



ST JOSEPH UNIVERSITY

KANYAKUMARI MEDICAL MISSION RESEARCH CENTRE

ST. DEVA SAHAYAM NAGAR, MUTTOM,

KANYAKUMARI DIST – 629202

Syllabus for

MBBS

BACHELOR OF MEDICINE AND BACHELOR OF SURGERY

PHASE-III Part I

ACADEMIC CALENDAR

Time distribution of MBBS Teaching & Examination Schedule

Academic calendar for admission batch 2024-2025												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Adm year										1 14 Oct	2	3
Phase 1 exam	4	5	6	7	8	9	10	11	12 Phase 1 exam, result	13 Phase 2 starts	14	15
Phase 2 exam	16	17	18	19	20	21	22	23	24 Phase 2 exam, result	25 Phase 3 part 1 starts	26	27
Phase 3 part I exam	28	29	30	31	32	33	34	35	36 Phase 3 Part 1 exam, result	37 Phase 3 part 2 starts	38	39
	40	41	42	43	44	45	46	47	48	49	50	51
Phase 3 part II exam	52	53	54 Proposed NExT step1	1 CRMI	2	3	4	5	6	7	8	9
Internship	10	11	12 Proposed NExT step2									

Distribution of Subject Wise Teaching Hours for Phase III PART 1 MBBS

Subject	Large group teaching	SGT/ Practicals/ Tutorials/ Seminars	SDL	Total
Electives	0	156	0	156
Gen. Medicine	20	30	10	60
Gen Surgery	20	30	10	60
Obstetrics & Gynecology	20	30	10	60
Forensic Medicine and Toxicology	35	65	20*	120
Community Med	50	80	20	150
FAP (Visits +log book submission)	-	26	10	36
Otorhinolaryngology (ENT)	30	50	20	100
Ophthalmology	30	50	20	100
Clinical posting*				648
AETCOM	0	19	12	31
Total	205	536	132	1521

*Out of this, 21 Hours (07 days x 03 hours) must be utilised for demonstration of post mortem examinations

Pl. note: *Clinical postings shall be for 3 hours per day, Monday to Saturday. There will be 18 hours per week for all clinical postings.

SGT: Small group teaching ,SDL: Self-directed learning

CLINICAL POSTING IN PHASE III PART1 MBBS

Subjects	Period of training in weeks			Total Weeks
	Phase II	Phase III Part 1	Phase III Part 2	
Electives	0	4	0	4
General Medicine	8	4	12	24
General Surgery	6	6	12	24
Obstetrics & Gynaecology	6	4	12	22
Pediatrics	4	2	6	12
Community Medicine	4	4	0	8
Orthopaedics	0	2	6	8
Otorhinolaryngology	4	4	0	8
Ophthalmology	4	4		8
Psychiatry	0	2	4	6
Radio-diagnosis	0	0	2	2
Dermatology, Venereology & Leprosy	0	0	6	6
Anaesthesiology	0	0	2	2
Total	36	36	62	134

COMPETENCY BASED UNDERGRADUATE CURRICULUM FOR THE INDIAN MEDICAL GRADUATE

GMER 2024 VOLUME I, II & III

**National Medical Commission
Pocket-14, Sector- 8, Dwarka
New Delhi 110 077**



Contents Volume I

S. No.	Subject	Legend	Page No.
(1)	How to use the Manual		8
(ii)	Definitions used in the Manual		28
(iii)	Subject wise Competencies		
1.	Anatomy	AN	32
2.	Physiology	PY	74
3.	Biochemistry	BC	86
4.	Pharmacology	PH	98
5.	Pathology	PA	111
6.	Microbiology	MI	130
7.	Forensic Medicine & Toxicology	FM	140
(iv)	List of contributing subject experts		160

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S. No.	Subject	Legend	Page No.
(i)	How to use the Manual		8
(ii)	Definitions used in the Manual		28
(iii)	Subject wise Competencies		
1.	Community Medicine	CM	32
2.	General Medicine	GM	44
3.	Paediatrics	PE	92
4.	Psychiatry	PS	114
5.	Dermatology, Venereology & Leprosy	DE	118
(iv)	List of contributing subject experts		125

CONTENTS VOLUME III

S. No.	Subject	Legend	Page No.
(i)	How to use the Manual		8
(ii)	Definitions used in the Manual		28
(iii)	Subject wise Competencies		
1.	General Surgery	SU	32
2.	Ophthalmology	OP	44
3.	Otorhinolaryngology	EN	50
4.	Obstetrics & Gynaecology	OG	57
5.	Orthopaedics'	OR	74
6.	Anaesthesiology	AS	82
7.	Radiodiagnosis	RT	87
(iv)	List of contributing subject experts		91

Topics and competencies in Phase III Part 1 MBBS

Sr. No.	Subjects	Number of topics	Number of competencies
1.	Forensic Medicine	14	158
2.	Community Medicine	20	136
3.	Ophthalmology	10	60
4.	Otorhinolaryngology	04	63

KMMC Medical College and Hospitals, Muttom, Kanyakumari

Timetable for Phase III Part I MBBS – Batch of 2024

Timetable for Phase III Part I MBBS from October 2026 to February 2027

Day	8:30 – 9:30 am	9:30 – 10:30 am	10:30am – 1:30 pm	1:30 – 2pm	2 – 4 pm
Monday	ENT	General Medicine	Clinical Postings	Lunch	Community Medicine – SGT / AETCOM
Tuesday	Community Medicine	General Surgery			Forensic Medicine and Toxicology – SGT / AETCOM
Wednesday	Ophthalmology	Obstetrics and Gynecology			Community Medicine – SGT / AETCOM
Thursday	Paediatrics	Forensic Medicine and Toxicology			Ophthalmology – SGT / AETCOM
Friday	Community Medicine	Forensic Medicine and Toxicology			ENT – SGT / AETCOM
Saturday	Obstetrics and Gynecology / General Surgery: SDL /SGT				General Medicine / Paediatrics: SDL /SGT

- **AETCOM:** by the phase 3 part 1 subjects at 2-4pm, on the FIRST WEEK of every month till February 2027
- **Integrated Teaching:** From November 2026, At 2-4 pm on the SECOND WEEK
 - November 2026 – Community Medicine
 - December 2026 - Forensic Medicine and Toxicology
 - January 2027 - ENT
 - February 2027` – Ophthalmology
 - March 2027– Community Medicine
 - April 2027- Forensic Medicine and Toxicology
 - May 2027 – ENT
 - June 2027 – Ophthalmology
- Teaching schedule for **Saturdays:** October 2026 to February 2027

Saturdays	Department and activity	
	8:30 am to 10:30 am	2pm – 4pm
First Saturday	Obstetrics and Gynecology- SGT	General Medicine - SGT
Second Saturday	General Surgery- SGT	Paediatrics- SGT
Third Saturday	Community Medicine – Family Adoption Programme (FAP)	
Fourth Saturday	Obstetrics and Gynecology- SDL	General Medicine- SDL
Fifth Saturday	General Surgery- SDL	Paediatrics- SDL

Timetable for Phase III Part I MBBS from March 2027 to July 2027

Day	8:30 – 9:30 am	9:30 – 10:30 am	10:30am – 1:30 pm	1:30 – 2pm	2 – 4 pm
Monday	ENT	Ophthalmology	Clinical Postings	Lunch	Community Medicine – Seminar / SDL
Tuesday	Community Medicine	Community Medicine			Forensic Medicine and Toxicology - Seminar / SDL
Wednesday	Ophthalmology	Forensic Medicine and Toxicology			Community Medicine - Seminar / SDL
Thursday	ENT	Forensic Medicine and Toxicology			Ophthalmology - Seminar / SDL
Friday	Community Medicine	Forensic Medicine and Toxicology			ENT - Seminar / SDL
Saturday	Community Medicine/ Forensic Medicine and Toxicology: Tutorials				ENT / Ophthalmology: Tutorials

- **SDL:** First week of every month by the designated department days, at 2pm – 4pm.
- Teaching schedule for **Saturdays:** March 2027 to July 2027

Saturdays	Department and activity	
	8:30 am to 10:30 am	2pm – 4pm
First, Third and Fifth Saturday	Community Medicine: Tutorials	ENT: Tutorials
Second and Fourth Saturday	Forensic Medicine and Toxicology: Tutorials	Ophthalmology: Tutorials

COMPETENCY TABLE
FORENSIC MEDICINE & TOXICOLOGY (CODE: FM)

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/ S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FORENSIC MEDICINE & TOXICOLOGY (Topics = 14, Competencies = 158)							
Topic 1: Introduction to forensic medicine basics of legal procedure. Number of competencies: (09)				Number of competencies that require certification: (NIL)			
FM1.1	Define Forensic medicine, Clinical Forensic Medicine, Forensic Pathology, State Medicine, Legal Medicine and Medical Jurisprudence	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM1.2	Describe history of Forensic Medicine	K	KH	N	SDL	Written/ Viva voce	
FM1.3	Describe legal competencies including Bharatiya Nagarika Suraksha Sanhita (BNSS), Bharatiya Nyay Sanhita (BNS) Bharatiya Sakshya Adhiniyam (BSA), Protection of Children from Sexual Offences Act (POCSO) Civil and Criminal Cases, Inquest (Police Inquest and Magistrate's Inquest), Cognizable and Non-cognizable offences	K	KH	Y	LGT, SGT/ Practicals / Seminars	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	K	KH	N	SDL/Moot Court	Written/ Viva voce	
FM1.5	Describe Court competencies 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	K	KH	Y	LGT, SGT/ Practicals / Seminars, Moot Court	Written/ Viva voce	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/ S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM1.6	Describe Offenses in Court including Perjury; Court strictures vis-a-vis Medical Officer	K	KH	N	SDL	Written/ Viva voce	
FM1.7	Describe Dying Declaration & Dying Deposition	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM1.8	Describe the latest decisions/notifications/resolutions/circulars/standing orders related to medico-legal practice issued by Courts/Government authorities etc.	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM1.9	Describe the importance of documentation in medical practice in regard to medico legal examinations, Medical Certificates and medico legal 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	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce/Direct observation	
Topic 2: Forensic Pathology		Number of competencies: (28)			Number of competencies that require certification : (1)		
FM2.1	Select appropriate cause of death in a particular scenario by referring ICD 11 code	K	KH	Y	LGT,SGT/ Practicals / Seminars	Written/ Viva voce	
FM2.2	Write a correct Medical Certificate of Cause of Death (MCCD) certificate as per ICD 11 document	S	SH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce/ Direct observation /O SPE	3

