

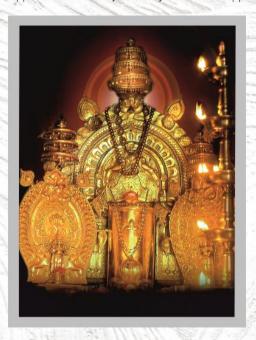
Ordinance Governing MBBS Degree Course Phase III Curriculum 2020-21

SHRI DHARMASTHALA MANJUNATHESHWARA UNIVERSITY

(A State Private University established under the Shri Dharmasthala Manjunatheshwara University
Act No 19 of 2018 of Government of Karnataka and Notification No. ED 261 URC 2018 dated 19th December 2018)

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|| Om Shri Manjunathaya Namaha ||



Shree Kshethra Dharmasthala

Edition Year: 2021-22

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THE LOGO

Poojya Dr D. Veerendra Heggade, Hon'ble Chancellor of the University, while searching for an appropriate Logo for the University, saw a photograph picked from Temple Architecture showing Wings of a Bird, sculpted in Indian style and wanted it to be incorporated in the logo for the University, as the Wings symbolize 'Spreading of Knowledge beyond Boundaries'. Further it was felt that the Central theme of the logo should be 'Rudra' (The Linga) with wings on each side. In this way, the logo of the University was conceptualized.

Hence:

- 1. The central part represents **Rudra** who Demolishes Darkness.
- The Three horizontal lines on The Linga stand for Samyak Darshan (Right Belief), Samyak Gyan (Right Knowledge) and Samyak Charitra (Right Conduct).
- 3. The Wings symbolize spreading of Knowledge across the boundaries.
- 4. Base line "Truth Liberates" highlights the Purpose of Education: to liberate oneself unconditionally. It shows that it is not discipline, nor knowledge nor the efforts to freedom that liberate but Truth is what liberates you from all your conditioning and ignorance.

The overall significance of Shri Dharmasthala Manjunatheshwara University's Logo is:

Darkness of ignorance is destroyed by the flow of knowledge to bring Liberty to everyone, by realizing the truth. And, it should spread globally without the boundaries



VISION

Shri Dharmasthala Manjunatheshwara University will set the highest standards of teaching and learning by awakening the intelligence of the students and nurturing the creativity hidden in them by creating an environment where the ancient wisdom blends with modern science, to transform them into whole human beings to face the challenges.

MISSION

- ▶ To ensure that the journey of education is inspiring, pleasant and enjoyable.
- Attract the best of teachers and students.
- Achieve high principles of trust, love and spirituality in the students.
- Create a collaborative, diverse and exclusive community.
- Transform the student of today to be a leader of tomorrow and a better human being.
- Produce passionate teachers.
- Evolve innovative teaching techniques.
- Create a peaceful environment.
- Prepare the student to face the social challenges.
- Create a University of which the Nation is proud of.
- Be an effective partner in Nation Building.
- Create an Eco-friendly University.
- Create a University based on the principles of beauty, love and justice.

||Om Shanti! Om Shanti|



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SDMU/ACAD/MED/UG/F-4/Notif-144/180/2020

NOTIFICATION

Ordinance governing Curricula of MBBS Professional Year III

Ref:

- NMC Regulations on Graduate Medical Education (Amendment) 2019 (Ref. No. MCI-34(41)/2019-Med./161726 dated: 4th November, 2019)
- Notification from Board of Governors in Supersession of MCI (Letter No: MCI-Academics/2019/128106; Dated:06-07-2019)
- 3. Medical Council of India Regulations on Graduate Medical Education, 1997 and its Subsequent Amendments
- Minutes of the 3rd Meeting of Academic Council held on 3rd August 2020 (Ref. No. SDMU/AC/M3/131/2020 Dated: 03-08-2020)

In exercise of the powers conferred under Statutes 1.4 (Powers and functions - Para ix & x) of Shri Dharmasthala Manjunatheshwara University, the Academic Council has accorded its approval for the notification on the ordinance governing the Curricula of MBBS Professional Year III.

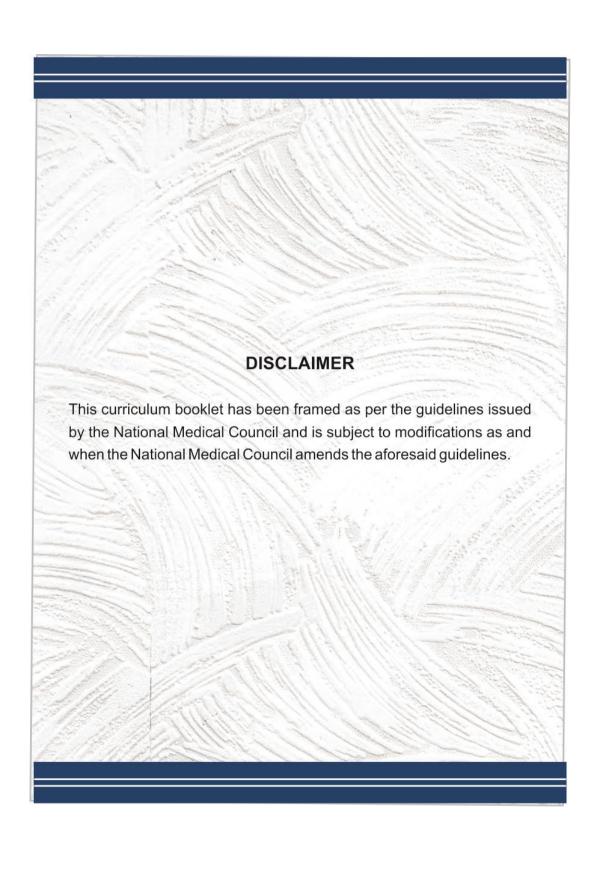
The ordinance shall be effective from the date of notification.

Lt. Col. U. S. Dinesh (Retd.) REGISTRAR

To: The Principal, SDM College of Medical Sciences & Hospital.

Copy for information to:

- 1. Hon'ble Chancellor, Shri Dharmasthala Manjunatheshwara University, Dharwad
- 2. Hon'ble Vice Chancellor Shri Dharmasthala Manjunatheshwara University.
- 3. Pro Vice-Chancellor (Academics) Shri Dharmasthala Manjunatheshwara University.
- 4. Controller of Examinations, Shri Dharmasthala Maniunatheshwara University.
- 5. Chairperson, Board of Studies Medical UG Clinical (Medicine & Allied Subjects)
- 6. Chairperson, Board of Studies Medical UG Clinical (Surgery & Allied Subjects)
- 7. University Office for Records File
- 8. Office of the Registrar



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COMMUNITY MEDICINE

1. **GOAL**

Broad goal of teaching undergraduate medical students is to prepare the students to function effectively as Community and Primary Care Physician.

2. OBJECTIVES

i. KNOWLEDGE

The student shall be able to:

- 1. Enumerate the principles and practice of medicine in hospital and community setting.
- 2. Describe the natural history and role of agent, host and environmental factors in health and disease.
- 3. Describe the concepts of community health and levels of health care with related health interventions.
- 4. Explain the principles of sociology and identify social factors related to health, disease and disability.
- 5. Describe and analyse the role of socio-cultural beliefs in health and disease and their impact on individuals, family, and community.
- 6. Describe the elements of normal psychology and social psychology.
- 7. Describe the various health education and effective communication methods.
- 8. Describe the demographic pattern of the country and its relation to health.
- Describe vital statistics and various methods used to collect the vital statistics in India.
- 10. Describe the health care delivery system in India
- 11. Describe the organizations and functions of primary health centre, community health centre and district level health centre.
- 12. Describe uses and interpretation of basic bio-statistical data.
- 13. Describe the basics of research in medical field.

ii. SKILLS

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

- 1. Practice principles of medicine in hospital and community settings.
- 2. Interpret health and illness behaviour at individual and community level.
- 3. Demonstrate art of communication with patients including history taking and role of socio-cultural aspects of diseases.
- 4. Formulate a research plan to undertake projects funded by ICMR, other universities and funding agencies.
- 5. Demonstration of various government agencies involved in delivery of health care services to the community.

iii. ATTITUDE AND COMMUNICATION SKILLS

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

- 1. Demonstrate ability to communicate to patients in a patient, respectful, non-threatening, non-judgmental and empathetic manner.
- 2. Counsel individuals, families and communities regarding how to stay healthy, what they can individually and collectively do to maintain health and when to seek help.
- 3. Demonstrate an understanding of national and regional health care policies including the National Health Mission (NHM), frameworks, economics and systems that influence health promotion, health care delivery, disease prevention, effectiveness, responsiveness, quality and patient safety.
- 4. Demonstrate an understanding of role of health care team, functions of members of such a team as well as demonstrate ability to function as a leader at the primary care level.
- 5. Demonstrates an understanding of notifiable diseases, international health regulations, prevention and control of diseases of public health importance.
- Demonstrate ability to provide a continuum of care at the primary and/or secondary level that addresses chronicity, mental and physical disability and appropriately identify and refer patients who may require specialized or advanced tertiary care.

iv. INTEGRATION

The knowledge acquired in Community Medicine should help the students to understand the impact of environment, society and National Health priorities as they relate to the promotion of health and prevention as well as cure of disease.

3. TEACHING HOURS AND COURSE CONTENT

A. Total Teaching hours:

SI.	Teaching Learning Method Theory	
No		
1	Large group teaching (Lecture / Integrated Teaching)	40
2	Small group teaching (SGT): SGD/Tutorials/Seminars/Practicals	
3	Self-directed Learning(SDL)	
	TOTAL	105

SI. No	Teaching Learning Method Practicals	
1	Bedside clinics/field visits	6
	TOTAL	

SI.	Teaching Learning Method	No. of Hours
No	3 3	
1	AETCOM	5
2	Pandemic module	18
3	Skill lab	
	TOTAL	

B. Course contents

i. THEORY

SI. No.	Topic/ System: (With Competency Number) core/ non-core competency	Large group teaching domain K LEVEL K/KH,	No. of Hours=40
1	Concept of health and disease (CM 1.7) Core:		
	Health indicators	K / KH	1
2	Relationship of social and behavioral factors to		
	health and disease (CM 2.5)		_
	 Poverty and social security measures and its relationship with health and disease 	K / KH	1
3	Environment & Health (CM 3.1, 3.2, 3.4, 3.5) Core:		
	Water – safe and wholesome water, sanitary sources, water pollution, conservation	K / KH	1
	Purification of water - large scale & small	K / KH	1
	scale	K / KH	1
	Air & air pollution, health hazards due to	K / KH	1
	pollution	K / KH	1
	 Solid waste management, Excreta & sewage disposal 		
	Housing standards and effect of housing on		
4	health		
4	Biostatistics (CM 6.1, 6.2, 6.3, 6.4) Core:		
	 Selection & formulation of Research question 	K / KH	1
	Data collection, types of data, Sampling	S/SH	1
	 Presentation of data, Normal distribution 	S/ SH	1
	Measures of central tendency & dispersion	S/ SH	1
	Tests of significance & their interpretation	S/ SH	1
5	Demography and vital statistics (CM 9.6)		
	 National Population Policy 	K / KH	1

6	Reproductive, maternal and child health (CM 10.1,				
	10.2, 10.3, 10.5, 10.7, 10.8)				
	Core:				
	 Maternal health problems, screening for common health problems and local customs and practices during pregnancy, childbirth, lactation and child feeding affecting 	K / KH	1		
	 maternal health. Child health problems, screening for common health problems and local customs and practices during pregnancy, childbirth, lactation and child feeding affecting child health. 	K / KH	1		
	Maternal and Child Health (MCH) service delivery, MCH indicators and their current status, Maternal mortality	K / KH	2		
	Mortality in infancy & childhood	K / KH	1		
	Universal Immunization Program and IMNCI	K / KH	1		
	 School health services, behavioral problems, 	•			
	juvenile delinquency	K / KH	1		
	Children in difficult situations, Handicapped	•			
	child, Prevention, International Classification Functionality, Disability and Health	K / KH	1		
	 Adolescent health – physiology, clinical 				
	management and principles including ARSH.Basis and principles of Family Welfare	K / KH	1		
	Program including organizational, technical and operational aspects.	K / KH	1		
7	Occupational health (CM 11.1, 11.2, 11.3, 11.4)				
	Core:				
	 Occupational health hazards – types, 	K / KH	1		
	presenting features				
	 Occupational diseases – classification, lead poisoning, occupational cancer, occupational dermatitis, radiation hazards, accidents in industries. 	K / KH	1		

Seriatric services (CM 12.1, 12.2, 12.3, 12.4) Concept of geriatric services, Health problems of aged population and its prevention, National program for health care of the elderly Disaster management (CM 13.1, 13.2, 13.3, 13.4)		 Principles of ergonomics and prevention of occupational diseases – medical, engineering & legal measures including employees state insurance scheme 	K / KH	1
Core: Definition of disaster, types of disaster and disaster management cycle Manmade disaster National Disaster Management Authority Mental Health (CM 15.1, 15.2, 15.3) Core: Concept of mental health - types of mental illnesses, causes, warning signals & K / KH 1 prevention National Mental Health Program K / KH 1 Non core: Substance abuse Health planning and management (CM 16.1, 16.2) Concept of health planning and planning cycle International health (CM 18.1, 18.2) Core: Concept of international health, UN organizations Bilateral agencies, NGO Recent advances in Community Medicine (CM 20.1, 20.3, 20.4) Core: Public health events of last five years Public health legislations Ayushmann Bharat & Swachh Bharat V / KH 1 K / KH 1 CV / KH 1	8	 Concept of geriatric services, Health problems of aged population and its prevention, National program for health care 	K / KH	1
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SI. No.	Topic/ System: (With Competency Number) core/ non-core competency	Small group teaching domain K/S/A Level K/KH/S/SH,	No. of Hours=24
1	Relationship of social and behavioral factors to health and disease (CM 2.2)		
	Role of socio-cultural factors in health and	S / SH	1
	disease	S/SH	1
	 Types of family and its role in health and disease 		
2	Environment and health (CM 3.6)		
	Role of vectors in causation of diseases and	K / KH	2
	National Vector Borne Disease Control		
	Program		
3	Nutrition (CM 5.6)		
	National Nutrition Policy, Iodine Deficiency		
	Disorders Program, National Nutritional	K / KH	2
	Programs and ICDS		
4	Epidemiology of communicable and non-		
	communicable diseases (CM 8.3)National Tuberculosis Elimination Program	K / KH	2
	National Leprosy Eradication Program	K / KH	1
	National Program for Control of Blindness	K / KH	1
	National Program for Prevention and Control	K/KH	'
	of Cancer, Diabetes, Cardiovascular	K / KH	1
	Diseases and Stroke.	,	-
4	Principles of health promotion and education (CM 4.2)	K / KH	1
	 Organizing health promotion, education and counselling activities at individual, family and community settings 		

5	Reproductive, maternal and child health (CM 10.4)		
	RCH and RMNCH+A	K / KH	3
6	Occupational health (CM 11.1, 11.3, 11.5)		
	• Occupational disorders of health	K / KH	1
	professionals, prevention & management.		
	 Pneumoconiosis, occupational hazards of 		_
	agricultural workers	K / KH	1
7	Hospital waste management (CM 14.1, 14.2)		
	 Hospital waste – definition & classification, 	K / KH	1
	categories, segregation, collection,		
	treatment, processing & disposal		
8	Health planning and management (CM 16.3, 16.4)		
	Health management techniques	K / KH	1
	Health planning in India, National policies	K / KH	1
	related to health and health planning		
9	Health care of the community (CM 17.4, 17.5)		
	Millennium Development Goals and	K / KH	1
	Sustainable Development Goals		
	Health care delivery in India	K / KH	1
	 National Urban Health Mission 	K / KH	1
	 National Rural Health Mission 	K / KH	1

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Self-directed learning domain K/S/A Level K/KH	No. of Hours=5
1	Environment & Health (CM 3.1)	K / KH	1
	 Effect of Noise and radiation on health 		
2	Reproductive, maternal and child health (CM 10.9) • Gender issues & women empowerment	K / KH	1
3	Occupational health (CM 11.1, 11.3) • Health problems due to industrialisation and sickness absenteeism	K / KH	1

4	Hospital waste management (CM 14.3)		
	 Laws related to hospital waste 	K / KH	1
	management		
5	International health (CM 18.1, 18.2)		
	 International health regulations 	K / KH	1

ii. PRACTICAL

SI.	Topic with competency number	Bedside	Teaching
No.		Clinics/DOAP/field visits	Hours
		Domain / Level	(total = 36)
1	Water quality - criteria &	Demonstration	2
	standards, surveillance,	K / KH	
	hardness of water (CM 3.2)		
2	Indices of thermal comfort &	Demonstration	2
	meteorology (CM 3.1)	K / KH	
3	Life cycle of vectors of public	Demonstration	8
	health importance and their	S / SH	
	control measures (CM 3.7)		
4	Mode of action, application	Demonstration	2
	cycle of commonly used	K / KH	
	insecticides & rodenticides (CM		
	3.8)		
5	Protective devices to prevent	Demonstration	2
	occupational health hazards	K /KH	
	(CM 11.3)		
6	Growth & development, usage	Demonstration	2
	of growth chart to screen PEM	K /KH	
	(CM 10.2)		
7	Family planning devices (CM	Demonstration	2
	10.6)	K / KH	
8	Selection & formulation of	Demonstration	2
	Research question, Data	S / SH	
	collection, types of data,		
	Sampling (CM 6.1, 6.4)		
9	Presentation of data (I & II),	Demonstration	4
	Normal distribution (CM 6.2)	S /SH	

10	Measures of central tendency &	Demonstration	2
	dispersion (CM 6.4)	S /SH	
11	Tests of significance & their	Demonstration	4
	interpretation (I & II) (CM 6.3)	S/ SH	
12	Vital & Population statistics	Demonstration	4
	(CM 9.2)	S/ SH	

BEDSIDE CLINICS

SI. No.	Topic with competency number	Bedside Clinics/DOAP/field visits Domain / Level	No. of weeks = 6 Teaching Hours (total = 108)
1.	Visit to water treatment plant to understand the process of water purification (CM 3.2)	Field visits K / KH	3
2.	Visit to sewage treatment plant to understand sewage disposal (CM 3.4)	Field visits K / KH	3
3.	Performance of clinico-socio-cultural and demographic assessment of individual, family and community (CM 2.1)	Demonstration S / SH	3
4.	Assessment of socioeconomic status in a simulated environment (CM 2.2)	Demonstration S / SH	3
5.	Types of family and role of family in health and disease (CM 2.2)	Demonstration S / SH	3
6.	Role of socio-cultural factors in health and disease (CM 2.2)	Demonstration S / SH	3
7.	Standards of housing and effect of housing on health (CM3.5)	Demonstration K / KH	3
8.	Nutritional assessment of individuals, families and community by using the appropriate method	Demonstration S / SH	3
9.	Interventions at various levels of prevention (CM 1.5)	Demonstration K / KH	3

