
General Surgery										
SU8.1	Describe the principles of Ethics as it pertains to surgery		K	KH	Y	Lecture, Small group discussion	Written/ Viva voce/ skill assessment		Forensic Medicine, AETCOM	
SU8.2	Demonstrate Professionalism and empathy to the patient undergoing surgery		A/C	SH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		Forensic Medicine, AETCOM	

Number	COMPETENCY The student must be able to	Specific Learning Objectives	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P	Vertical Integration	Horizontal Integration
SU8.3	Discuss Medico legal issues in surgical practice		A/C	KH	Y	Lecture, Small group discussion	Written/ Viva voce/ skill assessment		Forensic Medicine, AETCOM	

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