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/ S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM2.3	Define, describe and discuss death and its types including somatic/clinical/cellular, molecular and brain-death, Cortical Death and Brainstem Death	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM2.4	Describe salient features of the Organ Transplantation and The Human Organ Transplant (Amendment) Act 2011 and discuss ethical issues regarding organ donation	K	KH	Y	LGT, SGT/ Practicals / Seminars/video demo.	Written/ Viva voce	
FM2.5	Describe and discuss issues related to sudden natural deaths	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM2.6	Describe and discuss natural and unnatural deaths	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM2.7	Discuss moment of death, modes of death – coma, asphyxia and syncope	K	KH	Y	LGT, SGT/ Practicals / Seminars/ Video demo.	Written/ Viva voce	
FM2.8	Describe and discuss suspended animation	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM2.9	Describe and discuss post-mortem changes including signs of death, cooling of body, post-mortem lividity, rigor mortis, cadaveric spasm, cold stiffening and heat stiffening	K	KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy, DOAP/Video Demo.	Written/ Viva voce/OSPE	
FM2.10	Describe putrefaction, mummification, adipocere and maceration	K	KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy, DOAP	Written/ Viva voce/OSPE	
FM2.11	Discuss estimation of time since death	K	KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy, DOAP	Written/ Viva voce/OSPE	
FM2.12	Introduction to mortuary setup and minimum requirement for conducting post-mortem examination and Embalming techniques	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM2.13	Describe and discuss autopsy competencies including post-mortem examination, different types of autopsies, aims and objectives of post-mortem examination	K	KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy, DOAP	Written/ Viva voce/OSPE	
FM2.14	Describe the legal requirements to conduct post-mortem examination and competencies to conduct medico-legal post-	K	KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy, DOAP	Written/ Viva voce/OSPE	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
	mortem examination						
FM2.15	Describe and discuss obscure autopsy and Virtopsy	K	KH	Y	LGT, SGT/ Practicals / Seminars, Video Demo.	Written/ Viva voce	
FM2.16	Describe and discuss examination of clothing, preservation of viscera on post-mortem examination for chemical analysis and other medico-legal purposes, post-mortem artefacts	K	KH	Y	LGT, SGT/ Practicals / Seminars , Autopsy, DOAP, Video Demo.	Written/ Viva voce/OSPE	
FM2.17	Describe the clinical features, post-mortem finding and medico legal aspects of injuries due to physical agents like heat (heat-hyper- pyrexia, heat stroke, sun stroke, heat exhaustion/prostration, heat cramps [miner's cramp] or cold (systemic and localized hypothermia,frostbite, trench foot, immersion foot)	K	KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy ,DOAP	Written/ Viva voce	
FM2.18	Describe types of injuries, clinical features, patho-physiology, post- mortem findings and medico-legal aspects in cases of burns, scalds, lightening, electrocution and radiations	K	KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy, DOAP	Written/ Viva voce/OSPE	
FM2.19	Describe and discuss clinical features, post-mortem findings and medico-legal aspects of death due to starvation and neglect	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM 2.20	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	LGT, SGT/ Practicals / Seminars, Autopsy, DOAP	Written/ Viva voce/OSPE	
FM2.21	Describe and discuss examination of mutilated bodies or fragments, charred bones and bundle of bones	K	KH	Y	LGT, SGT/ Practicals / Seminars, DOAP	Written/ Viva voce/OSPE	
FM2.22	Describe and discuss exhumation	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM2.23	Crime Scene Investigation: Describe and discuss the objectives of crime scene visit, the duties & responsibilities of doctors on crime scene and the reconstruction of sequence of events after crime scene investigation	K	KH	N	SDL	Written/ Viva voce	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM2.24	Investigation of anaesthetic, operative deaths: Describe and discuss special protocols for conduction of autopsy and for collection, preservation and dispatch of related material evidences	K	KH	N	SDL	Written/ Viva voce	
FM2.25	Demonstrate professionalism while conducting autopsy in medico legal situations, interpretation of findings and making inference/opinion, collection preservation and dispatch of biological or trace evidences	A, C	KH/SH	Y	LGT, SGT/ Practicals / Seminars, DOAP	Written/ Viva voce/ OSPE	
FM2.26	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	LGT, SGT/ Practicals / Seminars, DOAP	Written/ Viva voce/ OSPE	
FM2.27	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	LGT, SGT/ Practicals / Seminars, DOAP	Written/ Viva voce	
FM2.28	Demonstrate ability to use local resources whenever required like in mass disaster situations	A and C	KH	Y	LGT, SGT/ Practicals /Seminars	Written/ Viva voce	
Topic 3: Mechanical asphyxia		Number of competencies: (04)			Number of competencies that require certification : (NIL)		
FM3.1	Define, classify and describe asphyxia and medico-legal interpretation of post-mortem findings in asphyxial deaths	K	KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy, DOAP	Written/ Viva voce/OSPE	
FM3.2	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	K	KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy DOAP	Written/ Viva voce/OSPE	
FM3.3	Describe and discuss patho-physiology, clinical features, post- mortem findings and medico-legal aspects of traumatic asphyxia, obstruction of nose & mouth, suffocation and sexual asphyxia	K	KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy, DOAP	Written/ Viva voce/OSPE	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM3.4	Describe and discuss types, patho-physiology, clinical features, postmortem findings and medico-legal aspects of drowning	K	KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy, DOAP	Written/ Viva voce/OSPE	
Topic 4: Clinical forensic medicine – identification Number of competencies: (04) Number of competencies that require certification : (NIL)							
FM4.1	Define and describe Corpus Delicti, establishment of identity of living persons including race, Sex, religion, complexion, stature, age determination using morphology,	K	KH	Y	LGT, SGT/ Practicals / Seminars , Bedside clinic, DOAP	Written/Viva voce/ skill assessment	
FM4.2	Discuss teeth-eruption, decay, bite marks, bones-ossification centres, medico-legal aspects of age	K	KH	Y	LGT, SGT/ Practicals / Seminars , Bedside clinic, DOAP	Written/Viva voce/ skill assessment	
FM4.3	Describe and discuss identification of criminals, unknown persons, dead bodies from the remains-hairs, fibers, teeth, anthropometry	K	KH	Y	LGT, SGT/ Practicals / Seminars , Bedside clinic, DOAP	Written/Viva voce/ skill assessment	
FM4.4	Dactylography, footprints, scars, tattoos, poroscopy and superimposition	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
Topic 5: Clinical forensic medicine - mechanical injuries and wounds Number of competencies: (06) Number of competencies that require certification : (NIL)							
FM5.1	Define, describe and classify different types of mechanical injuries, abrasion, bruise, laceration, stab wound, incised wound, chop wound, defense wound, self- inflicted/fabricated wounds and their medico-legal aspects	K	KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, DOAP	Written/ Viva voce/OSCE	
FM5.2	Define injury, assault & hurt. Describe Bharatiya Nyay Sanhita (BNS) pertaining to injuries	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM5.3	Describe accidental, suicidal and homicidal injuries. Describe simple, grievous and dangerous injuries. Describe ante-mortem and post-mortem injuries	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM5.4	Describe healing of injury and fracture of bones with its medico-legal importance	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM5.5	Describe factors influencing infliction of injuries and healing, examination and certification of wounds and wound as a cause of death: Primary and Secondary	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM5.6	Describe and discuss different types of weapons including dangerous weapons and their examination	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
Topic 6: Clinical forensic medicine - firearm injuries		Number of competencies: (02)			Number of competencies that require certification : (NIL)		
FM6.1	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	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM6.2	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	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, DOAP	Written/Viva voce/OSCE	
Topic 7: Clinical forensic medicine - regional injuries		Number of competencies: (02)			Number of competencies that require certification : (NIL)		
FM7.1	Describe and discuss regional injuries to head(Scalp wounds, fracture skull, intracranial hemorrhages, coup and countercoup injuries), neck, chest, abdomen, limbs, genital organs, spinal cord and skeleton	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic or autopsy, DOAP	Written/ Viva voce/ OSCE/OSPE	
FM7.2	Describe and discuss injuries related to fall from height and vehicular injuries – Primary and Secondary impact, Secondary injuries, crush syndrome, railway spine	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic or autopsy, DOAP	Written/ Viva voce/ OSCE/OSPE	
Topic 8: Clinical forensic medicine - sexual offences		Number of competencies: (17)			Number of competencies that require certification : (NIL)		

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/ S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM8.1	Describe different types of sexual offences. Describe various sections of BNS regarding rape including definition of rape (Section 63 BNS), Punishment for Rape (Section 64-70 BNS) and recent amendments notified till date/ Protection of Children from Sexual Offences (POCSO) Act/ Section 183 of BNSS	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Video Demo.	Written/ Viva voce/ OSCE/OSPE	
FM8.2	Describe and discuss the examination of the survivor of an alleged case of rape, and the preparation of report, framing the opinion and preservation and dispatch of trace evidences in such cases	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, DOAP, Video Demo.	Written/ Viva voce/OSCE	
FM8.3	Describe and discuss examination of accused and survivor of sodomy, preparation of report, framing of opinion, preservation and dispatch of trace evidences in such cases	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, DOAP, Video Demo.	Written/ Viva voce/OSCE	
FM8.4	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 dispatch of trace evidences in such cases	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM8.5	Define and discuss infanticide, foeticide and stillbirth	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM8.6	Describe and discuss signs of intrauterine death, signs of live birth, viability of foetus, age determination of foetus, DOAP of ossification centres, Hydrostatic test, Sudden Infants Death syndrome and Munchausen's syndrome by proxy	K	KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy, DOAP	Written/Viva voce / OSCE	
FM8.7	Describe and discuss the sexual perversions fetishism, transvestism, voyeurism, sadism, necrophagia, masochism, exhibitionism, frotteurism, Necrophilia	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM8.8	Describe anatomy of male and female genitalia, hymen and its types . Discuss the medico-legal importance of hymen. Define virginity, defloration, legitimacy and its medico legal importance	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM8.9	Discuss the medico legal aspects of pregnancy and delivery, signs of pregnancy, precipitate labour, superfoetation, superfecundation and signs of recent and remote	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM9.2	Describe and discuss issues relating to torture, identification of injuries caused by torture and its sequelae, management of torture survivors	K	K/KH	N	SDL	Written/ Viva voce	
FM9.3	Describe and discuss guidelines and Protocols of National Human Rights Commission regarding torture	K	K/KH	N	SDL	Written/ Viva voce	
FM9.4	Should be able to demonstrate the professionalism while dealing with survivor of torture and human right violations, sexual assaults- psychological consultation, rehabilitation	A, C	K/KH/SH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
Topic 10: Medical jurisprudence (medical law and ethics) Number of competencies: (29) Number of competencies that require certification : (NIL)							
FM10.1	Describe Medical Ethics and explain its historical emergence	K	KH	Y	LGT, SGT/ Practical / Seminars	Written/ Viva voce	
FM10.2	Describe the Indian Medical Register	K	KH	Y	LGT, SGT/ Practical / Seminars	Written/ Viva voce	
FM10.3	Describe the functions and role of National Medical Commission and State Medical Councils	K	KH	Y	LGT, SGT/ Practical / Seminars	Written/ Viva voce	
FM10.4	Describe the Code of Medical Ethics 2002 conduct, Etiquette and Ethics in medical practice and unethical practices & the dichotomy	K	KH	Y	LGT, SGT/ Practical / Seminars	Written/ Viva voce	
FM10.5	Rights/privileges of a medical practitioner, penal erasure, infamous conduct, disciplinary Committee, disciplinary competencies, warning notice and penal erasure	K	KH	Y	LGT, SGT/ Practical / Seminars	Written/ Viva voce	
FM10.6	Describe the Laws in Relation to medical practice and the duties of a medical practitioner towards patients and society	K	K/KH	Y	LGT, SGT/ Practical / Seminars	Written/ Viva voce	
FM10.7	Describe and discuss the ethics related to HIV patients	K	K/KH	Y	LGT, SGT/ Practical / Seminars	Written/ Viva voce	
FM10.8	Describe the Consumer Protection Act-1986 (Medical Indemnity Insurance, Civil Litigations and Compensations)	K	KH	Y	LGT, SGT/ Practical / Seminars	Written/ Viva voce	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/ S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM10.9	Describe the medico - legal issues in relation to family violence, violation of human rights, NHRC and doctors	K	KH	N	SDL	Written/ Viva voce	
FM10.10	Describe communication between doctors, public and media	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.11	Describe and discuss euthanasia and Do not Resuscitate (DNR)	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.12	Discuss legal and ethical issues in relation to stem cell research	K	KH	N	SDL	Written/ Viva voce	
FM10.13	Describe social aspects of Medico-legal cases with respect to survivors of assault, rape, attempted suicide, homicide, domestic violence, dowry- related cases	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.14	Describe & discuss the challenges in managing medico-legal cases including development of skills in relationship management – Human behavior, communication skills, conflict resolution techniques	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.15	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	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.16	Describe and discuss Bioethics	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.17	Describe and discuss ethical Principles: Respect for autonomy, non-maleficence, beneficence & justice	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.18	Describe and discuss medical negligence including civil and criminal negligence, contributory negligence, corporate negligence, vicarious liability, Res Ipsa Loquitor, prevention of medical negligence and defenses in medical negligence litigations	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.19	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,	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
	mental illness and alcohol intoxication						
FM10.20	Describe therapeutic privilege, Malingering, therapeutic Misadventure, Professional Secrecy, Human Experimentation	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.21	Describe Products liability and Medical Indemnity Insurance	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.22	Explain Oath – Hippocrates, Charaka and Sushruta and procedure for administration of Oath.	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.23	Describe the modified Declaration of Geneva and its relevance	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.24	Enumerate rights, privileges and duties of a Registered Medical Practitioner. Discuss doctor- patient relationship: professional secrecy and privileged communication	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.25	Clinical research & Ethics Discuss human experimentation including clinical trials	K	KH	N	SDL	Written/ Viva voce	
FM10.26	Discuss the constitution and functions of ethical committees	K	KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.27	Describe and discuss Ethical Guidelines for Biomedical Research on Human Subjects & Animals	K	KH	N	SDL	Written/ Viva voce	
FM10.28	Demonstrate respect to laws relating to medical practice and Ethical code of conduct prescribed by National Medical Commission and rules and regulations prescribed by it from time to time	A and C	SH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM10.29	Demonstrate ability to conduct research in pursuance to guidelines or research ethics	A and C	KH/SH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
Topic 11: Forensic psychiatry		Number of competencies: (06)			Number of competencies that require certification : (NIL)		

