MBBS SYLLABUS AND CURRICULUM

PREFACE

The MBBS students coming out of this prestigious Medical University should be competent in diagnosis and management of common health problems of the individual and the community at primary, secondary, tertiary levels using the clinical skills based on history, physical examination and relevant investigations.

The Graduate Medical Curriculum has been prepared to fulfill the vision of this University and it is oriented towards training students in an unique environment preparing them to undertake the duties and responsibilities of a physician of first contact who is capable of looking after the preventive, promotive, curative and rehabilitative aspects of medicine. The students pursuing Graduate Medical curriculum will have the necessary competencies (knowledge, skills & attitudes) to assume the role of a quality health care provider to the people of India and across the world.

The curriculum is framed involving many experts in relevant medical fields incorporating especially the **specific learning objectives**, **Teaching methodology**, "must know, desirable to know and nice to know" as put 'forth by Medical Council of India and more importantly it includes the vital **Medical Ethics** to practice in patient care, service and research. It also includes the **integrated teaching** using a problem based learning, evidence based approaches starting with clinical or community cases and exploring the relevance of various preclinical disciplines in both understanding and sharp focus on resolving health care problems. Every attempt has been made to deemphasize compartmentalisation of disciplines so as to achieve both horizontal and vertical integration in different phases with a mission that our Medical Graduates will outshine and match the International standards.

The Introduction of teaching elements, OSCE / OSPE have also been incorporated which are proven to be an important, innovative, reliable and objective modality of assessment for clinical / practical skills in the changing scenario of Medical Sciences.

Record Book / Log Book becomes a reflective record of student's learning and achievements and faculty contribution towards learning. Every student will be motivated to document what he/she has learnt in the respective department / specialty in the log book and make it as a permanent record. The revised Record Book/Log Book should be followed by all the affiliated Medical colleges of this University to bring uniformity in teaching and training of students.

Internship is a phase of training wherein the graduate is expected to conduct actual practice under the supervision of a trained doctor. The learning methods and modalities have to be done during the MBBS course itself with larger number of hands on session and **practice on simulators**.

The Introduction of a restructured curriculum and training program with emphasis on early clinical exposure, integration of basic and clinical sciences, clinical competence and skills and new teaching – learning methodologies will lead to a new generation of medical graduates of global standards.

I want to thank the Academic Officer and the team of Academic, Experimental Medicine & Examination wing and the team of experts from their relevant Medical Specialties of various Medical Colleges in the State for their enthusiastic and energetic efforts to bring this revised syllabus & curriculum.

<u>Dr.S.GEETHALAKSHMI,M.D.,Ph.D.,</u> VICE-CHANCELLOR.

Comments/feedback are welcome if any and mail it to registrar@tnmgrmu.ac.in

THIRD MBBS

OPHTHALMOLOGY

I. Goal

The goal of teaching of students in ophthalmology is to provide such knowledge and skill to the students that will enable them to

- 1. Diagnose and manage common ophthalmic diseases, ocular manifestations of systemic diseases and emergencies.
- 2. Knowledge of using common drugs keeping in mind their adverse reaction.
- 3. Knowledge of common ophthalmic investigations and interpretation of results.

II. Objectives

A. Knowledge

- 1. Aetiology, Clinical features and treatment of conjunctival infections, allergies, pterygium, xerosis and trachoma.
- 2. Aetiology, Clinical features, complications and treatment of coreneal ulcers, keratomalacia and other inflammations of sclera and cornea.
- 3. Basic principles of corneal blindness eye donation and corneal transplant (keratoplasty).
- 4. Aetiopathogenesis and complications of ectropion, entropion, ptosis, lagophthalmos, symblepharon and lid inflammations.
- 5. Aetiology, clinical features and treatment of lacrimal sac infections and causes of epiphora.
- 6. Classification, clinical features, diagnosis and treatment of various forms of congenital and senile cataract.
- 7. Classification, clinical features, diagnosis and treatment of various forms of glaucoma.
- 8. Classification, etiology, clinical features, complications and management of various diseases of uveal tract.

- 9. Classification, aetiology, clinical features and treatment of various refractive errors and presbyopia.
- 10. Types of blindness causes and their management.
- 11. Objectives of National Program for Control of Blindness, Trachoma control Program and vision 2020.
- 12. Aetiology, Clinical features and treatment of common retinal disorders including retinopathies vascular occlusions, degenerations, inflammation and detachment.
- 13. Types of ocular trauma, clinical features, complications and management including sympathetic ophthalmia.
- 14. Aetiology, Clinical features and management of optic nerve disorders including optic atrophy, differentiation of papilloedema and optic neuritis.
- 15. Aetiology, clinical features and management of orbital diseases common causes of proptosis.
- 16. Ocular manifestation of systemic diseases including diabetes, hypertension, tuberculosis, leprosy, anemia, AIDS and pregnancy induced hypertension.
- 17. Ocular side effects of systemic drugs.
- 18. Aetiology, Clinical features and principles of treatment of vitreous diseases e.g., haemorrhage, degeneration, endophthalmitis.
- 19. Recent advances in ophthalmology-lasers, intraocular lens implantation.

B SKILLS

- 1. Determine visual acuity
- 2. Test Colour vision
- 3. Anterior segment examination using torch light and slit lamp biomicroscope
- 4. Use of direct ophthalmoscope.

- 5. Determine field of vision by confrontation method
- 6. Removal of extra ocular foreign body
- 7. Perform epilation of eyelashes.
- 8. Incise and drain lid abscess
- 9. First aid for chemical injuries.

C. <u>INTEGRATION</u>

The Under graduate training in ophthalmology will provide an integrated approach towards other disciplines like Neuro-Sciences, Dermatology, Dental, ENT, Obstetrics & Gynaecology, Pediatrics, General Surgery and General Medicine.

II TEACHING HOURS - 100

- 1. Lectures 64hours,
- 2. Theory TESTS-3x2=06 hrs
- 3. Integrated Lectures 20 hours
- 4. Demonstration 4 hours
- 5. seminars -- 6 hours

III TEACHING METHODOLOGY

- Didactic lectures,
- Seminars,
- Short lectures,
- Case presentations,

DEMONSTRATION,

- Theatre live surgical demonstration,
- Attending ward round,
- Minor theatre- foreign body removal, syringing nasolacrimal duct,
- Visual acuity testing.

IV THEORY SYLLABUS

- 1. Anatomy of orbit, eye ball & adnexa.
- 2. Anatomy of visual pathway, pupillary pathway
- 3. Physiology of eye.
- 4. Bio-chemistry of ocular tissues.
- 5. Lid swellings, blepharitis
- 6. Ptosis, Lagopththalmos, ectropion, entropion, symblepheron

- 7. Anatomy of lacrimal drainage system, dacryocystitis and management
- 8. DD of limbal nodule,
- 9. Scleral, Episcleral affections
- 10. Pterygium, pseudo pterygium and its management
- 11. Etiology, Clinical features and management of Allergic conjunctivitis, ophthalmia neonatorum, and other conjunctivitis.
- 12. Etiopathogenesis and clinical features, complications and management of Bacterial, fungal, viral and protozoal corneal ulcer,
- 13. Etiology and types of cataract, preoperative evaluation, different types of cataract surgery and post operative complications
- 14. Classification, etiopathogenesis, clinical features and management of various glaucomas.
- 15. Various types of refractive errors and management. Retinoscopy and pinhole, & Colour vision test
- 16. Differential Diagnosis of Red eye.
- 17. Clinical features, Management and complications of uveal tract diseases.
- 18. Causes and types of blindness. National Program for Control of Blindness(NPCB)District Blindness Control Society(DBCS) VISION 2020, Eye Bank, Hospital corneal Retrieval Program (HCRP) objectives and functions
- 19. Aetiology, Clincial features and management of optic neuritis, optic atrophy and papilloedema
- 20. Diabetic retinopathy, Hypertensive retinopathy, retinal detachment, Retinitis pigmentosa, retinopathy of prematurity, retinal vascular occlusion
- 21. Signs of thyroid opthalmopathy.
- 22. Ocular manifestations of systemic disease.
- 23. Ocular motor nerve palsies
- 24. Types of ocular injuries, clinical features and management of chemical, blunt injuries, sympathetic ophthalmia
- 25. Causes of proptosis, clinical features, complications and management of orbital cellulitis
- 26. White reflex in pupillary area.
- 27. Watch incision and curettage for chalazion, incision and drainage for lid and lacrimal abscess, removal of corneal foreign body, epilation, enucleation and evisceration
- 28. Lasers in ophthalmology
- 29. Ocular anaesthesia.
- 30. Types of strabismus, cover uncover test, Hirschberg's test
- 31. Types of amblyopia and management
- 32. Dry eyes & thyroid ophthalmopathy.

- 33. Ocular manifestations of rheumatological diseases.
- 34. Clinical presentation and discussion of ophthalmic cases
- 35. Medical ethics- Bioethics
 - -Benefits & harm,
 - -human dignity & human rights

V PRACTICAL SYLLABUS

LIDS;

- Ptosis, lagophthalmos, entropion, ectropion.
- Blepharitis, Chalazion, hordeolum internum, hordeolum externum,
- Pterygium, limbal nodule, bitot's spot, subconjunctival hemorrhage
- Chronic dacryocystitis

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LENS:

- Cataract
- Lens induced glaucoma

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GLAUCOMA

- Primary glaucoma
- Secondary glaucoma

UVEITIS

CORNEA

- Corneal opacities, corneal ulcers (purulent & non purulent)
- Anterior staphyloma

SURGICAL INSTRUMENTS, slides, (microbiology, pathology Specimens, Drugs used in ophthalmology

INVESTIGATIVE tools (Fluorescein strips, ophthalmoscope etc)

- Visual Field charts, imaging,(CT, MRI, USG)
- Refraction set, pinhole, maddox rod,
- slit lamp examination
- Tonometry
- Colour vision

VI - REFERENCE LEARNING BOOKS

- Parson's Diseases of the eye
- Kanski's Text Book of ophthalmology
- Kanski's Atlas in ophthalmology

VII Theory Examination:

1 . Essay1 x 10 marks= 10 marks1. Brief Answeres5 x 4 Marks= 20 marks2. Short Answers5 x 2 Marks= 10 marks

Total 40 Marks

VIII Practical Examination & sOSCE examinations

LONG CASE: 1 x 15 30 minutes 15 marks

Presentation-5 marks

Diagnosis & management-5 marks

Discussion-5 marks

SHORT CASES: 2 x 5 30 minutes 10 marks

Presentation -5 marks Discussion -5 marks

OSCE/SPOTTERS 5 X 1 (10 minutes) 5 marks

Display for OSCE

Investigative tools & microbiology, pathology slides, Clinical Scenario

Total 30 marks

Viva : 10 marks

I.A. : 20 marks (Theory 10, Practical

10)

SUGGESTED LONG CASES:

- Cataract, Aphakia, Pseudophakia, Lens induced glaucoma

SUGGESTED SHORT CASES;

- Corneal opacity, Corneal ulcers, iritis, Pterygium, Bitots spots, Hordeolum Internum & externum, Subconjunctival hemorrhage, blepharitis, ectropion, entropion, trichiasis.

IX --VIVA

VIVA = 10 marks (4 x2.5)

Refraction
 Community ophthalmology
 Systemic ophthalmology (includes Basic)
 Instruments & Pharmacology
 2.5 marks
 2.5 marks
 2.5 marks

X INTERNAL ASSESMENT = 20 Marks

- Theory (average of minimum 3 tests) 10 marks

- Practical (Practical 5 marks + Log Book 5 marks

10 marks

- Log Book to be approved by HOD

FORMATIVE ASSESSMENT-WHEN TO SUBMIT –

- -Formative assessment is an ongoing assessment wherein students in groups are allotted to be with a specific tutor/ consultant in the hospital during OPDs, theatre everyday for about an hour.
- -At the end of the each (3) posting, the tutor/consultant does a formative assessment of the students who are posted with him/her.

Schedule for Formative assessment

PERIOD	POSTING DURATION	TESTS
4th Semester	4 Weeks	One theory test
6th Semester	4 Weeks	Two theory tests and
		two clinical test
9th Semester	2 Weeks	One theory and one clinical test

Subjects wise Tests: (To be held according to clinical postings)

Test 1- Anatomy, physiology, biochemistry, pharmacology & pathology

- Test 2-Cataract, glaucoma, cornea
- Test 3-Uvea, Retina, Refraction, Neuro ophthalmology, systemic & community ophthalmology Test 4-Model examination (Complete Syllabus including recent advances).

INTERNAL ASSESSMENT TEST-UNIT WISE – submitted as below

X INTERNAL ASSESMENT = 20 Marks

III. Theory (average of minimum 3 tests)IV. Practical10 marks10 marks

V. For practicals – the following can be added- Practical assessment is done by end of posting practical exam and OSCEs similar to the university exams.

MEDICAL ETHICS-RESPECT OF CADAVER needs to be covered during their induction into MBBS before anatomy dissection and classes.

MEDICAL ETHICS needs to be covered when students are introduced to clinics. Separate medical ethics lecture or classers not required separately in ophthalmology.

INTEGRATED TEACHING – needs to be addressed at a higher pan departmental meeting involving the overall UG curriculum in- charge and all the departments. Not possible by one department alone to decide on integrated teaching.

RECORD / LOG BOOK – submitted- log book approved by the HOD has to be submitted at the time of university practical examination. The formatted log book has already been made and available with the academic officer.

CRRI Orientation programme based on the clinical subjects- once again has to be done by the overall UG curriculum – in – charge during overall orientation sessions. Separate session needed for ophthalmology.

- Foreign body removal
- Syringing of nasolacrimal duct
- Observing IOP recording, perimetry recording,
- Other investigative procedures

THEORY SYLLABUS

MUST KNOW:

- 1. Anatomy of eye and various structures(parts)
- 2. Anatomy of visual pathway, pupillary pathway

- 3. Anatomy of lid lid swellings, blepharitis, ptosis, lagophthalmos, ectropion, entropion, symblepheron
- 4. Anatomy of lacrimal drainage system dacryocystitis and management
- 5. VITAMIN A -Clinical features and WHO classification and management of Vit A deficiency
- 6. DD of LIMBAL NODULE
 - $-vernal, phlycten, episcleritis, scleritis, pterygium, pseudopterygium\ and\ its\ management$
- 7. CONJUNCTIVITIS -Etiology, clinical features and management of Allergic conjunctivitis, ophthalmia neonatorum, and other conjunctivitis.
- 8. CORNEAL ULCER -Etiopathogenesis and clinical features of Bacterial, fungal, viral and protozoal corneal ulcer and its complications and management
- 9. CATARACT -Etiology and types of cataract, preoperative evaluation, different types of cataract surgery and post operative complications
- 10. GLAUCOMA -Classification, etiopathogenesis, clinical features and management of various glaucomas
- 11. REFRACTIVE ERRORS -Various types of refractive errors and management. Retinoscopy and pinhole test
- 12. RED EYE -Differential Diagnosis of Red eye. Clinical features, management.
- 13. UVEITIS -Iridocyclitis, clinical features and management
- 14. Causes and types of BLINDNESS. National Programme for Control of Blindness(NPCB), District Blindness Control Society(DBCS), VISION 2020, EYE BANK, Hospital Corneal Retrieval Programme(HCRP) - Objectives and Functions
- 15. Differentiation of optic neuritis, optic atrophy and papilloedema
- 16. Layers of retina. Diabetic retinopathy, hypertensive retinopathy, retinal detachment, retinitis pigmentosa, retinopathy of prematurity, central retinal vein occlusion(CRVO) and branch retinal retinal vein occlusion(BRVO)
- 17. Tests for visual acuity, colour vision, recording IOP, direct ophthalmoscopy
- 18. FIELD TESTING Confrontation method and Bjerrum screen
- 19. Medical ethics.