10.	Clinico-socio-cultural and demographic assessment of an antenatal woman (CM 2.1, 2.2, 10.2)	Demonstration S / SH	6
11.	·	Demonstration	6
	assessment of a postnatal woman (CM	S / SH	· ·
	2.1, 2.2, 10.2)		_
12.	3 1	Demonstration	6
	assessment of an under-five child with	S / SH	
	protein energy malnutrition (CM 2.1, 2.2,		
	10.2)		
13.	Clinico-socio-cultural and demographic	Demonstration	6
	assessment of an under-five child with	S / SH	
	acute respiratory infection (CM 2.1, 2.2,		
	10.2, CM 8.1, 8.5, 8.6)		
14.	Clinico-socio-cultural and demographic	Demonstration	6
	assessment of an under-five child with	S / SH	
	diarrhoea (CM 2.1, 2.2, 10.2, CM 8.1, 8.5,		
	8.6, CM 3.3)		
15.	Clinico-socio-cultural and demographic	Demonstration	6
	assessment of an individual with Fever	S / SH	
	under evaluation/ Vector borne disease		
	(CM 2.1, 2.2, 3.6, 8.1, 8.5, 8.6)		
16.	Clinico-socio-cultural and demographic	Demonstration	6
	assessment of an individual with HIV	S / SH	
	(CM 2.1, 2.2, 8.1, 8.5, 8.6)		
17.	Clinico-socio-cultural and demographic	Demonstration	6
	assessment of an individual with Viral	S / SH	
	Hepatitis (CM 2.1, 2.2, 8.1, 8.5, 8.6)		
18.		Demonstration	6
	assessment of an individual with	S / SH	
	Tuberculosis (CM 2.1, 2.2, 8.1, 8.5, 8.6)		
19.	·	Demonstration	6
	assessment of an individual with	S / SH	
	Leprosy (CM 2.1, 2.2, 8.1, 8.5, 8.6)		
20.		Demonstration	6
	assessment of an individual with	S / SH	
	Hypertension (CM 2.1, 2.2, 8.2)		
	\		ı

21.	Clinico-socio-cultural and demographic	Demonstration	6
	assessment of an individual with	S/SH	
	Diabetes Mellitus (CM 2.1, 2.2, 8.2)		
22.	Clinico-socio-cultural and demographic	Demonstration	6
	assessment of an individual with Cancer	S/SH	
	(CM 2.1, 2.2, 8.2)		
23.	End of posting case presentation		3

CERTIFIABLE SKILLS: None enlisted in UG curriculum vol II

iii. AETCOM,

Sl. No.	AETCOM Module Number	Lectures [hours]	Small group [hours]	No. of Hours

PANDEMIC MODULE

SI. No.	PANDEMIC MODULE No.	Lectures [hours]	Small group [hours]	No. of Hours 18 hours
1	3.1 Outbreak management including quarantine, isolation, contact tracing	2	3	5
2	3.2 Interdisciplinary collaboration, Principles of Public Health Administration, Health Economics	3	2	5
3	3.3 Operational Research, field work, surveillance	3	5	8

4. SCHEME OF EXAMINATION:

Eligibility criteria:

- Learners must secure at least 50% marks of total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the University examination.
- Student should get a minimum of 75% attendance in Theory and 80 % in Practical classes to be eligible to appear for university examination.
- Learners must have completed the required certifiable competencies and completed the log book.

FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT:

- A minimum of 2 Internal Assessments (IAs) to be conducted
- One of the internal exams will be conducted like preliminary exams
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given a chance of remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Formative assessment: based on day to day assessment of SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments [records of activities used for assessment to be maintained by the department]
- Written exams will include MCQ's[MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

The distribution of internal assessment marks shall be as mentioned below:

DEPARTMENT OF COMMUNITY MEDICINE										
	Integrated phase-wise Internal Assessment									
т	THEODY	Pha	se 1	Phase 2		Phase 3-1		Final		
THEORY		IA-1	IA-2	IA-3	IA-4	IA-5	IA-6	Total		
	Theory [#]	30	25	30	25	50	75			
Written	MCQ	10	10	10	10	10	20			
	AETCOM*		05		05		05			
	Formative									
	assessment:									
	SDL/Class									
FA	tests/ MCQs/	05	05	05	05	10	10			
ГА	Tutorials/									
	Seminars/									
	Assignments									
	Logbook	05	05	05	05	10	10			
	Total	50	50	50	50	80	120	400		

FINAL THEORY IA MARKS = 100 (final total divided by 4)

Pandemic module to be included in theory exam

IA-6 is Preliminary exam and hence to be conducted as two theory papers of 100 marks each, and average of both papers is used for tabulation

PRACTICAL INTERNAL ASSESSMENT

- Clinical end posting exams [EOP] will be conducted
- Viva/oral examination should assess approach to clinical context and included in practical IA marks.

^{*} To be included as a question in theory paper

Practicals:

DEPARTMENT OF COMMUNITY MEDICINE							
Integrated phase-wise Internal Assessment							
	PRACTICAL	Phase 3-1 6wk posting	Final Total				
EOP/ Practical	Clinical & Practical skills assessment (OSCE/OSPE/ Mini-CEX/ Case presentation/ AETCOM)	50	90				
	Viva-voce (may include AETCOM)	10	10				
Others	Formative assessment	10	10				
otners	Logbook/ Record book	10	10				
Total 80 120 20							

FINAL PRACTICAL IA MARKS = 100 (final total divided by 2)

At least one EOP is to be conducted with OSCE as a part of it.

AETCOM may be included as an OSCE station or as a part of viva-voce during EOP, if it needs to be assessed in practical (Refer competency booklet & AETCOM module)

* Only if applicable

PRACTICAL & EOP TOGETHER

Blue-printing of internal assessments in Community Medicine

	Number of questions								
BLUEPRINT						IA	-6		
DLUEPKINI	IA-1	IA-2*	IA-3	IA-4*	IA-5	Prelimina	ry Exam*		
						Paper 1	Paper 2		
MCQ	10	10	10	10	10	20	20		
(1 mark each)	10	10	10	10	10	20	20		
Structured Long									
Essay	00	00	01	01	01	02	02		
(10 marks each)									
Short Essay	0.4	0.4	00	00	0.4	00	00		
(5 marks each)	04	04	02	02	04	08	80		
Short Answer	0E	0E	0E	OE	10	10	10		
(2 marks each)	05	05	05	05	10	10	10		
Total	40	40	40	40	60	100	100		
(in marks)	40	40	40	40	00	100	100		
	*AETCOM should have a weightage of 5 marks								

B. SUMMATIVE ASSESSMENT:

Community medicine is learnt and assessed during professional years [PY] 1, 2 and 3 part 1. SA will be held at the end of 3rd professional year part 1.

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) to pass
- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university of that subject.
- Internal assessment will appear as a separate head of passing at summative exams

A candidate, who has not secured requisite aggregate in the internal assessment has
to successfully complete the remediation measures prescribed by the University as
the case may be prior to the declaration of his/her results in that particular phase.
Candidates who fail to meet prescribed 50% marks in internal assessment after
availing remedial measures will not be eligible for the university exams.

MARKS DISTRBUTION FOR UNIVERSITY SUMMATIVE EXAMIATION

THEORY		THEORY TOTAL	PRACTI	CAL	total	
	Written paper	MCQ's		Practical	Viva	
Paper 1	80	20	100	80	20	100
Paper 2	80	20	100			
	Total marks		200	Total m	arks	100

Time: 3 hours for theory paper

The pattern of questions in theory paper shall be as mentioned below:

Type of Question	Number of Questions	Maximum Marks for each question	Total
Structured Long essay questions (SLEQ)	2	10	20
Short essay questions (SEQ) (Includes case vignette-based questions)	8	05	40
Short answer questions (SAQ)	10	02	20
Multiple Choice Questions (MCQs)	20	01	20
Total marks			100

The question papers shall be based on the blue print of question paper setting.

Blueprint for the theory examinations (For use by the question paper setter)

PAPER TOPICS	Weightage of marks as per SDMU guidelines Paper 1	Weight age of marks as per SDMU guidelin es Paper 2	MCQs 1 mark each	SLEQs 10 marks each	SEQs 5 marks each	SAQs 2 marks each	Total Marks*
Man, and medicine towards health for all	0.01						1
Concept of health and disease	0.07						7
Principles of epidemiology and epidemiologic methods	0.11						11
Screening	0.11						11
Millennium development goals to sustainable development goals	0.07						7
Medicine and social sciences	0.05						5
Nutrition and health	0.11						11
Environment and health	0.11						11

Occupational health	0.04			4
Hospital waste management	0.07			7
Communication for health education	0.11			11 (includes AETCOM)
Health information and basic medical statistics	0.07			7
Essential and counterfeit medicines	0.07			7
Epidemiology of communicable diseases		0.14		14
Epidemiology of chronic non- communicable diseases and conditions		0.14		14
Health programs in India		0.09		9
Demography and family planning		0.09		9
Preventive medicine in obstetrics pediatrics and geriatrics		0.14		14
Mental health Genetics and health		0.03		3

Tribal health in		0.03			3
India					
Health planning		0.09			9
and					
management					
Health care of		0.09			10
the community					(includes
					AETCOM)
Disaster		0.09			9
management					
International		0.03			3
health					
MCQs	20	20			
AETCOM	SEQ	SEQ			
	Case	Case			
	vignette	vignette			
	based	based			
	05	05			
TOTAL	100	100			

^{*}Total marks include MCQs.

The weightage of marks allotted for each topic shall be strictly adhered to while setting a question paper. A minimum OF 10% and up to a maximum of 30% marks shall be allocated to assess the higher order thinking of the learner.

The questions framed shall be with appropriate verbs without any ambiguity or overlap.

However, a strict division of the subject may not be possible and some overlapping of topics is inevitable. Students should be prepared to answer overlapping topics.

PRACTICAL SUMMATIVE EXAMINTION: TOTAL 100 MARKS

1. Clinico-social case - 35 marks

2. Problems – 35 marks

3. Spotters – 10 marks

4. Viva Voce: 20 marks

5. **INTEGRATION**:

		Competency	list for integrat	tion	
SL	Comp	Competency to be	nesting/	Integratin	g department
No.	No.	lo. integrated	sharing/ aligning /correlation	Horizontal	Vertical
1	CM 10.2, 10.3	Maternal health problems, screening for common health problems and local customs and practices during pregnancy, childbirth, lactation and child feeding affecting maternal health.			Obstetrics and Gynecology
2	CM 10.2, 10.3	Child health problems, screening for common health problems and local customs and practices during pregnancy, childbirth, lactation and child feeding affecting child health.			Pediatrics
3	CM 12.1, 12.2, 12.3	Concept of geriatric services, Health problems of aged population and its prevention, National program for health care of the elderly			General Medicine
4	CM 15.3	National Mental Health Program			Psychiatry

RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS

Textbooks

- 1. Park JE, Park K, Text Book of Preventive & Social Medicine, 25th Ed., M/S Banarsidas Bhanot, Jabalpur, India.
- 2. Suryakantha AH, Community Medicine With Recent Advances 5th Ed., Jaypee Brothers Medical Publishers, New Delhi, India.
- 3. Kishore J, National Health Programmes of India , 12thEd., Century Publications, New Delhi, India.

Reference books

- 1. Sunder Lal, Adarsh, Pankaj. Textbook of Community Medicine, 5th Ed., CBS Publishers, New Delhi, India.
- 2. Mahajan BK, Methods in Biostatistics for Medical Student and Research Workers, 8th Ed., Jaypee Brothers Medical Publishers, New Delhi, India.
- 3. Kadri AM, IAPSM 's Textbook of Community Medicine 1st Edition, Jaypee Brothers Medical Publishers, New Delhi, India
- 4. Mahabalaraju DK, Essentials of Community Medicine Practicals, 2nd Ed., Jaypee Brothers Medical Publishers, New Delhi, IndiaWallace RB, Public Health and Preventive Medicine, 15th Ed., McGraw-Hill Medical Publishers, USA.
- 5. Roger D, Robert B, Mary AL, Martin G, Oxford Textbook of Public Health, 5th Ed., Oxford University Press, USA
- 6. Gordis L, Epidemiology, 5th Ed., Elsevier Saunders publication, Philadelphia.
- 7. Sathe PV, Sathe AP, Epidemiology & Management for Health Care for All, 3rd Ed., Popular Prakashan Pvt. Ltd., Mumbai, India.

FORENSIC MEDICINE & TOXICOLOGY

1. GOAL

- i. To facilitate the IMG to achieve the expected competency in the subject of Forensic Medicine.
- ii. To inculcate research attitude amongst IMGs in the field of Forensic Medicine.

2. OBJECTIVES

2.1 KNOWLEDGE

To ensure that at the end of the course the student acquires required

- Understanding of the medico-legal responsibilities of physicians in primary and secondary care settings,
- ii. Understanding of the rational approach to the investigation of crime, based on scientific and legal principles,
- Ability to manage medical and legal issues in cases of poisoning / overdose,
- iv. Understanding of the medico-legal framework of medical practice and medical negligence,
- v. Understanding of codes of conduct and medical ethics.

2.2 SKILLS

To ensure acquisition of necessary skills by the student, essential for Medicolegal work.

2.3 ATTITUDE AND COMMUNICATION SKILLS

At the end of the course, the learner shall be able to:

- i. Respect autonomy of the deceased and his/her survivors.
- ii. Demonstrate empathy towards the relatives of the deceased.
- iii. Respect privacy and maintain confidentiality
- iv. Communicate effectively with the survivors of the deceased
- v. Respect the deceased.

2.4 INTEGRATION

To ensure that the knowledge and skills acquired in Forensic Medicine help the student to understand the importance of medico-legal, ethical and toxicological issues and apply the same during practice of Medicine.

3. TEACHING HOURS AND COURSE CONTENT

A. Teaching Hours

SI. No	Teaching Learning Method	No. of Hours
1	Large group teaching	25
2	Small group teaching (SGT): SGD/Tutorials/Seminars/Integrated teaching/Practical/Autopsies	45
3	Self-directed Learning (SDL)	05
	TOTAL	75

SI. No	Teaching Learning Method Practical	No. of hours
1	Practical/Autopsies	18
	TOTAL	18

SI. No	Teaching Learning Method	No. of Hours
1	AETCOM	
2	Skill Lab	
	TOTAL	

B. Course Contents

i) THEORY

SI. No.	Topic/ System: (With Competency Number) core/ non-core competency	Large group teaching Domain K Level K/KH	No. of Hours=25
1.	Clinical Forensic Medicine (FM3.13,		8
	FM3.14, FM3.18, FM3.19, FM3.20,		

	2.00 FM2.02 FM2.0F FM2.0C		
	3.22, FM3.23, FM3.25, FM3.26,		
	3.27, FM3.28)	17/1711	
Cor		K/KH	
	Sexual Offences Virginity Defloration Indianage	K/KH	
	Virginity, Defloration, legitimacy	K/KH	
	Medicolegal aspects of	K/KH	
	Pregnancy and Delivery	K/KH	
	Disputed paternity and	K/KH	
	maternity		
	Impotence and Sterility	K/KH	
	Sterilization, Artificial		
	Insemination, Surrogacy,		
	Hormone replacement therapy,		
	ART clinics in India		
	• Abortion		
	dical Jurisprudence (FM4.1, FM4.2,		7
	4.3, FM4.4, FM4.5, FM4.6, FM4.8,		
FM	4.11, FM4.25, FM4.26, FM4.27)		
Coi	re:	K/KH	
	 Medical Ethics- historical 	K/KH	
	emergence	K/KH	
	 Code of Medical Ethics 2002 		
	and unethical practices	K/KH	
	 National Medical Commission of 		
	India and State Medical		
	Councils, Indian Medical	K/KH	
	Register		
	Rights and privileges of medical	K/KH	
	practitioner, Infamous conduct,		
	Disciplinary procedures, warning	K/KH	
	notice, penal erasure	K/KH	
	Laws in relation to medical	K/KH	
	practice; Duties of medical		
	practitioner towards patient and		
	society	K/KH	
	 Consumer Protection Act- 1986, 	K/KH	
	Workman's Compensation Act &		

	ESI Act		
	Products liability and medical		
	Indemnity Insurance		
	Euthanasia		
	Ethical committees		
	• Luncai committees		
	Non-core:		
	 Clinical research and Ethics- 		
	Human experimentation		
	Ethical guidelines for biomedical		
	research in humans and animals		
3.	Forensic Psychiatry (FM5.1, FM5.2,		2
	FM5.4, FM5.5)		
	Core:	K/KH	
	Common mental illnesses	K/KH	
	 Delusions, hallucinations, 	K/KH	
	illusions, obsessions	K/KH	
	Lucid interval	K/KH	
	 True and feigned insanity 		
	Delirium tremens		
4.	General toxicology (FM8.1, FM8.2,		3
	FM8.3, FM8.4, FM8.5, FM8.6, FM8.8,		
	FM8.10)		
	Core:	K/KH	
	 History of Toxicology 	K/KH	
	 Types of poisons, 		
	Toxicokinetics, Toxicodynamics,		
	Diagnosis of poisoning in the	K/KH	
	living and dead	K/KH	
	 Laws in relation to poisons 	K/KH	
	Procedure of autopsy in cases	K/KH	
	of poisoning		
	Treatment of poisoning		
	Analytical Toxicology		
5.	Chemical Toxicology (FM9.2, FM9.3)		3
	Core:		
	General Principles and basic		

	methodologies in treatment of: Inorganic Non-metallic IrritantsMetallic Irritants	K/KH K/KH	
6.	Pharmaceutical Toxicology (FM10.1) Core:		2
	General Principles and basic methodologies in treatment of:	K/KH	
	 Antipyretics, Antibiotics, CNS depressants, Antidepressants, 		
	Gastro-intestinal and Endocrinal drugs	K/KH	
	 Cardiotoxic plants 		

SI. No.	Topic/ System: (With Competency Number) core/ non-core competency	Small group teaching Domain K/S/A Level K/KH/S/SH	No. of Hours=27
1.	Forensic Pathology (FM2.27, FM2.28)		3
	Core:		
	 Infanticide, foeticide and stillbirth 	K/KH	
	 Signs of intrauterine death, signs of 	K/KH	
	live birth, age determination of		
	foetus, Sudden Infant Death		
	syndrome, Manchausen's syndrome		
	by proxy		
2.	Clinical Forensic Medicine (FM3.15, FM3.16,		2
	FM3.17, FM3.29)		
	Core:		
	 Sexual Offences 	K/KH	
	 Child abuse and battered baby 	K/KH	
	syndrome		
3.	Medical Jurisprudence (FM4.7, FM4.9,		5
	FM4.10, FM4.12, FM4.13, FM4.14, FM4.15,		
	FM4.16, FM4.17, FM4.18, FM4.19, FM4.20,		
	FM4.29)	K/KH	
	 Ethics related to HIV patients 	K/KH	