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/ S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM11.1	Classify common mental illnesses including post-traumatic stress disorder (PTSD)	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM11.2	Define, classify and describe delusions, hallucinations, illusion, lucid interval and obsessions with exemplification	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM11.3	Describe Civil and criminal responsibilities of a mentally ill person	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM11.4	Differentiate between true mental illness from feigned mental illness	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM11.5	Describe & discuss Delirium tremors	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM11.6	Describe the Indian Mental Health Act, 1987 and recent amendments with special reference to admission, care and discharge of a mentally ill person	K	K/KH	N	SDL	Written/ Viva voce	
Topic 12: Forensic laboratory investigation, recent advances and trace evidences Number of competencies: (06) Number of competencies that require certification : (NIL)							
FM12.1	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, tooth pulp, vaginal smear, viscera, skull, specimen for histo-pathological examination, blood grouping, HLA Typing and DNA Fingerprinting. Describe Locard's Exchange Principle	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM12.2	Describe the methods of sample collection, preservation, labelling, dispatch, and interpretation of reports	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM12.3	Cyber Forensic in relation to Privacy of Medical Documents	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/ S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM12.4	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	A and C	KH/SH	Y	LGT, SGT/ Practicals / Seminars, DOAPs	Viva voce / OSPE	
FM12.5	Demonstrate the professionalism while preparing reports in medico legal situations, interpretation of findings and making inference/opinion, collection preservation and dispatch of biological or trace evidences	A and C	SH	Y	LGT, SGT/ Practicals / Seminars	OSPE/Viva voce	
FM12.6	Enumerate the indications and describe the principles and appropriate use for: - DNA profiling -Facial reconstruction - Polygraph (Lie Detector) - Narcoanalysis, - Brain Mapping, Digital autopsy, - Virtual Autopsy, Imaging technologies	K	K/KH	N	SDL	Written/ Viva voce	
Topic 13: Toxicology		Number of competencies: (21)			Number of competencies that require certification : (NIL)		
FM13.1	Describe the history of Toxicology	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM13.2	Define the terms Toxicology, Forensic Toxicology, Clinical Toxicology and poison.	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM13.3	Describe the various types of poisons, Toxicokinetics, and Toxicodynamics and diagnosis of poisoning in living and dead	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/viva voce	
FM13.4	Describe the Laws in relations to poisons including NDPS Act, Medico-legal aspects of poisons	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM13.5	Describe Medico-legal autopsy in cases of poisoning including preservation and dispatch of viscera for chemical analysis	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy, DOAP	Written/ Viva voce/OSPE	
FM13.6	Describe the general symptoms, principles of diagnosis and management of common poisons encountered in India	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, DOAP	Written/ Viva voce/OSCE	
FM13.7	Describe simple Bedside clinic tests to detect poison/drug in a patient's body fluids	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, DOAP	Written/ Viva voce/OSCE	
FM13.8	Describe basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, DOAP	Written/ Viva voce/OSCE	
FM13.9	Describe the procedure of intimation of suspicious cases or actual cases of foul play to the police, maintenance of records, preservation and dispatch of relevant samples for laboratory analysis.	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM13.10	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	K	K/KH	Y	LGT, SGT/ Practicals / Seminars	Written/ Viva voce	
FM13.11	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to: Caustics Inorganic – sulphuric, nitric, and hydrochloric acids; Organic- Carbolic Acid (phenol), Oxalic and acetylsalicylic acids	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, Autopsy, DOAP	Written/ Viva voce/OSCE	
FM13.12	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to Phosphorus, Iodine, Barium	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, Autopsy, DOAP	Written/ Viva voce/OSCE	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/ S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM13.13	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to Arsenic, lead, mercury, copper, iron.	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, Autopsy, DOAP	Written/ Viva voce/OSCE	
FM13.14	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to Ethanol, methanol, ethylene glycol Local Made Liquor and Hooch Tragedy	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, Autopsy, DOAP	Written/ Viva voce/OSCE	
FM13.15	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to Organophosphates, Carbamates, Organochlorines, Pyrethroids, Paraquat, Aluminium and Zinc phosphide	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, Autopsy, DOAP	Written/ Viva voce/OSCE	
FM13.16	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to Ammonia, carbon monoxide, hydrogen cyanide & derivatives, methyl isocyanate, tear (riot control) gases	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, Autopsy, DOAP	Written/ Viva voce/OSCE	
FM13.17	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to: i. Antipyretics – Paracetamol, Salicylates ii. Anti-Infectives (Common antibiotics – an overview) iii. Neuropsychotoxicology Barbiturates, benzodiazepines, phenytoin, lithium, haloperidol, neuroleptics, tricyclics	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, Autopsy, DOAP	Written/ Viva voce/OSCE	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/ S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM13.18	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to: iv. Narcotic Analgesics, Anaesthetics, and Muscle Relaxants v. Cardiovascular Toxicology Cardio toxic plants – oleander, Cerbera odollam, aconite, digitalis vi. Gastro- Intestinal and Endocrinal Drugs – Insulin	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Bed side clinic, Autopsy, DOAP	Written/ Viva voce/OSCE	
FM13.19	Describe features and management of Snake bite, scorpion sting, bee and wasp sting and spider bite	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy	Written/ Viva voce	
FM13.20	Describe features and management of abuse/poisoning of Tobacco, cannabis, amphetamines, cocaine, hallucinogens, designer drugs & solvent, Mushroom Poisoning, Food Poisoning	K	K/KH	Y	LGT, SGT/ Practicals / Seminars, Autopsy	Written/ Viva voce	
FM13.21	Describe toxic pollution of environment, its medico-legal aspects & toxic hazards of occupation and industry	K	K/KH	N	SDL	Written/ Viva voce	
Topic 14: Skills in forensic medicine & toxicology		Number of competencies: (20)			Number of competencies that require certification: (5)		
FM14.1	Examine and prepare Medico-legal report of an injured person with different etiologies in a simulated/ supervised environment	S	SH/P	Y	Bedside clinic (ward/ casualty), SGT/ Practicals / Seminars	Log book/ Skill station/Viva voce / OSCE	3
FM14.2	Demonstrate the correct technique of clinical examination in a suspected case of poisoning & prepare medico-legal report in a simulated/ supervised environment	S	SH	Y	Bedside clinic (ward/casualty), SGT/ Practicals / Seminars	Log book/ Skill station/Viva voce / OSCE	
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	S	SH	Y	Bedside clinic, SGT/ Practicals / Seminars, DOAP	Skill lab/ Viva voce	
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 environments	S	KH	Y	SGT/ Practicals / Seminars, Demonstration	Log book/ Skill station/Viva voce / OSCE	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/ S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
FM14.5	Examine and prepare Medical Certificate Of Cause Of Death (MCCD)in a simulated/ supervised environment	S	SH/P	Y	Bedside clinic (ward/ casualty), SGT/ Practicals / Seminars	Log book/ Skill station/Viva voce / OSCE	3
FM14.6	Conduct & prepare post-mortem examination report of varied etiologies (at least 15) in a simulated/ supervised environment	S	KH	Y	SGT/ Practicals / Seminars, Autopsy, DOAP	Log book/ Skill station/Viva voce / OSCE	3
FM14.7	Demonstrate the correct technique to perform and identify ABO &RH blood group of a person	S	SH	Y	SGT/ Practicals / Seminars, DOAP	Log book/Skill station/Viva voce	
FM14.8	Demonstrate examination of & present an opinion after examination of skeletal remains in a simulated/ supervised environment	S	SH	Y	SGT/ Practicals / Seminars, DOAP	Log book/Skill station/Viva voce	
FM14.9	Demonstrate ability to identify & prepare medico legal inference from specimens obtained from various types of injuries e.g. contusion, abrasion, laceration, firearm wounds, burns, head injury and fracture of bone	S	KH	Y	SGT/ Practicals / Seminars, DOAP	Log book/Skill station/Viva voce/ OSPE	
FM14.10	To identify & describe weapons of medico legal importance which are commonly used e.g. lathi, knife, kripa, axe, gada, gupta, 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)	S	KH	Y	SGT/ Practicals / Seminars, DOAP	Log book/Skill station/Viva voce/ OSPE	
FM14.11	Describe the contents and structure of bullet and cartridges used &to provide medico- legal interpretation from these	S	KH	Y	SGT/ Practicals / Seminars, DOAP	Log book/ Skill	
FM14.12	To estimate the age of foetus by post-mortem examination	S	KH	Y	SGT/ Practicals / Seminars, DOAP	Theory/ Clinical assessment/ Viva voce	
FM14.13	To examine & prepare report of an alleged accused in rape/unnatural sexual offence in a simulated/ supervised	S	KH	Y	SGT/ Practicals / Seminars, DOAP	Log book/ Skill station/Viva voce /	3

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
	environment					OSCE	
FM14.14	To examine & prepare medico-legal report of a survivor of sexual offence/unnatural sexual offence in a simulated/ supervised environment	S	KH	Y	SGT/ Practicals / Seminars, DOAP	Log book/ Skill station/Viva voce / OSCE	3
FM14.15	To examine & prepare medico-legal report of drunk person in a simulated/ supervised environment	S	KH	Y	SGT/ Practicals / Seminars, Bed side clinic, DOAP	Log book/ Skill station/Viva voce / OSCE	
FM14.16	To identify & draw medico-legal inference from common poisons e.g. dhatura, castor, cannabis, opium, aconite copper sulphate, pesticides compounds, marking nut, oleander, Nux vomica, abrus seeds, Snakes, capsicum, calotropis, lead compounds & tobacco.	S	KH	Y	SGT/ Practicals / Seminars, DOAP	Log book/ Viva voce	
FM14.17	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	S	KH	Y	SGT/ Practicals / Seminars, DOAP	Log book/ Skill station/Viva voce / OSCE	
FM14.18	To record and certify dying declaration in a simulated/ supervised environment	S	KH	Y	SGT/ Practicals / Seminars, Role Play, Bed side clinic DOAP	Log book/ Skill station/Viva voce /OSCE	
FM14.19	To collect, preserve, seal and dispatch exhibits for DNA-Fingerprinting using various formats of different laboratories.	S	KH	Y	LGT , SGT/ Practicals / Seminars,	Log book/ Skill station/Viva voce	
FM14.20	To give expert medical/ medico-legal evidence in Court of law	S	KH	Y	LGT, SGT/ Practicals / Seminars, DOAP, role play, Court Visits	Log book/ Viva voce/OSCE	

FORENSIC MEDICINE THEORY & PRACTICAL

BLUEPRINT FOR ASSESSMENT

THEORY BLUEPRINT		
Sl No.	Topic	Weightage
1	General information	7%
2	Forensic pathology	20%
3	Clinical forensic medicine	18%
4	Medical jurisprudence	10%
5	Forensic psychiatry	12%
6	Toxicology- General & chemical	16%
7	Toxicology- Pharmaceutical & Biotoxicology, sociomedical & environmental	12%
8	AETCOM	5%
	Total	100%

UNIVERSITY PRACTICAL PATTERN

The total 100-mark evaluation is split into a **80-mark Practical Exam** and a **20-mark Viva Voce**.