DESIRABLE TO KNOW:

- 1. Types of ocular injuries. Clinical features and management of chemical injuries, blunt injuries, sympathetic ophthalmia.
- 2. Causes of Proptosis. Clinical features, complications and management of Orbital cellulitis
- 3. Ocular manifestations of Tuberculosis, Leprosy, AIDS, Eclampsia, Anemia
- 4. Antibiotics, antifungal, antiviral, steroids, mydriatrics and cycloplegics. Antiglaucoma drugs- dose, mode of action and side effects
- 5. Incision and curettage for chalazion. Incision and Drainage for lid and lacrimal abscess. Removal of corneal Foreign body, epilation
- 6. LASERS in ophthalmology

NICE TO KNOW:

- 1. Origin, insertion, nerve supply and actions of Extra ocular muscles
- 2. Types of strabismus, cover uncover test, Hirschberg's test
- 3. Types of amblyopia and management

Practical syllabus

Must know;

- 1. Basic examination of the eyes
- 2. Visual acuity recording- presence of refractive error or other ocular pathology
- 3. Detection of conjunctivitis, presence of extra ocular foreign body, cataract, iritis
- 4. First aid for ocular trauma-in particular chemical injuries
- 5. Management of conjunctivitis
- 6. Referring patients requiring ophthalmic opinion to the eye specialists.
- 7. Counseling for the patients with diabetes mellitus, hypertension, thyroid disorders, pregnancy induced hypertension for a thorough ophthalmic check by the competent ophthalmologists

Desirable to know;

- 1. To check for presence of glaucoma
- 2. Neurological disorders requiring ophthal opinion- papilloedema-raised intra cranial pressure
- 3. Presence of diplopia ocular motor nerve palsies= to R/O DM, HT, SOL
- 4. To give a thorough irrigation of eyes with clean water in the presence of chemical injuries
- 5. To detect corneal pathology & refer the patients to an ophthalmologist.

Nice to know;

- 1. The presence of intra ocular infections
- 2. The presence of retinopathies
- 3. To detect papilloedema
- 4. To remove conjunctival foreign body (not corneal foreign body)
- 5. Refer patients with any suspected ophthalmic diseases to the competent ophthalmologist.

OPHTHALMOLOGY LOG BOOK

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by the 1.Particulars of the student: **Unit Chief** Name: University Registration No.: Mobile No.: Email ID: Signature of Unit Chief Signature of Asst. Professor Name: Name: Date: Date: BONAFIDE CERTIFICATE This is to certify that this log book is the Bonafide record of _____ whose particulars along with photo is given above. Signature of HOD with seal Name: Name: Date: Date: Approval of examiners: External Internal 1. 1. 2. 2.

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PP photo to be attested

2. Statement on the clinical postings of the students

First	posting
Secon	d posting
Third	posting

3. Introduction to Ophthalmology

Topic	Date	Name of the teacher
Introduction to Ophthalmology		
History Taking/Vision recording		
Examination of Lid & Adnexa		
Examination of Anterior Segment		
Examination of Posterior segment		
Investigative procedures		
Management		

4. Didactic lectures in Ophthalmology

	TOPICS	Name of the Teacher
-		
	Anatomy of the Eye	
	Lid	
	Adnexa	
	Conjunctiva	
	Cornea	
	Uveal Tract	
	Pupil and visual pathway	
	Lens -1	
	Lens-2	
	Glaucoma -1	
	Glaucoma -2	
	Medical &Surgical management of Glaucoma	
	Retinal detachment	
	Diabetic retinopathy&Hypertensive Retinopathy	
	Retinal vascular occlusions	
	Retinitis pigmentosa & low visual aids	
	FFA& LASER	
	Proptosis	
	Neuro ophthalmology	
	Vision recording and identifying lenses and contact lenses	

Refractive errors

Pathological Myopia and vitreo retinal degeneration

Preventable blindness & NPCB Vitamin A deficiency

Injuries to eye and its management

Endophthalmitis & panophthalmitis

Ocular anaesthesia

Imaging in Eye

Microbiology specimen & slides

Ocular Pathology, Specimen & slides

Ocular pharmacology and drug interaction

Occular Physiology + Biochemistry

5. Operative procedure lectures

Date	Operative procedure	Name of the Teacher
	Cataract surgery basics and recent advances	
	including Phacoemulsification	
	Glaucoma surgeries and recent advances	
	Retinal detachment surgery	
	Orbit and oculoplasty	
	Enucleation	
	Endologion	

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6.Integrated Lectures

Date	Topic	Name of the Teacher
	Diabetes and Eye	
	Hypertension and eye	
	Neurology and Eye	
	Tropical Diseases-TB, Hansen's etc and eye	
	Connective Tissue disorders and Eye	
	Dermatology and Eye	
	ENT and Eye	
	Environmental Eye	
	LIN7 1 D	
	HIV and Eye	
	Community Ophthalmology	
	Facio maxillary surgery and eye	

7..Anterior segment Examinations done:

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Diagram

SIGNATURE OF THE TEACHER

8. Posterior segment Examinations Direct ophthalmoscopy & done:

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Diagram
	1	<u>l</u>			

9. Refraction done

Sl.No	Patient Name	Retinoscopy Value	Type of Refractive Errors

10.Slit lamp, Gonioscopy Indirect ophthalmoscopy and others observed

Date	Patient name	Age/Sex	Hospital No.	Diagnosis

11 OPD cases Discussed

Date	Name of patient	Age/Sex	Hospital No.	Diagnosis	Presented to/
					Discussed with:
Name of Sup	pervisor:			Signature:	
Date:					

12.Ward cases Discussed

Date	Name of patient	Age/Sex	Hospital No.	Diagnosis	Presented to/	
					Discussed with:	
Name of Supervisor:						
Signature:						
Date:						

13.OPD/Treatment room procedures observed:

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Procedure
					Observed

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14. Operation Theatre procedures observed

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Surgery/Procedure Observed
					0.0001700

15.Emergency procedures observed

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Procedure
					Observed

16 Investigative procedures like Tonometry, A scan B scan, FFA & Procedures in eye bank observed:

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Procedure
					Observed

$\textbf{17.: Participation in out reach activities} \ \neg \textbf{Eye camps \&Eye donations}$

Date			

SIGNATURE OF THE TEACHER

18 Instruments seen and discussed:

S.No.	Name of the Insturments	Uses
Ĺ		

Instruments seen and discussed: (contd..)

S.No.	Name of the Insturments	Uses

SIGNATURE OF THE TEACHER

19. MODEL OF A CASE SHEET

Case No. 1: Date:		
Name of Patient:	Age/Sex	Hospital No.
Occupation:	Address:	
History:		
Presenting Complaints:		
History of presenting Complaints:		
Past History:		
Medical History:		
Treatment History:		
Surgical History:		
Personal and Allergic History:		
responds and ranging insteary.		
Family History:		
Others:		
Physical Examination:		
General Examination:		

Examination of Eye

RIGHT EYE		LEFT EYE
	VISUAL ACUITY	
	LIDS	
	OCULAR MOVEMENTS	
	CONJUNCTIVA	
	CORNEA	
	IRIS	
	ANTERIOR CHAMBER	
	PUPILS	
	LENS	
	NASOLACRIMAL DUCT	
	INTRA OCULAR PRESSURE	
	FUNDUS	
Summary:		
PROVISIONAL DIAGNOSIS:		

INVESTIGATIONS Management Plan: Signature of Teacher: Name of Teacher:

20 Symposiums & Seminars attended

Date	Topic	Presented/Attended	Teacher
Name of Su	Name of Supervisor: Signature:		
Date:			

21. ASSESSMENT OF THE CANDIDATE

Participation in other Competitive examination(s) or any other academic activities like quiz etc., at colleges / inter colleges level (Optional)	
Participation in research activities, CMEs / Guest Lectures, conferences etc., (Optional)	
Academic awards / achievements received	
	UNIT CHIEF
REMARKS & SIGNATURE	HOD OF DEPARTMENT
	DEAN OF INSTITUTION

ENT

Goal:

The broad goal of the teaching of undergraduate students in Otorhinolaryngology is to acquire adequate knowledge and skills for optimally dealing with common disorders and emergencies in ENT and principles of rehabilitation of the impaired hearing.

A. Knowledge

At the end of the course, the student will be able to

- 1. Diagnose and manage the common ENT diseases and emergencies.
- 2. Adopt the rational use of commonly used drugs keeping in mind their adverse reactions.
- 3. Suggest common investigations and interpret their results.
- 4. Should be in a position to identify the cases which require specialist care.
- 5. To identify deaf individuals at the earliest and refer them for proper rehabilitation.
- 6. To recognise Pre Malignant & Malignant lesions of Head & neck region at an early stage.

B. Skills

At the end of the course the students should be able to

- 1. Use Head mirror, Nasal Speculum, tongue depressor, otoscope, Tuning Fork.
- 2. Aural Toilet (Ear Mopping wet & dry, ear suctioning & syringing)
- 3. Do Siegalisation
- 4. Ear wick placement
- 5. Anterior and Posterior nasal packing for epistaxis
- 6. Foreign body removal from ear, nose and throat
- 7. Mastoid dressing
- 8. Conduct CPR (cardio-pulmonary resuscitation) and First Aid in newborn, children & Adults including Endotracheal Intubation.
- 9. To be familiar with drainage of intra-oral & neck abscesses.
- 10. Assist Emergency procedures like Tracheostomy and endoscopies.
- 11. Assist Diagnostic Nasal endoscopy, Video Laryngoscopy.
- 12. Interpret Clinical Audiometry and Tympanometry findings.

C. Integration:

Theory classes should include integrated teaching.

Horizontal Teaching:

General Surgery – General principles of surgical management like wound healing, acid-base balance, blood transfusion & sterilisation.

Neurosurgery – Knowledge of intracranial complications caused by diseases of ENT region. (Meningitis, intracranial abscess, cavernous sinus thrombophlebitis.)

Ophthalmology – Knowledge of orbital complications of Sino-nasal disease.

Sino nasal Neoplasm - pathological basis of sinonasal neoplasms, Radiological investigations. Clinical features and management-2 hours (These lectures will be handled by faculty from Otorhinolaryngology, Radio diagnosis, radiotherapy, surgical & medical oncology)

Laryngeal malignancies: Anatomy of larynx, physiology of phonation and swallowing. Pathology of laryngeal malignancy, Etiology, clinical features and management of laryngeal malignancies-2 hours. (These lectures will be handled by faculty from Otorhinolaryngology, radio diagnosis, radiotherapy, surgical & medical oncology)

Vertical Teaching:

Otology: Anatomy of middle ear, physiology of middle ear. Microbiology of CSOM. CSOM mucosal and squamosal type, clinical features and management- 2 hours (These lectures will be handled by faculty from anatomy, Physiology, microbiology and otolaryngology). Otosclerosis: Pathology, clinical features, investigations and management -2 hours (These lectures will be handled by faculty from pathology and otolaryngology)

Rhinology: Anatomy of lateral nasal wall, physiology of nose including Mucociliary clearance mechanism. Microbiology of sinus infections. Acute and chronic rhinosinustis and its management-2 hours (These lectures will be handled by faculty from anatomy, physiology, microbiology and otolaryngology)

Throat – Chronic Tonsillitis: Anatomy, Microbiology, Pathology, Pharmacology, Anaesthesia and Otorhinolaryngology - 2 hours.

Airway management: Anatomy of upper airway. Physiological basis of oxygen transport including nasobronchial reflexes. Acute airway obstruction and its management. Intubation, Tracheostomy, ventilator support in such conditions and biochemical changes in these patients.-2 hours (These lectures will be handled by faculty from anatomy, physiology, anaesthesia and otolaryngology)

Teaching Hours – 70 Hours:

<u>Lectures- 50 hours.</u>
One lecture on Medical Ethics

<u>Integrated lectures-10 hours. (2 hours each.)</u>

<u>Seminars - 10 hours. (2 Hours each.)</u> <u>**Teaching methodology**</u>

Theory Teaching - Theory classes include integrated teaching.

Vertical integration with involvement of anatomy, physiology, bio-chemistry, microbiology & Pharmacology. Horizontal integration with involvement of Ophthalmology, Neuro-surgery, Radiology, Radiotherapy, General Surgery and Oncology. Didactic lectures, seminars and short lectures.

Practical Teaching-

Demonstrations, treatment room and endoscopic procedures observation, case presentations and discussions, theatre live surgical demonstration, attending ward rounds, Audiometry demonstration and OSCE.

Theory Syllabus

I. EAR

MUST KNOW:

Basic sciences:

- 1) Anatomy: external, middle and inner ear. Anatomy of facial nerve.
- 2) Anatomy and physiology of Eustachian tube.
- 3) Anatomy and pneumatisation of temporal bone.
- 4) Physiology of hearing and vestibular function.
- 5) Bacterial flora, specific antibiotic therapy of upper respiratory infection
- 6) Common antibiotics used in ear infections; acute and chronic, topical antibiotics, ototoxic and vestibulotoxic drugs

Clinical conditions:

- 1) Symptoms of ear disease and referred pain in the ear.
- 2) Examination of the Ear: Tuning fork tests: Rinne, Weber and Absolute bone conduction, Caloric test, Positional test, Instruments for ear examination.
- 3) Eustachian tube function tests
- 4) Deafness: types and causes.
- 5) Diseases of the external ear: Perichondritis; otitis externa; cerumen; foreign body, hematoma auris, Malignant otitis externa, Keratosis Obturans, preauricular sinus, Myringitis granulosa
- 6) Diseases of the middle ear: Acute and Chronic suppurative otitis media (Mucosal and squamosal disease); Otitis media with effusion, Tympanosclerosis, Adhesive otitis media, Tuberculous otitis media.
- 7) Audiometry Pure tone; Impedance Audiometry- basics, Assessment of hearing in Paediatric patients. (Basics)
- 8) Determination of type and degree of hearing loss by pure tone audiogram.
- 9) Facial nerve-anatomy, functions and clinical evaluation. Bell's palsy
- 10) Congenital hearing loss and delayed speech development.
- 11) Complications of otitis media, intratemporal and intracranial: Mastoiditis (acute and chronic); facial palsy, labyrinthitis; petrositis; lateral sinus thrombosis; otogenic meningitis; otogenic brain abscess,
- 12) Vertigo- how to ask basic history, examination. Meniere's disease symptomatology and management, BPPV, Vestibular neuronitits

- 13) X-ray of mastoid; Laws view in normal and in patients with acute or chronic Mastoiditis
- 14) Pseudocyst Pinna
- 15) Ototoxicity
- 16) Sudden hearing loss
- 17) Non organic hearing loss
- 18) Injuries to ear- traumatic, acoustic trauma and barotrauma
- 19) Presbyacusis
- 20) Tinnitus
- 21) Myringotomy and grommet insertion
- 22) Surgery: Cortical and Modified Radical Mastoidectomy, Tympanoplasty/Myringoplasty Principles and complications. Instruments used.