	•			
	•	Legal and ethical issues in relation to stem cell research	K/KH	
	•	Social aspects of medico-legal cases	,	
		with respect to victims of assault,		
		rape, attempted suicide, homicide,	K/KH	
		domestic violence, dowry-related cases		
	•	Medico-legal issues in relation to	A and C/	
		family violence, violation of human	KH/SH	
		rights, NHRC and doctors (non-Core)	IXII/OII	
	•	Communication between doctors,	K/KH	
		public and media		
	•	Challenges in managing medico-		
		legal cases development of skills in		
		relationship management- Human	K/KH	
		behaviour, communication skills,		
		conflict resolution techniques	K/KH	
	•	Principles of handling pressure while		
		dealing with medico-legal cases	K/KH	
	•	Bioethics; Ethical principles- Respect	K/KH	
		for autonomy, non-malfeasance,	K/KH	
		beneficence & justice		
	•	Medical Negligence		
	•	Consent in Medical Practice		
	•	Therapeutic privilege, Professional		
		Secrecy, malingering		
4.	Forens	sic Psychiatry (FM5.3)		1
	Core:			
	•	Civil and criminal responsibilities of	K/KH	
		a mentally ill person		

5.	Forensic Laboratory investigation in		1
	medico-legal practice (FM6.1, FM6.2,		
	FM6.3)		
	Core:	K/KH	
	 Specimens and tissues (including 		
	methods) to be collected in living	A and C/	
	and dead	KH/SH	
	 Demonstrate professionalism while 		
	sending evidences to Forensic		
	Science laboratory		
6.	Emerging technologies in Forensic Medicine	K/KH	1
	(FM7.1) (non-Core)		
7.	General Toxicology (FM8.7, FM8.9)		1
	Core:		
	 Bedside tests to detect poison 	K/KH	
	 Medico-legal duties of doctor in 	K/KH	
	suspected cases of poisoning		
8.	Chemical Toxicology (FM9.1, FM9.4, FM9.5,		8
	FM9.6)		
	Core:		
	General Principles and basic methodologies	K/KH	
	in treatment of:	K/KH	
	 Corrosives 	K/KH	
	 Alcohol 	K/KH	
	Agricultural poisons		
	 Asphyxiants 		
9.	Biotoxicology (FM11.1)		2
	Core:		
	 Features and management of 	K/KH	
	poisoning by animal Irritants		
10.	Sociomedical Toxicology (FM12.1)		2
	Core:		
	 Features and management of 	K/KH	
	poisoning with Drugs of Abuse		

11.	Enviro	nmental Toxicology (FM13.1, FM13.2)		1
	Core:			
	•	Medicolegal aspects and toxic	K/KH	
		hazards of occupation and industry		
	•	Workman's Compensation Act	K/KH	

SI.	Topic/ System: (With Competency	Self-directed	No. of
No.	Number) core/ non-core competency	learning	Hours=5
		domain K/S/A	
1.	Forencia Detholomy	Level K/KH	1
1.	Forensic Pathology		l
	Core:	17/1711	
	FM2.19: Investigation of anaesthetic,	K/KH	
	operative deaths		-
2.	Clinical Forensic Medicine		1
	Core:	1,,,,,,	
	FM3.21: Pre-conception and Pre Natal-	K/KH	
	Diagnostic Techniques Act (PC&PNDT)-		
	Prohibition of Sex Selection Act 2003 and		
	Domestic Violence Act 2005		
3.	Clinical Forensic Medicine		
	Non-core:		1
	FM3.24: Importance of surgical methods	K/KH	
	of contraception (vasectomy and		
	tubectomy) in the National Family		
	Planning Programme		
4.	Medical Jurisprudence		1
	Core:		
	FM4.22, FM4.23: Hippocratic Oath,	K/KH	
	Charaka and Sushruta Samhita,		
	Procedure for administration of Oath,		
	Modified Declaration of Geneva and its		
	relevance		
5.	Forensic Psychiatry		1
	Non-core:		
	FM5.6: Mental health Care act 2017	K/KH	

ii) PRACTICAL

SI.	Topic/ System: (With Competency		No. of
No.	Number) core/ non-core competency	Domain K/S/A	hours=
		Level K/KH/S/SH	18
1.	FM14.6: Examination of Hair, fibre,	S/KH	2
	semen & other biological fluids		
	FM14.7: Detection of blood in stains	S/KH	
	FM14.8: Blood grouping	S/SH	
2.	FM14.13: Age estimation in intrauterine	S/KH	2
	period		
3.	FM14.15: Examination of Victim of	S/KH	2
	Sexual Violence		
4.	FM14.14: Examination of Accused of	S/KH	2
	Sexual Violence		
5.	FM14.2, FM14.3: Clinical examination of	S/SH	2
	poisoning cases		
6.	FM14.16: Examination of a case of	S/KH	2
	alcohol consumption		
7.	FM14.17: Toxicology specimens	S/KH	2
8.	FM14.19: Histopathological slides of	S/KH	2
	medico-legal importance		
9.	FM14.10: Photographs and wet	S/KH	2
	specimens		

Note: Students will be demonstrated the medico-legal autopsies in small groups as and when the cases arrive.

iii) CERTIFICATION OF SKILLS:

None mentioned in UG curriculum Volume I

iii) AETCOM

Sl. No.	AETCOM Module Number	Lectures [hours]	Small group [hours]	No. of Hours
1.	As allotted			As allotted

4. SCHEME OF EXAMINATION:

Eligibility criteria:

- Learners must secure at least 50% marks of total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the University examination.
- Student should get a minimum of 75% attendance in Theory and 80 % in Practical classes to be eligible to appear for university examination.
- Learners must have completed the required certifiable competencies and completed the log book.

A. FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT:

- A minimum of 2 Internal Assessments (IAs) to be conducted
- One of the internal exams will be conducted like preliminary exams
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Written exams will include MCQ's [MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments.
 However, the same can be assessed in Formative assessments.

The distribution of internal assessment marks shall be as mentioned below:

	DEPARTMENT OF FORENSIC MEDICINE								
	Integrated phase-wise Internal Assessment								
THEORY		Phase 2		Phase 3-1		Final			
		IA-1	IA-2	IA-3	IA-4	Total			
	Theory [#]	30	25	50	75				
Written	MCQ	10	10	10	20				
	AETCOM*		05		05				

FA	Formative assessment: SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments	05	05	10	10	
	Logbook	05	05	10	10	
	Total	50	50	80	120	300

FINAL THEORY IA MARKS = 100 (final total divided by 3)

PRACTICAL INTERNAL ASSESSMENT

- Practical exam shall include exercises that shall be Case scenario based, Skill stations, OSCE stations
- Viva/oral examination shall assess approach to clinical context and included in practical IA marks.

PRACTICALS:

DEPARTMENT OF FORENSIC MEDICINE								
	Integrated phase-wise Internal Assessment							
PRACTICAL Phase 2 Phase 3-1 Total								
EOP/ Practical	Practical skills assessment (OSPE/ Other assessment modalities/ AETCOM)	50	80					
Practical	Viva-voce (may include AETCOM)	10	20					
Others	Formative assessment	10	10					
	Logbook/ Record book	10	10					
	Total	80	120	200				

^{*} To be included as a question in theory paper IA-4 is Preliminary exam

FINAL PRACTICAL IA MARKS = 100 (final total divided by 2)

At least one practical is to be conducted with OSPE as a part of it.

AETCOM may be included as an OSPE station or as a part of viva-voce, if it needs to be assessed in practical (Refer competency booklet & AETCOM module)

* Only if applicable

Blue-printing of Internal assessments in Forensic Medicine

DITIEDDINT	Number of questions					
BLUEPRINT	IA-1	IA-2*	IA-3	IA-4*		
MCQ (1 mark each)	10	10	10	20		
Structured Long Essay (10 marks each)	00	00	01	02		
Short Essay (5 marks each)	04	04	04	08		
Short Answer (2 marks each)	05	05	10	10		
Total (In marks)	40	40	60	100		
* AETCOM should have a weightage of 5 marks						

B. SUMMATIVE ASSESSMENT:

Forensic medicine is learnt and assessed during professional years [PY] 2 and 3 part 1. SA will be held at the end of 3rd professional year part 1.

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) to pass
- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university of that subject.
- Internal assessment will appear as a separate head of passing at summative exams

A candidate, who has not secured requisite aggregate in the internal assessment has
to successfully complete the remediation measures prescribed by the University as
the case may be prior to the declaration of his/her results in that particular phase.
Candidates who fail to meet prescribed 50% marks in internal assessment after
availing remedial measures will not be eligible for the university exams.

MARKS DISTRBUTION FOR UNIVERSITY SUMMATIVE EXAMINATION

THEOR	Υ	THEORY TOTAL	PRACTICAL		PRACTIC AL
Written paper	MCQ's		PRACTICAL	VIVA	TOTAL
80	20	100	80	20	100

Time: 3 hours for theory paper

The pattern of questions in theory paper shall be as mentioned below:

Type of Question	Number of Questions	Maximum Marks for each question	Total
Structured Long essay questions (SLEQ)	2	10	20
Short essay questions (SEQ) (Includes case vignette based questions)	8	05	40
Short answer questions (SAQ)	10	02	20
Multiple Choice Questions (MCQs)	20	01	20
Total marks			100

The question papers shall be based on the blue print of question paper setting.

 Total marks under each type of question from each topic needs to be entered by OP Setter. • It should be in accordance with Shri Dharmasthala Manjunatheshwara University guidelines.

Blueprint for the theory examinations (For use by the question paper setter)

PAPER TOPICS	Weightage of marks as per SDMU guidelines	MCQs 1 mark each	SLEQs 10 marks each	SEQs 5 marks each	SAQs 2 marks each	Total Marks*
Introduction with history of Forensic medicine and Legal Procedure	05					
Death and its causes, Medico-legal autopsy, Postmortem changes, Identification, trace evidence, Bio-medical waste	16					
Mechanical injuries including firearm injuries, transportation injuries, Thermal injuries, Examination of an injured person	16					
Asphyxial deaths, starvation	8					
Impotence, Sterility, Virginity, Pregnancy, delivery, Abortion, Infanticide, Sexual offences	14					
Medical Jurisprudence	11					
Forensic Psychiatry	5					
Toxicology a) Agricultural	20					

	poisons				
b)	Corrosive poisons				
c)	Metallic poisons				
d)	Inorganic irritants				
e)	Organic irritants				
f)	CNS depressants				
g)	Psychotropic				
	drugs				
h)	Delirient poisons				
i)	Spinal poisons				
j)	Cardiac poisons				
k)	Asphyxiants				
1)	Drug dependence				
	and abuse				
m)	Food poisoning				
AET	СОМ	SEQ			
		Case			
		vignette			
		based			
		5 marks			
TOT	AL	100*			

^{*}Total marks include MCQs.

The weightage of marks allotted for each topic shall be strictly adhered to while setting a question paper. A minimum of 10% and up to a maximum of 30% marks shall be allocated to assess the higher order thinking of the learner.

The questions framed shall be with appropriate verbs without any ambiguity or overlap.

PRACTICAL SUMMATIVE EXAMINATION: TOTAL 100 MARKS

Practical Exercises: 80 MARKS

1. Spotters: 20 Marks

Age estimation: 20 Marks
 Certificates: 10 Marks

Weapon examination: 10 Marks
 Bone examination: 10 Marks
 X-ray examination: 05 Marks
 Autopsy Questions: 05 Marks

Practical Viva Voce: 20 MARKS

5. **INTEGRATION**:

SI	Competency	Competency to be integrated	Integrati	ing department
No	No.	by nesting/ sharing/ aligning/ correlation	Horizontal	Vertical
Topi	ic: Forensic Path	ology		
1	FM2.19	Investigation of anaesthetic, operative deaths – Describe and discuss special protocols for conduction of autopsy and for collection, preservation and dispatch of related material evidences	-	Anaesthesiology, General Surgery
2	FM2.27	Define and discuss infanticide, foeticide and stillbirth	-	Paediatrics
3	FM2.28	Describe and discuss signs of intrauterine death, signs of live birth, viability of foetus, age determination of foetus, DOAP session of ossification centres, Hydrostatic test, Sudden Infants Death syndrome and Munchausen's	-	Pediatrics, Human Anatomy

		aduama bnua		
		syndrome by proxy		AFTOOM
		Demonstrate ability to		AETCOM
		exchange information by		
		verbal, or nonverbal		
4	FM2.32	communication to the peers,	-	
		family members, law		
		enforcing agency and		
		judiciary		
Topi	ic: Clinical Foren	sic Medicine		
		Describe different types of		Obstetrics &
		sexual offences. Describe		Gynaecology
		various sections of IPC		
		regarding rape including		
5	FM3.13	definition of rape (Section	-	
		375 IPC), Punishment for		
		Rape (Section 376 IPC) and		
		recent		
		amendments notified till date		
		SEXUAL OFFENCES		Obstetrics &
		Describe and discuss the		Gynaecology,
		examination of the victim of		Psychiatry
		an alleged case of rape, and		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
6	FM3.14	the preparation of report,	_	
		framing the opinion and		
		preservation and despatch of		
		trace evidences in such		
		cases		
		SEXUAL OFFENCES		Obstetrics &
		Describe and discuss		Gynaecology,
		examination of accused and		Psychiatry
		victim of sodomy,		1 Sycillatiy
7	FM3.15	preparation of report, framing	-	
		of opinion, preservation and		
		•		
		despatch of trace evidences in such cases		
		SEXUAL OFFENCES		Obstatrics 0
8	FM3.16		-	Obstetrics &
		Describe and discuss		Gynaecology,

adultery and unnatural sexual offences-sodomy, incest, lesbianism, buccal coitus, bestiality, indecent assault and preparation of report, framing the opinion and preservation and despatch of trace evidences in such cases	Í		adultany and upnatural accord		Doughistry
lesbianism, buccal coitus, bestiality, indecent assault and preparation of report, framing the opinion and preservation and despatch of trace evidences in such cases			_		rsychiatry
bestiality, indecent assault and preparation of report, framing the opinion and preservation and despatch of trace evidences in such cases			-		
and preparation of report, framing the opinion and preservation and despatch of trace evidences in such cases					
framing the opinion and preservation and despatch of trace evidences in such cases			_		
preservation and despatch of trace evidences in such cases					
trace evidences in such cases					
cases			_ ·		
			Describe and discuss the		Obstetrics &
sexual perversions fetishism, Gynaecology,			-		, ,,,
9 FM3.17 transvestism, voyeurism,	g	FM3 17	_	_	Psychiatry
sadism, necrophagia,		1			
masochism, exhibitionism,					
frotteurism, Necrophilia			frotteurism, Necrophilia		
Describe anatomy of male Obstetrics &		FM3.18	_		Obstetrics &
and female genitalia, hymen Gynaecology					Gynaecology
and its types. Discuss the			and its types. Discuss the		
10 FM3.18 medico-legal importance of	10		medico-legal importance of	_	
hymen. Define	10		hymen. Define		
virginity, defloration,			virginity, defloration,		
legitimacy and its			legitimacy and its		
medicolegal importance			medicolegal importance		
Discuss the medicolegal Obstetrics &			Discuss the medicolegal		Obstetrics &
aspects of pregnancy and Gynaecology			aspects of pregnancy and		Gynaecology
delivery, signs			delivery, signs		
of pregnancy, precipitate			of pregnancy, precipitate		
11 FM3.19 labour superfoetation, -	11	FM3.19	labour superfoetation,	-	
superfecundation			superfecundation		
and signs of recent and			and signs of recent and		
remote delivery in living and			_		
dead					
Discuss disputed paternity Obstetrics &	10	EM2 20	Discuss disputed paternity		Obstetrics &
12 FM3.20 and maternity - Gynaecology	12	FIVI3.2U		-	Gynaecology
Discuss Pre-conception and Obstetrics &			Discuss Pre-conception and		Obstetrics &
13 FM3.21 Pre Natal-Diagnostic - Gynaecology,	13	FM3.21		-	Gynaecology,
Techniques AETCOM			_		AETCOM

		(DCODNIDT) Drobibition of		
		(PC&PNDT) - Prohibition of Sex Selection Act 2003 and		
		Domestic Violence Act 2005		Object of the control
		Define and discuss		Obstetrics &
		impotence, sterility, frigidity,		Gynaecology,
		sexual dysfunction,		General
14	FM3.22	premature ejaculation.	-	Medicine
		Discuss the causes of		
		impotence and sterility in		
		male and female		
		Discuss Sterilization of male		Obstetrics &
		and female, artificial		Gynaecology
		insemination,		
15	FM3.23	Test Tube Baby, surrogate		
15	FIVI3.23	mother, hormonal	-	
		replacement therapy with		
		respect to appropriate		
		national and state laws		
		Discuss the relative		Obstetrics &
		importance of surgical		Gynaecology
		methods of contraception		
16	FM3.24	(vasectomy and tubectomy)	-	
		as methods of contraception		
		in the National Family		
		Planning Programme		
		Discuss the major results of		Obstetrics &
17	FM3.25	the National Family Health	-	Gynaecology
		Survey		,
		Discuss the national		Obstetrics &
		Guidelines for accreditation,		Gynaecology
18	FM3.26	supervision & regulation of	-	
		ART Clinics in India		
		Define, classify and discuss		Obstetrics &
		abortion, methods of		Gynaecology,
19	FM3.27	procuring MTP and criminal	_	AETCOM
'	1 1010.21	abortion and complication of		7 12 1 00 W
		abortion. MTP Act 1971		
		abultium. WIT ACL 1911		

	-	Ι	1	Ι
		Describe evidences of		Obstetrics &
		abortion - living and dead,		Gynaecology,
20	FM3.28	duties of doctor in cases of	_	Pathology
		abortion, investigations of		
		death due to criminal		
		abortion		
		Describe and discuss child		Pediatrics
21	FM3.29	abuse and battered baby	-	
		syndrome		
Topi	c: Medical Juris	prudence (Medical Law and Ethio	es)	,
		Describe Medical Ethics and		AETCOM
22	FM4.1	explain its historical	-	
		emergence		
		Describe the Code of Medical		AETCOM
		Ethics 2002 conduct,		
22	FM4.2	Etiquette and Ethics in		
23	FM4.2	medical practice and	-	
		unethical practices & the		
		dichotomy		
		Describe the functions and		AETCOM
0.4	EM4.0	role of Medical Council of		
24	FM4.3	India and	_	
		State Medical Councils		
0.5	EN4.4	Describe the Indian Medical		AETCOM
25	FM4.4	Register	-	
		Rights/privileges of a		AETCOM
		medical practitioner, penal		
		erasure, infamous conduct,		
26	FM4.5	disciplinary Committee,	-	
		disciplinary procedures,		
		warning notice and penal		
		erasure		
		Describe the Laws in Relation		AETCOM
		to medical practice and the		
27	FM4.6	duties of a medical	-	
		practitioner towards patients		
		and society		
	I .		I	<u> </u>