1. Breakdown of Marks (Total: 100 Marks)

The full score is distributed into three distinct assessment exercises and the oral viva:

Assessment Component	Number of Exercises / Stations	Marks Allotted	Total Section Marks
Long Exercises	2 Exercises	15 Marks each	15 x 2=30 Marks
Short Exercises	5 Exercises	6 Marks each	6 x 5=30 Marks

Spotters	10 Spotters	2 Marks each	10 x 2=20 Marks
Viva Voce	Oral Examination	-	5 x 4=20 Marks
TOTAL			100 Marks

2. Comprehensive Component Scheme

I. Long Exercises (30 Marks)

Students must perform and document **any two** of the following core clinical/radiological forensic competencies (15 marks each):

- **Examination of Skeletal Remains:** Determination of sex, age, and race from given bones.
- **Age Estimation (Physical & Dental):** Clinical examination of a living individual to provide an age opinion based on physical parameters and dentition.
- **Age Estimation (Radiological):** Analysis of X-rays to assess epiphyseal fusion milestones.
- **Drunkenness Case Examination:** Clinical assessment and formal certificate generation for an individual suspected of being under the influence of alcohol.

II. Short Exercises (30 Marks)

Students must address **all five** assigned legal medicine scenarios/certifications (6 marks each):

1. **Wound Certificate:** Drafting a formal medico-legal injury report specifying the nature of the weapon and the gravity of injuries.
2. **Foetal Examination:** Assessment of a foetus to determine gestational age and viability.
3. **Sexual Offence Examination:** Documenting protocols for examining an accused individual or a survivor of a sexual offence.
4. **Medical Certificates:** Formulating a Medical Certification of Cause of Death (MCCD), a Medical Leave Certificate, or a Physical Fitness Certificate.
5. **Opinion on Post-Mortem Certificate:** Reviewing a provided mock autopsy file to answer specific investigative questions or form an opinion.

III. Spotters (20 Marks)

Four distinct identification stations (2 marks each) where students identify items and answer immediate, brief follow-up questions from the examiners:

- **Weapons:** Classification of mechanical weapons (blunt, sharp-edged, firearms).
- **Wet Specimens:** Pathology jars displaying organ damage like bullet tracks, myocardial infarctions, or corrosive poison changes.
- **Toxicology:** Identifying poisonous **plants, seeds** (e.g., *Datura*, *Ricinus*), or chemical samples.
- **Photos/X-rays:** Identification of specific wounds or fracture patterns.

IV. Viva Voce (20 Marks)

The internal and external examiners spend roughly 10–15 minutes questioning students across core legal and medical competencies:

COMMUNITY MEDICINE (CODE: CM)

Number	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Teaching learning methods	Suggested Assessment methods	Number required to certify P
COMMUNITY MEDICINE (Topics:20 Competencies:136)							
Topic 1: Concept of Health and Disease Number of competencies:(10) Number of competencies that require certification :(NIL)							
CM1.1	Define and describe the concept of Public Health	K	KH	Y	LGT, SGT	Written/Viva-voce	
CM1.2	Define health; describe the concept of holistic health including concept of spiritual health and the relativeness & determinants of health	K	KH	Y	LGT, SGT	Written/Viva-voce	
CM1.3	Describe the characteristics of agent, host and environmental factors in health and disease and the multifactorial etiology of disease	K	KH	Y	LGT, SGT	Written/Viva-voce	
CM1.4	Describe and discuss the natural history of disease	K	KH	Y	LGT, SGT	Written/Vova voce	
CM1.5	Describe the application of interventions at various levels of prevention	K	KH	Y	LGT, SGT	Written/Vova voce	
CM1.6	Describe and discuss the concepts, the principles of Health promotion and Education, IEC and Behavioral change communication (BCC)	K	KH	Y	LGT, SGT	Written/viva-voce	
CM1.7	Enumerate and describe health indicators	K	KH	Y	LGT, SGT	Written/Vova voce	
CM1.8	Describe the Demographic profile of India and discuss its Impact on health	K	KH	Y	LGT, SGT	Written/Vova voce	
CM1.9	Demonstrate the role of effective Communication skills in health in a simulated environment	S	SH	Y	DOAP, FAP Clinical posting	Skill assessment /OSCE	
CM1.10	Demonstrate the Important aspects of the doctor patient relationship in a simulated environment	S	SH	Y	DOAP, FAP Clinical posting	Skill assessment /OSCE	
Topic 2: Relationship of social and behavioural to health and disease Number of competencies:(5) Number of competencies that require certification:(2)							
CM2.1	Describe the steps and perform clinico socio-cultural and demographicassessmentoftheindividual,familyand community	S	SH	Y	LGT,SGT, DOAP FAP Clinical posting	Written/Vova voce/ Skill assessment	5

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core Y/N	Suggested Teaching learning methods	Suggested Assessment methods	Number required to certify P
CM2.2	Describe the socio-cultural factors, family (types), its role in health and disease & demonstrate in a simulated environment the correct assessment of socio-economic status	S	SH	Y	LGT,SGT, DOAP FAP Clinical posting	Written/Vova voce/ Skill assessment /OSCE	5
CM2.3	Describe and demonstrate in a simulated environment the assessment of barriers to good health and health seeking behavior	S	SH	Y	LGT,SGT, DOAP FAP Clinical posting	Written/Vova voce/ Skill assessment /OSCE	
CM2.4	Describe social psychology, community behaviour and community relationship and their impact on health and disease	K	KH	Y	LGT,SGT,FAP Clinical posting	Written/Vova voce	
CM2.5	Describe poverty and social security measures and its relationship to health and disease	K	KH	Y	LGT,SGT,FAP Clinical posting	Written/Vova voce	
Topic 3: Environmental Health Problems Number of competencies: (8) Number of competencies that require recertification: (NIL)							
CM3.1	Describe the health hazards of air, water, noise, radiation and pollution	K	KH	Y	LGT,SGT FAP Clinical posting	Written/Vova voce	
CM3.2	Describe concepts of safe and wholesome water, sanitary sources of water, water purification processes, water quality standards, concepts of water conservation and rainwater harvesting	K	KH	Y	LGT,SGT, DOAP FAP Clinical posting	Written/Vova voce	
CM3.3	Describe the aetiology and basis of waterborne diseases /jaundice/hepatitis/diarrheal diseases	K	KH	Y	LGT,SGT, DOAP FAP Clinical posting	Written/Vova voce	
CM3.4	Describe the concept of solid waste, human excreta and sewage disposal	K	KH	Y	LGT,SGT	Written/Vova voce	
CM3.5	Describe the standards of housing and the effect of housing on health	K	KH	Y	LGT,SGT FAP Clinical posting	Written/Vova voce	
CM3.6	Describe the role of vectors in the causation of diseases. Also discuss National Vector Borne disease Control Program	K	KH	Y	LGT,SGT FAP Clinical posting	Written/Vova voce	

CM3.7	Identify and describe the identifying features and life cycles of vectorsofPublicHealthImportanceandtheircontrol measures	S	SH	Y	LGT,SGT, DOAPFAP Clinical posting	Written/Vova voce/ Skill assessment/OSCE	
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core Y/N	Suggested Teaching learning methods	Suggested Assessment methods	Number required to certify P
CM3.8	Describethemodeofaction,applicationcycleofcommonly used insecticides and rodenticides	K	KH	Y	LGT,SGT FAP Clinical posting	Written/Vova voce	
Topic 4: Principlesofhealthpromotionandeducation Numberof competencies:(4) Numberofcompetenciesthatrequirecertification:(1)							
CM4.1	Describevarious methodsofhealth educationwith theiradvantages and limitations	K	KH	Y	LGT,SGT FAP Clinical posting	Written/Vova voce	
CM4.2	Describethe methodsoforganizing healthpromotionand education and counselling activities at individual family and community settings	K	KH	Y	LGT,SGT FAP Clinical posting	Written/Vova voce	
CM4.3	Demonstrateand describethe stepsin evaluationof health promotion and education program	S	SH	Y	SGT, DOAPFAP Clinical posting	Written/Vova voce/ Skill assessment /OSCE	
CM 4.4	Conduct a health education session for community awareness in a simulated environment/FAP/clinical posting	S	SH	Y	SGT, DOAPFAP Clinical posting	Written/Vova voce/ Skill assessment /OSCE	1
Topic 5: Nutrition Numberofcompetencies:(22) Numberofcompetenciesthatrequire certification:(5)							
CM5.1	Describe the common sources of various nutrients and special nutritionalrequirementsaccordingtoage,sex,activity,physiological conditions	K	KH	Y	LGT,SGT FAP Clinical posting	Written/Vova voce	
CM5.2	Describe and demonstrate the correct method of performing a nutritional assessmentof individuals,families andthecommunity by using the appropriate method	S	SH	Y	DOAP, FAP Clinical posting	Skill assessment /OSCE	
CM5.3	Define and describe common nutrition related health disorders (includingmacro-PEM,Micro-iron,Zn,iodine,Vit.A),their control and management	K	KH	Y	LGT,SGT FAP Clinical posting	Written/Vova voce	
CM5.4	Plan andrecommenda suitable diet forthe individualsand families based on local availability of foods and economic status, etc in a simulated environment	S	SH	Y	DOAP, FAP Clinical posting	Skill assessment /OSCE	

Number	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Teaching learning methods	Suggested Assessment methods	Number required to certify P
CM5.5	Describe the methods of nutritional surveillance principles nutritional education and rehabilitation in the context of socio-cultural factors.	K	KH	Y	LGT, SGT FAP Clinical posting	Written/Vova voce	
CM5.6	Enumerate and discuss the National Nutrition Policy, important national nutritional Programs including the Integrated Child Development Services Scheme (ICDS) etc	K	KH	Y	LGT, SGT FAP Clinical posting	Written/Vova voce	
CM5.7	Describe food hygiene	K	KH	Y	LGT, SGT FAP Clinical posting	Written/Vova voce FAP Clinical posting	
CM5.8	Describe and discuss the importance and methods of food fortification and effects of additives and adulteration	K	KH	Y	LGT, SGT FAP Clinical posting	Written/Vova voce	
CM5.9	Perform nutritional assessment of individual, family and community using appropriate method and plan a diet for health promotion based on the assessment	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	5
CM 5.10	Recommend a dietary plan for a person with DM/ HTN/ Obesity in a simulated environment/FAP/Clinical posting	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	5
CM5.11	Plan a diet for an adult which meets the protein (macro nutrients) requirements as per latest RDA-NIN guidelines for vegetarian/ovo-vegetarian/non-vegetarian	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	5
CM5.12	Demonstrate different types of breastfeeding holds, latching, manual expression of breast milk using a baby model and breast model.	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	5
CM 5.13	Counsel a mother about complementary feeding for different age groups of the child covering the 8 dietary diversity food groups, quantity, frequency, consistency of the food.	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	5
CM 5.14	Demonstrate an awareness of their own personal health and nutrition	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	
CM 5.15	Demonstrate knowledge of the role of nutrition in health promotion and disease prevention	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	
CM 5.16	Have knowledge of breast feeding and complementary feeding practices	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	