DESIRABLE TO KNOW:

- 1) Otosclerosis: Diagnosis and management; basics of Stapedectomy
- 2) Vestibular function tests, caloric test, positional test.
- 3) Meniere's disease –detailed evaluation.
- 4) Brainstem Audiometry, Electrocochleography, OAE.
- 5) Tests for recruitment
- 6) Cochlear implants basics.
- 7) Tumours of the Ear, Glomus jugulare and tympanicum and squamous cell carcinoma -Clinical features, diagnosis and management.
- 8) Epidemiology of otitis media and hearing loss in India
- 9) Hearing aids
- 10) Acoustic neuroma
- 11) Deaf mutism
- 12) Middle ear risk index (MERI)

NICE TO KNOW:

- 1) Surgery for vertigo
- 2) Surgery for facial palsy
- 3) Surgery for tumours of the ear
- 4) High resolution CT of Temporal bone
- 5) Temperomandibular joint disorders
- 6) Implanatble hearing aids including bone anchored hearing aids
- 7) CP angle tumours
- 8) National programme of prevention and control of deafness. NPPCD
- 9) Congenital ear disorders

II. NOSE AND PARANASAL SINUSES

MUST KNOW:

Basic Sciences:

1) Anatomy and physiology of the nose and paranasal sinuses including olfaction. Nasal cycle and nasal resistance

- 2) Viruses and bacteria causing acute and chronic rhinitis and sinusitis
- 3) Antibiotics used in acute and chronic sinusitis, nasal furunculosis
- 4) Mechanism of sinonasal allergy (basics)
- 5) Mucociliary clearance mechanism

Clinical Conditions:

- 1) Symptoms of nasal diseases; causes of nasal obstruction, and nasal discharge
- 2) Methods of examination of the nose and paranasal sinuses. Instruments used.
- 3) Diseases of the nasal septum: deviation of nasal septum and principles of Management
- 4) Types of Septal surgery- basics and instruments used
- 5) Diagnosis and management of nasal bone fracture
- 6) Epistaxis; anterior and posterior, common causes and emergency management
- 7) Foreign bodies in nose including Rhinolith.
- 8) CSF Rhinorrhoea: diagnosis and causes
- 9) Nasal allergy Diagnosis, evaluation and management, Vasomotor rhinitis
- 10) Nasal Polyposis; types and management.
- 11) Inflammation of the nose: Furunculosis of vestibule of the nose, acute rhinitis.
- 12) Inflammatory diseases of paranasal sinuses: acute and chronic maxillary sinusitis, frontal sinusitis, Ethmoidal sinusitis and complications of sinusitis.
- 13) Atrophic rhinitis,
- 14) Types of fungal sinusitis- invasive and non-invasive; Rhino cerebral Mucormycosisclinical features, diagnosis and management (Broad outline)
- 15) Nasal Septum Perforations, Septal haematoma and Septal Abscess.
- 16) Juvenile Nasopharyngeal Angiofibroma clinical features, diagnosis and management
- 17) Granulomatous diseases of the nose, Rhinoscleroma, Rhinosporidiosis
- 18) Rhinitis Medicamentosa
- 19) X-ray of paranasal sinuses and its indications
- 20) Rigid nasal endoscopy; basic steps and indications
- 21) Endoscopic sinus surgery(FESS): indications and basic steps and complications
- 22) Outline of management of benign tumors of nose and paranasal sinuses Inverted Papilloma & Osteoma
- 23) Outline of management of Malignant tumors of nose and paranasal sinuses Squamous cell carcinoma.
- 24) Nasal Myiasis
- 25) Caldwell Luc surgery

DESIRABLE TO KNOW:

- 1) Maxillectomy: indications and brief steps
- 2) Maxillofacial trauma types and management, blow out fracture
- 3) CT scan of paranasal sinuses basics
- 4) Tests for nasal allergy
- 5) Choanal Atresia
- 6) Mucocele of paranasal sinuses
- 7) Craniopharyngioma
- 8) Proptosis

NICE TO KNOW:

- 1) Rhinomonometry
- 2) Balloon sinuplasty
- 3) Navigation techniques
- 4) Endoscopic skull base surgeries (hypophysectomy, orbital decompression and optic nerve decompression)
- 5) Microdebrider uses
- 6) Endoscopic DCR
- 7) Septorhinoplasty

III. PHARYNX

MUST KNOW:

Basic Sciences:

- 1) Anatomy and physiology of the Oropharynx, Nasopharynx and Laryngopharynx
- 2) Commensals of the oral cavity and Oropharynx, Organisms causing acute and chronic tonsillitis.
- 3) Antibiotics used in acute and chronic tonsillitis

Clinical Conditions:

- Symptoms of diseases of Nasopharynx, Oropharynx and Laryngopharynx
 Methods of examination Nasopharynx Oropharynx and Laryngopharynx.
 Instruments used.
- 2) Diseases of the pharynx: adenoids including x rays; acute and chronic pharyngitis; Diphtheric pharyngitis;
- 3) Acute follicular tonsillitis and differential diagnosis of membranous tonsillitis: chronic tonsillitis; tonsillectomy and adenoidectomy indication; Peritonsillar abscess. Including instruments
- 4) Dysphagia including acid ingestion emergency management.
- 5) Ludwig's angina; causes, presentation and management
- 6) Premalignant lesions of the oral cavity and differential diagnosis of white patch over tonsil, Oral Candidiasis.
- 7) Acute and Chronic Retropharyngeal abscess
- 8) Plummer Vinson's syndrome
- 9) Laryngopharyngeal reflux
- 10) Snoring and obstructive sleep apnoea: basics
- 11) Stertor
- 12) Foreign body oesophagus
- 13) Dysphagia
- 14) Tongue tie
- 15) Nasopharyngeal carcinoma
- 16) Pharyngeal pouch

DESIRABLE TO KNOW:

1) Broad outline of management of malignant tumors of Oropharynx.

- 2) Submandibular gland sialolithiasis
- 3) 1st and 2ndbranchial arch anomalies
- 4) Eagles's syndrome
- 5) Lingual thyroid
- 6) Post Cricoid malignancy
- 7) Pan- endoscopy including laryngoscopy, bronchoscopy, oesophagoscopy
- 8) Polysomnography and UVPP
- 9) Corrosive Stricture Oesophagus.
- 10) Achalasia Cardia

NICE TO KNOW:

- 1) Oesophageal Diverticulum.
- 2) Drooling
- 3) Robotic surgeries,
- 4) Thyroid gland diseases
- 5) Salivary gland diseases
- 6) Functional evaluation of swallowing disorders
- 7) Parapharyngeal tumours

IV. LARYNX

MUST KNOW:

Basic sciences:

- 1) Anatomy and physiology of the larynx.
- 2) Organisms causing acute laryngotracheal bronchitis.

Clinical Conditions:

- 1) Symptoms of diseases of the larynx
- 2) Methods of examination of the larynx. Instruments used
- 3) Hoarseness of voice
- 4) Etiology and Management of Stridor in Children and Adults.
- 5) Paralysis of Vocal cords including bilateral abductor palsy.
- 6) Laryngocele
- 7) Puberphonia and functional aphonia
- 8) Inflammatory lesions of the larynx. eg: acute laryngitis, acute Epiglottitis
- 9) Vocal cord nodules, contact ulcer and polyps and Reinke's edema
- 10) Benign tumors of larynx (including Papilloma Larynx.)
- 11) Premalignant lesions of the Larynx.
- 12) Malignant tumors of larynx: etiology, clinical presentation, classification and broad management.
- 13) FB larynx, trachea and bronchus presentation and management.
- 14) Tracheostomy: Indications, techniques and complications. Types of Tracheostomy tubes.
- 15) Gastroesophageal reflux disease
- 16) X ray neck; views and indications
- 17) Flexible laryngoscopy; basic steps and indications.
- 18) Laryngomalacia

19) Microlaryngoscopy and surgery and direct laryngoscopy: Indications and basic steps. Including instruments.

DESIRABLE TO KNOW:

- 1) Tuberculosis of the larynx.
- 2) Basic speech disorders including stuttering
- 3) Cricothyrotomy
- 4) Subglottic stenosis, tracheal stenosis
- 5) Percutaneous dilatation Tracheostomy
- 6) Laser
- 7) Stuttering and stammering

NICE TO KNOW:

- 1) Laryngocele
- 2) Total laryngectomy; indications and steps
- 3) Post laryngectomy rehabilitation
- 4) Phonosurgery
- 5) Thyroplasty
- 6) Co- ablation, cryosurgery
- 7) Stroboscopy.

IV. HEAD AND NECK

MUST KNOW:

Basic Sciences:

Broad anatomy of neck nodes, levels or groups

Clinical Conditions:

- 1) TB of neck nodes: diagnosis and management.
- 2) Secondaries in the neck: common sites of primary, diagnosis and broad management.
- 3) Neck Space infections causes and management.

DESIRABLE TO KNOW:

- 1) Thyroglossal cyst, Sistrunk's operation
- 2) Neck dissection: basic types and indications

NICE TO KNOW:

1) Neck trauma

Practical syllabus

Includes attending out-patient department, observing the treatment protocol followed in the OPD by the consultants, Proper history taking & clinical examination of

patients and case presentation to the teaching faculty. They should maintain log book regarding the theory, clinical, ward and OT activities.

Must Know:

- 1. Use of head mirror.
- 2. Anterior Rhinoscopy.
- 3. Nasal airway patency tests.
- 4. Paranasal sinuses examination.
- 5. Use of tongue depressor and throat examination.
- 6. Neck node examination.
- 7. Use of Otoscope, Siegalisation.
- 8. Aural toileting.
- 9. Eliciting Mastoid tenderness.
- 10. Tuning Fork tests (Rinne, Weber & ABC).
- 11. Fistula Test.
- 12. Clinical examination of the Facial Nerve.

Desirable to Know:

- 1. Post nasal Examination.
- 2. Indirect Laryngoscopy.
- 3. Cranial Nerves Examination.
- 4. Bi-digital Palpation for Sub-mandibular Salivary gland.
- 5. Laryngeal Crepitus.

Nice to Know:

- 1. Vestibular Function Tests (Romberg, Tandem Walking)
- 2. Eustachian Tube Tests. (Valsalva)

Each student should present minimum 3 cases (Ear, Nose & Throat) in the clinical postings.

Long case:

- 1. Chronic suppurative otitis media mucosal disease
- 2. Chronic adenotonsillitis
- 3. Deviated nasal septum with sinusitis
- 4. Nasal polypi

Short cases:

- 1. Bilateral Ethmoidal polypi
- 2. Antrochoanal polyp
- 3. Atrophic rhinitis
- 4. Rhinosporidiosis
- 5. Facial palsy
- 6. Thyroglossal cyst

- 7. Tongue tie
- 8. Preauricular sinus
- 9. Deviated nasal septum

Observation in OPD:

- 1. Foreign Body removal in Ear, nose & throat.
- 2. Diagnostic Nasal Endoscopy.
- 3. Videolaryngoscopy.
- 4. Anterior nasal packing.
- 5. Cautery for Epistaxis.
- 6. Caloric Tests.
- 7. Positional Tests and Epley's manoeuvre.
- 8. Pure tone Audiogram and Tympanometry and OtoAcoustic Emissions.

Observation in the Ward:

- 1. Ward rounds and case discussion.
- 2. Tracheostomy care.
- 3. Mastoid dressing.
- 4. Post-laryngectomy rehabilitation.
- 5. Nasal Douching.

Observation in the OT:

Observe the following surgeries.

Must Observe:

- 1. Adenoidectomy and tonsillectomy.
- 2. Septal Correction. (SMR & Septoplasty.)
- 3. Myringotomy and Grommet insertion.
- 4. Myringoplasty.
- 5. Cortical Mastoidectomy and Tympanoplasty.
- 6. Endoscopic Nasal Polypectomy.
- 7. Functional Endoscopic Sinus Surgery.
- 8. Tongue tie release.
- 9. Tracheostomy.

Desirable to observe:

- 1. Modified Radical Mastoidectomy and Tympanoplasty.
- 2. Stapedectomy.
- 3. Micro-laryngeal Surgeries.
- 4. Pre-auricular sinus excision.
- 5. Thyroglossal cyst excision Sistrunk Procedure.
- 6. Young 's operation.

Nice to observe:

- 1. Thyroidectomy.
- 2. Total Laryngectomy.
- 3. Total Maxillectomy.

Reference learning resources

- 1. <u>Diseases of ear, nose and throat-Dhingra current edition</u>
- 2. Short practice of Otolaryngology-Prof. KK Ramalingam
- 3. <u>Logan Turner-Otolaryngology</u>
- 4. Diseases of ear, nose throat- Mohan Bansal
- 5. Textbook of ear nose and throat –SS Tuli
- 6. Textbook of ear, nose and throat and head and neck surgery- Hazarika
- 7. Scott Brown Otolaryngology, 7th edition

Theory examination

1. Essay 1 x 10 marks = 10 marks 2. Brief Answers 5 x 4 marks = 20 marks 3. Short Notes 5 x 2 marks = 10 marks

Total marks = 40 marks

Practical Examination

Long case: 1 30 minutes 15 marks Short case: 2 30 minutes 10 marks

OSCE: 5 stations one mark each 5 marks (3 minutes per station : total 15 minutes.)

Total 30 marks

Viva : 10 marks (Radiology, Instruments, Specimen, Operative surgery)

Internal Assessment : 20 marks (Theory 10, Practical 5 + Log Book 5)

VIVA:

- 1. Radiology including X-ray and CT images, contrast radiology on various ENT disorders.
- 2. Common instruments used in otolaryngology:

OPD instruments

Tonsillectomy and adenoidectomy instruments

Mastoidectomy instruments

Tracheostomy instruments

Septal surgery instruments

FESS instruments

Rigid Bronchoscope

Rigid Oesophagoscope

Direct laryngoscope

- 3. Specimens: Laryngectomy specimen, Maxillectomy specimen & Thyroidectomy specimen.
- 4. Operative Surgery: Common ENT Surgeries.

OSCE:

Observer station (ENT Clinical Examination, Tuning Fork Tests, Neck Swelling etc...), Recent advances, Investigation chart (Audiograms), Osteology, Microbiology & Pathology slides

- 1. Microbiology slides (streptococci, staphylococci, pneumococci, mycobacterium tuberculi
- 2. Pathology slides: Inverted papilloma, squamous cell carcinoma, rhinosporidiosis, Juvenile nasopharyngeal angiofibroma
- 3. Osteology: Temporal bone, Base of Skull.

FORMATIVE ASSESSMENT

Should be submitted at the end of the posting.

Clinical posting	Written test	Practical Test
Fourth Semester	Two:	One: Case
	1. Surgical Anatomy of ear nose &throat.	Presentation
	2. Basic ENT clinical examination.	
Sixth Semester	Three: Common Diseases and Their Management	One: include
	in:	Presentation of 1
	1. Nose	Long case & 2 Short
	2. Throat	cases + OSCE.
	3. Ear.	

Theory: (Pre-final Postings)

Unit –I: Diseases of the Nose & Paranasal Sinuses and their management.

Unit – II: Diseases of the Throat & Neck and their management.

Unit – III: Diseases of the Ear and their management.

Unit - IV: Model Theory Examination of entire syllabus including recent advances.

INTERNAL ASSESSMENT TEST

Practical examination should be held at the end of the final posting. 1 long case and 2 short cases including OSCE.

Theory exam (Unit IV) should be based on integrated lectures and short lectures and held at the end of the teaching schedule.

OSCE and viva should be held at the end of each clinical posting

MEDICAL ETHICS

The formal medical ethics class should be attended by all MBBS students as per general curriculum. The introductory class in ENT should address medical ethics and code of conduct in the classrooms and clinics.

INTEGRATED TEACHING

As per "C"

RECORD / LOG BOOK

This should be followed as recommended by the University. This will ensure uniformity among various colleges and hence better to standardise.

CRRI Orientation

Common CRRI orientation programme at the beginning of the CRRI posting where ENT is specifically addressed to 1. Examine and diagnose common ENT problems 2. To assist and carry out minor surgical procedures like ear syringing, dressing, nasal packing etc, 3. To assist emergency ENT surgeries such as Tracheostomy, endoscopies and removal of foreign bodies.