		Describe and discrete		ACTOOM
28	FM4.7	Describe and discuss the	-	AETCOM
		ethics related to HIV patients		AFTOOM
		Describe the Consumer		AETCOM
		Protection Act-1986 (Medical		
29	FM4.8	Indemnity Insurance, Civil	_	
		Litigations and		
		Compensations), Workman's		
		Compensation Act & ESI Act		
		Describe the medico - legal		AETCOM
30	FM4.9	issues in relation to family	_	
30	1 1014.5	violence, violation of human		
		rights, NHRC and doctors		
		Describe communication		AETCOM
31	FM4.10	between doctors, public and	-	
		media		
32	FM4.11	Describe and discuss		AETCOM,
32	FIVI4.11	euthanasia	-	Pharmacology
		Discuss legal and ethical		AETCOM,
33	FM4.12	issues in relation to stem cell	-	Pharmacology
		research		
		Describe social aspects of		AETCOM
		Medico-legal cases with		
0.4	FN4.10	respect to victims of assault,		
34	FM4.13	rape, attempted suicide,	-	
		homicide, domestic violence,		
		dowry- related cases		
		Describe & discuss the		AETCOM
		challenges in managing		
		medico-legal cases including		
		development of skills in		
35	FM4.14	relationship management –	-	
		Human behaviour,		
		communication skills,		
		conflict resolution		
		techniques		
		Describe the principles of		AETCOM
36	FM4.15	handling pressure –	-	7.2100111
		nanding pressure		

		definition types source		
		definition, types, causes, sources and skills for		
		managing the pressure while		
		dealing with medico-legal		
		cases by the doctor		AFTOOM
37	FM4.16	Describe and discuss	-	AETCOM
		Bioethics		4570014
		Describe and discuss ethical		AETCOM,
38	FM4.17	Principles: Respect for	-	Pharmacology
		autonomy, nonmalfeasance,		
		beneficence & justice		
		Describe and discuss medical		AETCOM
		negligence including civil and		
		criminal negligence,		
		contributory negligence,		
		corporate negligence,		
39	FM4.18	vicarious	-	
		liability, Res Ipsa Loquitor,		
		prevention of medical		
		negligence and defenses in		
		medical negligence		
		litigations		
		Define Consent. Describe		AETCOM
		different types of consent		
		and ingredients of informed		
		consent. Describe the rules		
40	FM4.19	of consent and importance of	-	
		consent in relation to age,		
		emergency situation, mental		
		illness and alcohol		
		intoxication		
		Describe therapeutic		AETCOM
		privilege, Malingering,		
41	EM4.00	Therapeutic		
41	FM4.20	- I	-	
		Secrecy, Human		
	I	Experimentation	1	
40	FM4.19 FM4.20	and ingredients of informed consent. Describe the rules of consent and importance of consent in relation to age, emergency situation, mental illness and alcohol intoxication Describe therapeutic privilege, Malingering, Therapeutic Misadventure, Professional	-	AETCOM

		Describe Products liability		AETCOM
42	FM4.21	and Medical Indemnity	-	
		Insurance		
		Explain Oath – Hippocrates,		AETCOM,
43	FM4.22	Charaka and Sushruta and		Pharmacology
43	1 1014.22	procedure for administration		
		of Oath.		
		Describe the modified		AETCOM,
44	FM4.23	Declaration of Geneva and its	-	Pharmacology
		relevance		
		Enumerate rights, privileges		AETCOM
		and duties of a Registered		
		Medical		
45	FM4.24	Practitioner. Discuss doctor-	_	
75	1 1017.27	patient relationship:		
		professional		
		secrecy and privileged		
		communication		
		Clinical research & Ethics		AETCOM,
46	FM4.25	Discuss human	_	Pharmacology
10	F1V14.25	experimentation including		
		clinical trials		
		Discuss the constitution and		AETCOM,
47	FM4.26	functions of ethical	-	Pharmacology
		committees		
		Describe and discuss Ethical		AETCOM,
48	FM4.27	Guidelines for Biomedical	_	Pharmacology
		Research on Human Subjects		
		& Animals		
		Demonstrate respect to laws		AETCOM
		relating to medical practice		
		and Ethical code of conduct		
49	FM4.28	prescribed by Medical	-	
		Council of India and rules and		
		regulations prescribed by it		
		from time to time		
50	FM4.29	Demonstrate ability to	-	AETCOM

		communicate communicately					
		communicate appropriately					
		with media, public and					
		doctors		AFTOOM			
		Demonstrate ability to		AETCOM			
51	FM4.30	conduct research in	_				
		pursuance to guidelines or					
		research ethics					
Topi	c: Forensic Psyc		_	T			
		Classify common mental		Psychiatry			
52	FM5.1	illnesses including post-					
JZ	I IVIJ. I	traumatic stress disorder					
		(PTSD)					
		Define, classify and describe		Psychiatry			
		delusions, hallucinations,					
53	FM5.2	illusion, lucid interval and	-				
		obsessions with					
		exemplification					
		Describe Civil and criminal		Psychiatry			
54	FM5.3	responsibilities of a mentally	-				
		ill person					
		Differentiate between true		Psychiatry			
55	FM5.4	insanity from feigned	-				
		insanity					
F.C.	5145 F	Describe & discuss Delirium		Psychiatry,			
56	FM5.5	tremens	-	General Medicine			
		Describe the Indian Mental		Psychiatry			
		Health Care Act, 2017 with		, ,			
		special reference to					
57	FM5.6	admission, care and	-				
		discharge of a mentally ill					
		person					
Topi	Topic: Forensic Laboratory investigation in medico-legal practice						
- 1		Describe different types of	J. p	Pathology			
		specimen and tissues to be		<i>y</i>			
58	FM6.1	collected both in the living	_				
	100.1	and dead: Body fluids (blood,					
		urine, semen, faeces saliva),					
		arme, semen, racces sanva),					

		Skin, Nails, tooth pulp,		
		vaginal smear, viscera, skull,		
		specimen for histo-		
		pathological examination,		
		blood grouping, HLA Typing		
		and DNA Fingerprinting.		
		Describe Locard's Exchange		
		Principle Principle		
Toni	c: General Toxic			
		Describe the history of		Pharmacology
59	FM8.1	Toxicology	-	, marmacology
		Define the terms Toxicology,		Pharmacology
60	FM8.2	Forensic Toxicology, Clinical	_	,
		Toxicology and poison		
		Describe the various types of		Pharmacology
		poisons, Toxicokinetics, and		,
61	FM8.3	Toxicodynamics and	_	
		diagnosis of poisoning in		
		living and dead		
		Describe the Laws in		Pharmacology
60	5140 A	relations to poisons including		3,
62	FM8.4	NDPS Act, Medico-legal	-	
		aspects of poisons		
		Describe Medico-legal		Pharmacology
		autopsy in cases of		
63	FM8.5	poisoning including	-	
		preservation and dispatch of		
		viscera for chemical analysis		
		Describe the general		Pharmacology
		symptoms, principles of		
64	FM8.6	diagnosis and	-	
		management of common		
		poisons encountered in India		
		Describe simple Bedside		Pharmacology,
65	FM8.7	clinic tests to detect		General Medicine
υü	I IVIO. I	poison/drug in a		
		patient's body fluids		

	T	T	1	T
		Describe basic		Pharmacology,
		methodologies in treatment		General Medicine
		of poisoning:		
66	FM8.8	decontamination, supportive	-	
		therapy, antidote therapy,		
		procedures of enhanced		
		elimination		
Topi	c: Chemical Toxi	cology		
		Describe General Principles		Pharmacology,
		and basic methodologies in		General Medicine
		treatment		
		of poisoning:		
		decontamination, supportive		
		therapy, antidote therapy,		
67	FM9.1	procedures of enhanced		
07		elimination with regard to:	-	
		Caustics Inorganic -		
		sulphuric, nitric, and		
		hydrochloric acids; Organic-		
		Carboloic Acid (phenol),		
		Oxalic and acetylsalicylic		
		acids		
		Describe General Principles		Pharmacology,
		and basic methodologies in		General Medicine
		treatment		
		of poisoning:		
68	FM9.2	decontamination, supportive	-	
		therapy, antidote therapy,		
		procedures of enhanced		
		elimination with regard to		
		Phosphorus, Iodine, Barium		
		Describe General Principles		Pharmacology,
60	EMO 2	and basic methodologies in		General Medicine
69	FM9.3	treatment	-	
		of poisoning:		

		decontamination, supportive		
		therapy, antidote therapy,		
		procedures of enhanced		
		elimination with regard to		
		Arsenic, lead, mercury,		
		copper, iron, cadmium and		
		thallium		
		Describe General Principles		Pharmacology,
		and basic methodologies in		General Medicine
		treatment		
		of poisoning:		
70	FM9.4	decontamination, supportive	_	
10	1 1013.4	therapy, antidote therapy,		
		procedures of enhanced		
		elimination with regard to		
		Ethanol, methanol, ethylene		
		glycol		
		Describe General Principles		Pharmacology,
		and basic methodologies in		General Medicine
		treatment		
		of poisoning:		
		decontamination, supportive		
		therapy, antidote therapy,		
71	FM9.5	procedures of enhanced	-	
		elimination with regard to		
		Organophosphates,		
		Carbamates,		
		Organochlorines, Pyrethroids,		
		Paraquat, Aluminium and		
		Zinc phosphide		
		Describe General Principles		Pharmacology,
		and basic methodologies in		General Medicine
		treatment		
72	FM9.6	of poisoning:	-	
		decontamination, supportive		
		therapy, antidote therapy,		
		procedures of enhanced		
	1	p. cocaa.co o. cimanoca	1	<u> </u>

	1	I	Ī	
		elimination with regard to		
		Ammonia, carbon monoxide,		
		hydrogen cyanide &		
		derivatives, methyl		
		isocyanate, tear (riot control)		
		gases		
Toni	c: Pharmaceutic	al Tovicology		
торі	C. Filalillaceutic	Describe General Principles		Pharmacology,
		-		General Medicine
		and basic methodologies in treatment		General Medicine
		of poisoning:		
		decontamination, supportive		
		therapy, antidote therapy,		
		procedures of enhanced		
	FM10.1	elimination with regard to:		
		i. Antipyretics –		
		Paracetamol, Salicylates		
		ii. Anti-Infectives (Common		
		antibiotics – an overview)		
73		iii. Neuropsychotoxicology	_	
10		Barbiturates, benzodiazepins		
		phenytoin, lithium,		
		haloperidol, neuroleptics,		
		tricyclics		
		iv. Narcotic Analgesics,		
		Anaesthetics, and Muscle		
		Relaxants		
		v. Cardiovascular Toxicology		
		Cardiotoxic plants -		
		oleander,		
		odollam, aconite, digitalis vi.		
		Gastro- Intestinal and		
		Endocrinal Drugs – Insulin		

Topic: Biotoxicology				
74	FM11.1	Describe features and management of Snake bite, scorpion sting, bee and wasp sting and spider bite	-	General Medicine
Topi	c: Sociomedical	Toxicology		
75	FM12.1	Describe features and management of abuse/poisoning with following chemicals: Tobacco, cannabis, amphetamines, cocaine, hallucinogens, designer drugs & solvent	-	General Medicine
Topi	c: Environmenta	Toxicology		
76	FM13.1	Describe toxic pollution of environment, its medico-legal aspects & toxic hazards of occupation and industry	-	General Medicine
Topi	c: Skills in Foren	sic Medicine & Toxicology	•	
77	FM14.2	Demonstrate the correct technique of clinical examination in a suspected case of poisoning & prepare medico-legal report in a simulated/ supervised environment	-	General Medicine
78	FM14.3	Assist and demonstrate the proper technique in collecting, preserving and dispatch of the exhibits in a suspected case of poisoning, along with clinical examination	-	General Medicine

79	FM14.7	Demonstrate & identify that a particular stain is blood and identify the species of its origin	-	Pathology, Physiology
80	FM14.8	Demonstrate the correct technique to perform and identify ABO & RH blood group of a person	-	Pathology, Physiology

6. RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS

Text books:

- 1. K.S. Narayan Reddy, Essentials of Forensic Medicine and Toxicology, Medical Book company, Hyderabad 34th Edition 2017.
- 2. Modi, Test Book of Forensic Medicine Edited by Justice K Kannan. LexisNexis- 26th Edition 2018.
- 3. V.V. Pillay, Modern Medical Toxicology, Jaypee brothers, 4th edition, 2013.
- 4. J.B. Mukherjee, Forensic Medicine and Toxicology Vol I, II and III, 2nd Edition

Reference books:

- 1. Bernard Knight, Forensic Pathology, Arnold, 4th Edition 2016
- 2. Gordon and Shapiro, Forensic Medicine, Churchill Livingstone, 3rd Edition, 1988.

GENERAL MEDICINE

1. GOAL

Our goal is to train the learner to perform as a clinician

- who is capable of providing preventive, promotive, curative, palliative and holistic care with compassion to patients having common ailments
- who can lead and function in a health care team efficiently
- who is capable of communicating with patients and their families appropriately
- who is committed to continuous self-improvement in skills and knowledge
- who is a committed, ethical and responsive professional
- who is accountable to patients, community and profession.

2. OBJECTIVES:

2.1 KNOWLEDGE

The Indian Medical Graduate after his/her training in the department of General Medicine at SDMCMS&H should be able to demonstrate understanding of the pathophysiologic basis, epidemiological profile, signs and symptoms of diseases and their investigation, management, prevention and palliation.

2.2 SKILLS: At the end of the course the student should be able to:

- 1. Competently interview and examine an adult patient and make a clinical diagnosis
- 2. Appropriately order and interpret laboratory tests
- Initiate appropriate cost-effective treatment based on an understanding of the rational drug prescriptions, medical interventions required and preventive measures
- 4. Independently perform common medical procedures safely
- 5. Document his/her observations accurately
- 6. Follow up patients with medical problems and refer whenever required
- 7. Communicate effectively, educate and counsel the patient and family
- 8. Manage common medical emergencies and refer when required

2.3 ATTITUDE AND COMMUNICATION SKILLS: At the end of the course, the learner shall be able to

- 1. Respect patient's autonomy
- 2. Do no harm
- 3. Understand and follow the principle of beneficence
- 4. Think and act in a just manner
- 5. Demonstrate empathy
- 6. Respect privacy
- 7. Maintain confidentiality
- 8. Communicate effectively
- 9. Educate and counsel the patient and family
- 10. Maintain punctuality
- 11. Work in a team of peers, seniors and interdepartmental personnel

2.4 INTEGRATION

At the end of the course, the learner shall be able to form concepts through aligned and integrated learning experiences in order to provide sound biologic basis incorporating the principles of general medicine into a holistic and comprehensive approach to the care of the patient.

3. TEACHING HOURS AND COURSE CONTENT

C. Teaching Hours

SI.	l eaching Learning Method Theory	
No		
1	Large group teaching	25
2	Small group teaching (SGT): SGD/Tutorials/Seminars	35
3	Self-directed Learning(SDL)	05
	TOTAL	65

SI. No	Teaching Learning	Method Practicals	No. of weeks
1	Bedside clinics		4
		TOTAL	

SI. No	Teaching Learning Method	No. of Hours
1	AETCOM	-
2	Skill Lab	
	TOTAL	

D. Course contents

ii. THEORY

SI. No	Topic/ System : (With Competency Number) core/ non-core competency	Large group teaching domain K LEVEL K/KH	No. of Hours=2 5
1	Topic: IM 3 pneumonia		1
	Approach to a patient with pneumonia- Definition, types, etiologies, risk factors,		
	pathology and pathogenesis		
	IM3.1 Define, discuss, describe and distinguish		
	community acquired pneumonia, nosocomial		
	pneumonia and aspiration pneumonia		
	IM3.2 Discuss and describe the etiologies of various kinds of pneumonia and their microbiology		
	depending on the setting and immune status of the		
	host		
	IM3.3 Discuss and describe the pathogenesis, presentation, natural history and complications of		
	pneumonia		

2 App	roach to a patient with pneumonia-	KKY	1
clin	ical presentation, investigations, management	NESTING-	
com	plications and prevention	Microbiology	
IM3	.3 Discuss and describe the pathogenesis,	ASSESSMENT	
pres	sentation, natural history and complications of	-Short note/	
pne	umonia	Viva voce	
IM3	.4 Elicit document and present an appropriate		
hist	ory including the evolution, risk factors		
incl	uding immune status and occupational risk		
IM3	.7 Order and interpret diagnostic tests based		
on t	he clinical presentation including: CBC, Chest X		
ray	PA view, Mantoux, sputum gram stain, sputum		
cult	ure and sensitivity, pleural fluid examination		
and	culture, HIV testing and ABG		
IM3	.12 Select, describe and prescribe based on the		
mos	st likely aetiology, an appropriate empirical		
anti	microbial based on the pharmacology and		
	microbial spectrum		
IM3	.13 Select, describe and prescribe based on		
cult	ure and sensitivity appropriate empaling		
anti	microbial based on the pharmacology and		
	microbial spectrum		
_	.15 Describe and enumerate the indications for		
hos	pitalisation in patients with pneumonia		
IM3	.16 Describe and enumerate the indications for		
isola	ation and barrier nursing in patients with		
pne	umonia		
IM3	.17 Describe and discuss the supportive		
	apy in patients with pneumonia including		
	gen use and indications for ventilation		
	.19 Discuss, describe, enumerate the		
	cations and communicate to patients on		
pne	umococcal and influenza vaccines		

3	Topic: IM 4 Fever and febrile syndromes Approach to a patient with fever- Host – pathogen interaction and Microbial pathogenesis IM4.1 Describe and discuss the febrile response and the influence of host immune status, risk factors and comorbidities on the febrile response IM4.2 Describe and discuss the influence of special populations on the febrile response including: the elderly, immune suppression, malignancy and neutropenia, HIV and travel	K K Y Lecture, Small group discussion Written Microbiology	1
4	PUO – nosocomial, neutropenic, HIV associated and classic – definition , causes, lab diagnosis and treatment. IM4.8 Discuss and describe the pathophysiology, aetiology and clinical manifestations of fever of unknown origin (FUO) including in a normal host neutropenic host nosocomial host, and a host with HIV IM4.4 Describe and discuss the pathophysiology and manifestations of inflammatory causes of fever IM4.5 Describe and discuss the pathophysiology and manifestations of malignant causes of fever including hematologic and lymph node malignancies IM4.16 Enumerate the indications and describe the findings in tests of inflammation and specific rheumatologic tests, serologic testing for pathogens including HIV, bone marrow aspiration and biopsy IM4.18 Enumerate the indications for use of imaging in the diagnosis of febrile syndromes IM4.21 Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost	K K Y Lecture, Written Microbiology	1