Number	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Teaching learning methods	Suggested Assessment methods	Number required to certify P
CM 5.17	Ability to counsel mothers on breast feeding with focus on attachment to breast and correct position of the newborn	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	
CM 5.18	Ability to counsel mothers on complementary feeding using National guidelines while being sensitive of cultural and socioeconomic influences	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	
CM 5.19	Assess the nutritional content of processed foods learning to understand labels, and empower patients to make informed nutritional decisions.	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	
CM 5.20	Counsel for diet modification for a diabetic/ hypertensive/obese individual	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	
CM 5.21	Plan and conduct a health education session on nutrition in NCD clinic / in community	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	
CM 5.22	Counsel mother on breast feeding and complementary feeding	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	
Topic 6: Basic statistics and its applications Number of competencies:(06) Number of competencies that require certification:(1)							
CM6.1	Formulate research question for a study	K	KH	Y	SGT, LGT, DOAP	Written/Vova voce/ Skill assessment	
CM6.2	Describe and discuss the principles and demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data	S	SH	Y	SGT, LGT, DOAP	Written/Vova voce/ Skill assessment/OSCE	
CM6.3	Describe, discuss and demonstrate the application of elementary statistical methods including test of significance in various study designs	S	SH	Y	SGT, LGT, DOAP	Written/Vova voce/ Skill assessment/OSCE	
CM6.4	Enumerate, discuss and demonstrate Common sampling techniques, simple statistical methods, frequency distribution, measures of central tendency and dispersion	S	SH	Y	SGT, LGT, DOAP	Written/Vova voce/ Skill assessment/OSCE	
CM 6.5	Able to understand use of statistical software for the data analysis	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	
CM 6.6	Perform descriptive statistics of a given data-set and interpret	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	5

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core Y/N	Suggested Teaching learning methods	Suggested Assessment methods	Number required to certify P
Topic 7: Epidemiology Number of competencies: (11) Number of competencies that require certification: (1)							
CM7.1	Define Epidemiology and describe and enumerate the principles, concepts and uses	K	KH	Y	SGT, LGT	Written/Viva voce	
CM7.2	Enumerate, describe and discuss the modes of transmission and measures for prevention and control of communicable and non-communicable diseases	K	KH	Y	SGT, LGT	Written/Viva voce	
CM7.3	Enumerate, describe and discuss the sources of epidemiological data	K	KH	Y	SGT, LGT	Written/Viva voce	
CM7.4	Define, calculate and interpret morbidity and mortality indicators based on given set of data	S	SH	Y	SGT, DOAP	Written/Skill assessment, OSCE	5
CM7.5	Enumerate, define, describe and discuss epidemiological study designs	K	KH	Y	SGT, LGT	Written/Viva voce	
CM7.6	Enumerate and evaluate the need of screening tests	S	SH	Y	SGT, DOAP	Written/Skill assessment	
CM7.7	Describe and demonstrate the steps in the investigation of an epidemic of communicable disease and describe the principles of control measures	S	SH	Y	SGT, DOAP	Written/Skill assessment /OSCE	
CM7.8	Describe the principles of association, causation and biases in epidemiological studies	K	KH	Y	SGT, LGT	Written/Viva voce	
CM7.9	Describe and demonstrate the application of computers in epidemiology	S	KH	Y	SGT, DOAP	Written	
CM 7.10	Able to demonstrate development of research proposal	S	SH	Y	LGT, SGT	Written/Viva voce/OSCE	
CM 7.11	Able to demonstrate the skills for critically appraise the research articles or research data	S	SH	Y	LGT, SGT	Written/Viva voce/OSCE	
Topic 8: Epidemiology of communicable and non-communicable diseases Number of competencies: (7) Number of competencies that require certification: (NIL)							
CM8.1	Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for communicable diseases	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Viva voce	

Number	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Teaching learning methods	Suggested Assessment methods	Number required to certify P
CM8.2	Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for Non-Communicable diseases (diabetes, Hypertension, Stroke, obesity and cancer etc.)	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Viva voce	
CM8.3	Enumerate and describe disease specific National Health Programs including their prevention and treatment of a case	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Viva voce	
CM8.4	Describe the principles and enumerate the measures to control a disease epidemic	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Viva voce	
CM8.5	Describe and discuss the principles of planning, Implementing and evaluating control measures for disease at community level bearing in mind the public health importance of the disease	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Viva voce	
CM8.6	Educate and train health workers in disease surveillance, control & treatment and health education	S	SH	Y	DOAP FAP Clinical posting	Skill assessment /OSCE	
CM8.7	Describe the principles of management of information systems	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Viva voce	
Topic 9: Demography and vital statistics Number of competencies: (07) Number of competencies that require certification: (NIL)							
CM9.1	Define and describe the principles of Demography, Demographic cycle, Vital statistics	K	KH	Y	SGT, LGT	Written/Viva voce	
CM9.2	Define, calculate and interpret demographic indices including birth rate, death rate, fertility rates	S	SH	Y	LGT, SGT, DOAP	Skill assessment /OSCE	
CM9.3	Enumerate and describe the causes of declining sex ratio and its social and health Implications	K	KH	Y	SGT, LGT	Written/Viva voce	
CM9.4	Enumerate and describe the causes and consequences of population explosion and population dynamics of India.	K	KH	Y	SGT, LGT	Written/Viva voce	
CM9.5	Describe the methods of population control	K	KH	Y	SGT, LGT	Written/Viva voce	

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core Y/N	Suggested Teaching learning methods	Suggested Assessment methods	Number required to certify P
CM9.6	Describe the National Population Policy	K	KH	Y	SGT, LGT	Written/Vova voce	
CM9.7	Enumerate the sources of vital statistics including census, SRS, NFHS, NSSO etc	K	KH	Y	SGT, LGT	Written/Vova voce	
Topic 10: Reproductive maternal and child health Number of competencies:(10) Number of competencies that require certification:(NIL)							
CM10.1	Describe the current status of Reproductive, maternal, newborn and Child Health	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Vova voce	
CM10.2	Enumerate and describe the methods of screening high-risk groups and common health problems	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Vova voce	
CM10.3	Describe local customs and practices during pregnancy, childbirth, lactation and child feeding practices	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Vova voce	
CM10.4	Describe the reproductive, maternal, newborn & child health (RMCH); child survival and safe motherhood interventions	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Vova voce	
CM10.5	Describe Universal Immunization Program; Integrated Management of Neonatal and Childhood Illness (GMNCI) and other existing Programs.	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Vova voce	
CM10.6	Enumerate and describe various family planning methods, their advantages and shortcomings	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Vova voce	
CM10.7	Enumerate and describe the basis and principles of the Family Welfare Program including the organization, technical and operational aspects	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Vova voce	
CM10.8	Describe the physiology, clinical management and principles of adolescent health including ARSH	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Vova voce FAP Clinical posting	
CM10.9	Describe and discuss gender issues and women empowerment	K	KH	Y	SGT, LGT FAP Clinical posting	Written/Vova voce	
CM 10.10	Able to manage the health care services for reproductive and child care services under supervision	S	SH	Y	LGT, SGT	Written/Vova voce/OSCE	
Topic 11: Occupational Health Number of competencies:(06) Number of competencies that require certification:(NIL)							
CM11.1	Enumerate and describe the presenting features of patients with occupational illness including agriculture	K	KH	Y	SGT, LGT	Written/Vova voce	

Number	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Teaching learning methods	Suggested Assessment methods	Number required to certify P
CM11.2	Describe the role, benefits and functioning of the employee's state insurance scheme	K	KH	Y	SGT, LGT	Written/Viva voce	
CM11.3	Enumerate and describe specific occupational health hazards, their risk factors and preventive measures	K	KH	Y	SGT, LGT	Written/Viva voce	
CM11.4	Describe the principles of ergonomics in health preservation	K	KH	Y	SGT, LGT	Written/Viva voce	
CM11.5	Describe occupational disorders of health professionals and their prevention & management	K	KH	Y	SGT, LGT	Written/Viva voce	
CM 11.6	Able to manage the occupational health services at factory or industry level in a simulated environment	S	SH	Y	LGT, SGT	Written/Viva voce/OSCE	
Topic 12: Geriatric services Number of competencies:(05) Number of competencies that require certification:(NIL)							
CM12.1	Define and describe the concept of Geriatric services	K	KH	Y	LGT, SGT FAP Clinical posting	Written/Viva voce	
CM12.2	Describe health problems of aged population	K	KH	Y	LGT, SGT FAP Clinical posting	Written/Viva voce	
CM12.3	Describe the prevention of health problems of aged population	K	KH	Y	LGT, SGT FAP Clinical posting	Written/Viva voce	
CM12.4	Describe National program for elderly	K	KH	Y	LGT, SGT	Written/Viva voce	
CM 12.5	Able to identify the health needs to elderly individuals at the earliest	S	SH	Y	LGT, SGT FAP Clinical posting	Written/Viva voce/OSCE	
Topic 13: Disaster Management Number of competencies:(05) Number of competencies that require certification:(NIL)							
CM13.1	Define and describe the concept of Disaster management	K	KH	Y	LGT, SGT	Written/Viva voce	
CM13.2	Describe disaster management cycle	K	KH	Y	LGT, SGT	Written/Viva voce	
CM13.3	Describe man-made disasters in the world and in India	K	KH	Y	LGT, SGT	Written/Viva voce	
CM13.4	Describe the details of the National Disaster management Authority	K	KH	Y	LGT, SGT	Written/Viva voce	
CM 13.5	Able to understand the management of handling a disaster in a simulated environment	S	SH	Y	LGT, SGT	Written/Viva voce/OSCE	

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core Y/N	Suggested Teaching learning methods	Suggested Assessment methods	Number required to certify P
Topic 14: Hospital waste management Number of competencies:(04) Number of competencies that require certification:(NIL)							
CM14.1	Define and classify hospital waste	K	KH	Y	LGT,SGT, visit to hospital	Written/Viva voce	
CM14.2	Describe various methods of treatment of hospital waste	K	KH	Y	LGT,SGT, visit to hospital	Written/Viva voce	
CM14.3	Describe laws related to hospital waste management	K	KH	Y	LGT, SGT	Written/Viva voce	
CM 14.4	Able to segregate the various hospital waste	S	SH	Y	LGT, SGT	Written/Viva voce/OSCE	
Topic 15: Mental Health Number of competencies:(04) Number of competencies that require certification:(NIL)							
CM15.1	Define and describe the concept of mental Health	K	KH	Y	LGT,SGT FAP Clinical posting	Written/Viva voce	
CM15.2	Describe warning signals of mental health disorder	K	KH	Y	LGT,SGT FAP Clinical posting	Written/Viva voce	
CM15.3	Describe National Mental Health program	K	KH	Y	LGT,SGT FAP Clinical posting	Written/Viva voce	
CM 15.4	Able to recognise the mental issues among individuals, families and communities at the earlier stages	S	SH	Y	LGT, SGT FAP Clinical posting	Written/Viva voce/OSCE	
Topic 16: Health planning and management Number of competencies:(05) Number of competencies that require certification:(NIL)							
CM16.1	Define and describe the concept of Health planning	K	KH	Y	LGT,SGT	Written/Viva voce	
CM16.2	Describe planning cycle	K	KH	Y	LGT,SGT	Written/Viva voce	
CM16.3	Describe Health management techniques	K	KH	Y	LGT,SGT	Written/Viva voce	
CM16.4	Describe health planning in India and National policies related to health and health planning	K	KH	Y	LGT, SGT	Written/Viva voce	
CM 16.5	Demonstrate understanding of concepts of Health planning in India, various health care economics analysis	S	SH	Y	LGT, SGT	Written/Viva voce/OSCE	
Topic 17: Healthcare of the community Number of competencies:(06) Number of competencies that require certification:(NIL)							
CM17.1	Define and describe the concept of health care to community	K	KH	Y	LGT,SGT	Written/Viva voce	
CM17.2	Describe community diagnosis	K	KH	Y	LGT,SGT	Written/Viva voce	