ENT LOG BOOK

Contents

SL. NO.	CONTENTS	PAGE NO.	No. Achieved
1	Particulars of the student	1	
2	Statement on the clinical postings of the students	2	
3	Introduction to ENT	3	
4	Integrated Lectures ENT posting	4	
5	Short lectures during 1st ENT posting	5-6	
6	Operative procedure lectures during 1st ENT posting	7-8	
7	OPD cases worked up 1st ENT posting	9-10	
8	Anterior Rhinoscopic Examinations done	11-12	
9	Oral Examinations done	12-13	
10	Rigid nasal endoscopy procedures observed	14	
11	OPD cases worked up 1st ENT posting	15-17	
12	Ward cases worked up 1st ENT posting	18	
13	OPD/Treatment room procedures observed	19	
14	Operation Theatre procedures observed	20-221	
15	Emergency procedures observed	22	
16	Audiology Lab procedures observed	23	
17	Radiological images seen and discussed	24-25	
18	ENT Instruments seen and discussed	26-27	
19	Case history	28-39	
20	Seminars	40	
21	Participation in other Competitive examination(s) or any	41	

	other academic activities	
	like quiz etc., at colleges /	
	inter colleges level	
	(Optional)	
22	Participation in research	
	activities, CMEs / Guest	
	Lectures, conferences	
	etc., (Optional)	
23	Academic awards /	
	achievements received	
24	Participation in out reach	
	activities	
25	Details of leave taken	
26	Any other as desired and	
	approved by the unit	
	chief/ Prof. and Head or	
	Dean/University	

1.Particulars of the student: Name: University Registration No.: Mobile No.: Email ID: Photo attested by Unit Chief with seal. Particulars of Mentor/ Faculty in-charge Name: Designation: Mobile No.: Email ID: Statement for Total Number of Pages in this Log Book This log book caries _____pages and the pages are serially numbered Signature of Asst. Professor Signature of Unit Head Name: Name: Date: Date:

BONAFIDE CERTIFICATE

This is to certify that this log book is the Bonafide record of		
whose particulars along with photo is given above.		
Signature of HOU with seal	Signature of HOD with seal	
Name:	Name:	
Date:	Date:	
Approval of examiners:		
Internal	External	
1.	1.	
2.	2.	
-/-//-/-/-/-/-/-/-		

2. Statement on the clinical postings of the students

3.Introduction to ENT

Category	Date	Name of the teacher
Introduction to		
ENT		
History Taking		
Examination of		
Ear		
Examination of		
Nose		
Examination of		
Throat		

4.Integrated Lectures

Date	Topic	Teacher

5.Short lectures during 1st ENT posting

Short lectures during IInd ENT posting

Date	Short lecture topics	Teacher

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6.Operative procedure lectures during 1st ENT posting

Date	Operative procedure	Teacher
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7.OPD cases worked up 1st ENT posting

Date	Name of	Age/Sex	Hospital No.	Diagnosis	Presented to/
	patient				Discussed with:
Name of Supervisor: Signature:					
Date:					

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8. Anterior Rhinoscopic Examinations done:

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Diagram

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9. Oral Examinations done:

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Diagram
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9. Otological Examinations done:

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Diagram

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10. Rigid nasal endoscopy / video laryngoscopy procedures observed

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Signature of Teacher

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11. OPD cases worked up IInd ENT posting

Date	Name of	Age/Sex	Hospital No.	Diagnosis	Presented to/		
	patient				Discussed with:		
Name of Supervisor:				Signature:			
Date:							

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12.Ward cases worked up IInd ENT posting

Date	Name of	Age/Sex	Hospital No.	Diagnosis	Presented to/
	patient				Discussed with:
Name of Supervisor: Signature:					
Date:					

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13. OPD/Treatment room procedures observed:

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Procedure Observed

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14. Operation Theatre procedures observed

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Procedure Observed

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15. Emergency procedures observed

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Procedure Observed

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16. Audiology Lab procedures observed:

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Procedure Observed
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17. Radiological images seen and discussed:

Date	Patient name	Age/Sex	Hospital No.	Diagnosis	Radiological Image seen

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18. ENT Instruments seen and discussed:

Date	Instrument name	Uses	Signature of Teacher
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Case No. :		Date:
Name of Patient:	Age/Sex	Hospital No.
Occupation:	Address:	
History:		
Presenting Complaints:		
History of presenting Complaints:		
Doct History		
Past History:		

Medical History:		
Treatment History:		
Surgical History:		
Personal and Allergic History:		
Family History:		
Others:		

Physical Examination:

General Examination:
Examination of Ears:
Examination of Nose:
Examination of Oral cavity:
Examination of Neck:

Summary:	
Diagnosis:	
Management Plan:	
Wanagement Flam.	
Signature of Teacher:	
Name of Teacher:	
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CASE HISTORY

Case No. :		Date:
Name of Patient:	Age/Sex	Hospital No.
Occupation:	Address:	
History:		
Presenting Complaints:		
History of presenting Complaints:		
Past History:		

Medical History:
Treatment History:
Surgical History:
Personal and Allergic History:
Family History:
Others:

Physical Examination:
General Examination:
Examination of Ears:
Examination of Nose:
Examination of Nose.
Examination of Oral cavity:
Examination of Neck:

Summary:
Diagnosis:
Management Plan:
Signature of Teacher:
Name of Teacher:
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CASE HISTORY

Case No. :		Date:
Name of Patient:	Age/Sex	Hospital No.
Occupation:	Address:	
History:		
Presenting Complaints:		
History of presenting Complaints:		
Past History:		

Medical History:
Treatment History:
Surgical History:
Personal and Allergic History:
Family History:
Others:

Physical Examination:
General Examination:
Examination of Ears:
Examination of Nose:
Examination of Nose.
Examination of Oral cavity:
Examination of Neck:

Summary:		
Diagnosis:		
Management Plan:		
Signature of Teacher:		
Name of Teacher:	=/=/=/=/=/=/=/	

20. Seminars in ENT

Date	Topic	Presented/Attended	Teacher
Name o	f Supervisor:	Signat	ure:
Date:			

OTHERS

21.	Participation in other Competitive	
	examination(s) or any other academic	
	activities like quiz etc., at colleges / inter	
	colleges level (Optional)	
22.	Participation in research activities, CMEs /	
	Guest Lectures, conferences etc.,	
	(Optional)	
23.	Academic awards / achievements received	
24.	Participation in out reach activities	
25.	Details of leave taken	
26.	Any other as desired and approved by the	
	unit chief/ Prof. and Head or Dean/University	

COMMUNITY MEDICINE

GOAL

The broad goal of teaching in Community Medicine is to prepare the student to function effectively as a community physician and an efficient public health leader.

OBJECTIVES

At the end of the course, the student should be able to:

- 1. Understand the concepts of health and disease describe the levels of prevention and modes of intervention.
- 2. Describe the epidemiological methods and apply appropriate epidemiological methods to study and manage communicable and non-communicable diseases in the hospital and community situations.
- 3. Define vital statistics and describe the various methods that are used to collect data, apply bio-statistical methods and techniques to make inferences and describe the health information systems.
- 4. Outline the demographic pattern of the country and appreciate the roles of the individual, family, community and socio-cultural milieu in health and disease.
- 5. Diagnose and manage maternal and child health problems and advise couples and the community on the family planning methods available.
- 6. Describe the methods of nutritional assessment to diagnose and manage common nutritional problems at the individual and community levels.

- 7. Enunciate the principles and elements of primary health care, describe the organization and functions of the health care team at Primary Health Centre, Community Health Centre and District levels.
- 8. Describe and evaluate the various National Health Programmes with particular emphasis on maternal and child health programmes, family welfare and population control, communicable and non communicable disease prevention and its implementation in the community.
- 9. Describe the importance of water and sanitation in human health; identify and investigate the environmental and occupational hazards, disaster, disease outbreak and apply management techniques for their control.
- 10. Describe the principles and practice of health education and to apply appropriate communication skills to bring about behavioural change in the community.
- 11. Capacity to plan and implement the measures for disaster.

TEACHING HOURS

I MBBS

- (i) Theory, Seminars, Practicals 30 Hours (2 hours /week for 1st 15 weeks)
- (ii) Visits to Institutions of Health* 30 Hours (Field Visit 6 hrs /day /month in 5 months)

II MBBS

- i. Theory 56 hours (1 hour/week)
- ii. Practicals* 144 hours (in two Block postings(each for 72 hours in 4 weeks in 3rd and 4th semester)

Final MBBS Part 1

- i. Theory -50 hours
- ii. Practicals * 72 hours(Block Posting for 4 weeks in the 6th semester)

^{*} Includes Block Postings, Field Visits, Demonstrations, Family Care Study, School Health and Problem Solving Exercises

TEACHING SYLLABUS

TOPIC	MUST KNOW	DESIRABLE TO KNOW	NICE TO KNOW
CONCEPT OF HEALTH AND DISEASE	 Definition of health. Concept of wellbeing. Dimensions and determinants of wellbeing. Indicators of health. Spectrum of health. Levels of Health care. Concepts of causation, prevention and control of diseases. Natural history of diseases. Modes of Intervention. 	 Changing pattern of disease. Disease classification. Changing concepts of health. Hospital and community. Health service philosophies. 	 Ecology of health. Right to health. Responsibility for health. Population medicine.
PRINCIPLES OF EPIDEMIOLOGY	 Definition, Aims, uses and Basic measurements in Epidemiology.International death certification. Incidence and Prevalence of diseases. Epidemiologicalmethods. Association and causation. Infectious disease epidemiology. Diseases prevention and control. Investigating an epidemic. Immunization concept and schedule. Cold chain and vaccine vial monitor. Adverse events following immunization and investigating it. 	 Additional criteria for judging causality. Emporiatrics. Immunizing agents. Disinfection. 	1. Standardization of rates
SCREENING FOR DISEASE EPIDEMIOLOGY	Concept, Aims, uses, types and criteria for screening, validity of Screening tests. Epidemiology, clinical features prevention, control and treatment of the control and the control an	Combined tests. 1. Communicable diseases. (SAPS meningacoccal	 Problem of borderline. Evaluation of screening programes. Communicable diseases
OF	prevention, control and treatment of:	(SARS, meningococcal	diseases

TEACHING LEARNING METHODS TO BE ADOPTED IN COMMUNITY MEDICINE

- 1. Lecture 64hours
- 2. Seminar-30hours
- 3. Symposium-30hours
- 4. Group discussion-20 hours
- 5. Guest lectures-20 hours
- 6. Project work -30hours
- 7. Problem based learning -20hours
- 8. Demonstration -40hours
- 9. Field visits -90 hours
- 10. Integrated teaching classes with Medicine, OG, Pediatrics, Dermato-Venereology,

Microbiology - 40hours

PHASE 1: Ist MBBS

Objectives	Content (topics)	Method of teaching & Duration	
		Theory	Practical
a) KNOWLEDGE			
The student shall be able to:			
1. Introduction to the evolution of	History of Medicine and evolution	Lectures/seminar/	
Community Medicine ,Health	of Community Medicine	group discussion	
Definition and factors affecting it	History of public Health in India		
	 Changing concepts in Public 	5 hours	
	Health		
	• Definition of health.		
	 Concept of wellbeing. 		
	 Dimensions and determinants of 		
	wellbeing.		

	Indicators of health.		
	• Spectrum of health.		
2. Describe the health care	Primary health care-	Lectures /Seminars/	Visit to
delivery system	• Levels of health care-	Group Discussion	PHC/Subcentre
	Health care delivery system	3 hours	6hours
3. The demographic pattern of the	Demographic cycle and demographic	Lectures	
country and the roles of the	gap, demographic trends - sex ratio	/Seminars/Group	
individual, family, community and	-Role of family in health and disease	Discussion	
socio-cultural milieu in health and	-Cultural factors in health and		
disease.	disease		
	-Socioeconomic status scales	4 hours	
	-Fertility and factors affecting it		
	-Family welfare and population		
	control		
4. Social factors related to health,	Principles of sociology	Lectures/seminar/gr	Community visit
disease and disability in the	Social and cultural factors in health,	oup discussion	
context of urban and rural	disease and disability		
societies;		4 hours	4 hours
5. Appreciate the impact of	Impact of urbanization on health	Lectures/seminar/gr	Visit to UHC
urbanization on health and	and disease	oup discussion	
disease;		2 hours	4 hours
6. Observe and interpret the			Community visit
dynamics of community behavior;			4 hours
7. Describe the elements of normal	1. Elements of normal psychology	Lectures/seminar/gr	
psychology and social psychology;	and social psychology 2. Group behavior, Motivation	oup discussion	
	personality	4 hours	
	3. Learning and types	1 110415	
	4. Personality and development		
	Intelligence and mental age.		
8. The principles of practice of	Hospital sociology	Lectures/seminar/gr	Visit to community
medicine in hospital and	Art of interviewing	oup discussion	and hospital
community Setting including	Doctor patient relationship		
Medical ethics	Ethics in medical practice	2 hours	4 hours

9.Health education	5. Communication process. Types	of Lectures/seminar/	Visit to PHC/ Sub
	communication.	group discussion	centre/
	6. Barriers of communication.	2 hours	Community
	7. Health education-		
	Approach, models, contents,		4 hours
	principles of health education.		- Hours
	8. Various methods of health		
	education.		
10. Nutrition and health	8. Nutrients - Classification, dietary	y Lectures/seminar/gr	Visit to PHC/ Sub
	sources, requirements	oup discussion	centre/
	9. Various form of deficiency of		Community
	nutrients	3 hours	
	10. Diet planning and Recommended	d	4 hours
	dietary allowances		
	11.Balanced diet		
	12. Nutritional problems in India		
	13. Assessment of nutritional status		
44 77 11	14. Toxins in the food		
11. Health economics	Introduction to Health economic		
D) 01 111		1 hour	
B). Skills			
At the end of the course, the studen	it should be able to make use of:		* ** · · ·
1. Principles of practice of			Visit to community
medicine in hospital and			and hospital
community settings and			
familiarization with elementary			
nursing practices.			
2. Art of communication with			Interaction with
patients including history			patients in hospital
taking and Medico-social work			and community
INTERGRATION	-	Departments	
1. Describe the elements of	1. Elements of normal	Community Medicine,	
normal psychology and	psychology and social	Psychiatry	
social psychology;	psychology		

	2. Learning and types	
	3. Personality and development	
	4. Intelligence and mental age.	
2. Hospital organization	1. Administrative structure of	Community Medicine,
	the hospital	Resident Medical officer,
	2. Functioning of the hospital	Nursing Superintend
	3. Job responsibilities o Health	
	personnel	

PHASE II: IInd MBBS (3rd and 4th semester)

Objectives	Content (topics)	Method of teaching		
		Theory	Practical	
1. CONCEPT OF HEALTH	Concepts of causation, prevention and	Lectures/seminar/group		
AND DISEASE	control of diseases.	discussion		
	Natural history of diseases.			
	Epidemiological triad	3 hours		
	Dynamics of Disease transmission			
	Modes of Intervention. Changing			
	pattern of disease.			
	Disease classification.			
	Changing concepts of health.			
2. EPIDEMIOLOGY AND	Definition, Aims, uses and Basic	Lectures/seminar/group	Solving various	
ITS PRINCIPLES	measurements in	discussion	models of	
	Epidemiology.International death		exercises/ writing	
	certification.	10 hours	the protocol	
	• Incidence and Prevalence of diseases.		research methods	
	Epidemiological methods.			
	Association and causation. Additional		15 hours	
	criteria for judging causality.			
	Immunizing agents.			
	Disinfection			

	• Infectious discoss enidemialem:		1
	Infectious disease epidemiology.Diseases prevention and control.		Visit to CSSD
	Diseases prevention and control.Investigating an epidemic.		VISIL TO COOD
	• Immunization concept and schedule.		2 hours
	Cold chain and vaccine vial monitor.		
	Adverse events following immunization		
	and investigating it.		
	Emporiatrics		
3. SCREENING FOR	3. Concept, aim, uses, types and criteria	Lectures/seminar/group	Solving exercises
DISEASE	for screening,	discussion	
	4. Validity of Screening tests.	2 hours	3 hours
4.ENVIRONMENTAL	3. Water- sources, requirements,	Lectures/seminar/group	Visit to
HEALTH	purification, disinfection,	discussion	• Water treatment
	4. Water pollution and water related		plant
	diseases.	12hours	• Milk Diary
	5. Quality- criteria and standards,		• Sewage and
	survillance and distribution.		solid waste
	6. Hardness of water and its removal		 Water analysis
	7. Swimming pool sanitation		lab
	8. Air-Comfort. Sources, effects,		• Food analysis
	prevention of air pollution.		lab
	9. Monitoring of air pollution		Metereriological
	10. Requirements of good lighting, biologic		
	effects of light.		department
	11. Noise – community noise level,		• Community
	12. Effects of noise exposure and its		Team activities
	control		
	13. Heat stress indices.		24 hours
	14. Effects of heat and cold stress.		
	15. Effects of Radiation on human health		
	16. Social goals of housing.		
	17. Housing standards-		
	18. Rural and urban standards and		
	overcrowding.		
	19. Methods of solid waste disposal		
	20. Methods of sewage disposal		