	T		1
	effective manner IM4.24 Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis IM25.8 Enumerate the indications for use of newer techniques in the diagnosis of these infections		
5	Sepsis syndrome IM4.7 Discuss and describe the pathophysiology and manifestations of the sepsis syndrome IM4.16 Enumerate the indications and describe the findings in tests of inflammation and specific rheumatologic tests, serologic testing for pathogens including HIV, bone marrow aspiration and biopsy IM4.18 Enumerate the indications for use of imaging in the diagnosis of febrile syndromes IM4.24 Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis IM25.8 Enumerate the indications for use of newer techniques in the diagnosis of these infections	K K Y Lecture, Written Microbiology	1
6	Infections of skin, muscles and soft tissues	K K Y Lecture, Written Microbiology	1
7	Urinary tract infections	K K Y Lecture, Written Microbiology	1
8	Infections acquired in health care facilities and in transplant recipients MI8.5 Define Healthcare Associated Infections (HAI) and enumerate its types. Discuss the factors that contribute to the development of HAI and the methods for prevention	K K Y Lecture, Written Microbiology	1
9	Arthropod and rodent borne infections – fever with jaundice, fever with arthritis, fever with encephalitis, [JE, KFD, dengue, chikungunya, others]	K K Y Lecture, Written Microbiology	1

10	IM4.3 Discuss and describe the common causes, pathophysiology and manifestations of fever in various regions in India including bacterial, parasitic and viral causes (e.g.Dengue, Chikungunya,Typhus Arthropod and rodent borne infections —	K K Y Lecture,	1
	fever with rash, fever with arthritis, fever with hemorrhage [JE, KFD, dengue, chikungunya, others] IM4.3 Discuss and describe the common causes, pathophysiology and manifestations of fever in various regions in India including bacterial, parasitic and viral causes (e.g.Dengue, Chikungunya,Typhus	Written Microbiology	
11	Rickettsial diseases	K K Y Lecture, Written Microbiology	1
12	Enteric fever – etiopathogenesis, clinical features and management .	K K Y Lecture, Written Microbiology	1
13	Leptospirosis IM25.1 Describe and discuss the response and the influence of host immune status, risk factors and comorbidities on zoonotic diseases (e.g. Leptospirosis, Rabies) and non-febrile infectious disease (e.g. Tetanus) discussion Community Medicine IM25.2 Discuss and describe the common causes, pathophysiology and manifestations of these diseases IM25.2 Discuss and describe the common causes, pathophysiology and manifestations of these diseases IM25.3 Describe and discuss the pathophysiology and manifestations of these disease IM25.4 Elicit document and present a medical history that helps delineate the aetiology of these	K K Y Lecture, Written Microbiology	1

	diseases that includes the evolution and pattern of symptoms, risk factors, exposure through		
	occupation and travel		
	IM25.5 Perform a systematic examination that		
	establishes the diagnosis and severity of		
	presentation that includes: general skin, mucosal		
	and lymph node examination, chest and abdominal		
	examination (including examination of the liver		
	and spleen)		
	IM25.6 Generate a differential diagnosis and		
	prioritise based on clinical features that help		
	distinguish between infective, inflammatory,		
	malignant and rheumatologic causes		
	IM25.7 Order and interpret diagnostic tests based		
	on the differential diagnosis including: CBC with		
	differential, blood biochemistry, peripheral smear,		
	urinary analysis with sediment, Chest X ray, blood		
	and urine cultures, sputum gram stain and		
	cultures, sputum AFB and cultures, CSF analysis,		
	pleural and body fluid analysis, stool routine and		
	culture and QBC		
	IM25.8 Enumerate the indications for use of newer		
	techniques in the diagnosis of these infections		
14	TOPIC 6 HIV	K K Y Lecture,	1
	Define HIV/AIDS, describe etiologic agent, classify	Written	
	by cdc criteria, clinical features, aids defining	Microbiology	
	illnesses, opportunistic infections and		
	malignancies, prevention, laboratory diagnosis and		
	treatment		
	IM6.2 Define and classify HIV AIDS based on the		
	CDC criteria		
	IM6.1 Describe and discuss the symptoms and		
	signs of acute HIV seroconversion		
	IM6.9 Choose and interpret appropriate diagnostic		
	tests to diagnose and classify the severity of HIV-		
	AIDS including specific tests of HIV, CDC		

15	TOPIC 6 HIV	K K Y Lecture,	1
10	Define HIV/AIDS, describe etiologic agent, classify	Written	•
	by cdc criteria, clinical features, aids defining	Microbiology	
	illnesses, opportunistic infections and	Wildrobiology	
	malignancies, prevention, laboratory diagnosis and		
	treatment		
	IM6.3 Describe and discuss the relationship		
	•		
	between CDC count and the risk of opportunistic infections		
	IM6.4 Describe and discuss the pathogenesis,		
	evolution and clinical features of common HIV		
	related opportunistic infections		
	IM6.5 Describe and discuss the pathogenesis,		
	evolution and clinical features of common HIV		
	related malignancies		
	IM6.6 Describe and discuss the pathogenesis,		
	evolution and clinical features of common HIV		
	related skin and oral lesions		
	IM6.7 Elicit document and present a medical		
	history that helps delineate the aetiology of the		
	current presentation and includes risk factors for		
	HIV, mode of infection, other sexually transmitted		
	diseases, risks for opportunistic infections and		
	nutritional status		
	IM6.8 Generate a differential diagnosis and		
	prioritise based on clinical features that suggest a		
	specific aetiology for the presenting symptom		
16	Continued-define HIV/AIDS, describe etiologic	K K Y Lecture,	1
	agent, classify by CDC criteria, clinical features,	Written	
	AIDS defining illnesses, opportunistic infections	Microbiology	
	and malignancies, prevention, laboratory diagnosis	,	
	and treatment		
	IM6.10 Choose and interpret appropriate		
	diagnostic tests to diagnose opportunistic		
	infections including CBC sputum examination and		
	opportunistic infections including CBC, sputum		
	examination and assessment cultures, blood		
	באמווווומנוטוו מווע מססכססוווכוונ כעונעוכס, טוטטע		

	cultures, stool analysis, CSF analysis and Chest radiographs		
	IM6.11 Enumerate the indications and describe the		
	findings for CT of the chest and brain and MR		
	IM6.12 Enumerate the indications for and interpret		
	the results of: pulse oximetry, ABG, Chest		
	Radiograph		
	IM6.13 Describe and enumerate the indications		
	and side effects of drugs for bacterial, viral and		
	other types of diarrhea		
	IM6.16 Discuss and describe the principles of		
	HAART, the classes of antiretrovirals used, adverse		
	reactions and interactions		
	IM6.18 Enumerate the indications and discuss		
	prophylactic drugs used to prevent HIV related		
17	opportunistic infections	1/1///	1
17	Miscellaneous Infections IM25	K K Y Lecture,	1
	Zoonotic diseases - Rabies, tetanus	Written	
	IM25.1 Describe and discuss the response and the influence of host immune status, risk factors and	Microbiology	
	comorbidities on zoonotic diseases (e.g.		
	Leptospirosis, Rabies) and non-febrile infectious		
	disease (e.g. Tetanus) discussion Community		
	Medicine		
	IM25.2 Discuss and describe the common causes,		
	pathophysiology and manifestations of these		
	diseases		
	IM25.3 Describe and discuss the pathophysiology		
	and manifestations of these disease		
	IM25.4 Elicit document and present a medical		
	history that helps delineate the aetiology of these		
	diseases that includes the evolution and pattern of		
	symptoms, risk factors, exposure through		
	occupation and travel		
	IM25.5 Perform a systematic examination that		
	establishes the diagnosis and severity of presentation that includes: general skin, mucosal		
i	I mysssamtation that includes a second sline mailessal	1	

and lymph node examination, chest and abdominal examination (including examination of the liver and spleen) IM25.6 Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes IM25.7 Order and interpret diagnostic tests based on the differential diagnosis including: CBC with differential, blood biochemistry, peripheral smear, urinary analysis with sediment, Chest X ray, blood and urine cultures, sputum gram stain and cultures, sputum AFB and cultures, CSF analysis, pleural and body fluid analysis, stool routine and culture and OBC IM25.8 Enumerate the indications for use of newer techniques in the diagnosis of these infections IM25.10 Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost effective manner IM25.11 Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis IM25.12 Communicate to the patient and family the diagnosis and treatment of identified infection

IM25.13 Counsel the patient and family on prevention of various infections due to

environmental issues

18	Miscellaneous Infections IM25	K K Y Lecture,	1
10	Plague, anthrax	Written	'
	IM25.1 Describe and discuss the response and the	Microbiology	
	influence of host immune status, risk factors and	Wildrobiology	
	comorbidities on zoonotic diseases (e.g.		
	Leptospirosis, Rabies) and non-febrile infectious		
	disease (e.g. Tetanus) discussion Community		
	Medicine		
	IM25.2 Discuss and describe the common causes,		
	pathophysiology and manifestations of these		
	diseases		
	IM25.3 Describe and discuss the pathophysiology and manifestations of these disease		
	IM25.4 Elicit document and present a medical		
	history that helps delineate the aetiology of these diseases that includes the evolution and pattern of		
	•		
	symptoms, risk factors, exposure through		
	occupation and travel		
	IM25.5 Perform a systematic examination that		
	establishes the diagnosis and severity of		
	presentation that includes: general skin, mucosal		
	and lymph node examination, chest and abdominal		
	examination (including examination of the liver		
	and spleen)		
	IM25.6 Generate a differential diagnosis and		
	prioritise based on clinical features that help		
	distinguish between infective, inflammatory,		
	malignant and rheumatologic causes		
	IM25.7 Order and interpret diagnostic tests based		
	on the differential diagnosis including: CBC with		
	differential, blood biochemistry, peripheral smear,		
	urinary analysis with sediment, Chest X ray, blood		
	and urine cultures, sputum gram stain and		
	cultures, sputum AFB and cultures, CSF analysis,		
	pleural and body fluid analysis, stool routine and		
	culture and QBC		
	IM25.8 Enumerate the indications for use of newer		

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	techniques	
	in the diagnosis of these infections	
	IM25.10 Develop and present an appropriate	
	diagnostic plan based on the clinical presentation,	
	most likely diagnosis in a prioritised and cost effective manner	
	IM25.11 Develop an appropriate empiric treatment	
	plan based on the patient's clinical and immune	
	status pending definitive diagnosis IM25.12 Communicate to the patient and family	
	the diagnosis and treatment of identified infection	
	IM25.13 Counsel the patient and family on	
	prevention of various infections due to	
	environmental issues	
19	Invasive fungal infections and choice of	1
	antifungals	
20	Malaria – etiopathogenesis, clinical features,	1
	investigations , complications, treatment and	
	prevention.	
	IM 4.6Discuss and describe the pathophysiology	
	and manifestations of malaria	
	IM4.22 Describe and discuss the pharmacology,	
	indications, adverse reactions, interactions of	
	antimalarial drugs and basis of resistance	
	IM4.23 Prescribe drugs for malaria based on the	
	species identified, prevalence of drug resistance	
	and national program	
	IM4.26 Counsel the patient on malarial prevention	
21	Kala azar	1
22	Headache syndromes	1
	Migraine	
	IM17.1 Define and classify headache and describe	
	the presenting features, precipitating factors,	
	aggravating and relieving factors of various kinds	
	of headache	
	IM17.3 Classify migraine and describe the	
	distinguishing features between classical and non	

	classical forms of migraine IM17.6 Choose and interpret diagnostic testing based on the clinical diagnosis including imaging IM17.10 Enumerate the indications for emergency care admission and immediate supportive care in patients with headache IM17.11 Describe the indications, pharmacology, dose, side effects of abortive therapy in migraine IM17.12 Describe the indications, pharmacology, dose, side effects of prophylactic therapy in migraine IM17.14 Counsel patients with migraine and tension headache on lifestyle changes and need for prophylactic therapy	
23	revision	1
24	revision	1
25	revision	1
		25

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Small group teaching domain K/S/A Level K/KH/S/SH,	No. of Hours=3 5
1	Topic: IM 3 pneumonia Interpretation of investigations in a patient with pneumonia-chest x-ray IM4.18 Enumerate the indications for use of imaging in the diagnosis of febrile syndromes	S SH Y DOAP session Assessment Skill assessment Integration: Radiodiagnosis, Microbiology	2
2	Treatment of malaria IM4.22 Describe and discuss the pharmacology, indications, adverse reactions, interactions of antimalarial drugs and basis of resistance IM4.23 Prescribe drugs for malaria based on the species identified, prevalence of drug resistance and national programs IM4.26 Counsel the patient on malarial prevention	S/c SH Y DOAP session Skill assessment	2
3	Management of HIV AIDS IM6.16 Discuss and describe the principles of HAART, the classes of antiretrovirals used, adverse reactions and interactions IM6.18 Enumerate the indications and discuss prophylactic drugs used to prevent HIV related opportunistic infections IM6.17 Discuss and describe the principles and regimens used in post exposure prophylaxis IM6.20 Communicate diagnosis, treatment plan and subsequent follow up plan to patients IM6.21 Communicate with patients on the importance of medication adherence	K, KH, Y	2
4	emerging infectious diseases- Nipah, Covid, , SARS, MERS, polio, Ebola, Lassa, SFTS, Crimean-congo fever, hanta virus		2

5	Antimicrobial resistance and antibiotic stewardship	2
	IM4.24 Develop an appropriate empiric treatment plan	
	based on the patient's clinical and immune status	
	pending definitive diagnosis	
6	Adult vaccination	2
7	Cestodes – cysticercosis and hydatid disease :	2
	etiopathogenesis, clinical features and management	
	Roundworms – filariasis, ascariasis, ankylostoma:	
	etiopathogenesis, clinical features, management.	
8	SNAKE BITE	2
	IM20.1 Enumerate the local poisonous snakes and	
	describe the distinguishing marks of each	
	IM20.3 Describe the initial approach to the	
	stabilisation of the patient who presents with snake	
	bite	
	IM20.4 Elicit and document and present an	
	appropriate history, the circumstance, time, kind of	
	snake, evolution of symptoms in a patient with snake	
	bite	
	IM20.5 Perform a systematic examination, document	
	and present a physical examination that includes	
	general examination, local examination, appropriate	
	cardiac and neurologic examination	
	IM20.6 Choose and interpret the appropriate	
	diagnostic testing in patients with snake bites	
	IM20.7 Enumerate the indications and describe the	
	pharmacology, dose, adverse reactions,	
	hypersensitivity reactions of anti snake venom	
9	Envenomation due to scorpion, bee, wasp and other	2
	other organisms	
	IM20.8 Describe the diagnosis, initial approach	
	stabilisation and therapy of scorpion envenomation	
	IM20.9 Describe the diagnosis initial approach	
	stabilisation and therapy of bee sting allergy	
10	Topic: Poisoning IM 21	2
	IM21.1 Describe the initial approach to the	
	stabilisation of the patient who presents with	

		I	
	poisoning		
	IM21.4 Enumerate the commonly observed drug		
	overdose in your area and describe their toxicology,		
	clinical features, prognosis and approach to therapy		
	IM21.5 Observe and describe the functions and role of		
	a poison center in suspected poisoning		
11	IM21.2 Enumerate the common plant poisons seen in		2
	your area and describe their toxicology, clinical		
	features, prognosis and specific approach to		
	detoxification		
12	IM21.3 Enumerate the common corrosives used in		2
	your area and describe their toxicology, clinical		
	features, prognosis and approach to therapy		
	Rodenticide Poisoning		
13	OP poisoning, Paraquat and other agricultural		2
	poisons		_
14	Toxidromic approach to the management of		2
15	poisoning		•
15	Envenomation		2
	IM20.1 Enumerate the local poisonous snakes and		
16	describe the distinguishing marks of each		2
10	Headache syndromes Meningitis		Z
	IM17.4 Perform and demonstrate a general		
	neurologic examination and a focused examination		
	for signs of intracranial tension including neck signs		
	of meningitis		
	IM17.5 Generate document and present a differential		
	diagnosis based on the clinical features and prioritise		
	the diagnosis based on the presentation.		
	IM17.6 Choose and interpret diagnostic testing based		
	on the clinical diagnosis including imaging		
	IM17.7 Enumerate the indications and describe the		
	findings in the CSF in patients with meningitis		
	IM17.9 Interpret the CSF findings when presented		
	with various parameters of CSF fluid analysis		

	IM17.13 Describe the pharmacology, dose, adverse reactions and regimens of drugs used in the	
	treatment of bacterial, tubercular and viral meningitis	
17	revision	2
18	revision	1
		35

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Self-directed learning domain K/S/A Level K/KH,	No. of Hours=5
1	Treatment of malaria		1
2	Post exposure prophylaxis in various conditions		1
3	Antibiotic stewardship		1
4	Sepsis management		1
5	Management of snakebite		1
	TOTAL		5

iv. PRACTICAL

SI.	Topic/ System : (With Competency Number)	Bedside Clinics/DOAP	No. of
No.	core/ non-core competency	domain K/S/A S/SH,	weeks =4
	1 ST WEEK		
1	VITAL SIGNS	Bedside Clinics	
2	GPE	Bedside Clinics	
3	RS	Bedside Clinics	
4	RS	Bedside Clinics	
5	RS	Bedside Clinics	
6	RS	Bedside Clinics	
	2 ND WEEK		
7	DELIBERATE PRACTICE	Bedside Clinics	
8	CVS	Bedside Clinics	
9	CVS	Bedside Clinics	
10	CVS	Bedside Clinics	
11	CVS	Bedside Clinics	
12	DELIBERATE PRACTICE	Bedside Clinics	

	3 RD WEEK		
13	Fever – history, physical examination, age, comorbidities, drug use, immunizations, diet, ethnicity: consistent approach IM4.9 Elicit document and present a medical history that helps delineate the etiology of fever that includes the evolution and pattern of fever, associated symptoms, immune status, comorbidities, risk factors, exposure through occupation, travel and environment and medication use	Bedside Clinics	
14	Systemic examination – fever with no specific focus, skin findings, soft tissue findings, focal infections and neurologic examinations. Vitals examination with evidence of clinical DIC. IM4.10 Perform a systematic examination that establishes the diagnosis and severity of presentation that includes: general skin mucosal and lymph node examination, chest and abdominal examination (including examination of the liver and spleen)	Bedside Clinics	
15	Differential diagnosis – examination of skin, nails, lymph nodes, eyes, ears, RS, CVS, CNS, PA, genital regions, joints. Temperature recordings in axilla etc, investigations based on history and findings – CBC, smear ,fever profile, sputum analysis, biochemistry, urine, cultures, CXR, USG, stool examination, CSF analysis, pleural fluid and ascetic fluid analysis, decision to treat fever, use of drugs symptomatic, anti-infective agents. IM4.11 Generate a differential diagnosis and prioritize based on clinical features that help distinguish between infective,	Bedside Clinics	

	inflammatory,		
	malignant and rheumatologic causes		
	IM4.12 Order and interpret diagnostic tests		
	based on the differential diagnosis		
	including: CBC with differential, peripheral		
	smear, urinary analysis with sediment,		
	Chest X ray, blood and urine cultures,		
	sputum gram stain and cultures, sputum		
	AFB and cultures, CSF analysis, pleural and		
	body fluid analysis, stool routine and culture		
	and QBC		
	IM4.21 Develop and present an appropriate		
	diagnostic plan based on the clinical		
	presentation, most likely diagnosis in a		
	prioritised and cost effective manner		
	IM4.25 Communicate to the patient and		
	family the diagnosis and treatment		
16	IM20.1 Enumerate the local poisonous	DOAP	
	snakes and describe the distinguishing		
	marks of each		
	IM20.2 Describe, demonstrate in a volunteer		
	or a mannequin and educate (to other		
	health care workers / patients) the correct		
	initial management of patient with a snake		
	bite in the field		
	IM20.3 Describe the initial approach to the		
	stabilisation of the patient who presents		
	with snake bite		
	IM20.4 Elicit and document and pre sent an		
	appropriate history, the circumstance, time,		
	kind of snake, evolution of symptoms in a		
	patient with snake bite		
	IM20.5 Perform a systematic examination,		
	document and present a physical		
	examination that includes general		
	examination, local examination, appropriate		
	cardiac and neurologic examination		