Number	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Teaching learning methods	Suggested Assessment methods	Number required to certify P
CM17.3	Describe primary healthcare, its components and principles	K	KH	Y	LGT, SGT	Written/Viva voce	
CM17.4	Describe National policies related to health and health planning and millennium development goals	K	KH	Y	LGT, SGT	Written/Viva voce	
CM17.5	Describe healthcare delivery in India	K	KH	Y	LGT, SGT	Written/Viva voce	
CM 17.6	Demonstrate understanding of health system functioning in India	S	SH	Y	LGT, SGT, FAP Clinical posting	Written/Viva voce/OSCE	
Topic 18: International Health Number of competencies:(3) Number of competencies that require certification (NIL)							
CM18.1	Define and describe the concept of International health	K	KH	Y	LGT, SGT	Written/Viva voce	
CM18.2	Describe roles of various international health agencies	K	KH	Y	LGT, SGT	Written/Viva voce	
CM 18.3	Demonstrate understanding role of various international and national agencies in health & disease with prevention of emergence and re-emergence of diseases and prevention of pandemic and handling the pandemic	S	SH	Y	LGT, SGT	Written/Viva voce/OSCE	
Topic 19: Essential Medicine Number of competencies:(04) Number of competencies that require certification:(NIL)							
CM19.1	Define and describe the concept of Essential Medicine List (EML)	K	KH	Y	LGT, SGT	Written/Viva voce	
CM19.2	Describe roles of essential medicine in primary healthcare	K	KH	Y	LGT, SGT	Written/Viva voce	
CM19.3	Describe counterfeit medicine and its prevention	K	KH	Y	LGT, SGT	Written/Viva voce	
CM19.4	Demonstrate understanding of mechanism of identifying and calculation of requirements of various medicines and essential medicine at primary health care	S	SH	Y	LGT, SGT FAP Clinical posting	Written/Viva voce/OSCE	
Topic 20: Recent advances in Community Medicine Number of competencies:(04) Number of competencies that require certification:(NIL)							
CM20.1	List Important public health events of last five years	K	KH	Y	LGT, SGT	Written/Viva voce	
CM20.2	Describe various issues during outbreaks and their prevention	K	KH	Y	LGT, SGT	Written/Viva voce	
CM 20.3	Describe any event important to Health of the Community	K	KH	Y	LGT, SGT	Written/Viva voce	
CM 20.4	Demonstrate awareness about laws pertaining to practice of community medicine	K	KH	Y	LGT, SGT	Written/Viva voce	

COMMUNITY MEDICINE THEORY & PRACTICAL ASSESSMENT

BLUEPRINT

Paper I: Foundations of Community Medicine & Research	Marks
Concept of Health and Disease	10
Medical Sociology & Behavioral Sciences, Health Communication	5
Environment & Entomology	15
Nutrition & Health (including Genetics) and related National	15
Occupational Health & Hospital Waste Management	15
Basic Epidemiology & Screening	30
Biostatistics & Health Information	5
AETCOM Module 3.2	5

Paper II: Applied Community Medicine & Clinical Epidemiology	Marks
Epidemiology of Communicable Diseases and related National Programmes	20
Epidemiology of Non-Communicable Diseases (including Mental Health) and related National Programmes	20

Maternal and Child Health (MCH) and geriatrics and related National Programmes		20
Demography & Family Planning		10
Health Planning & Management, Health care of the community, Health care delivery system, Disaster		10
National Health Programmes (NHP)		10
Tribal Health, Development (SDGs), Essential and counterfeit medicines		5
AETCOM Module 3.5		5
Practical Component	Description	Marks
Clinico-Social Case	One comprehensive long case presentation preferably in the field. If not feasible, hospital case may be presented.	25
Statistical Exercise	Morbidity/mortality indicators, test of statistical significance, sample size estimation, data analysis, graphical representation of data and data interpretation	10
Epidemiology Exercise	Outbreak investigation, epidemiological study designs, or screening data analysis	10

Spotters (5)	specimens, chemicals, drugs, models, vaccines, insects, or contraceptives (2 marks each)	10
Diet Prescription	Prescription of balanced/ therapeutic diet	5
Research Project	Discussion on research project	5
OSPE, Skills (OSCE)	Assessment of skills (e.g., Vital statistics, demography, Water testing, clinical skills, communication skills, etc.)	10
Family Health Study	Assessment of and discussion on Family records of families assigned under Family Adoption Program	5
Viva Voce	All topics (divided amongst examiners)	20
Total Marks		100

OPHTHALMOLOGY(CODE:OP)

Number	COMPETENCY The student should be able to	Predominant 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
OPHTHALMOLOGY(Topics:10, Competencies: 60)							
Topic 1: Visual Acuity Assessment		Number of Competencies: (05) Number of competencies that require certification : (NIL)					
OP1.1	Describe the physiology of vision, optics of eye and anatomy of visual pathway.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP1.2	Define, classify and describe the types and methods of correcting refractive errors.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP1.3	Demonstrate the steps in performing the visual acuity assessment for distance vision, near vision, colour vision, the pinhole test and the menace and blink reflexes	S	SH	Y	DOAP, LGT	Skill assessment / Logbook	
OP1.4	Enumerate the indications and describe the principles of refractive surgery	K	KH	Y	LGT,SGT	Written/Viva voce	
OP1.5	Define Amblyopia, enumerate the types of Amblyopia and describe the prevention and treatment of refractive Amblyopia.	K	KH	Y	LGT,SGT	Written/Viva voce	
Topic 2: Lids and Adnexa, Orbit		Number of Competencies: (08) Number of competencies that require certification: (NIL)					
OP2.1	Describe and discuss the aetiology and clinical features, investigations and treatment of Hordeolum externum, Hordeolum internum, Ectropion, Entropion, Lagophthalmos, Blepharitis, Preseptal cellulitis.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP2.2	Demonstrate under supervision, the clinical procedure performed- Bell's phenomenon, Ptosis evaluation, Massage technique in Congenital Dacryocystitis, Epilation.	S	SH	Y	DOAP	Skill assessment	
OP2.3	Describe the aetiology, clinical presentation, complications and management of Thyroid eye disease	K	KH	Y	DOAP, LGT	Skill assessment	
OP2.4	Describe the aetiology, clinical presentation. Discuss the complications and management of orbital cellulitis	K	KH	Y	LGT,SGT	Written/Viva voce	
OP2.5	Describe the clinical features on ocular examination and management of a patient with cavernous sinus thrombosis	K	KH	Y	LGT,SGT	Written/Viva voce	

OP2.6	Enumerate the causes and describe the differentiating features, and clinical features and management of proptosis	K	KH	Y	LGT,SGT	Written/Viva voce	
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number Required to certify P
OP2.7	Classification and clinical presentation of various types of orbital tumours	K	KH	Y	LGT,SGT	Written/Viva voce	
OP2.8	Describe the investigations, management, indications for referral of Orbital tumours.	K	KH	Y	LGT,SGT	Written/Viva voce	
Topic 3: Conjunctiva Number of Competencies (07) Number of competencies that require certification: (NIL)							
OP3.1	Demonstrate history taking in a patient with ‘Red eye’, Enumerate the causes for red eye.	S	SH	Y	DOAP	SkillAssessment	
OP3.2	Describe the etiopathogenesis, clinical features and treatment of acute bacterial and viral conjunctivitis.	K	KH	Y	LGT, SGT	SkillAssessment	
OP3.3	Enumerate the causes for chronic conjunctivitis. Describe the aetiology, pathophysiology, ocular features, differential diagnosis, complicationsand management of trachoma.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP3.4	Enumerate the causes for allergic conjunctivitis. Describe the aetiology pathophysiology, ocular features, complications and management of vernal catarrh.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP3.5	Describe the aetiology, pathophysiology, ocular features, differential diagnosis, complicationsand management of pterygium	K	KH	Y	LGT,SGT	Written/Viva voce	
OP3.6	Demonstrate correct technique of removal of foreign body from the eye in a simulated environment	S	SH	y	DOAP Session	Skill assessment	
OP3.7	Demonstrate under supervision the technique of instillation of eye drops and counselling of patients you put on topical ocular medications	S	SH	Y	DOAP	Skill assessment	
Topic 4: Corneas Number of Competencies: (10) Number of competencies that require certification: (NIL)							
OP4.1	Describe the applied anatomy and physiology of cornea and the factors maintaining corneal transparency	K	KH	Y	LGT,SGT	Written/Viva voce	
OP4.2	Enumerate various congenital anomalies and inflammations of cornea.	K	KH	Y	LGT,SGT	Written/Viva voce	

OP4.3	Enumerate the differential diagnosis of corneal ulcer(infective Keratitis) and describe the aetiopathogenesis, clinical features and management of each type of infective keratitis.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP4.4	Identify corneal opacity and different grades of corneal opacity. Enumerate various management modalities of corneal opacity.	K	KH	Y	LGT,SGT	Written/Viva voce	
Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number Required to certify P
OP4.5	Describe tear film. Enumerate the causes of dry eyes and describe the clinical features and management of dry eyes	K	KH	Y	LGT,SGT	Written/Viva voce	
OP4.6	Define blindness. Enumerate the causes of corneal blindness	K	KH	Y	LGT,SGT	Written/Viva voce	
OP4.7	Enumeratethetypes and the indications of Keratoplasty.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP4.8	Describe the importance of eye donation and eye banking and enumerate the various protocols involved in eye donation and eye banking.	S	SH	Y	DOAP	Skillassessment	
OP4.9	Identify corneal foreign body and demonstrate techniques of removal of corneal foreign body in simulated environment.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP4.10	Counselpatientsandfamily in a simulated environment about eye donation and teach them how to preserve the eye in the deceased till enucleation is done.	A/C	SH	Y	DOAP	Skillassessment	
Topic 5: Sclera Number of competencies: (02) Number of competencies that require certification : (NIL)							
OP5.1	Describe the etiopathogenesis, classification, clinical features, complications and management of episcleritis.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP5.2	Enumerate the systemic conditions associated with episcleritis and scleritis, indications for their referral.	K	KH	Y	LGT,SGT	Written/Viva voce	
Topic 6: Iris and Anterior chamber Number of Competencies (4) Number of competencies that require certification: (NIL)							
OP6.1	Define Uveitis. Describe the anatomical classification of Uveitis. Describe the clinical features of Iridocyclitis. Distinguish granulomatous iridocyclitis from non-granulomatousiridocyclitis.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP6.2	Describe the complication of iridocyclitis, investigations and treatment of iridocyclitis.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP6.3	Distinguish Hyphema from Hypopyon clinically and enumerate their causes.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP6.4	Enumerate systemic conditions associated with Uveitis. Counsel the patients with uveitis in a simulated environment	K, A/C	KH/SH	Y	LGT,SGT, DOAP	Written/Viva voce	