5.MEDICAL ENTOMOLOGY	 Entomology – public health importance and control of: Mosquitoes House flies Lice Fleas Itch mite Ticks and mites Principles of arthropod control Integrated vector control 	Lectures/seminar/group discussion 5 hours	Visit to Central Malaria laboratory Visit to PHC/UHC to know about vector control activities
	Climate change and health		
6.BASIC MEDICAL STATISTICS INCLUDING RESEARCH ETHICS	 Definition of data, Information and intelligence Sources and uses of health 	Lectures/seminar/group discussion	Solving exercises 10 hours
	information 3. Collection and representation of data,	8 hours	
	Data types, Sampling methods. 4. Elementary statistical methods 5. Measures of central tendency and		
	dispersion. 6. Tests of significance 7. Ethics in Research		
7.EPIDEMIOLOGY OF	Epidemiology, clinical features	Lectures/seminar/group	Visit to Infectious
COMMUNICABLE	prevention, control and treatment of:	discussion	disease hospital/
DISEASES.	1. Respiratory infections(chicken pox,		TB sanatorium
	measles, mumps, rubella, influenza,	16 hours	
	diphtheria, whooping cough, ARI, TB,) 2. Intestinal infections(polio, hepatitis,		8 hours
	ADD, Cholera, Typhoid, Food		Clinico Social Case
	poisoning, amoebiasis, ascariasis,		Discussion with
	hook worm)		related to the
	3. Arthropod-borne infections(Dengue,		communicable
	Malaria, Filariasis) 4. Zoonoses(Rabies, Yellow fever, JE,		diseases (Factors
	KFD, chikungunya, Leptospirosis,		predisposing like

Plag	gue)	vector,environment
1	face infections (all) Communicable	nutrition, family,
dise	eases.(SARS, meningococcal	society, heath care
mer	ningitis, Brucellosis, Salmonellosis,	system, levels of
Leis	shmaniasis)	prevention etc)
	erging and reemerging diseases.	76 hours
	ocomial infections.	
	i microbial resistance	
	dication of diseases like smallpox,	
	nea worm, Polio ional Health Programmes	
	BDCP, NLEP, RNTCP, NACP, NPCB,	
	, IDD, NHM, NPCDCS, national	
	er supply and sanitation	
	gramme.)	
1 1 2 3	versal precautions.	
B) SKILLS		
At the end of the course, the studen	at should be able to :-	
(1) Use epidemiology as a scientific		Epidemiologic
tool to make rational decisions	epidemiology	exercises
relevant to community and		
individual patient intervention.		
(2) Collect, analyse, interpret and	-Community diagnosis	II year posting
present simple community and	-Research projects	-Community
hospital based data.		survey
(3) Diagnose and manage common	-Clinico social case Study	II year posting
health problems and emergencies	-Family health appraisal	
at the individual, family and	-Community survey	
community levels keeping in mind		
the existing health care resources		
and in the context of the		
prevailing socio-cultural beliefs.		

C). INTEGRATION ;						
Develop capabilities of synthesi	s between cause o	of illness in	the enviro	nment or comm	nunity and i	ndividual health and
respond with leadership qualities	es to institute reme	edial measu	res for this	3.		
	Topics			Deaprtments		
Communicable Diseases	Communicable	diseases	covered	Community	Medicine,	
	under national he	ealth progra	amme,	Pediatrics,	Medicine,	
				Venerology, M	licrobiology	

PHASE III: IIIrd MBBS

1.DEMOGRAPHY AND	7. Eligible couple, target couple,	Lectures/seminar/group	Solving exercises
FAMILY PLANNING	couple protection rate, Family	discussion	2 hours
	planning methods available in		
	Public health sector, MTP	2 hours	
	methods and Act,		
	8. Pearl index,		
	9. Unmet need for family planning,		
	10.Community needs assessment		
	approach		
	11.National family welfare		
	programme		
2.SOCIAL OBSTETRICS	4. Ante-natal care – Objectives,	Lectures/seminar/group	Visit to PHC/ UHC
	visits, history taking and	discussion	
	examination, antenatal		3 hours
	investigation, Nutritional services,	10 hours	
	Immunization services, IFA		Clinico-Social Case
	supplementation, Health		Discussion
	education, Specific health		
	protection, Risk approach		
	5. Intranatal care – Objectives,		14 hours

Prevention of infection, Danger signals, Rooming in	
Signals, Nouthing in	
6. Postnatal care – Objectives, advice	
during PN care , PN visits, Breast	
feeding – checking for adequacy	
3.SOCIAL PAEDIATRICS 1. Neonatal care-Early neonatal care, Lectures/seminar/group Visit to ICI	<mark>)S</mark>
Objectives, Immediate care, discussion	
Neonatal examination, Low birth 3 hours	
weight 10 hours	
2. Feeding of infants – Breastfeeding Clinico Soc	cial Case
3. Growth monitoring and growth Discussion	
chart	
4. MCH indicators	
5. RCH	
6. IMNCI	
7. RMNCH+A	
8. ICDS	
9. BFHI	
10. School health services	
11. Gender bias	20
4.NUTRITION AND HEALTH 1. Protein Energy Malnutrition Lectures/seminar/group Visit to ICI	
2. Nutritional problems in India discussion Clinico Social discussion Discussion	
4 Community nutrition	
programmes. 5 hours	
5. Food safety and standards act	
6. Methods of dietary survey 3 hours	
5.EPIDEMIOLOGY OF NON Epidemiology, clinical features Lectures/seminar/group Visit to NC	<mark>D clinic</mark>
COMMUNICABLE DISEASES prevention, control and treatment of discussion 2 hours	
Hypertension , obesity	
• Diabetes 5 hours Clinico Soc	cial Case
• Cancer Discussion	l
Road traffic accidents	
Coronary, cardiovascular 8 hours	
diseases	

	Rheumatic heart diseaseBlindness		
6.HEALTH CARE OF COMMUNITY.	 Health care- Concept, Levels, changing concepts. 	Lectures/seminar/group discussion	
	 3. Primary health care. 4. Health for All. 5. Health care systems. 6. Job responsibilities of various health personnel 	2 hours	
7.OTHER SPECIAL GROUPS	5. Tribal health	Lectures/seminar/group	Visit to Institute of
7.0111ER SI EONIE GROOTS	6. Adolescent health	discussion	Rehabilitation
	7. Person with disabilities	discussion	Remabilitation
	8. Community based rehabilitation	2 hours	3 hours
8.COMMUNITY GERIATRICS	2. Health problems of the elderly	Lectures/seminar/group	Clinico Social Case
	3. Risk reduction of elderly	discussion	Discussion
			2 hours
		1 hours	
9.OCCUPATINAL HEALTH	7. Ergonomics,	Lectures/seminar/group	Visit to industry
	8. Occupational hazards, diseases	discussion	
	and prevention of occupational		3 hours
	diseases.	3 hours	
	9. Measures of health protection of		
	workers. 10. Health problems due to		
	industrialization.		
	11. Accidents, sickness absenteeism.		
	12.ESI Act		
10.GENETICS AND HEALTH	3. Population genetics	Lectures/seminar/group	
	4. Prevention and social control	discussion	
	measures of genetic problems.		
	5. Role of genetic predisposition in	1 hours	
	common disorders		
11.INTERNATIONAL	1. WHO, UNICEF, International	Lectures/seminar/group	

HEALTH	health regulations. 2. Redcross society, UN, NGO, Health work of bilateral agencies	discussion 1 hours	
12.DISASTER	5. Definition, types of disaster.	Lectures/seminar/group	Mock up exercise
MANAGEMENT	6. Principles and elements of	discussion	1 hours
	disaster management.		
	7. Health problems during disaster.	1 hours	
	8. Public health aspects of disaster		
13. HOSPITAL WASTE	management. 3. Definition, sources, classification,	Loctures / sominor / group	Visit to Bio medical
MANAGEMENT		Lectures/seminar/group discussion	
MANAGEMENT	generation, segregation, hazards	discussion	waste management 2 hours
	and disposal of health care	0.1	
	wastes. 4. Categories ,colour coding and	2 hours	Demonstration and
	containers used in biomedical		other skills in
			BMWM
14 11041 011 11100014 0101	waste management.	Tankana /	2 hours
14.HEALTH INFORMATION	1. Definition of data, Information	Lectures/seminar/group	Visit to birth and
AND VITAL STATISTICS	and intelligence 2. Sources and uses of health	discussion	Death registrar
	information		officer
	3. Components and requirements of	2 hours	3 hours
	HMIS		
	4. Vital statistics		
	5. Census, Birth and Death		
	registration, Fertility statistics		
15.HEALTH MANAGEMENT	1. Health planning, Planning cycle.	Lectures/seminar/group	
	2. National health policies.	discussion	
	3. Millennium Development Goals		
	4. Sustainable Development Goals	2 hours	
	5. Health Planning in India.		
	6. Health system in India.		
	7. Health management methods and		
	techniques		

	8. Health committees and Five year plans		
16.MENTAL HEALTH	4. Warning signs of mental illness,	Lectures	Visit to Institute of
	Types, causes and prevention of		Mental health
	mental illness. Drug abuse,	1 hours	
	dependence, addiction-		3 hours
	definitions. 5. Alcoholism.		
	6. Drug dependence		
	7. National Mental health		
	programme		
	8. Mental health services.		
17.HEALTH ECONOMICS,	Definition of Health Economics	Lectures	
HEALTH ADMINISTRATION,	Various methods of analysis based on	1 hours	
	health economics		
18.MEDICAL ETHICS	8. Professional conduct	Lectures	
	9. Consent	1 hours	
	10. Professional secrecy and privileged communication		
	11.Research ethics		
	12. Health education ethics		
	12/11002011 0440001011 0421100		
B) SKILLS			
At the end of the course, the stu	adent should be able to :-		
1.Diagnose and manage	-Clinico social case Study		
common health problems and	-Family health appraisal		
emergencies at the individual,	-Community survey		
family and community levels			
keeping in mind the existing			
health care resources and in			
the context of the prevailing			
socio-cultural beliefs.			
2. Diagnose and manage	Clinico social case Study		
maternal and child health	-Family health appraisal		

problems and advise a couple	
and the community on the	
family planning methods	
available in the context of the	
national priorities.	
3.Diagnose and manage	Clinico social case Study
common nutritional problems	-Family health appraisal
at the individual and	
community level.	
4.Interact with other members	Visit to PHC and sub centre
of the health care team and	
participate in the organization	
of health care services and	
implementations of national	
health programmes.	

C). INTEGRATION;

Develop capabilities of synthesis between cause of illness in the environment or community and individual health and respond with leadership qualities to institute remedial measures

	Topics	Departments	
1. To understand the family/	1.Family health appraisal –	Community Medicine,	III year posting
society	Community Survey	Pediatrics, Obstetrics,	
		Medicine	
2. Social Pediatrics and	1. Nutritional assessment	Community Medicine,	
Nutrition	2. Nutritional disorders of the	Pediatrics,	
	child		
	3. Management of sick child and		
	infant		
	4. Measures to reduce Infant		
	Mortality		
	5. Immunization, AEFI		

3. Non Communicable and Communicable Diseases	Non Communicable diseases covered under national health programme,	Community Medicine, Pediatrics, , Medicine,
4. Social Obstetrics	 Care of antenatal women Measures to reduce the maternal mortality 	Community Medicine, Obstetrics,
5. National Mental Health Programme	Objectives and goals of National Mental Health programme, implementation Alhocolism and its dependance	Community Medicine, Psychiatry

PRACTICAL SKILLS TO BE ACQUIRED

AT THE END OF THE COURSE

At the end of the year, the student should be able to:

I MBBS

FIELD VISITS

- 1. Sub centre
 - a. Administration setup
 - b. Job Responsibilities
 - c. Registers
 - d. Inventory maintenance
- 2. Primary Health Centre
 - a. Administration setup
 - b. Job Responsibilities
 - c. Registers
 - d. Inventory maintenance
- 3. Cold chain system
 - a. Inventory of vaccines
 - b. Storage and pattern of utilization of vaccine
 - c. Registers
 - d. Adverse events following immunization
- 4. Taluk hospital
 - a. Administration setup
 - b. Job Responsibilities
 - c. Registers
 - d. Inventory maintenance
- 5. District hospital
 - a. Administration setup
 - b. Job Responsibilities
 - c. Registers

- d. Inventory maintenance
- 6. Urban Health Post
 - a. Administration setup
 - b. Job Responsibilities
 - c. Registers
 - d. Inventory maintenance
- 7. ICDS centre
 - a. Job responsibilities of the personnel
 - b. Beneficiaries and benefits
- 8. Visit to the Tertiary hospital
 - a. Administration setup
 - b. Job Responsibilities

PRACTICAL SKILLS

- 1. Advise the mother on exclusive breast feeding practice
- 2. Advise on immunization schedule for the child

II MBBS (3 & 4 SEMESTER)

FIELD VISITS

- 1. Water treatment plant
 - a. Sources of water
 - b. Various method in water treatment like sedimentation, flocullation, chlorination etc.
 - c. The method of distribution of water to public
- 2. Sewage treatment plant
 - a. Sources of Sewage
 - b. Various method in sewage treatment
 - c. The method of distribution of effluent
- 3. Solid waste management
 - a. Sources of solid waste
 - b. Segregation of solid waste
 - c. Various methods in solid waste treatment
 - d. The method of disposal
- 4. ICDS centre
 - a. Job responsibilities of the personnel
 - b. Beneficiaries and benefits
- 5. Slaughter house
 - a. Types of animal
 - b. Sanitation measures
 - c. Disposal of waste
- 6. Milk Diary
 - a. Collection, pasteurization, packaging and dispersion of milk
 - b. Estimation of milk quality standards
 - c. Adulteration of milk
 - d. Maintenance of safety of milk and milk products
- 9. Cold chain system
 - a. Inventory of vaccines
 - b. Storage and pattern of utilization of vaccine
 - c. Registers
 - d. Adverse events following immunization

- 10. Water & Food analysis Laboratory
 - a. Water and food analysis parameters
 - b. Standards of water quality
 - c. Find out food adulteration
- 11. Institute/Department of Mental Health
 - a. Common mental health illness
 - b. Factors contributing
- 12. Institute of Rehabilitation
 - a. Various types and mode of rehabilitation
 - b. Pattern of people utilizing the centre
- 13. Community survey to identify the prevailing health problems
 - a. To collect the data on prevailing problems
 - b. Calculate the various indicators
 - c. Interpretation of the health problems
 - d. Suggesting the solution
- 14. Vector control measures in a PHC
 - a. Various vector control measures adopted in the PHC
- 15. TNMSC -Drug warehouse—inventory management
 - a. Inventory management of the drug and surgical items
- 16. Meterology department
 - a. Monitoring and usage of various meteorological parameters
 - b. Usage of various meteorological instruments
- 17. Home for aged
 - a. Common geriatric problems, social factors
- 18. DE addiction centre
 - a. Types of various therpy offered in the centre
- 19. Prison
 - a. Prisoners health
- 20. Borstal
 - a. Health and social problems of the inmate

- 1. Advise a mother on proper nutrition during and after pregnancy
- 2. Advise a mother on appropriate family planning methods
- 3. Advise the mother on exclusive breast feeding practice
- 4. Advise the mother on weaning
- 5. Advise on immunization schedule for the child
- 6. Record the weight of a child
- 7. Measure the anthropometric measurements of a child
- 8. Plot anthropometry in a growth chart and interpret it
- 9. Demonstrate kangaroo mother care
- 10. Categorize and segregate the waste generated in a hospital and dispose it appropriately
- 11. Calculate measures of central tendency and dispersion in given data
- 12. Analyze and interpret graphical representation of a given data
- 13. Plan a diet survey
- 14. Record the weight of a child
- 15. Demonstrate ORS preparation
- 16. Estimate the chlorine demand
- 17. Measure the residual chlorine
- 18. Categorize and segregate the waste generated in a hospital and dispose it appropriately.