	11.10.000		
	IM20.6 Choose and interpret the appropriate		
	diagnostic testing in patients with snake		
	bites		
	IM20.7 Enumerate the indications and		
	describe the pharmacology, dose, adverse		
	reactions, hypersensitivity reactions of anti		
	snake venom	2012	
17	IM6.19 Counsel patients on prevention of	DOAP	
	HIV transmission	INTEGRATION WITH	
	IM6.20 Communicate diagnosis, treatment	AETCOM	
	plan and subsequent follow up plan to		
	patient		
	IM6.21 Communicate with patients on the		
	importance of medication adherence		
	IM6.22 Demonstrate understanding of		
	ethical and legal issues regarding patient		
	confidentiality and disclosure in patients		
	with HIV		
	IM6.23 Demonstrate a non-judgemental		
	attitude to patients with HIV and to their		
	lifestyles		
18	DELIBERATE PRACTICE	Bedside Clinics	
	4 TH WEEK		
19	History taking in a patient with suspected	Bedside Clinics	
	respiratory infection		
	IM3.4 Elicit document and present an		
	appropriate history including the evolution,		
	risk factors including immune status and		
	occupational risk		
20	Examination of a patient with suspected	Bedside Clinics	
	respiratory infection		
	IM3.5 Perform, document and demonstrate		
	a physical examination including general		
	examination and appropriate examination of		
	the lungs that establishes the diagnosis,		
	complications and severity of disease		
L			

21	Differential diagnosis and management	BEDSIDE CLINICS AND	
	IM3.6 Generate document and present a	DOAP	
	differential diagnosis based on the	DOM	
	clinical features, and prioritise the		
	diagnosis based on the presentation		
	IM3.7 Order and interpret diagnostic		
	tests based on the clinical presentation		
	including: CBC, Chest X ray PA view,		
	Mantoux, sputum gram stain, sputum		
	culture and sensitivity, pleural fluid		
	examination and culture, HIV testing and		
	ABG		
	IM3 11 . Describe and enumerate the		
	indications for further testing including		
	for further testing including HRCT, Viral		
	cultures, PCR and specialised testing		
	IM3.12 Select, describe and prescribe		
	based on the most likely aetiology an		
	appropriate empirical antimicrobial		
	based on the pharmacology and		
	antimicrobial spectrum		
	IM3.13 Select, describe and prescribe		
	based on culture and sensitivity		
	appropriate empaling antimicrobial		
	based on the pharmacology and		
	antimicrobial spectrum		
	IM3.15 Describe and enumerate the		
	indications for hospitalisation in patients		
	with pneumonia		
	IM3.18 Communicate and counsel		
	patient on family on the diagnosis and		
	therapy of pneumonia		
	IM3.19 Discuss, describe, enumerate the		
	indications and communicate to patients		
	on pneumococcal and influenza vaccines		
22	IM21.6 Describe the medico legal	Bedside Clinics	
	aspects of suspected suicidal or		

	homicidal poisoning and demonstrate the correct procedure to write a medico legal report on a suspected poisoning IM21.7 Counsel family members of a patient with suspected poisoning about the clinical and medico legal aspects with empathy IM21.8 Enumerate the indications for psychiatric consultation and describe the precautions to be taken in a patient with suspected suicidal ideation / gesture		
23	DELIBERATE PRACTICE	Bedside Clinics	
24	END OF POSTING EXAMS		

Skill lab

Comp	Competency Description [P]	No.	Duration	Number of
no.		required	hours	batches[number of
		to certify		students per batch]
	Demonstrate in a mannequin and	-	2	2/50
IM3.8	interpret results of an arterial blood			
	gas examination			
IM3.9,	Demonstrate in a mannequin and	-	2	2/50
IM25.9	interpret results of a pleural fluid			
110123.9	aspiration			
	Demonstrate the correct technique	-	2	2/50
	in a mannequin and interpret results			
IM3.10	of a blood culture Assist in the			
	collection of blood and other			
	specimen cultures			
	Demonstrate in a model the correct	-	2	2/50
IM6.15	technique to perform a lumbar			
	puncture			
Total				

CERTIFICATION OF SKILLS:

Comp	Competency	Need for Skill	No.	Duration	Number of
no.	Description	lab [yes/no]	required	hours	batches[number of
	[P]		to certify		students per batch]
	-				
	-				
	-				
	-				
Total					

v. AETCOM

NIL

SI. N	o. Module Number	Lectures [hours]	Small group [hours]	No. of Hours
	AETCOM			

vi. Clinical clerkship plan

	UNIT-I	UNIT-II	UNIT-III	UNIT-IV
MONDAY	10-11 am OPD case presentation 5-6 pm admitted cases presentation in casualty/pre op evaluation presentation	Discharge paper writing	Case sheet writing	Follow up of cases
Tuesday	Post admission rounds presentation/attending Operation Theatre and writing OT notes	10-11 am OPD case presentation 5-6 pm	Discharge paper writing	Case sheet writing

		1	1	
		admitted		
		cases		
		presentation		
		in		
		casualty/pre		
		op evaluation		
		presentation		
Wednesday	Follow up of cases	Post	10-11 am	Discharge
		admission	OPD case	paper
		rounds	presentation	writing
		presentation/	5-6 pm	writing
		attending	admitted	
		Operation	cases	
		Theatre and	presentation	
		writing OT	in	
		notes	casualty/pre	
			ор	
			evaluation	
			presentation	
Thursday	Follow up of cases	Follow up of	Post	10-11 am
, , , ,		cases	admission	OPD case
			rounds	presentation
			presentatio	5-6 pm
			n/attending	admitted
			Operation	cases
			Theatre and	presentation
			writing OT	in
			notes	casualty/pre
				ор
				evaluation
				presentation
Friday	Case sheet writing	Follow up of	Follow up	Post
Tiday	ouse sheet writing	cases	of cases	admission
		Juscs	OI Cases	rounds
				presentation
				/attending
				_
				Operation

				Theatre and writing OT notes
SATURDAY	Discharge paper	Case sheet	Follow up	Follow up of
	writing	writing	of cases	cases

4. SCHEME OF EXAMINATION:

Eligibility criteria:

- Learners must secure at least 50% marks of total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the University examination.
- Student should get a minimum of 75% attendance in Theory and 80 % in Practical classes to be eligible to appear for university examination.
- Learners must have completed the required certifiable competencies and completed the log book.

C. FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT:

- A minimum of 2 Internal Assessments (IAs) to be conducted
- One of the internal exams will be conducted like preliminary exams
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given a chance of remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Formative assessment: based on day to day assessment of SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments [records of activities used for assessment to be maintained by the department]
- Written exams will include MCQ's [MCQs not exceeding 20%] / Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

DEPARTMENT OF GENERAL MEDICINE

Integrated phase-wise Internal Assessment

	TUEODV		se 2	Phase 3-1		Phase 3-2		Final
THEORY		IA-1	IA-2	IA-3	IA-4	IA-5	IA-6	Total
Writ	Theory [#]	30	25	30	25	75	75	
	MCQ	10	10	10	10	20	20	
ten	AETCOM*		05		05	05	05	
	Formative							
	assessment:							
	SDL/Class							
FA	tests/ MCQs/	05	05	05	10	10	10	
ГА	Tutorials/							
	Seminars/							
	Assignments							
	Logbook	05	05	05	10	10	10	
	Total	50	50	50	60	120	120	450

FINAL THEORY IA MARKS = 150 (final total divided by 3)

IA-6 is Preliminary exam and hence to be conducted as two theory papers of 100 marks each, and average of both papers is used for tabulation

^{*} To be included as a question in theory paper

[#] Pandemic module to be included in theory exam

DEPARTMENT OF GENERAL MEDICINE

Integrated phase-wise Internal Assessment

PRACTICAL		Phase 2	Phase 3-1	Phas	Final	
		4 weeks	4 weeks	8 weeks	4 weeks	Total
		EOP-1	EOP-2	E0P-3	EOP-4	IUlai
	Clinical skills					
	assessment					
	(OSCE/ Mini-CEX/	40	40	60	60	
EOP	Case presentation/					
	AETCOM)					
	Viva-voce (may	10	10	10	10	
	include AETCOM)	10	10	10	10	
	Formative					
	assessment	05	05	10	10	
Others	including Clinical-	00	00	10	10	
Others	Clerkship					
	Logbook/ Record	05	05	10	10	
	book	00	00	10	10	
	Total	60	60	90	90	300

FINAL PRACTICAL IA MARKS = 150 (final total divided by 2)

At least one EOP is to be conducted with OSCE as a part of it AETCOM may be included as an OSCE station or as a part of Viva-voce during EOP, if it needs to be assessed in practical (Refer competency booklet & AETCOM module)

Preliminary Examinations will include Bedside Clinical Examination which will mirror the Summative University Examinations (Practical)

FINAL PRACTICAL IA MARKS WILL BE AVERAGE OF EOP* AND PRELIMINARY EXAM (EQUAL WEIGHTAGE TO BOTH)

Blue-printing of Internal assessments in General Medicine

	Number of questions								
BLUEPRINT	IA-1 I	IA-2*	IA-3	IA-4*	IA-5*	IA-6 Preliminary Exam*			
						Paper 1	Paper 2		
MCQ (1 mark each)	10	10	10	10	20	20	20		
Structured Long Essay (10 marks each)	00	00	01	01	02	02	02		
Short Essay (5 marks each)	04	04	02	02	08	08	08		
Short Answer (2 marks each)	05	05	05	05	10	10	10		
Total (in marks)	40	40	40	40	100	100	100		
	*AETCOM should have a weightage of 5 marks								

B. SUMMATIVE ASSESSMENT:

General medicine is learnt and assessed during professional years [PY] 2 and 3 part 1, 3rd part 2. SA will be held at the end of 3rd professional year part 2.

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) to pass
- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university exam of that subject.
- Internal assessment will appear as a separate head of passing at summative exams
- A candidate, who has not secured requisite aggregate in the internal assessment has
 to successfully complete the remediation measures prescribed by the University.
 Candidates who fail to meet prescribed 50% marks in internal assessment after
 availing remedial measures will not be eligible for the university exams.

6. **INTEGRATION**:

	Competency list for integration							
SL	Comp	Competency to be	nesting/		department			
	No.	integrated	sharing/ aligning /correlation	Horizontal	Vertical			
1	IM3.14 IM4.13 IM4.14 IM6.14	Perform and interpret a sputum gram stain and AFB Perform and interpret a sputum gram stain Perform and interpret a sputum AFB Perform and interpret AFB sputum	sharing	Respiratory medicine	Microbiology			
2	IM4.20	Interpret a PPD (Mantoux)		Pediatrics Respiratory medicine	Microbiology			
3	IM4.15	Perform and interpret a malarial smear			Microbiology			
4	IM6.22 IM6.23	Demonstrate understanding of ethical and legal issues regarding patient confidentiality and disclosure in patients with HIV Demonstrate a non-judgemental	sharing	AETCOM Respiratory medicine dermatology				

attitude to patients with HIV and to their lifestyles 5 IM21.6 Describe the IM21.7 medico legal aspects of suspected suicidal or	
and to their lifestyles 5 IM21.6 Describe the IM21.7 medico legal aspects of suspected Casualty, psychiatry Medicine	
Iifestyles 5 IM21.6 Describe the IM21.7 medico legal aspects of suspected Casualty, psychiatry Medicine	
5 IM21.6 Describe the IM21.7 medico legal aspects of suspected Casualty, psychiatry Medicine	
IM21.7 medico legal aspects of suspected psychiatry Medicine	
aspects of suspected	
suspected	
suicidal or	
Odiologi Oi	
homicidal	
poisoning and	
demonstrate the	
correct procedure	
to write a medico	
legal report on a	
suspected	
poisoning	
Counsel family	
members of a	
patient with	
suspected	
poisoning about the clinical and	
medico legal	
aspects with	
empathy IM21.8	
Enumerate the	
indications for	
psychiatric	
consultation and	
describe the	
precautions to be	
taken in a patient	
with suspected	
suicidal ideation /	
gesture	

7. RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS

Text Books

Note: A single textbook may not cover the entire curriculum. Referring to more than one book is recommended.

Recent editions of:

Y P Munjal, API Textbook of medicine
Nicki R.C., Brain R.W. Stuart Davidson's Principles & Practice of Medicine,
Maxine A P Current medical diagnosis and treatment
Graham D, Macleod's clinical examination
Boloor A, Padakanti A- An insider's guide to clinical medicine
K R Sethuraman, objective structured clinical examination

Reference books

Harrison's principles of medicine
David A Warrell Oxford Textbook of Medicine
Goldman and Cecil, Medicine
Wolters Kluver, Interpretation of diagnostic tests
Michael Glyms, Hutchison's clinical methods
Praveen Kumar Michael Clark, Clinical Medicine,
Washington manual of medical therapeutic

Journals

Journal Of Association Of Physicians Of India **Evidence based medicine source: UPTODATE/BMJ Best practice**

PAEDIATRICS

1. GOAL

The aim of teaching the undergraduate student is to impart such knowledge, skills and attitude that may enable him/her to prevent, diagnose and treat common childhood illness including neonatal disorders, implement national programs and refer when needed to specialist.

2. OBJECTIVES

2.1 KNOWLEDGE

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

- 1. Explain the principles of optimal growth, development and nutrition of child, and adolescents and identify deviation from normal.
- 2. Enumerate the principle of optimal neonatal care.
- 3. Describe and analyze the emergency and routine ambulatory and first level referral unit care for neonate, infants, children and adolescents.
- 4. Enumerate the principles of health promotion and prevention of disease in children
- 5. Describe the various causes, types and management of children with special needs.
- 6. Describe the national programs related to child health including integrated management of neonatal & childhood illness IMNCI

2.2 SKILLS

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

- 1. Practice principles of paediatrics medicine in hospital and community setting.
- 2. Interpret the optimal growth, development and nutrition of neonates, children and adolescent and identify deviations from normal.
- 3. Perform procedure as indicated for children of all ages in the primary care settings.
- 4. Provide optimal neonatal care at community settings.
- 5. Demonstration art of communication in regards to child hood illness

2.3 ATTITUDE AND COMMUNICATION SKILLS

At the end of the course, the learner shall be able to:

At the end of the course, the learner shall be able to

- 1. Respect patient's autonomy
- 2. Do no harm
- 3. Understand and follow the principle of beneficence

- 4. Think and act in a just manner
- 5. Demonstrate empathy,
- 6. Respect privacy
- 7. Maintain confidentiality
- 8. Communicate effectively to the child and his/her caretakers
- 9. Educate and counsel the patient and family,
- 10. Maintain punctuality
- 11. Work in a team of peers, seniors and interdepartmental personnel.
- 12. Evaluate the ethics, scientific procedures, social and legal implications involved in the management of childhood illnesses.

2.4 INTEGRATION

The teaching should be aligned and integrated horizontally and vertically in order to provide comprehensive care for neonates, infants, children and adolescents based on a sound knowledge of growth, development, disease and their clinical, social, emotional, psychological correlates in the context of national health priorities.

3. TEACHING HOURS AND COURSE CONTENT

E. Teaching Hours

SI.	Teaching Learning Method Theory	
No	reaching Learning Method Theory	No. of Hours 20 30 05 55
1	Large group teaching	20
2	Small group teaching (SGT): SGD/Tutorials/Seminars	30
3	Self-directed Learning(SDL)	05
	TOTAL	55

SI. No	Teaching Learning Method Practicals			
1	Bedside clinics	4		
	TOTAL	•		

SI. No	Teaching Learning Method	No. of Hours
1	AETCOM	
2	Skill Lab	
	TOTAL	

F. Course contents

THEORY

i. 3 Phase, 1'term: THEORY

ii. Large Group Teaching: 20 Hrs

SI. No.	PE	Topic/ System : (With Competency Number) core/ non- core competency	Core	Large group teaching domain K LEVEL K/KH,	No. of Hours=20
1	PE1.1	Define the terminologies Growth and development and discuss the factors affecting normal growth and development	Y	к кн	1 hour (1)
	PE1.2	Discuss and describe the patterns of growth in infants, children and adolescents	Υ	K KH	
	PE1.3	Discuss and describe the methods of assessment of growth including use of WHO and Indian national standards. Enumerate the parameters used for assessment of physical growth in infants, children and adolescents	Y	К КН	
	PE1.5	Define development and discuss the normal developmental mile stones with respect to motor, behaviour, social, adaptive and language	Υ	К КН	1 hour (2)
	PE1.6	Discuss the methods of assessment of development Discuss the etio-pathogenesis,	Υ	K KH	
2	PE2.1	of a child who fails to thrive	Υ	K KH	1 hour (3)
	PE2.4	Discuss the etio-pathogenesis, clinical features and management of a child with short stature	Υ	К КН	
	PE2.6	Enumerate the referral criteria for growth related problems	Υ	КК	

		Breast Feeding			
3	PE7.1	Awareness on the cultural beliefs and practices of breast feeding	N	КК	1 hour (4)
	PE7.2	Explain the physiology of lactation	Υ	K KH	
	PE7.3	Describe the composition and types of breast milk and discuss the differences between cow's milk and Human milk	Υ	K KH	
	PE7.4	Discuss the advantages of breast milk	Υ	K KH	
	PE7.6	Enumerate the baby friendly hospital initiatives	Υ	K KH	
4		Micronutrients in Health and			
		disease-1 (Vitamins ADEK, B			
		Complex and C)			
	PE12.1	Discuss the RDA, dietary sources of Vitamin A and their role in	Υ	КК	1 hour (5)
	DE10.0	Health and disease			(0)
	PE12.2	Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin	Y	K KH	
	DE10 F	A Discourse Alex Vitamin A			
	PE12.5	Discuss the Vitamin A prophylaxis program and their recommendations	Υ	KK	
	PE12.6	Discuss the RDA, dietary sources of Vitamin D and their role in health and disease	Υ	КК	
	PE12.7	Describe the causes, clinical features, diagnosis and management	Υ	К КН	
		of Deficiency / excess of Vitamin			
		D (Rickets and Hypervitaminosis			
		D)			
	PE12.10	Discuss the role of screening for Vitamin D deficiency	Υ	K K	
	PE12.11	Vitamin D deficiency Discuss the RDA, dietary sources of Vitamin E and their role in	N	КК	1 hour (6)
	DE10 10	health and disease			(0)
	PE12.12	Describe the causes, clinical features, diagnosis and management of deficiency of	N	K KH	