OP9.1	Demonstrate the technique of direct and indirect ophthalmoscopy. Describe the fundoscopic features of normal retina.	S	SH	Y	LGT,SGT,DOAP	Written/Viva voce, Skill assessment	
OP9.2	Describe the etiopathogenesis, clinical features and management of Retinopathy of prematurity, retinal detachment, Eales disease, central serous retinopathy, cystoid, macular edema, age related macular degeneration, retinitis pigmentosa.	K	KH	Y	LGT,SGT	Written/Viva voce	
Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number Required to certify P
OP9.3	Discuss the etiopathogenesis, clinical features and management of vascular occlusions of retina.	K	KH	Y	LGT,SGT	Written/ Viva Voce	
OP9.4	Discuss the etiopathogenesis, clinical features and management of retinopathy of prematurity, Ealesdisease , retinal detachment, central serous retinopathy, cystoid macular edema, age related macular degeneration, retinitis pigmentosa.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP9.5	Describeanddiscussthecorrelativeanatomy,aetiology,clinical manifestations, diagnostic tests, imaging and treatment of diseases of the optic nerve and visual pathway	K	KH	Y	LGT,SGT	Written/Viva voce	
Topic 10:Miscellaneous NumberofCompetencies(07) Numberofcompetenciesthatrequirecertification:(01)							
OP10.1	Demonstratethecorrecttechniquetoexamineextraocular movements (Uniocular& Binocular)	S	P	Y	DOAP	SkillAssessment	5
OP10.2	Classify,enumeratethetypes,methodsofdiagnosisandindications for referral in a patient with heterotropia/ strabismus	K	KH	Y	LGT,SGT	Written/Vivavoce/ skill assessment	
OP10.3	Describethetheroleofrefractiveerrorcorrectioninapatientwith headache and enumerate the indications for referral	K	KH	Y	LGT,SGT	Written/Viva voce	
OP10.4	Describe the classifications, causes, ocular manifestations and management of vitamin A deficiency. Indications for referral.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP10.5	Enumerate the indications for enucleation, evisceration and exenteration.	K	KH	Y	LGT,SGT	Written/Viva voce	

OP10.6	Classify ocular injuries, describe their primary management. Indications for referral.	K	KH	Y	LGT,SGT	Written/Viva voce	
OP10.7	Enumerate the causes of Blindness and Vision impairment. Discuss National Program for Control of Blindness (NPCB, including vision 2020)	K	KH	Y	LGT,SGT	Written/Viva voce	

OPHTHALMOLOGY THEORY ASSESSMENT BLUEPRINT

1. Visual acuity assessment (1.1 -1.5) & Conjunctiva (3.3 to 3.7)	- 10%
2. Lids & Adnexa Orbit (2.1,2.4-2.8)	- 10%
3. Cornea & Sclera (4.1-4.7, 4.9,5.1,5.2)	- 10%
4. Iris & Anterior chamber (6.1-6.5, 6.7-6.9)	- 20%
5. Lens (7.1,7.2,7.4)	- 20%
6. Retina & Optic nerve (8.1-8.5)	- 20%
7. Miscellaneous (9.2-9.5)	- 5%
8. AETCOM 3.1	- 5%
TOTAL	- 100%

OTORHINOLARYNGOLOGY (ENT) (CODE: EN)

(Topics:4, Competencies: 63)

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/ S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number Required to certify P
Topic 1: Anatomy and Physiology of ear, nose, throat, head & neck Number of competencies:(02) Number of competencies that require certification:(Nil)							
EN1.1	Describe the Anatomy & physiology of ear, nose, throat, head & neck	K	KH	Y	LGT, SGT.	Written/ Viva voce	
EN1.2	Describe the pathophysiology of common diseases in ENT like Chronic Otitis Media,,Otosclerosis, Adeno tonsillitis ,Nasal polyposis .	K	KH	Y	LGT, SGT.	Written/ Viva voce	
Topic 2: Clinical Skills Number of competencies: (12) Number of competencies that require certification:(5)							
EN2.1	Elicit document and present an appropriate history in a patient presenting with an ENT complaint	K/S/A/C	SH	Y	LGT, SGT, Demonstration	Skill assessment	
EN2.2	Demonstrate the correct use of conventional methods including head lamp in the examination of ear, nose and throat, the correct technique of examination of the nose & paranasal sinuses including the use of nasal speculum, examination of the throat including the use of a tongue depressor, examination of neck including elicitation of laryngeal crepitus	S	SH	Y	DOAP	Skill assessment/ OSCE	3
EN2.3	Demonstrate the correct technique of examination of the ear including Otoscopy and demonstrate the correct technique of performance and interpretation of tuning fork tests .	K/S/A	SH	Y	DOAP, Bedside clinic	Skill assessment/ OSCE	3
EN 2.4	Describe the correct technique to perform and interpret pure tone audiogram & impedance audiogram	K/S	SH	Y	Clinical demonstration.	Skill assessment	3
EN 2.5	Demonstrate the correct technique of otoscopy , to hold visualize and assess the mobility of the tympanic membrane , interpret and diagrammatically represent the findings.	K/S/A	SH	Y	Clinical, Demonstration	Written/ Viva voce/ Skill assessment	3
EN 2.6	Choose correctly and interpret radiological, microbiological & histological investigations relevant to the ENT disorders	K/S	SH	Y	LGT, SGT, Demonstration.	Written/ Viva voce/ Skill assessment	

EN 2.7	Identify and describe the use of common instruments used in ENT surgery. Nose: FESS, Septoplasty, Nasal Bone Reduction Ear Tympanoplasty, mastoidectomy, Myringotomy Throat: Adenotonsillectomy, Foreign Body Removal from Airway and Food passage, Tracheostomy	K	SH	Y	Demonstration, Bedside clinic .	Skill assessment	
Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number Required to certify P
EN 2.8	Enumerate suspect high-risk patients and risk factors associated with and identify by clinical examination malignant & pre- malignant Ent diseases	K/S	SH	Y	LGT, SGT, Demonstration	Written/ Viva voce/ Skill assessment	
EN 2.9	Counsel and administer informed consent to patients and their families in a simulated environment for Ear: Tympanoplasty, mastoidectomy, Myringotomy Nose: FESS, Septoplasty, Nasal Bone Reduction Throat: Adenotonsillectomy, Foreign Body Removal from Airway and Food passage, Tracheostomy.	S/A/C	SH	Y	DOAP, Bedside clinic	Skill assessment	
EN 2.10	Identify, resuscitate and manage ENT emergencies in a simulated environment (including tracheostomy, anterior nasal packing, removal of foreign bodies in ear, nose, throat, upper respiratory tract and food passages).	K/S/A	SH	Y	DOAP, Bedside clinic	Skill assessment	3
EN 2.11	Demonstrate the correct technique to instill topical medications into the ear, nose and throat in a simulated environment.	K/S	SH	Y	DOAP, Bedside clinic	Skill assessment.	
EN 2.12	Describe the national programs for prevention of deafness, cancer, noise & environmental pollution and participate actively in deafness week and world hearing day	K	KH	Y	LGT, SGT	Written/ Viva voce	
Topic 3: Diagnostic and Therapeutic competencies in ENT Number of competencies:(03) Number of competencies that require certification:(01)							
EN3.1	Observe and describe the indications for and steps involved in the performance of Oto-microscopic examination.	S	KH	N	LGT, SGT, Demonstration	Written/ Viva voce	
EN3.2	Observe and describe the indications for and steps involved in the performance of Diagnostic Nasal Endoscopy.	S	KH	N	LGT, SGT, Demonstration	Written/ Viva voce	
EN3.3	Observe and describe the indications for and steps involved in the performance of Rigid/Flexible Laryngoscopy	K/S	KH	N	LGT, SGT, Demonstration	Written/ Viva voce	

EN 4.1	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Otagia.	K/S	SH	Y	LGT, SGT,DOAP, Bedside clinic	Written/ Viva voce/ Skill assessment	
EN 4.2	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of diseases of the external Ear.	K/S	SH	Y	LGT, SGT,DOAP, Bedside clinic	Written/ Viva voce/ Skill assessment	
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number Required to certify P
EN 4.3	Elicit document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of ASOM	K/S	SH	Y	LGT, SGT	Written/ Viva voce	
EN 4.4	Elicit document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of OME	K/S	SH	Y	LGT, SGT	Written/ Viva voce	
EN 4.5	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of ear discharge.	K/S	SH	Y	LGT, SGT, DOAP, Bedside clinic	Written/ Viva voce/ Skill assessment	
EN 4.6	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of mucosal type of CSOM.	K/S	SH	Y	LGT, SGT, DOAP, Bedside clinic	Written/ Viva voce/ Skill assessment	
EN 4.7	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of CSOM.	K/S	SH	Y	LGT, SGT, DOAP, Bedside clinic	Written/ Viva voce/ Skill assessment	
EN 4.8	Describe the clinical features, choose the correct investigations and the principles of management of complications of CSOM.	K/S	SH	Y	LGT, SGT	Written/ Viva voce	
EN 4.9	Demonstrate the correct technique for wax removal from the ear in a simulated environment	S	SH	Y	Clinical demonstration / DOAP	Skill assessment	3
EN 4.10	Observe and describe the indications for and steps involved in myringotomy and tympanoplasty	S	KH	Y	Clinical , demonstration	Written/ Viva voce	
EN 4.11	Observe and describe the indications for and steps involved in mastoidectomy	S	KH	Y	Clinical, demonstration	Written/ Viva voce	

EN 4.12	Describe the clinical features, investigations and principles of management of Acoustic neuroma	K	KH	Y	LGT, SGT	Written/ Viva voce	
EN 4.13	Describe the clinical features, investigations and principles of management of Otosclerosis	K	KH	Y	LGT, SGT	Written/ Viva voce	

Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/ S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number Required to certify P
EN 4.14	Describe the clinical features, investigations, and principles of management of Conductive Hearing Loss and Sensorineural hearing loss including Sudden Sensorineural Hearing Loss and Noise Induced Hearing Loss.	K	KH	Y	LGT, SGT	Written/Viva voce	
EN 4.15	Describe the anatomy of eustachian tube and discuss the clinical features, investigations, and management of Eustachian tube disorders.	K	KH	Y	LGT, SGT /Flipped class room	Written/Viva voce	
EN 4.16	Describe the clinical features, investigations, and principles of management of Facial Nerve palsy	K	KH	Y	LGT, SGT, Demonstration	Written/Viva voce/Skill assessment	
EN 4.17	Describe the clinical features, investigations and management of Vertigo and assessment of vestibular functions.	K	KH	Y	LGT, SGT, Demonstration	Written/Viva voce/Skill assessment	
EN 4.18	Describe the clinical features, investigations, and principles of management of Meniere's Disease	K	KH	N	LGT, SGT	Written/Viva voce	
EN 4.19	Describe the clinical features, investigations, and management of Tinnitus.	K	KH	Y	LGT, SGT	Written/Viva voce	
EN 4.20	Describe the clinical features, investigations, and management of Deaf child.	K/S	KH	Y	LGT, SGT	Written/ Viva voce	
EN 4.21	Elicit document and present a correct history demonstrate and describe the Causes, choose the correct investigations and describe the principles of management of Nasal Obstruction.	K/S	SH	Y	LGT, SGT, Demonstration	Written/ Viva voce/ Skill assessment	