FIELD VISITS

- 1. Sub centre
 - a. Administration setup
 - b. Job Responsibilities
 - c. Registers
 - d. Inventory maintenance
- 2. Primary Health Centre
 - a. Administration setup
 - b. Job Responsibilities
 - c. Registers
 - d. Inventory maintenance
- 3. Cold chain system
 - a. Inventory of vaccines
 - b. Storage and pattern of utilization of vaccine
 - c. Registers
 - d. Adverse events following immunization
- 4. Taluk hospital
 - a. Administration setup
 - b. Job Responsibilities
 - c. Registers
 - d. Inventory maintenance
- 5. District hospital
 - a. Administration setup
 - b. Job Responsibilities
 - c. Registers
 - d. Inventory maintenance
- 6. Urban Health Post
 - a. Administration setup
 - b. Job Responsibilities
 - c. Registers
 - d. Inventory maintenance
- 7. Institute/Department of Mental Health
 - a. Common mental health illness

- b. Factors contributing
- 8. Community survey to identify the prevailing health problems
 - a. To collect the data on prevailing problems
 - b. Calculate the various indicators
 - c. Interpretation of the health problems
 - d. Suggesting the solution
- 9. Nutrition Rehabilitation Centre
 - a. Types of nutrition rehabilitation
 - b. Beneficiaries under various nutrition programmes
- 10. IVCZ, Hosur
 - a. Mosquito collection, dissection
 - b. Flea collection
 - c. Various vector control measures
- 11. Industry
 - a. Industrial safety
 - b. Ways to monitor Health of the workers
- 12. CENTRAL Leprosy training and Research Institute
 - a. Various facilities provided in the institute
- 13. Community survey to identify the prevailing health problems
 - a. To collect the data on prevailing problems
 - b. Calculate the various indicators
 - c. Interpretation of the health problems
 - d. Suggesting the solution

PRACTICAL SKILLS

- 1. Plan a diet survey
- 2. Classify a child based on IMNCI for ARI, ADD
- 3. Recognize an adverse event following immunization
- 4. Categorise a patient with TB/Leprosy/Dog bite
- 5. Advise appropriate treatment based on national programmes
- 6. Plan and recommend a suitable diet for special groups.
- 7. Calculate the demographic indicators and compare it with national data
- 8. Calculate the entomological indicators and interpret it
- 9. Certify the cause of death

10. Usage of Statistical packages like epiinfo, SPSS, etc.

INTERNAL ASSESSMENT TESTS SCHEDULE:

TEST AT THE END OF 4^{TH} SEMESTER :

- 1. Basics of nutrition
- 2. Concept of health & disease
- 3. Environment & health

TESTS FOR 6^{TH} & 7^{TH} SEMESTERS :

Theory Test	Month	Topics
1	April	Concepts of health & disease, Environment & health, Sociology
2	June	Epidemiology , screening, epidemiology of non-communicable
		diseases and related programmes
3	July	Epidemiology of communicable diseases and related programmes
4	Septembe	MCH, special groups, Nutrition and related programmes
	r	
5	October	Demography & family planning, hospital waste management,
		disaster management & occupational health
6	November	Genetics, mental health, health information & basic medical statistics,
		health education, health planning and management, health care of
		community, international health, medical ethics
7	December	Terminal evaluation – Whole portion
		II nd Model practical as per the university pattern *

^{*} Ist Model practical should be conducted at the end of block posting during 6 & 7th semester

THEORY EXAMINATION

Two papers each carrying 60 marks

Essay $2 \times 10 \text{marks} = 20$

Brief Answers $6 \times 5 \text{marks} = 30$

Short Notes 5x 2 marks = 10

Total 60 marks

Paper 1

- 1. Concepts in health
- 2. Epidemiology
- 3. Epidemiology of communicable and non communicable diseases and national health programmes
- 4. Screening for diseases
- 5. Environmental health
- 6. Occupational health
- 7. Health information and basic medical statistics

Paper 2

- 1. Nutrition and health
- 2. Genetics and health
- 3. Sociology in health
- 4. Health education
- 5. Demography and family planning
- 6. Social obstetrics
- 7. Social pediatrics
- 8. Community geriatrics
- 9. Other special groups
- 10. Disaster management
- 11. Hospital waste management
- 12. Mental health
- 13. Health planning and management
- 14. Health care delivery system
- 15. International health

EVALUATION

PRACTICALS

Clinico Social Case	45 minutes	1 X 12 marks =	12
Epidemiological Exerc	ise 45 minutes	2 X 4 marks =	8
Spotters	10 minutes	5 X 1 marks =	5
OSPE	20 minutes	5 X 1 marks =	5
TOTAL		30) marks

VIVA: 10 marks

FOUR EAMINERS EACH 2.5 MARKS

The topics will be divided as follows

TOPICS FOR EXAMINER – I

- Health Policy
- Health Administration
- Primary Health Care
- Health Programs In India
- Health Planning And Management
- Basic Medical Statistics
- Health Education and Communication
- International Health

TOPICS FOR ORAL EXAMINER – II

- Epidemiology of Non Communicable Diseases
- Maternal and Child Health
- Family Welfare
- Demography
- Population Dynamics
- Preventive Geriatrics

TOPICS FOR ORAL EXAMINER – III

- Epidemiology of Communicable Diseases
- Tropical Medicine
- Tropical Public Health
- Environmental Health
- Occupational Health
- Concept of Health and Disease

TOPICS FOR ORAL EXAMINER - IV

- General Epidemiology
- Principles of Epidemiology
- Epidemiological Methods
- Screening
- Mental Health
- Genetics
- Nutrition

INTERNAL ASSESSMENT: 40 marks

(Theory 20 & Practical 15 + Record/PROJECT/LOGBOOK 5)

LOG BOOK

Log Book should be followed as recommended by the University.

ETHICS RELATED TO COMMUNITY MEDICINE

- 1. Doctor patient relationship
- 2. Professional conduct
- 3. Consent
- 4. Research ethics
- 5. Health education ethics

OSPE/ OSCE QUESTIONS

OSPE 1: PARTOGRAPH

(1) Mark the following findings in the Partograph:

To give time of cervical dilatation of 4 cms.

Time	No of contractions in 10 minutes	Duration of each
		(seconds)
5am	3	18
9am	4	32
10am	5	45

(2) Mark the following findings in the Partograph:

Time	Cervical	Descent of head
	dilatation(cm)	
9 am	4 cm	3/5
1pm	5 cm	3/5
3 pm	5 cm	3/5

(3). Mark the following findings in the Partograph:

To give time of cervical dilatation of 4 cms.

Time	Descent of	No of	Duration of
	head	contractions in	each
		10 minutes	contraction
			(seconds)
5 pm	3/5	3	15
9 pm	1/5	4	35
10 pm	0/5	5	44

OSPE 2: DEATH CERTIFICATE

- 1. While crossing the road an adult male pedestrian was hit by a truck at around 10pm on 14-3-2008 and was brought to the emergency department of a hospital at 10.30 pmClinical examination revealed significant tachycardia, hypotension, oliguria, altered sensorium and cold clammy skin. Type III pelvic fracture was diagnosed and confirmed radio logically. Airway, Breathing and Circulation was established Blood grouping and cross matching was done. 1 hour later patient became unresponsive and resuscitation efforts were unsuccessful and the patient died
- 2. An elderly male farmer in a rural village was admitted to a hospital with complaints of difficulty in swallowing for past3 days. 1week back he had an injury on the right index finger. Suturing and TT injection were given. Sutures were removed. He was a known case of hypertension for the past 10 years Later, the patient had intermittent muscle spasm, trismus, risus sardonicus, muscle rigidity of jaw, neck and trunk Treatment: Airway maintenance, Tetanus antitoxin, Penicillin, diazepam, were given. Spasms became more frequent and patient developed laryngeal spasm and sudden respiratory arrest and died
- 3. A male infant born to a 20 year primiparous woman at 32 weeks gestation weighing 1480 grams. New born screening found elevated levels of immuno-reactive trypsinogen in the blood. The new born developed

respiratory distress syndrome and was in mechanical ventilation for 7 days. Despite adequate calories infant had poor weight gain, and had persistent diarrhoea with steatorrhea for past 2 weeks. Elevated sweat chloride concentration (85 mmols / 1). 37day of birth - infant lethargic, poor cry, feed refusal. CSF-culture - E.coli, total serum protein low.Infant died at 45 days of age despite life saving efforts

OSPE 3: PUT THE HOSPITAL WASTE IN THE APPROPRIATE BIN

Categorise the various bio medical waste

Hospital Waste	Waste Bin	Biomedical Waste	Waste Bin
Discarded medicine		Blood soaked cotton	
Soiled wound dressing		Cytotoxic drugs	
General paper waste		Scalpel	
Butterfly needle		Placenta	
Amputated limb		Incineration ash	

EPIDEMIOLOGY

Interpret the given chart-study design to be given as chart

Eg:

1. What is the type of chart? What is your inference? e.g. spotting the radiation and anemia.

ENTOMOLOGY

Identify the various vectors and assess environment and advise control measures

Eg:1PISTIA WATER PLANT

- A. a. Identify the picture
 - b. Write the Public Health Importance
 - c. How will you avoid this source for breeding of mosquito?
 - d. What type of disease you expect and where?
 - e. What is the significance of this source?

Eg: 2 TYRES SHED

- A. a. Identify the picture
 - b. Write the Public Health Importance
 - c. How will you avoid this source for breeding of mosquito?
 - d. What type of disease you expect and where?
 - e. What is the significance of this source?
 - f. In which area you find this source?

Communicable Diseases examples:

1. (a) What is your identification and mention the disease transmitted?

(b) Write the control measures that led to its elimination?
(a) What is your diagnosis?(b) Write down the immunization schedule followed for its prevention?
3. (a) What is your diagnosis?
(b) Write down the Mass drug regimen followed?
4. (a) What is your identification and the test used to find out?(b) Steps of tourniquet test:(c) Mention the communicable disease in which it is seen?
5. (a) What is your diagnosis?(b) Measures to prevent neonatal tetanus?
6. (a) What is your identification?(b) Treatment of Paucibacillary leprosy?
7. (a) What is your identification?(b) Write down the treatment schedule for MB leprosy in adults?
PICTURES- IMNCI
PICTURE
1. Write your observations for H1, H2 and H3?

2. What is the diagnosis, treatment and advice?

ENVIRONMENT

Estimate the residual chlorine in the given water sample?

OSCE for SOCIAL PADIATRICS/ OBSTETRICS / diseases

- 1. Measure the weight of the newborn/infant/ child
- 2. Measure the length/height of the newborn/infant/ child
- 3. Plot the given parameters in the growth chart and interpret
- 4. Advise the mother about the immunization dates for her child
- 5. Demonstrate ORS
- 6. Demonstrate usage of Condom
- 7. Advise on the usage of various contraceptive methods
- 8. Demonstrate the abdominal examination of Ante natal mother
- 9. Enumerate the high risk factors for the given mother
- 10. Measure the Blood pressure
- 11. Measure the various anthropometric measurements of newborn/infant/ child
- 12. Diagnose and Advice on drug regimen for various categories of leprosy
- 13. Diagnose and Advice on drug regimen for various categories of tuberculosis
- 14. Diagnose and Advice on treatment for Hypertension as per NCD guidelines
- 15. Diagnose and Advice on treatment for Diabetes as per NCD guidelines
- 16. Demonstrate steps in Breast self examination
- 17. Demonstrate the steps in nerve examination for leprosy

LIST OF SPOTTERS

LIST OF SPOTTERS		
GROUP I - Entomology and Parasitology		
ENTOMOLOGY		
ANOPHELES	EGG	

~			
AEDES	EGG		
CULEX	EGG		
MANSONIA	EGG		
ANOPHELES	LARVA		
AEDES	LARVA		
CULEX	LARVA		
ANOPHELES	ADULT MALE		
ANOPHELES	ADULT FEMALE		
CULEX	ADULT MALE		
CULEX	ADULT FEMALE		
AEDES	ADULT MALE		
AEDES	ADULT FEMALE		
SAND FLY	MALE		
SAND FLY	FEMALE		
CHEOPIS	MALE		
CHEOPIS	FEMALE		
HOUSE FLY	LARVA		
CYCLOPS	MALE		
CYCLOPS	FEMALE		
LOUSE	NIT		
HEADLOUSE	MALE, FEMALE		
	,		
SOFT TICK			
HARD TICK	MALE, FEMALE		
	,		
	I		

PARASITOLOGY			
MALARIAL PARASITE -			
PLASMODIUM FALCIPARUM			
MALARIAL PARASITE -			
PLASMODIUM VIVAX			
MICROFILARIA			
GROUP II –	MCH and family welfare		
M.C.H. & FAMILY WELFARE	-		
CONDOM	GROWTH CHART		
ORAL PILLS	O.R.S.		
COPPER-T	Emergency Pills		
VACCINES			
BCG	BCG SYRINGE AND NEEDLE		
OPV	VACCINE CARRIER		
DPT	MMR		
MEASLES	HEPATITIS B VACCINE		
DT	ARV		
TETANUS TOXOID	ICE PACKS		
VVM			
GROUP III – Insecticides,dis	infectant and Public health engineering		
B.H.C.	BLEACHING POWDER		
D.D.T	DETTOL		
PARIS GREEN	ALUM		
M.L.O (MOSQUITO	PHENOL		
REPELLANT OIL)			
PYRETHRUM	COPPER SULPHATE		
	H ENGINEERING SPOTTERS		
HORROCK'S APPARATUS			
CHLOROSCOPE			
IODINE SPOT TESTING KIT			
Kata thermometer			
GROUP IV – D	rugs related National health Programmes		

DRUGS			
DOTS - CAT I - INTENSIVE PHASE			
DOTS - CAT I - INTENSIVE THASE DOTS - CAT I - CONTINUATION PHASE			
DOTS - CAT I - CONTINUATION PHASE DOTS - CAT II - INTENSIVE PHASE			
DOTS - CAT II - INTENSIVE PHASE DOTS - CAT II - CONTINUATION PHASE			
MDT - MULTIBACILLARY ADULT			
MDT - PAUCIBACILLARY ADULT			
CHLOROQUINE	Streptomycin		
PRIMAQUINE	Benzathine penicillin		
FST SMALL			
VITAMIN A SOLUTION			
GROUP V_NUTRITION SPOTTERS			
BENGAL GRAM	WHEAT		
GREEN GRAM	SOYABEEN		
RED GRAM	ORANGE		
ORID DHAL	MANGO		
GROUND NUT	MILK		
RICE - BOILED	GREEN LEAVES		
RICE - RAW	BANANA		
RAGI	LEMON		
CARROT	PAPAYA		

CRRI ORIENTATION

- 1. Brief introduction about the National Immunization programme, National Health Mission
- 2. To know the implementation and monitoring of National Health programmes related to

Communicable and Non Communicable Diseases.