PE12.13 Discuss the RDA, dietary sources of Vitamin K and their role in health and disease PE12.14 Describe the causes, clinical features, diagnosis management and prevention of deficiency of Vitamin K PE12.15 Discuss the RDA, dietary sources of Vitamin B and their role in health and disease PE12.16 Describe the causes, clinical features, diagnosis and management of deficiency of B complex Vitamins PE12.19 Discuss the RDA, dietary sources of Vitamin C and their role in Health and disease PE12.20 Describe the causes, clinical features, diagnosis and management	our
PE12.14 Describe the causes, clinical features, diagnosis management and prevention of deficiency of Vitamin K PE12.15 Discuss the RDA, dietary sources of Vitamin B and their role in health and disease PE12.16 Describe the causes, clinical features, diagnosis and management of deficiency of B complex Vitamins PE12.19 Discuss the RDA, dietary sources of Vitamin C and their role in Health and disease PE12.20 Describe the causes, clinical features, diagnosis and management of deficiency of B complex Vitamin C and their role in Health and disease	our
features, diagnosis management and prevention of deficiency of Vitamin K PE12.15 Discuss the RDA, dietary sources of Vitamin B and their role in health and disease PE12.16 Describe the causes, clinical features, diagnosis and management of deficiency of B complex Vitamins PE12.19 Discuss the RDA, dietary sources of Vitamin C and their role in Health and disease PE12.20 Describe the causes, clinical features, diagnosis and management PE12.20 Describe the causes, clinical features, diagnosis and management	our
PE12.16 Describe the causes, clinical features, diagnosis and management of deficiency of B complex Vitamins PE12.19 Discuss the RDA , dietary sources of Vitamin C and their role in Health and disease PE12.20 Describe the causes, clinical features, diagnosis and management (7) K KH K KH	our
PE12.16 Describe the causes, clinical features, diagnosis and management of deficiency of B complex Vitamins PE12.19 Discuss the RDA , dietary sources of Vitamin C and their role in Health and disease PE12.20 Describe the causes, clinical features, diagnosis and management	
features, diagnosis and management of deficiency of B complex Vitamins PE12.19 Discuss the RDA, dietary sources of Vitamin C and their role in Health and disease PE12.20 Describe the causes, clinical features, diagnosis and management	
Vitamins PE12.19 Discuss the RDA, dietary sources of Vitamin C and their role in Health and disease PE12.20 Describe the causes, clinical features, diagnosis and management	
PE12.19 Discuss the RDA , dietary sources of Vitamin C and their role in Health and disease PE12.20 Describe the causes, clinical features, diagnosis and management	
Health and disease PE12.20 Describe the causes, clinical features, diagnosis and management PE12.20 K KH	
PE12.20 Describe the causes, clinical y K KH features, diagnosis and management	
features, diagnosis and management	
of deficiency of Vitamin C	
(scurvy)	
Care of the Normal New born, and High risk New born	
A PE20.1 Define the common neonatal nomenclatures including the	our
classification and describe the	
characteristics of a Normal Term	
Neonate and High Risk Neonates	
PE20.2 Explain the care of a normal Y K KH neonate	
B PE20.7 Discuss the etiology, clinical features and management of Birth asphyxia Y K KH 1 hd (9)	our
C PE20.8 Discuss the etiology, clinical features and management of respiratory distress in New born including meconium aspiration and transient tachypnoea of newborn	

D	PE20.9	Discuss the etiology, clinical features and management of Birth	Υ	К КН	1 hour (11)
E	PE20.10	injuries Discuss the etiology, clinical features and management of	Υ	K KH	1 hour
		Hemorrhagic disease of New born			(12)
F	PE20.11	Discuss the clinical characteristics, complications and management of Low birth weight (preterm and Small for gestation)	Υ	К КН	1 hour (13)
G	PE20.20	Identify clinical presentations of common surgical conditions in the new born including TEF, esophageal atresia, anal atresia, cleft lip and palate, congenital diaphragmatic hernia and causes of acute abdomen	Υ	K KH	1 hour (14)
6		Malabsorption			
	PE25.1	Discuss the etio-pathogenesis, clinical presentation and management of Malabsorption in Children and its causes including celiac disease	N	К КН	1 hour (15)
7		Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Guideline			
	PE16.1	Explain the components of Integrated Management of Neonatal and Childhood Illnesses (IMNCI) guidelines and method of Risk stratification	Υ	К КН	1 hour (16)
		The National Health programs,			
8	DF1= -	NHM			
	PE17.1	State the vision and outline the goals, strategies and plan of action of NHM and other important national programs pertaining to maternal and child health including RMNCH A+, RBSK, RKSK, JSSK mission Indradhanush and ICDS	Υ	К КН	1 hour (17)

9		The National Health Programs: RCH			
	PE18.1	List and explain the components, plan, outcome of Reproductive	Υ	К КН	1 hour
		Child Health (RCH) program and			(18)
		appraise its monitoring and			
		evaluation			
	PE18.2	Explain preventive interventions for child survival and safe	Υ	K KH	1 hour
		motherhood			(19)
10		Diarrhoeal diseases and Dehydration			
	PE24.6	Discuss the causes, clinical presentation and management of	Υ	K KH	1 hour
		persistent diarrhoea in children			(20)
	PE24.7	Discuss the causes, clinical presentation and management of	Υ	K KH	
		chronic diarrhoea in children			

Small Group Teaching; 30 Hrs

SI. No.	PE	Topic/ System : (With Competency Number) core/ non- core competency	Core	Small group teaching domain K/S/A Level K/KH/S/SH,	No. of Hours=30
		Complementary Feeding			
1	PE8.1	Define the term Complementary	Υ	K K	1 hour(1)
		Feeding			
	PE8.2	Discuss the principles, the initiation, attributes, frequency,	Υ	K KH	
		techniques and hygiene			
		related to omplementary			
		Feeding including IYCF			
	PE8.3	Enumerate the common complimentary foods	Υ	КК	
2		Obesity in children			
	PE11.1	Describe the common etiology,	Υ	K KH	1 hour

		clinical features and management of obesity in children			(2)
	PE11.2	Discuss the risk approach for obesity and discuss the prevention strategies	Υ	K KH	
	PE11.6	Discuss criteria for referral	Υ	K K	
3		Normal nutrition, assessment			
	DEO 1	and monitoring			
	PE9.1	Describe the age related nutritional needs of infants, children and adolescents including micronutrients and vitamins	Y	K KH	1 hour (3)
	PE9.2	Describe the tools and methods for assessment and classification of nutritional status of infants, children and adolescents	Υ	К КН	
	PE9.3	children and adolescents Explains the Calorific value of common Indian foods	Υ	K KH	
4	DE10.1	Common nutritional problems			
	PE10.1	Define and describe the etio-	Υ	K KH	1 hour
		pathogenesis, classify including			(4)
		WHO classification, clinical			
		features, complication and			
		management of Severe Acute			
		Malnourishment (SAM) and			
		Moderate Acute Malnutrition			
		(MAM)			
	PE10.2	Outline the clinical approach to a child with SAM and MAM	Υ	K KH	
	PE10.6	Enumerate the role of locally prepared therapeutic diets and ready to use therapeutic diets	N	КК	
5		Micronutrients in Health and			
		disease -2: Iron, Iodine, Calcium,			
	DE10.1	Magnesium			
	PE13.1	Discuss the RDA, dietary sources of Iron and their role in health	Υ	K K	1 hour (5)
	DE10.0	and disease			(0)
	PE13.2	Describe the causes, diagnosis and management of Fe deficiency	Υ	K KH	

	PE13.6	Discuss the National anaemia control program and its	Υ	КК	
		recommendations			
	PE13.7	Discuss the RDA, dietary sources of lodine and their role in Health	Υ	КК	
		and disease			
	PE13.8	Describe the causes, diagnosis and management of deficiency of	Υ	К КН	
		lodine			
	PE13.9	Identify the clinical features of lodine deficiency disorders Discuss the National Goiter	N	S SH	
	PE13.10	Control program and their	Υ	KK	
		recommendations			
	PE13.11	Discuss the RDA, dietary sources of Calcium and their role in health	Υ	КК	1 hour (6)
		and disease			(0)
	PE13.12	Describe the causes, clinical features, diagnosis and management of Ca Deficiency	Υ	K KH	
	PE13.13	Discuss the RDA, dietary sources of Magnesium and their role in	N	КК	
		health and disease			
	PE13.14	Describe the causes, clinical features, diagnosis and management of Magnesium Deficiency	N	к кн	
		-			
6		Fluid and electrolyte balance			
	PE15.1	Discuss the fluid and electrolyte requirement in health and disease	Υ	К КН	1 hour (7)
	PE15.2	Discuss the clinical features and	Υ	K KH	
	1 L13.2	complications of fluid and	'	KKII	
		electrolyte imbalance and outline			
		the management			
	PE15.3	Calculate the fluid and electrolyte requirement in health	Υ	S SH	
7		Chromosomal Abnormalities			
	PE32.1	Discuss the genetic basis, risk factors, complications, prenatal	Υ	К КН	1 hour
		diagnosis, management and			(8)
		genetic counselling in Down's			
		Syndrome			

E	PE20.16	Discuss the etiology, clinical features and management of Neonatal Sepsis	Υ	K KH	1 hour (13)
		seizures			
D	PE20.15	Discuss the etiology, clinical features and management of Neonatal	Υ	K KH	1 hour (12)
		hypocalcemia			
С	PE20.14	Discuss the etiology, clinical features and management of Neonatal	Υ	К КН	1 hour (11)
		regulation in neonates, clinical features and management of Neonatal Hypoglycemia			(10)
В	PE20.13	Discuss the temperature	Υ	K KH	1 hour
Α	PE20.12	Discuss the temperature regulation in neonates, clinical features and management of Neonatal Hypothermia	Υ	К КН	1 hour (9)
0		High risk New born			
8		Care of the Normal New born, and			
		Syndrome			
		genetic counselling in Klineferlter			
		diagnosis, management and			
	PE32.11	management of Turner Syndrome Discuss the genetic basis, risk factors, complications, prenatal	Υ	К КН	
	PE32.9	Discuss the referral criteria and multidisciplinary approach to	N	К КН	
		counselling in Turner's Syndrome			
		management and genetic			
		complications, prenatal diagnosis,			
	PE32.6	Discuss the genetic basis, risk factors, clinical features,	N	K KH	
		management			
	PE32.4	Discuss the referral criteria and Multidisciplinary approach to	Υ	K KH	

F	PE20.17	Discuss the etiology, clinical features and management of Perinatal infections	Υ	К КН	1 hour (14)
G	PE20.19	Discuss the etiology, clinical features and management of Neonatal	Υ	К КН	1 hour (15)
9		hyperbilirubinemia Vaccine preventable Diseases -			
		Tuberculosis			
Α	PE34.12	Enumerate the indications and discuss the limitations of	Υ	К КН	1 hour (16)
	PE34.13	methods of culturing M.Tuberculii Enumerate the newer diagnostic tools for Tuberculosis including	N	к к	
		BACTEC CBNAAT and their			
		indications			
В	PE34.15	Enumerate the common causes of fever and discuss the	Υ	K KH	1 hour
		etiopathogenesis, clinical			(17)
		features, complications and			
		management of child with			
		exanthematous illnesses like			
		Measles, Mumps, Rubella			
		& Chicken pox			
С	PE34.18	Enumerate the common causes of fever and discuss the	Υ	K KH	1 hour
		etiopathogenesis, clinical			(18)
		features, complications and			
		management of child with			
		Dengue, Chikungunya and other			
		vector born diseases			
		Enumerate the seminar severe			
D	PE34.19	Enumerate the common causes of fever and discuss the	Υ	K KH	1 hour
		etiopathogenesis, clinical			(19)
		features, complications and			
		management of children with			

		Common Parasitic infections, malaria, leishmaniasis, filariasis, helminthic infestations, amebiasis, giardiasis			
E	PE34.20	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Ricketsial diseases	Υ	К КН	1 hour (20)
F	PE24.8	Discuss the causes, clinical presentation and management of dysentery in children	Υ	К КН	1 hour (21)
G	PE34.16	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Diphtheria, Pertussis, Tetanus	Υ	К КН	1 hour (21)
Н	PE34.17	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Typhoid	Υ	К КН	1 hour (22)
10		Common problems related to			
		Development -1 (Developmental			
A	PE3.1	delay , Cerebral palsy) Define, enumerate and discuss the causes of developmental delay and disability including intellectual disability in children	Υ	КК	1hour (23)
	PE3.2	Discuss the approach to a child with developmental delay	Υ	КК	
		Discuss the etic netherence:			
В	PE3.8	Discuss the etio-pathogenesis, clinical presentation and multi- disciplinary approach in the management of Cerebral palsy	Υ	K KH	1 hour (24)

	PE3.5	Discuss the role of the child developmental unit in management of	N	К	К	
		developmental delay				
	PE3.6	Discuss the referral criteria for children with developmental delay	Υ	К	K	
11		Common problems related to				
		Development-2 (Scholastic				
		backwardness, Learning				
		Disabilities , Autism , ADHD				
Α	PE4.1	Discuss the causes and approach to a child with scholastic	N	К	K	1 hour (25)
		backwardness				(20)
	PE4.2	Discuss the etiology, clinical	N	K	K	
		features, diagnosis and				
		management of a child with				
		Learning Disabilities				
В	PE4.3	Discuss the etiology, clinical features, diagnosis and management	N	К	K	1hour (26)
		of a child with Attention Deficit				
		Hyperactivity Disorder (ADHD)				
С	PE4.4	Discuss the etiology, clinical features, diagnosis and management	N	K	K	1hour (27)
		of a child with Autism				
	PE4.5	Discuss the role of Child Guidance clinic in children with	N	K	K	
		Developmental problems				
12		Common problems related to behavior				
A	PE5.1	Describe the clinical features, diagnosis and management of thumb	N	К	К	1hour (28)
	PE5.3	sucking	N	K	К	
	FE0.3	Describe the clinical features, diagnosis and management of nail	IN IN		N.	
	 	biting		1,,		
	PE5.5	Describe the clinical features,	N	K	K	

		diagnosis and management of temper tantrums			
	PE5.4	Describe the clinical features, diagnosis and management of Breath Holding spells	N	К К	
		Holding spens			
В	PE5.6	Describe the clinical features, diagnosis and management of Pica	N	КК	1hour (29)
	PE5.2	Describe the clinical features, diagnosis and management of	N	К К	
	PE5.10	Feeding problems Discuss the role of child guidance clinic in children with behavioural problems and the referral criteria	N	КК	
С	PE5.8	Discuss the etiology, clinical features and management of	N	K K	1hour (30)
	PE5.9	Enuresis Discuss the etiology, clinical features and management of	N	K K	
		Encopresis			
	PE5.7	Describe the clinical features, diagnosis and management of Fussy	N	КК	
		infant			
Self	Directed Lea	arning (SDL): 5 Hours			
SI. No.	PE	Topic/ System : (With	Core	Self- directed	No. of Hours=5
		Competency Number) core/ non- core competency		learning domain K/S/A Level K/KH,	
1		National Programs, RCH - Universal Immunizations program			
Α	PE19.1	Explain the components of the Universal Immunization Program and	Υ	К КН	1 hour (1)

		the National Immunization			
		Program			
	PE19.2	Explain the epidemiology of Vaccine preventable diseases	Υ	К КН	
	PE19.3	Vaccine description with regard to classification of vaccines, strain	Υ	к кн	
		used, dose, route,			
		schedule, risks, benefits			
		and side effects,			
		indications and			
		contraindications			
В	PE19.4	Define cold chain and discuss the methods of safe storage and	Υ	К КН	1 hour (2)
	DE10 F	handling of vaccines			(2)
	PE19.5	Discuss immunization in special situations – HIV positive children,	Υ	K KH	
		immunodeficiency, pre-term,			
		organ transplants, those who			
		received blood and blood			
		products, splenectomised			
		children, adolescents, travellers			
	PE19.15	Explain the term implied consent in Immunization services	Υ	К К	
	PE19.16	Enumerate available newer vaccines and their indications including	N	КК	
		pentavalent pneumococcal,			
		rotavirus, JE, typhoid IPV & HPV			
2		Diarrhoeal diseases and			
		Dehydration			
	PE24.1	Discuss the etic-nethogenesis		1	
Α	7CZ4.1	Discuss the etio-pathogenesis, classification, clinical presentation	Υ	K KH	1 hour (3)
		and management of diarrheal			
	DE0.4.0	diseases in children			
	PE24.2	Discuss the classification and clinical presentation of various types	Υ	K KH	
		of diarrheal dehydration			

В	PE24.3	Discuss the physiological basis of ORT, types of ORS and the	Y K KH	к кн	1 hour
		composition of various types of			(4)
		ORS			
	PE24.4	Discuss the types of fluid used in Paediatric diarrheal diseases and	Υ	К КН	
		their composition			
	PE24.5	Discuss the role of antibiotics, antispasmodics, anti-secretory	Υ	K KH	
		drugs, probiotics, anti-emetics in			
		acute diarrheal diseases			
3		Vaccine preventable Diseases -			
		Tuberculosis			
Α	PE34.1	Discuss the epidemiology, clinical features, clinical types,	Υ	К КН	1 hour
		complications of Tuberculosis in			(5)
		Children and Adolescents			
	PE34.2	Discuss the various diagnostic tools for childhood tuberculosis	Υ	K KH	
	PE34.3	Discuss the various regimens for management of Tuberculosis as	Υ	K KH	
		per National Guidelines			
	PE34.4	Discuss the preventive strategies adopted and the objectives and	Υ	K KH	
		outcome of the National			
		Tuberculosis Control Program			

vii. PRACTICAL

SI No	Comp no PE	Topic/ system	Core	Doma K/S/A Leve K/KH	A I	Bed Side/ DOAP /	Week /hours
1	Adolescent	t Health & Vitamins AD					
	PE6.9	Perform routine Adolescent Health check up including eliciting history, performing examination including SMR (Sexual Maturity	Y	S	SH	Bedside clinics	3 Hour s (1)

				1			1
		Rating), growth					
		assessments (using					
		Growth charts) and					
		systemic exam including					
		thyroid and Breast exam					
		and the HEADSS					
		screening					
	PE12.3	Identify the clinical features of dietary deficiency / excess of Vitamin	Υ	S	SH	Bedside clinics,	
	PE12.4	A Diagnosa patients with	N	S	SH	Bedside	
	PC12.4	Diagnose patients with Vitamin A deficiency, classify and plan	IN	3	ЗΠ	clinics, Skill	
		management				Station	
	PE12.8	Identify the clinical features	Υ	S	SH	Bedside	
		of dietary deficiency of				clinics,	
		Vitamin D				Skills	
						lab	
	PE12.9	Assess patients with Vitamin D deficiency, diagnose, classify and	Υ	S	SH	Bedside clinics	
		plan management					
2		Vitamins B complex, C					
	PE12.17	Identify the clinical features of Vitamin B complex deficiency	Y	S	SH	Bedside clinics, Skills	3 hour (2)
	PE12.18	Diagnose nationts with	Υ	S	SH	lab Bedside	
	1 212.10	Diagnose patients with Vitamin B complex deficiency and plan	'		OH	clinics, Skills lab	
		management					
	PE12.21	Identify the clinical features of Vitamin C deficiency	Υ	S	SH	Bedside clinics,	
3		in Health and disease -2:					
		Iron, Iodine, Electrolytes.					
	PE13.3	Identify the clinical features of dietary deficiency of Iron and make a	Υ	S	SH	Bedside clinics, Skills	3 hour (3)
		diagnosis				lab	
	PE13.4	Interpret hemogram and Iron Panel	Υ	S	SH	Bedside clinic,	