EN 4.22	Describe the clinical features, investigations and management of DNS and observe and discuss the indications for the steps in septoplasty.	K/S	KH	Y	Clinical demonstration	Written/ Viva voce	
EN 4.23	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Adenoids	K/S	SH	Y	LGT, SGT, DOAP, Bedside clinic	Written/ Viva voce/ Skill assessment	
EN 4.24	Elicit document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of Allergic Rhinitis	K/S	SH	Y	LGT, SGT, Demonstration	Written/ Viva voce /skill assessment	
Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number Required to certify P
EN 4.25	Elicit document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of Vasomotor Rhinitis	K/S	SH	Y	LGT, SGT	Written/ Viva voce	
EN 4.26	Elicit, document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of Acute & Chronic Rhinitis	K/S	SH	Y	LGT, SGT	Written/ Viva voce	
EN 4.27	Elicit, document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of Nasal Polyps	K/S	SH	Y	LGT, SGT, Demonstration	Written/ Viva voce /skill assessment	
EN 4.28	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Epistaxis	K/S	SH	Y	LGT, SGT, DOAP, Bedside clinic	Written/ Viva voce/ Skill assessment	
EN 4.29	Describe the clinical features, choose the correct investigations and describe the principles of management of OBSTRUCTIVE SLEEP APNEA.	K/S	SH	N	LGT, SGT	Written/ Viva voce/	
EN 4.30	Describe the clinical features, investigations and principles of management of Head and Neck trauma.	K/S	KH	N	LGT, SGT.	Written/ Viva voce	
EN 4.31	Describe the clinical features, investigations and principles of management of nasopharyngeal Angiofibroma	K	KH	Y	LGT, SGT.	Written/ Viva voce	
EN 4.32	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Acute & Chronic Sinusitis and its Complications	K/S	SH	Y	LGT, SGT, Demonstration	Written/ Viva voce/ Skill assessment	

EN 4.33	Describe the clinical features, investigations and principles of management of Tumours of Nose, Nasopharynx and para nasal sinus	K	KH	Y	LGT, SGT,	Written/ Viva voce	
EN 4.34	Describe the clinical features, investigation and management of granulomatous diseases of nose	K	KH	N	LGT, SGT	Written/ viva voce	
EN 4.35	Describe the clinical features, investigations and principles of management of diseases of the Salivary glands	K	KH	N	LGT, SGT	Written/ Viva voce	
EN 4.36	Describe the clinical features, investigations and principles of management of Deep Neck space Infection	K	KH	Y	LGT, SGT	Written/ Viva voce.	
Number	COMPETENCY The student should be able to	Predominant Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number Required to certify P
EN 4.37	Elicit document and present a correct history describe the clinical features, choose the correct investigations and describe the principles of management of dysphagia	K/S	SH	Y	LGT, SGT	Written/ Viva voce	
EN 4.38	Elicit document and present a correct history, describe the clinical features, choose the correct investigations , complications and describe the principles of management of Acute & Chronic Tonsillitis	K/S	SH	Y	LGT, SGT, Bedside clinic	Written/ Viva voce/Skill assessment	
EN 4.39	Observe and describe the indications for and steps involved in a tonsillectomy / adenoidectomy and its complications	S	KH	Y	Clinical, demonstration	Written/ Viva voce	
EN 4.40	Elicit, document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of hoarseness of voice	K/S	SH	Y	LGT, SGT	Written/ Viva voce	
EN 4.41	Describe the clinical features, investigations and principles of management of Benign lesion of larynx, Acute & Chronic inflammation of larynx, laryngeal paralysis.	K/S	KH	Y	LGT, SGT	Written/ Viva voce	
EN 4.42	Describe the clinical features, investigations and principles of management of Malignancy of the Larynx & Hypopharynx.	K	KH	Y	LGT, SGT /Flipped classroom	Written/ Viva voce	
EN 4.43	Describe the clinical features, investigations and principles of management of Stridor	K	KH	Y	LGT, SGT	Written/ Viva voce	

EN 4.44	Observe and describe the indications for and steps involved in tracheostomy and the care of the patient with a tracheostomy	K	KH	Y	Clinical, Demonstration	Written/ Viva voce	
EN 4.45	Describe the Clinical features, Investigations and principles of management of diseases of Oesophagus	K	KH	N	LGT, SGT	Written/ Viva voce	
EN 4.46	Describe the clinical features, investigations and principles of management of HIV manifestations of the ENT	K	KH	N	LGT, SGT /Flipped classroom	Written/ Viva voce	

OTORHINOLARYNGOLOGY THEORY ASSESSMENT BLUEPRINT

1. Anatomy & Physiology of ear, nose, throat, head & neck	-10%
2. Clinical skills; diagnostic & therapeutic procedures in ENT	- 10%
3. Management of diseases of ear	-25%
4. Management of diseases of nose	-25%
5. Management of diseases of throat	-25%
6. AETCOM	-5%
TOTAL	-100%

AETCOM

AETCOM Phase III part I		
Subject	Paper	Module number
Ophthalmology	Single paper	3.1
ENT	Single paper	3.3
Forensic Medicine & Toxicology	Single paper	3.4
Community Medicine	Paper 1	3.2
	Paper 2	3.5

Learner- Doctor programme (Clinical Clerkship)

Year of Curriculum	Focus of Learner-Doctor programme
Phase-I	Introduction to hospital environment, early clinical exposure, understanding perspectives of illness, family adoption program
Phase-II	History taking, physical examination, assessment of change in clinical status, communication and patient education, family adoption program
Phase-III Part -1	All of the above and choice of investigations, basic procedures and continuity of care
Phase-III Part -2	All of the above (except Family adoption programme) and decision making, management and outcomes

INTERNAL ASSESSMENT

SL NO	SUBJECTS IN PHASE II	THEORY IA MARK	PRACTICAL IA MARK
1.	COMMUNITY MEDICINE (PHASE I+II+III.1)	25+25+50=100	25+25+50=100
2.	FORENSIC MEDICINE (PHASE II+III.1)	25+75=100	25+75=100
3.	ENT (PHASE II+III.1)	25+75=100	25+75=100
4.	OPHTHALMOLOGY (PHASE II+III.1)	25+75=100	25+75=100
5.	GENERAL MEDICINE (PHASE II+III.1)	50+50	50+50
6.	GENERAL SURGERY (PHASE II+III.1)	25+25	25+25
7.	O&G (PHASE II+III.1)	50+50	50+50
8.	PEDIATRICS (PHASE II+III.1)	25+25	25+25

- General medicine: Total IA of 200 marks → Phase III part 2- 100 marks is divided as Medicine- 75 marks; Psychiatry- 13 marks; Dermatology- 12 marks.
- General surgery: Phase III part 2- 150 marks shall be divided as General surgery- 75 marks, Orthopedics -50 marks, Anesthesia-13 marks, Radiodiagnosis - 12 marks.
- O&G: Phase III part 2 → 100 marks

THEORY INTERNAL ASSESSMENT

Phase	Category of Assessment	Community Medicine		Forensic Medicine, ENT, Ophthalmology	
		Phase Weight (%)	Cumulative IA Marks	Phase Weight (%)	Cumulative IA Marks
Phase I	Periodic Tests (PCTs) & Continuous IA (Assignments/SDL)	25%	25	-	-
Phase II	Periodic Tests (PCTs) & Continuous IA (Seminars/Quizzes)	25%	25	25%	25
Phase III-I	University-Pattern Prelims (Paper I & II: 100+100 Marks)	30%	30	30%	30
	Phase III PCTs, Continuous IA, Seminar, Museum study and Attendance	20%	20	45%	45
TOTAL		100%	100		100

PRACTICAL INTERNAL ASSESSMENT

		Community Medicine		Forensic Medicine, ENT, Ophthalmology	
Phase	Category of Assessment	Phase Weight (%)	Cumulative IA Marks	Phase Weight (%)	Cumulative IA Marks
Phase I	Practical PCTs (FAP/Skills) & FAP Logbook	25%	25	-	-
Phase II	EOP Practical Exam & Continuous IA	25%	25	25%	25
Phase III-I	University-Pattern Prelims Practical (100 Marks)	20%	20	30%	30
	Logbook & Skill Certifications, AETCOM (Mandated 10-20%)	15%	15	20%	20
	End of Posting Practical Exam, Attendance, Research and FAP Final	15%	15	25%	25

TOTAL		100%	100	100%	100
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ELIGIBILITY CRITERIA

- **Learners must secure at least 50% of the total marks (combined in theory and practical / clinical; and minimum 40% in theory and practical separately) for internal assessment in a particular subject in order to be eligible for appearing at the final University examination of that subject.**
- **The results of internal assessment should be intimated to students at least once in 3 months and as and when a student wants to see the results.**

ATTENDANCE (THEORY & PRACTICAL)

	THEORY	PRACTICAL
Each Phase	75%	80%
FAP	80%	REMEDIAL MEASURES ONLY IF ATTENDANCE IS MORE THAN 60% FOR EACH COMPONENT.
AETCOM	75%	
Electives	75% (must for NExT)	

- **Calculation of attendance**
 - The Quarterly attendance has to be displayed on notice board for taking remedial measures, if necessary.

University Examinations

Eligibility to appear for University examination

- i. Attendance as per Clause above.
- ii. Internal examination marks as per Clause above.
- iii. Learners must have completed the required certifiable competencies and completed the logbook for that phase of training including subjects which do not have a University Examination in that Professional year (e.g., Gen. Medicine in Second Professional and Third Professional Part I).
- iv. Submission of the logbook / case record to the department is required for eligibility to appear for the final examination of the subject.

MBBS**SUGGESTED FORMAT FOR A THEORY PAPER-UNIVERSITY****Duration – 3 Hrs****Maximum Marks – 100**

QUESTION SL NO.	QUESTION PATTERN	NO. OF QUESTIONS	MARKS AWARDED	TOTAL MARKS
I	SCENARIO BASED MCQ	20	1	20
II	LONG STRUCTURED ESSAY QUESTION	1	10	10
III	REASONING QUESTION	5	3	15
IV	SHORT NOTES • 1-AETCOM • 4-APPLIED ASPECT • 3-DIAGRAMATIC REPRESENTATION • 1 – INTEGRATED TOPICS • 1- RECENT ADVANCES • 1- BASIC SCIENCES	10+1	5	55
			GRAND TOTAL	100

Marks distribution for subjects for University Annual Examinations

Phase of Course	Theory	Practicals	Passing criteria
Phase-III part 1MBBS			
COMMUNITY MEDICINE - 2 papers	Paper 1- 100	100	Mandatory to get 40% marks separately in theory and in practicals; and totally 50% for theory plus practicals.
	Paper 2 -100		
FORENSIC MEDICINE- 1 paper	100	100	
OTORHINOLARYNGOLOGY (ENT)- 1 PAPER	100	100	
OPHTHALMOLOGY- 1 paper	100	100	

PHASE II SYLLABUS IS PREPARED ACCORDING TO NMC'S LATEST GUIDELINES & IS APPROVED BY CURRICULUM COMMITTEE OF KANYAKUMARI MEDICAL MISSION RESEARCH CENTER.

HEAD, DEPARTMENT OF COMMUNITY MEDICINE (Name & Signature with date)

HEAD, DEPARTMENT OF FORENSIC MEDICINE (Name & Signature with date)

HEAD, DEPARTMENT OF OTO-RHINO-LARYNGOLOGY (Name & Signature with date)

HEAD, DEPARTMENT OF OPHTHALMOLOGY (Name & Signature with date)

HEAD, DEPARTMENT OF GENERAL MEDICINE (Name & Signature with date)

HEAD, DEPARTMENT OF PEDIATRICS (Name & Signature with date)

HEAD, DEPARTMENT OF GENERAL SURGERY (Name & Signature with date)

HEAD, DEPARTMENT OF OBSTETRICS & GYNECOLOGY (Name & Signature with date)

HEAD, DEPARTMENT OF PSYCHIATRY (Name & Signature with date)

HEAD, DEPARTMENT OF ORTHOPEDICS (Name & Signature with date)

CO-ORDINATOR, MEDICAL EDUCATION UNIT (Name & Signature with date)

VICE PRINCIPAL, KMMC (Name & Signature with date)

DEAN, KMMC (Name & Signature with date)