- a. Leprosy
- b. Tuberculosis
- c. Malaria
- d. STI/RTI
- e. Infectious disease
- f. Filaria
- g. Maternal can Child Health
- h. School Health programme
- i. Iodine deficiency disorders
- 3. Details about
 - a. How to organize a camp
 - b. How to study the environmental sanitation
 - c. How to assess the nutritional status of the mother
 - d. How to assess the nutritional status of the child
 - e. How to conduct the health education/health awarenes activities in PHC,UHC
- 4. Describe about the implementation of various acts like
 - a. Food Safety and Standards Act
 - b. Public Health in the Sub centre
 - c. Birth and Death Registration act
 - d. Pre Natal Diagnosis and Techniques Act
 - e. Medical Termination of Pregnancy act
- 5. Describe the various first aid measures for accidents, snakebite, poisoning
- 6. To treat minor ailments, identifying the various deficiency disorders
- 7. To prescribe the treatment for Hypertension, Diabetes as per the NCD guidelines
- 8. Identify the High risk mothers, infants, children
- 9. To Know the functioning and Job responsibilities of the various health personnel working in the
 - PHC, Urban Health centre, Sub centre, and District Hospital
- 10. To know the methods of investigation of epidemic, infant deaths, maternal deaths, adverse events following immunization

- 11. To enumerate the various demographic profile and to make interpretation
- 12. To know the administrative structure of the PHC, Urban Health centre, Sub centre, and District

Hospital

- 13. To know the inventory procedure with regard to the vaccines, drugs etc
- 14. To know various registers pertaining to the
 - a. Leprosy
 - b. Tuberculosis
 - c. Malaria
 - d. STI/RTI
 - e. Infectious disease
 - f. Filaria
 - g. Maternal can Child Health
 - h. School Health programme
 - i. Iodine deficiency disorders
 - j. Immunization programme
- 15. Introduction to various statistical analysis

LEARNING UNITS AND ACTIVITIES AREA

- 1. To Create awareness about statistical logic & Technique
 - a. Data collection
 - b. Data Handling
 - c. Data interpretation
 - d. Use of various statistical methods
 - e. Health indicators -vital statistics
 - f. Demography, population Dynamics and population tends
 - g. Birth and Death Registration
- 2. To Create awareness about role of nutrition as a Health determinant in Mother and Children
 - a. Nutritional assessment
 - b. Health monitoring, malnutrition and Deficiency disorders
 - c. Diet planning
 - d. Nutrition education
 - e. Food customs
- 3. Public Health administration and management

- a. Planning and conducting community health survey
- b. Management of Maternal and child health problems identified
- 4. Environmental sanitation
 - a. Manage at family level, maternal and child Health problems related with the environment
- 5. Health education
 - a. Knowing the individual and community
 - b. Community involvement
 - c. Identifying the suitable media and its implantation in health education
 - d. Evaluation of the effectiveness of Health education
- 6. National Immunization Programme Universal Immunization Programme
 - a. Disease surveillance
 - b. Conduct immunization session
 - c. Ensure community participation
 - d. Cold chain management
 - e. Adverse reaction following immunization and management
 - f. Coverage evaluation
- 7. National Health Mission Non Communicable diseases
 - a. Disease surveillance
 - b. Conduct camps
 - c. Ensure community participation
- 8. Maternal health
 - a. Antenatal care
 - b. Intra partum care
 - c. Post natal care
 - d. Management of obstetric case and emergencies
 - e. Management of common gynecological problems
 - f. Management of termination of pregnancy
 - g. Various contraception and its usage
 - h. Care of the newborn
 - i. Diagnosis and management of Nutritional disorder and infection in children

Reference books

- 1. Parks textbook of Preventive and social medicine, K.Park
- 2. Community medicine with Recent advances, AH Suryakantha

- 3. Textbook of community medicine, Rajvir Balwar
- 4. Textbook of community medicine, Piyush Gupta
- 5. Methods in Bio statistics by B.K.Mahajan6. Basic concepts in epidemiology Beaglehole
- 7. Government of India modules for various national health programmes.

COMMUNITY MEDICINE LOG BOOK

GOVERNMENT	MEDICAL
•	COLLGE
AFI	FILIATED TO
THE TAMILNADU Dr.	MGR MEDICAL UNIVERSITY
<u>I</u>	LOG BOOK
NAME OF THE STUDENT	:
UNVERSITY REGISTRATION N	NO:
YEAR OF ADMISSION	:

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20.	Overall Assessment of Student	
21.	Consolidated of Assessments	
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Photo

Name of the Student	:	
Gender	:	
DOB	:	
Mobile Number	:	
Email ID	:	
Local address	:	
Permanent Address	:	
Name of Teacher Guide	:	
Enrolment Number	:	
Signature of Teacher Guide		Signature of HOD
Signature of Examiners		
1.		
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INTRODUCTION

The Community Medicine course in MBBS is designed to familiarize medical students with some basic health promotion concepts and practices. The general learning objectives of the course to be achieved at the end of 3rd MBBS Part - 1medical training will be:

- Define and explain health in a holistic manner
- Develop an understanding of local health care delivery system
- Identify important determinants of health, risk factors of disease and epidemiological characteristics of indigenous population.
- Seek, facilitate and promote community participation in provision of healthcare (i.e. encourage patients and public to take interest in their health)
- Create awareness and disseminate through available and appropriate means information to individuals and community regarding development/adaptation of healthy life style behaviours/healthy social environment
- Identify, develop and support local partnership with workforce from allied sectors and with relevant stakeholders to broaden the local response to health inequalities.
- Create awareness and demand for services like immunization, prenatal and postnatal care, family planning, good hygienic practices and health education regarding communicable and non communicable diseases.
- Create awareness and sensitivity to provide health care to underserved populations.
- Know the steps of basic Research Methodology and importance of dissemination of evidence based knowledge.

This logbook is a record of your experience in relation to the concepts of community medicine during the 1st, 2nd and 3rd MBBS. It is a record of your satisfactory attendance and performance and should also be used for your reflection. The log book will also help towards preparing you for the MBBS University examinations in which you will be assessed on your performance of the skills described in both the log book and the Text books. All activities must be documented in the appropriate section. It is acceptable for the logbook entries to be signed by Moderators, Instructors, In charge Faculty, Teacher Guide, HOD and Examiners.

CERTIFICATE DEPARTMENT OF COMMUNITY MEDICINE

Name:
Admission Batch:
Roll No.:
This is to certify that

MBBS	Attendance %	Internal	Internal	Internal	Overall
		Assessment	Assessment	Assessment	Grade
		Theory	Practical	Total	
		Marks	Marks	Marks	
I MBBS					
II MBBS					
III MBBS					
Part 1					
Final Total					

Signature of Teacher Guide

Signature of HOD

Phase	Theory	Practical Hours **	
1 st MBBS	30	30	
2 nd MBBS	56	144	
3 rd MBBS	50	72	

^{**} Includes Block Postings, Field Visits, Demonstrations, Family Care Study, School Health and Problem Solving Exercises.

COMMUNITY MEDICINE $\mathbf{1}^{\mathrm{st}}$ MBBS

Theory - 30 Hours

- 1. Introduction Evolution of Community Medicine.
- 2. Health Definition, spectrum of health and factors affecting indicators of health.
- 3. Health Problem of World Urban and Rural Indian Health.
- 4. Health Care Delivery system in India Urban and Rural.
- 5. Demography, Demographic cycle, Population trends World and India.
- 6. Fertility and factors affecting it.
- 7. Family welfare and Population control.
- 8. Medical ethics and Doctor patient relationship Consumer Protection Act.
- 9. Sociology and Social factors effecting health.
- 10. Social Psychology introduction, Group Behaviour, Motivation Personality.
- 11. Economics and health.
- 12. Health Education and Communication.
- 13. Nutrition and Health.
 - Constituents of food.
 - Food and food groups.
 - Diet planning and recommended dietary allowances.
 - Nutritional diseases.
 - Iodine deficiency disorders.
 - Diseases due to vitamin and mineral imbalance
 - Toxins in the food.
 - Assessment of Nutritional status.

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COMMUNITY MEDICINE 2nd MBBS

Theory-56 Hours

General Epidemiology

- The concepts of disease.
- Natural history of disease.
- Epidemiological triad.
- Dynamics of diseases transmission.
- Concept of disease control.

Epidemiology

- Definition, types, measurements in epidemiology, epidemiological studies, and clinical trial, investigation of an epidemic.
- Uses of epidemiology.
- Screening for disease.
- Disinfection, sterilization and control of Hospital acquired infections.
- Immunity.

Environmental health

- Introduction to environment health.
- Water in relation to health and disease.
- Air pollution and ecological balance.
- Housing and health.
- Effects of radiation on human health (Ionizing, Non-ionizing & Nuclear warfare)
- Effects of Noise on human health.
- Meteorological environment.
- Solid waste disposal.
- Disposal of hospital waste.
- Liquid waste disposal

Medical entomology

• Arthropods of medical importance and their control.

Biostatistics

- Introduction and uses.
- Data- Types, Collection and Presentation.
- Centering constants.
- Measures of Variation.
- Normal distribution.

• Sampling methods and Sampling variability.

Tests of significance.

- SE of difference between two means.
- SE of difference between two proportions
- X2 test. (Chi-square)
- Students "t" test
 - o Paired.
 - o Unpaired.
- Statistical fallacies.

Epidemiology of communicable diseases.

- o Air borne infections.
- o Exanthematous fevers.
- o Chicken pox, Rubella, and Measles
- o Factors responsible to eradicate small pox.
- o Influenza and ARI.
- o Diphtheria and Pertussis
- o Tuberculosis.
- o Faeco-oral infections.
- o Poliomyelitis.
- o Hepatitis.
- o Enteric Fever and Cholera
- o Bacillary and Amoebic dysentery.
- o Soil transmitted Helminths.
- Tetanus
- o Rabies and other Viral Zoonotic disease.
- o Leprosy.
- Malaria
- o Filariasis.
- o Arthropod borne viral diseases.
- o Sexually transmitted diseases and their control.
- o A.I.D.S.

COMMUNITY MEDICINE 3rd MBBS Theory- 50 hrs

- o Community development programmes and multisectoral development.
- o Comprehensive medical care and Primary health care.
- National Health Policy.
- o Maternal and Child Health care.
- o Epidemiology of Non-communicable diseases.
- o Occupational health.
- o Problems of adolescence including Drug dependence.
- o Geriatrics
- Vital statistics sources and uses, Census, Fertility statistics.
 Management information system.
- o Mental health.
- o Genetics in public health.
- o Health planning and management.
- o National Health Programmes.
- o International health and Voluntary Health Agencies.

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S.No.	Date	Hours	Activity	Your Role	Teacher's Remarks and Signature
73.					
74.					
75.					
76.					
77.					
78.					
79.					
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81.					

S.No.	Date	Hours	Activity	Your Role	Teacher's Remarks and Signature
82.					
83.					
84.					
85.					
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87.					
88.					
89.					
90.					

S.No.	Date	Hours	Activity	Your Role	Teacher's Remarks and Signature
91.					
92.					
93.					
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99.					

S.No.	Date	Hours	Activity	Your Role	Teacher's Remarks and Signature
100.					
101.					
102.					
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108.					

S.No.	Date	Hours	Activity	Your Role	Teacher's Remarks and Signature
109.					
110.					
111.					
112.					
113.					
114.					
115.					
116.					
117.					

S.No.	Date	Hours	Activity	Your Role	Teacher's Remarks and Signature
118.					
119.					
120.					
121.					
122.					
123.					
124.					
125.					
126.					

S.No.	Date	Hours	Activity	Your Role	Teacher's Remarks and Signature
127.					
128.					
129.					
130.					
131.					
132.					
133.					
134.					
135.					

S.No.	Date	Hours	Activity	Your Role	Teacher's Remarks and Signature
136.					
137.					
138.					
139.					
140.					
141.					
142.					
143.					
144.					

S.No.	Date	Hours	Activity	Your Role	Teacher's Remarks and Signature
145.					
146.					
147.					
148.					
149.					
150.					

Community Medicine Department as Participant Topics

- 1. Introduction to public health
- 2. Introduction to epidemiology (History and definition of epidemiology, classification, infectivity, control, methods of infection spreading, measurement of disease)
- 3. Introduction to biostatistics
- 4. Levels of prevention
- 5. Environmental health
- 6. Infection Control
- 7. Nutrition
 - Iron deficiency anemia
- 8. Communicable diseases with National Health Programmes like
 - -HIV/AIDS
 - -Tuberculosis
 - -Malaria
 - -Polio
 - -Diarrheal diseases
 - -Leprosy
 - -Zoonotic diseases
- 9. Lifestyle related diseases with preventive aspects like
 - Diabetes
 - Hypertension
 - Stroke
 - Obesity
 - Cancers
 - Jaundice
- 10. Alcoholism Death and Dying
- 11. Geriatric Medicine
- 12. Adolescent Health
- 13. Rational Drug Use
- 14. Contraception
- 15. Industrial health
- 16. Ethical issues

S.NO.	Date	Integrated Teaching Topics	Departments	Attended/ Presented	Learning Points	Signature
1.						
2.						
3.						
4.						
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6.						
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FIELD VISITS

- 1. Urban Health Training Centre
- 2. Rural health Training Centre
- 3. Anganwadi Centre
- 4. Health Subcentre
- 5. Primary Health Centre
- 6. Community Health Centre
- 7. First Referral Units
- 8. District Headquarters Hospital
- 9. Integrated Counselling and Testing Centre
- 10. Hospital Waste Management Facility
- 11. State and District Cells of National Health Programmes
- 12. Water Filtration Plant
- 13. Sewage Treatment Plant
- 14. Food and Water Analysis
- 15. Home for aged
- 16. DE addiction centre
- 17. Rehabilitation centre
- 18. Leprosy vocational rehabilitation
- 19. Mental Health Centre
- 20. Prison
- 21. Brostal

S.NO.	Date	Place of Visit	Learning Points	Faculty Incharge Signature
1.				
2.				
3.				
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19.		
20.		
21.		
22.		
23.		
24.		
25.		

DEMONSTRATIONS / OSPE

- 1. Immunization Programme
- 2. Cold Chain Equipment
- 3. Antenatal Case
- 4. Postnatal Case
- 5. Contraceptive Devices
- 6. Exclusive Breastfeeding
- 7. Weaning foods
- 8. Diet chart
- 9. Nutritive values of foodstuff
- 10. Nutritional assessment
- 11. Nutritional deficiency disorders
- 12. Anthropometric measurements
- 13. Road to health
- 14. ORS preparation
- 15. Water purification at local level
- 16. Elementary essential drugs
- 17. Case management in low cost settings
- 18. Entomology Specimens
- 19. Health Promotion
- 20. Communication skills
- 21. Writing a research article
- 22. Statistical packages

S.NO.	Date	Demonstrations	Learning Points	Faculty In charge Signature
1.				
2.				
3.				
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25.		

FAMILY CARE STUDY

- 1. Posting for family care study 6 days
- 2. Apply Principles of clinical epidemiology
- 3. Demographic Assessment
- 4. Morbidity Survey.
- 5. Nutritional Survey
- 6. Socioeconomic Survey
- 7. Environmental Health survey
- 8. Health System availability and utilisation survey
- 9. Health knowledge, Beliefs and Practices Survey
- 10. Community Diagnosis
- 11. Data analysis and presentation.

COMMUNITY DIAGNOSIS – FAMILY

Family No.	Health Problems in the Family	Social & Environmental Factors Contributing to this Health Problem
1.		
2.		
3.		
4.		
5.		
6.		
7.		

COMMUNITY PLAN - FAMILY

	Health Problems			
	Moin	Level of	Solutions for the Problem	Who has to
S.No	- Main contributing	Prevention	(Individual/Family/Community/Sta	Provide the
	Factors	Failed	te/National/International Level)	Solutions
1.				
2.				
3.				
4.				
5.				
6.				
7.				

SCHOOL HEALTH

- 1. Posting for School Health 6 days
- 2. Health check-up of school children.
- 3. Data analysis and presentation.
- 4. Health education activities in the school by the students.

S.NO.	Name of the School	Health Problems in the School	Social & Environmental Factors Contributing to this Health Problem
1			
2			
3			
4			
5			

COMMUNITY PLAN - SCHOOL

S.No	Health Problems – Main Contributing Factors	Level of Prevention Failed	Solutions for the Problem (Individual/Family/ Community/ State/ National/International Level)	Who will Provide the Solutions
2				
3				
4				
5				

Signature of Teacher Guide

CLINICO- SOCIAL CASE PRESENTATION

- 1. Introduction to infectious diseases history taking
- 2. Exanthematous fever
- 3. ARI
- 4. Acute Diarrhoea
- 5. Tuberculosis
- 6. Leprosy.
- 7. Dog bite case.
- 8. 8. PUO / Enteric fever / Malaria.
- 9. S.T.D. / AIDS.
- 10. Hepatitis
- 11. Rheumatic heart disease.
- 12. Introduction to non- communicable diseases.
- 13. Hypertension
- 14. Diabetes
- 15. Cancer.
- 16. Obesity
- 17. Antenatal mother
- 18. Postnatal mother
- 19. Under 5 child
- 20. Adolescent
- 21. Geriatrics

S.No.	Date	Clinico-Social Case study	Learning Points	Faculty Signature
1.				
2.				
3.				
4.				
5.				
6.				

7.		
8.		
9.		
10.		

PROBLEM SOLVING EXERCISES

- 1. Biostatistics
- 2. Epidemiology
- 3. Community needs assessment
- 4. National health programme Indices
- 5. Health Management
- 6. Public Health Engineering
- 7. Behavior Change Communication
- 8. Health Skills in low resource Setting
- 9. Feedback and Evaluation
- 10. SPSS and EXCEL

S.No	Date	Problem Solving Exercises	Learning Points	Faculty Signature
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2.				
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S.No	Date	Seminar Topics	Attended/ Presented	Learning Points	Signature
1.					
2.					
3.					
4.					
5.					
6.					
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10.			
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12.			
13.			
14.			
15.			

	Abstract
Title:	
A 4 T 6	
Author Information:	
Introduction:	

Methodology:

Results:

Conclusion:

Signature of Research Guide

Other Related Activities For Learning

- 1. Quiz
- 2. CME
- 3. Discussions
- 4. Workshops
- 5. Conferences
- 6. Health promotion Camps
- 7. Trainings
- 8. Health day Celebrations
- 9. Disaster management
- 10. Others specify

S.No	Date	Activity	Attended/ Participated	Learning Points	Signature
1.					
2.					
3.					
4.					

5.			
6.			
7.			
8.			
9.			
10.			

EXTRACURRICULAR ACTIVITIES

- 1. Performing Arts
- 2. Clubs/Student Groups
- 3. Student Governance
- 4. College Journalism
- 5. Public Speaking
- 6. Hobbies
- 7. Media
- 8. NSS
- 9. Police/Military
- 10. Music
- 11. Sports
- 12. Volunteerism/community Outreach Service
- 13. Social Initiatives
- 14. Technology Initiatives

S.No	Date	Activity	Outcome/Learning Points	Signature
1.				
2.				
3.				
4.				

5.		
6.		
7.		
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11.		
12.		

OVERALL ASSESSMENT OF STUDENT

S.No.	Criteria	Score (1-10)	Remarks				
1.	Regularity						
2.	Academic Ability						
3.	Analytical Skills						
4.	Practical Skills						
5.	Leadership Quality						
6.	Teamwork Ability						
7.	Communication Skills						
8.	Teaching Ability						
9.	Innovation willingness						
10.	Research Aptitude						
Total So	Total Score						

S.No.	Grade Descriptor	Grade Boundaries	Letter Grade Equivalent
1.	Excellent	91-100	A
2.	Very Good	76-90	В
3.	Good	61-75	С
4.	Satisfactory	51-60	D
5.	Poor	26-50	F1
6.	Very Poor	21-40	F2

OVERALL	GRADE	:	

CONSOLIDATION OF ASSESSMENTS

S.No	Activities	Number Presented/ Participated	Number Attended
1.	Teachings		
2.	Seminars		
3.	Clinico-Social Case presentations		
4.	Demonstrations/OSPE		
5.	Field Visits		
6.	Problem solving exercises		
7.	Family care study		
8.	School health		
9.	Other medical related activities		
10	Extracurricular Activities		

Signature of Teacher Guide

Signature of HOD

Annexure I

Clinico-Social Case Presentation format

1	. D	em	ogr	ap	hic	D	ata
			~ —				

- Name
- Age
- Sex
- Education
- Religion
- Occupation
- Residence
- Type of Family
- No. of Family Members

2. Chief Complaint

- 3. History of Present Illness
- 4. Family History & Past History

5. Family Composition

S.No.	Name	Age/Sex		Education	Occupation	Monthly	Immunisation
			to Index			Income	
			Case				
1.			Index				
			Case				
2.							
3.							
4.							
5.							

Type of Family:	
Family Size:	
Total Family Income: Rs	/ month
Per-capita Income:Rs	
Monthly Expenditure: Rs	
Savings: Rs.	

Area o	f Residence: Urban / Ru	ıral		
SES So	cale Used:			
Score:		Class: I/	II / III / IV /V	
7. Soci	o-Environmental Fact	ors		
Housin	ng			
	Ownership: Own/Rente	ed		
	Type: Pucca/Semi-Puc	ca/Katcha(service	eable)/Katcha(non-serv	viceable)
	Floor			
	Number of Rooms:			
S.No.	Type of Room	Floor Area	Area Windows/Doors	Proportion of Windows/Doors to floor area
	ntion: Adequate /No	ot adequate 2. No		
Lightin	ıg:			
Water	Supply			
•	Source :			_
•	Protection :			-
•	Potability:			-
•	Adequacy:			_
•	Storage:			-
Kitche	n			
	Type of FuelMethods of CookinSmoke VentStorage of Food Ar			

Food hygiene practicesDisposal of Sullage

6. Socio-Economic Status:

Sanitation

- Type of Toilet
- Location of Toilet
- Type of Drainage
- Excreta Disposal
- Disposal of night soil
- Solid waste disposal
- Animal wastes disposal
- · Waste water disposal

Vector Breeding Sites

Personal hygiene

Pet Animals

8. Socio-Cultural Factors

Lifestyle

- Personality Type A/ Type B
- Physical exercise
- Stress management
- Motivation and state of mind
- Tobacco
- Alcohol
- Substance abuse
- Sleep habits
- Family Planning Practices
- Sexual promiscuity
- Knowledge, attitude and practices about common diseases
- Health Seeking Behaviours and knowledge of healthcare system
- Myths, Misconceptions and Social Aberrations

9. Nutritional Factors

- Type of Diet
- Food Fad
- Food Taboo

Dietary intake assessment - 24-hr recall method

1. Breakfast					
S.No	Food Item	Food Group	Dry Weight	Energy(Kcal)	Protein(gm)

2. lunch						
S.No	Food Item	Food Group	Dry Weight	Energy	(Kcal)	Protein(gm)
3. Dinner						
S.No	Food Item	Food Group	Dry Weight	Energy	(Kcal)	Protein(gm)
4. Snacks			T			1
S.No	Food Item	Food Group	Dry Weight	ht Energy(Kcal)		Protein(gm)
			<u> </u>			
7 D (C	1.					
5. Breastf		E1C	D W:-1-4	I D	-(IZ1)	D
S.No	Food Item	Food Group	Dry Weight	Energy	(Kcai)	Protein(gm)
			+			
	i		1	l		<u>l</u>
S.No.			Total Energy(Kcal)	Total I	Protein(gm)
1.	Breakfast		Total Ellergy(1xcui)	10111	Totom(gm)
2.	Lunch		†			
3.	Dinner					
4.	Snacks					
5.	Breastfeeding					

10. History in special cases

Females

Deficit

Grand Total

Menstrual history

Recommended Dietary allowance

- Age at marriage
- Duration of marriage
- Parity/Gravida/Abortion
- Previous obstetric history, Gap between pregnancies, Birth weight of child
- Antenatal registration
- Antenatal visits
- Postnatal visits
- Vaccination
- IFA tablets consumption
- Knowledge regarding dangers of pregnancy, clean delivery, institutional delivery, child rearing practices and breastfeeding

Infant and Child

- Birth history
- Birth weight
- Place of delivery
- Birth order
- Living order
- APGAR score
- Breastfeeding details
- Compliment feed details
- Weaning details
- Immunisation
- Congenital abnormality
- Development of milestones
- History of illness and hospitalisation

11. Clinical Examination

General Examination

Systemic Examination

12. Clinical Diagnosis

13. Epidemiological Triad of the condition under study

- Agent Factors
- Host Factors
- Environmental factors
- Vectors/Fomites/Behaviour Factors

14. Clinico-Social Diagnosis

15. Levels of Prevention that has failed in this condition

16. Remedial actions to be taken

- Individual level
- Family level
- Community level

17. Relevant National Programmes

Annexure II

Student Research protocol

- 1. Title of the Project:
- 2. Name of the Primary Investigator
- 3. Name of the Guide
- 4. Introduction / Background
- 5. Definition of the problem
- 6. Research Question
- 7. Review of Literature (Review 3 international and 3 national KEY references and give a brief summary of each, HIGHLIGHTING how these references justify your work)
- 8. Objectives of the Study
- 9. Methodology of the study
 - a. Type of Study
 - b. Study Design
 - c. Data Collection Tool
 - d. Data Collection Methods
 - e. Study Population
 - f. Study location
 - g. Sample Size
 - h. Sample Size Estimation
 - i. Inclusion/Exclusion Criteria
- 10. Statistical Analysis Plan
- 11. Ethical Considerations
- 12. Duration of Study in months (Gantt chart)
- 13. Resources for undertaking the study(Budget plan)
- 14. References (To be formatted adhering Vancouver style of referencing)

Annexure III

Family Care Study format

1. Demographic Data

- Name(Head of family)
- Door Number
- Street Name
- Localiuty

2. Ground Plan of House

3. Family Composition

S.No.	Name	Age/Sex	Relation	Education	Occupation	Monthly	Immunisation
			to Head			Income	
			of				
			Family				
1.			Head of				
			Family				
2.							
3.							
4.							
5.							

Type of Family:	
Family Size:	
Total Family Income:	
Per-capita Income:	
Monthly Expenditure:	
Savings:	
General Health Status	

S.No	Member 1	Member 2	Member 3	Member 4	Member 5	Member 6
Weight						
Height						
BMI						
Head circumference						

Chest circumference			
Pulse rate			
Respiratory rate			
Blood pressure			
Present illness			
Past illness			
General examination			
Systemic examination			
Immunisation status			
Nutritional status			
Addiction			
Diagnosis			
Laboratory findings			
Management			
Referral			
Outcome			
Remarks			

4. Socio-Economic Status of the Family

Area of Residence: Urban / Rural

SES Scale Used:

Score: Class:

5. Socio-Environmental Factors

Housing

Ownership: Own/Rented

Type: Pucca/Semi-Pucca/Katcha(serviceable)/Katcha(non-serviceable)

Floor

Number of Rooms:

S.No.	Type of Room	Floor Area	Area	Proportion of
			Windows/Doors	Windows/Doors to
				floor area

	1		
1			

Ventilation:

Cross Ventilation:

Lighting:

Water Supply

- Source
- Protection
- Potability
- Adequacy
- Storage

Kitchen

- Type of Fuel
- · Methods of Cooking
- Smoke Vent
- Storage of Food Articles
- Food hygiene practices
- Disposal of Sullage

Sanitation

- Type of Toilet
- Location of Toilet
- Type of Drainage
- Excreta Disposal
- Disposal of night soil
- Solid waste disposal
- Animal wastes disposal
- · Waste water disposal

Vector Breeding Sites Personal hygiene Pet Animals

6. Socio-Cultural Factors

- Knowledge, attitude and practices about common diseases
- knowledge of healthcare system
- Myths, Misconceptions and Social Aberrations
- Physical activity practices
- Social Problems
 - o Addiction
 - o Unemployment
 - o Criminal Activities
 - o Unmarried daughter
 - o Unmarried mother
 - o Orphan

- o Divorcee
- o Transgender
- o Out of school children
- o More than 2 elderly
- o More than 2 children per couple
- o Financial difficulty
- o Physically or mentally challenged person
- o Chronically ill person

7. Health Seeking Behaviour

- For Antenatal Care
- For Intranatal Care
- For Postnatal Care
- Infant Care
- Child Care
- Adolescent Care
- Family Planning
- Immunisation
- Infectious Disease
- Non Communicable Diseases
- Nutritional Counselling

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8. Nutritional Factors

- Type of Diet
- Food Fad
- Food Taboo

Dietary intake assessment of the family - 24-hr recall method

1. Breakfast					
S.No	Food Item	Food Group	Dry Weight	Energy(Kcal)	Protein(gm)

2. lunch								
S.No	Food Item	Food Group	Dry Weight	Energy(Kcal)	Protein(gm)			

3. Dinner					
S.No	Food Item	Food Group	Dry Weight	Energy(Kcal)	Protein(gm)

4. Snacks									
S.No	Food Item	Food Group	Dry Weight	Energy(Kcal)	Protein(gm)				

5. Breastfeeding						
S.No	Food Item	Food Group	Dry Weight	Energy(Kcal)	Protein(gm)	

S.No.		Total Energy(Kcal)	Total Protein(gm)
6.	Breakfast		
7.	Lunch		
8.	Dinner		
9.	Snacks		
10.	Breastfeeding		
Total Nutrition Consumption			
Total Nutrition Requirement			
Nutrition Deficit/Excess			

9. History in special cases

Females

- Menstrual history
- Age at marriage
- Duration of marriage
- Parity/Gravida/Abortion
- Previous obstetric history, Gap between pregnancies, Birth weight of child
- Antenatal registration
- Antenatal visits
- Vaccination
- IFA tablets consumption
- Postnatal visits
- Family planning practices
- Knowledge regarding dangers of pregnancy, clean delivery, institutional delivery, child rearing practices and breastfeeding

Infant and Child

- Birth history
- Birth weight
- Place of delivery
- Birth order
- Living order
- APGAR score
- Breastfeeding details

- Compliment feed details
- Weaning details
- Immunisation
- Congenital abnormality
- Development of milestones
- History of illness and hospitalisation

10. Summary of Health of the Family

- 11. Community Diagnosis Family
- 12. Community Plan Family
- 13. Remedial actions to be taken
- 14. Relevant National Programmes

Annexure IV

School Health Checklist

1. Health checkup

- Health appraisal of school children and teachers
- Dental health
- Mental health
- Eye health

2. Health education

- Personal hygiene
- Sexual hygiene
- Environmental health
- Nutrition
- Life skills

3. Other services

- First aid and emergency care
- vaccination
- Role of teacher
- Health corner
- Health room
- Classroom lighting and ventilation
- Furnitureegonomics
- Disaster management
- 4. Community Diagnosis School
- 5. Community Plan School

Annexure IV

Field Visit Checklist

1. General information

3. Organisational set-up

4. Physical infrastructure

2. Facility map

5. Manpower
6. Services provided
7. Field activities
8. Beneficiaries
9. Records
10. Learning points
11. Suggestions

ORIENTATION FOR CRRIS:

The following is expected of a CRRI and will be assessed at the end of Community Medicine posting for issuing completion:

- 1.Implementation and monitoring of National Health Programmes
- 2. Case management and referral of health conditions covered by national health programmes
- 3. Cold chain monitoring and administration of vaccines
- 4. Familiarize with the process of birth and death registration
- 5. Active participation in epidemic control as a team member.

The CRRI will be reviewed every week.

This syllabus and curriculum is applicable for the Third MBBS Part - I students admitted from the academic year 2014-15 and appearing for the examination from February 2018 Session onwards.