				1		
	PE13.5	Propose a management plan for Fe deficiency anaemia	Υ	S SH	Bedside clinics, Skills	
	PE15.3	Calculate the fluid and electrolyte requirement in health	Υ	S SH	lab Bedside clinics, Small	
					group discussio n	
	PE15.4	Interpret electrolyte report	Y	S SH	Bedside clinics, Small group discussio n	
	PE15.5	Calculate fluid and electrolyte imbalance	Υ	S SH	Bedside clinics, Small group discussio n	
4		Revision class				
		Revision class				3 hour s (4)
5		Diarrhoeal diseases and				
5		Dehydration				
A	PE24.9	Elicit, document and present history pertaining to diarrheal diseases	Υ	S SH	Bedside clinics, Skills lab	3 hour (5)
	PE24.10	Assess for signs of dehydration, document and present	Υ	S SH	Bedside clinics, Skills lab	
	PE24.11	Apply the IMNCI guidelines in risk stratification of children with diarrheal dehydration and refer	Υ	S SH	Bedside clinics, Skills lab	

В	PE24.12	Perform and interpret stool examination including	N	S SH	N	3 hour (6)
	PE24.13	Hanging Drop Interpret RFT and electrolyte report	Υ	S SH	Υ	(0)
	PE24.14	Plan fluid management as per the WHO criteria	Υ	S SH	Υ	
2		por une vivie enteriu				2 week
Α		Care of the Normal New born, and High risk New born				
	PE20.4	Assessment of a normal neonate	Υ	S SH	Bedside clinics, Skills lab	3 hour s (1)
	PE18.6	Perform Postnatal assessment of newborn and mother, provide advice on breast feeding, weaning and on family planning	Y	S SH	Bed side clinics, Skill Lab	
В	DE00 0	Chromosomal Abnormalities			5 1	
	PE32.2	Identify the clinical features of Down's Syndrome	Υ	S SH	Bedside clinics, Skills lab	3 hours (2)
	PE32.3	Interpret normal Karyotype and recognize Trisomy 21	Υ	S SH	Bedside clinics, Skills lab	
	PE32.5	Counsel parents regarding 1. Present child 2. Risk in the next pregnancy	N	A/C SH	Bedside clinics, Skills lab	
	PE32.7	Identify the clinical features of Turner Syndrome	N	S SH	Bedside clinics, Skills lab	
	PE32.8	Interpret normal Karyotype and recognize the Turner Karyotype	N	S SH	Bedside clinics, Skills lab	
	PE32.10	Counsel parents regarding 1. Present child 2. Risk in the next pregnancy	N	A/C SH	Bedside clinics, Skills	
	PE32.12	, , ,	N	S SH	lab Bedside	
С	FEJZ.1Z	Identify the clinical features of KlineferIter Syndrome	IN	з эп	clinics,	3

					Skills lab	hours (3)
	PE32.13	Interpret normal Karyotype and recognize the Klineferlter Karyotype	N	S SH	Bedside clinics, Skills lab	
		Revision Class				
D		Vaccine preventable				
		Diseases & Infectious illness				
(1)	PE34.5	Able to elicit, document and present history of contact with tuberculosis in every patient	Υ	S SH	Bedside clinics, Skill lab	3 hours (4)
		encounter			lab	(4)
	PE34.6	Identify a BCG scar	Υ	S P	Bedside clinics,	
	DE047	Internal - Mantagara	V		Skills lab	
	PE34.7	Interpret a Mantoux test	Υ	S P	Bedside clinics Skills lab	
(2)	PE34.8	Interpret a Chest Radiograph	Y	S SH	Bedside clinics Skil Is lab	3 hours (5)
	PE34.9	Interpret blood tests in the context of laboratory evidence for tuberculosis	N	S SH	Bedside clinics, small group	
	PE34.10	Discuss the various samples for demonstrating the organism e.g. Gastric Aspirate, Sputum , CSF, FNAC	Y	ККН	Bedside clinics, small group	
E		Mid Posting Exam / revision Class				3 hours (6)

3		Cardiovascular system- Heart					3
		Diseases					week
A	PE23.7	Elicit appropriate history for a cardiac disease, analyse the symptoms e.g. breathlessness, chest pain, tachycardia, feeding difficulty, failing to thrive, reduced urinary output, swelling, syncope, cyanotic spells, Suck rest cycle, frontal swelling in infants. Document and present	Y	S	SH	Bedside clinics, Skills lab	3 hours (1)
	PE23.8	Identify external markers of a cardiac disease e.g. Cyanosis, Clubbing, dependent edema, dental caries, arthritis, erythema rash, chorea, subcutaneous nodules, Oslers node, Janeway lesions and document	Y	S	SH	Bedside clinics, Skills Lab	
В	PE23.9	Record pulse, blood pressure, temperature and respiratory rate and interpret as per the age	Υ	S	SH	Bedside clinics, Skills lab	3 hours (2)
	PE23.10	Perform independently examination of the cardiovascular system – look for precordial bulge, pulsations in the precordium, JVP and its significance in children and infants, relevance of percussion in Pediatric examination, Auscultation and other system	Y	S	SH	Bedside clinics, Skills lab	

		examination and document					
С	PE23.11	Develop a treatment plan and prescribe appropriate drugs including fluids in cardiac diseases, anti-failure drugs, and inotropic agents	Y	S	SH	Bedside clinics, Skills lab	3 hours (3)
	PE23.12	Interpret a chest X ray and recognize Cardiomegaly	Υ	S	SH	Bedside clinics, Skills lab	
D	PE23.13	Choose and Interpret blood reports in Cardiac illness	Y	S	Р	Bedside clinics, Small group discussio n	3 hours (4)
	PE23.14	Interpret Pediatric ECG	Υ	S	SH	Bedside clinics, Skills lab	
	PE23.15	Use the ECHO reports in management of cases	Υ	S	SH	Bedsid e clinics	
E		Revision Class					3 hours (5)
F		Revision Class					3 hours (6)
4		Respiratory system					4 week
Α	PE28.9	Elicit, document and present age appropriate history of a	Υ	S	SH	Bed side	3

	1	I shild with	ı			<u> </u>
		child with			clini cs	hours
		upper respiratory problem			CS	(1)
		including Stridor				()
	PE28.10	Perform otoscopic	Υ	S SH	DOAP	
		examination of the ear			session	
	PE28.11	Perform throat examination	Υ	S SH	DOAP	
	PE28.12	using tongue depressor Perform examination of the	Υ	S SH	session DOAP	
	1 L20.12	nose		3 311	session	
		11000				
В	PE28.13	Analyse the clinical symptoms and interpret physical findings and make a provisional / differential diagnosis in a child with ENT symptoms	Y	S SH	Bedside clinics	3 hours (2)
	PE28.14	Develop a treatment plan and document appropriately in a child with upper respiratory symptoms	Υ	S SH	Bedside clinics	
С	PE28.15	Stratify risk in children with stridor using IMNCI guidelines	Y	S SH	Bedside clinics	3 hours (3)
	PE28.16	Interpret blood tests relevant to upper respiratory problems	N	S SH	Bedside clinics, Small group discussio n	
D	PE28.17	Interpret X-ray of the paranasal sinuses and mastoid; and /or use written report in case of management Interpret CXR in foreign body aspiration and lower respiratory tract infection, understand the significance	Y	S SH	Bedside clinics, Small group discussio n	3 hours (4)

		6.1 . 1		1	1	
		of thymic shadow in				
	DE00 10	pediatric chest X-rays	V	0 011	<u> </u>	
	PE28.18	Describe the etio- pathogenesis, diagnosis, clinical features,	Y	S SH	Bedside clinics, Small	
		management and prevention			grou	
		of lower respiratory			p	
		infections including			disc	
		bronchiolitis, wheeze			ussi	
		associated LRTI Pneumonia			on,	
		and empyema			Lect	
					ure	
E	PE28.19	Describe the etio- pathogenesis, diagnosis, clinical features,	Y	S SH	Bedside clinics, Small	hours
		management and prevention			grou	(5)
		of asthma in children			p 	
					disc	
					ussi	
					on,	
					Lect	
	DE20.20	Coursed the shild with	V	C CII	ure	
	PE28.20	Counsel the child with asthma on the correct use of inhalers in a	Y	S SH	Bedside clinics, Small	
		simulated environment			grou	
					p	
					disc	
					ussi	
					on,	
					Lect	
					ure	
F		End Posting Exam				3
						hours
						(6)

SKILL LAB:

PE1.4 Perform anthropometric measurements, document in growth charts and interpret

Minimum number required to certify-3*

Date Completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Faculty & Date	Feedback Received Initial of Learner with Date

^{*}Additional rows have been provided to document repeat or remediation, as the case may be.

Only performance is to be documented here. Other details like steps (if required) can be documented in the student record book.

^{**}A numerical value may be used.

PE1.7 Perform developmental assessment and interpret

Minimum number required to certify-3

Date Completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Faculty & Date	Feedback Received Initial of Learner with Date

PE7.5 Observe the correct technique of breast feeding and distinguish right from wrong techniques

Date Completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Faculty & Date	Feedback Received Initial of Learner with Date

PE11.5 Calculate BMI, document in BMI chart and interpret

Minimum number required to certify-3

Date Completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Faculty & Date	Feedback Received Initial of Learner with Date

PE19.6 Assess patient for fitness for immunization and prescribe an ageappropriate immunization schedule

Date Completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Faculty & Date	Feedback Received Initial of Learner with Date

PE24.15 Perform NG tube insertion in a manikin

Minimum number required to certify-2

Date Completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Faculty & Date	Feedback Received Initial of Learner with Date

PE24.16 Perform IV cannulation in a model

Date	Attempt at	Rating	Decision of	Initial of	Feedback
Completed	Competency (F/R/Re)	(B/M/E) **	Faculty (C/R/Re)	Faculty & Date	Received Initial of Learner with Date

PE24.17 Perform interosseous insertion in a model

Minimum number required to certify-2

Date Completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Faculty & Date	Feedback Received Initial of Learner with
					Date

PE27.15 Assess airway and breathing: recognize signs of severe respiratory distress. Check for cyanosis, severe chest indrawing, grunting

Date Completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Facult y & Date	Feedback Received Initial of Learner with Date

PE27.16 Assess airway and breathing. Demonstrate the method of positioning of an infant & child to open airway in a simulated environment

Minimum number required to certify- 3

Date Completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Faculty & Date	Feedback Received Initial of Learner with Date

PE27.17 Assess airway and breathing: administer oxygen using correct technique and appropriate flow rate

Date Completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Faculty & Date	Feedback Received Initial of Learner with Date

PE27.18 Assess airway and breathing: perform assisted ventilation by Bag and mask in a simulated environment

Minimum number required to certify- 3

Date	Attempt at	Rating	Decision of	Initial of	Feedback
Completed	Competency	(B/M/E) **	Faculty	Faculty &	Received
	(F/R/Re)		(C/R/Re)	Date	Initial of
					Learner with
					Date

PE27.19 Check for signs of shock i.e., Pulse, Blood Pressure, CRT

Date	Attempt at	Rating	Decision of	Initial of	Feedback
Completed	Competency	(B/M/E) **	Faculty	Facult	Received
	(F/R/Re)		(C/R/Re)	y &	Initial of
				Date	Learner with
					Date

PE27.20 Secure an IV access in a simulated environment

Minimum number required to certify- 3

Date Completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Faculty & Date	Feedback Received Initial of Learner with Date

PF27.21 Choose the type of fluid and calculate the fluid requirement in shock

Date	Attempt at	Rating	Decision of	Initial of	Feedback
Completed	Competency	(B/M/E) **	Faculty	Faculty &	Received
	(F/R/Re)		(C/R/Re)	Date	Initial of
					Learner
					with Date

PE27.22 Assess level of consciousness & provide emergency treatment to a child with convulsions/ coma

- Position an unconscious child
- Position a child with suspected trauma
- Administer IV/per rectal Diazepam for a convulsing child in a simulated environment

Minimum number required to certify- 3

Date	Attempt at	Rating	Decision of	Initial of	Feedback
Completed	Competency (F/R/Re)	(B/M/E) **	Faculty (C/R/Re)	Faculty & Date	Received Initial of Learner with Date

PE27.23 Assess for signs of severe dehydration

Date Completed	Attempt at Competency	Rating (B/M/E) **	Decision of Faculty	Initial of Faculty &	Feedback Received
Completed	(F/R/Re)	(D/ WI/ L)	(C/R/Re)	Date	Initial of
	, ,		,		Learner with
					Date

PE27.28 Provide BLS for children in manikin

Minimum number required to certify- 3

Date Completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Facult y & Date	Feedback Received Initial of Learner with Date

PE33.6 Perform and interpret urine dip stick for sugar

Date	Attempt at	Rating	Decision of	Initial of	Feedback
Completed	Competency	(B/M/E) **	Faculty	Facult	Received
	(F/R/Re)		(C/R/Re)	y &	Initial of
				Date	Learner with
					Date

PE33.11 Identify deviations in growth and plan appropriate referral

Minimum number required to certify- 2

Date Completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Faculty & Date	Feedback Received Initial of Learner with Date
					24.0

PE 34.6 Identify a BCG scar

Date completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Facult y & Date	Feedback Received Initial of Learner with Date

PE34.7 Interpret a Mantoux test

Minimum number required to certify- 3

Date completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Facul ty & Date	Feedback Received Initial of Learner with Date

PE 34.11 Perform AFB staning

Date completed	Attempt at Competency (F/R/Re)	Rating (B/M/E) **	Decision of Faculty (C/R/Re)	Initial of Faculty & Date	Feedback Received Initial of Learner with Date

CERTIFIABLE OF SKILLS:

Number	Competency Details	Number	Date	Reference
		required to	completed	Page no.
		Certify P		
PE 1.4	Perform anthropometric	3		
	measurements,			
	document in growth charts and			
	interpret			
PE 1.7	Perform developmental assessment	3		
	and			
	interpret			
PE 7.5	Observe the correct technique of	3		
	breast feeding and distinguish right			
PE 11.5	from wrong techniques	3		
PE 11.5	Calculate BMI, document in BMI chart and interpret	3		
PE 19.6	Assess patient for fitness for	5		
1 2 13.0	immunization and prescribe an age-	Ū		
	appropriate immunization schedule			
PE 24.15	Perform NG tube insertion in a	2		
	manikin			
PE 24.16	Perform IV cannulation in a model	2		
PE 24.17	Perform interosseous insertion model	2		
PE 27.15	Assess airway and breathing:	3		
	recognize signs of severe			
	respiratory distress. Check for			
	cyanosis, severe chest indrawing,			
PE 27.16	grunting Assess airway and breathing.	3		
L 21.10	Demonstrate the method of	J		
	positioning of an infant & child to			
	open airway in a simulated			
	environment			
PE 27.17	Assess airway and breathing:	3		
	administer oxygen using correct			
	technique and appropriate flow			
	rate			

PE 27.18	Assess airway and breathing: perform assisted ventilation by bag and mask in a simulated environment	3	
PE 27.19	Check for signs of shock i.e. pulse, blood pressure, CRT	3	
PE 27.20	Secure an IV access in a simulated environment	3	
PE 27.21	Choose the type of fluid and calculate the fluid requirement in shock	3	
PE 27.22	Assess level of consciousness & provide emergency treatment to a child with convulsions/coma Position an unconscious child Position a child with suspected trauma Administer IV/per rectal Diazepam for a convulsing child in a simulated environment	က	
PE 27.23	Assess for signs of severe dehydration	3	
PE 27.28	Provide BLS for children in manikin	3	
PE 33.6	Perform and interpret urine dip stick for sugar	3	
PE 33.11	Identify deviations in growth and plan appropriate referral	2	
PE 34.6	Identify a BCG scar	3	
PE 34.7	Interpret a Mantoux test	3	
PE 34.11	Perform AFB staining	3	

viii. AETCOM

S. No	Compet ency No.	Competency Detail	Date Completed	Integrati on	Faculty Signature
1.	PE 2.3	Counselling a parent with failing to thrive child			
2.	PE 3.4	Counsel a parent of a child with developmental delay			

 3. PE 6.8 Respecting patient privacy and maintaining confidentiality while dealing with adolescents. 4. PE 7.8 Educate mothers on antenatal breast care and prepare mothers for lactation. 5. PE 7.9 Educate and counsel mothers for best practices in breast feeding. 6. PE 7.10 Respects patient privacy 7. PE 7.11 Participate in Breast Feeding Week celebration 8. PE 8.5 Counsel and educate mothers on the best practices in complementary feeding. 9. PE 10.5 Counsel parents of children with SAM and MAM. 10. PE 19.7 Educate and counsel a patient for immunization. 11. PE 19.8 Demonstrate willingness to participate in the national and subnational immunization days 12. PE 20.5 Counsel /educate mothers on the care of neonates. 13. PE 21.16 Counsel / educate a patient for referral appropriately 14. PE 22.2 Counsel a patient with chronic illness 15. PE 23.18 Demonstrate empathy 					
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participate in the national and subnational immunization days 12. PE 20.5 Counsel /educate mothers on the care of neonates. 13. PE 21.16 Counsel / educate a patient for referral appropriately 14. PE 22.2 Counsel a patient with chronic illness	10.	PE 19.7			
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for referral appropriately 14. PE 22.2 Counsel a patient with chronic illness	12.	PE 20.5			
chronic illness	13.	PE 21.16	•		
15. PE 23.18 Demonstrate empathy	14.	PE 22.2	-		
	15.	PE 23.18	Demonstrate empathy		

		while dealing with children with cardiac diseases in every patient encounter.		
16.	PE 26.13	Counsel and educate patients and their family appropriately on liver diseases		
17.	PE 27.32	Counsel parents of dangerously ill / terminally ill child to break bad news		
18.	PE 27.33	Obtain informed consent		
19.	PE 27.34	Willing to be a part of the ER team		
20.	PE 27.35	Attends to emergency calls promptly		
21.	PE 29.19	Counsel and educate patients about prevention and treatment of anemia.		
22.	PE 32.5	Counsel parents regarding 1. Present child Risk in next pregnancy (Down's Syndrome)		
23.	PE 32.10	Counsel parents regarding 1. Present child Risk in next pregnancy (Turner Syndrome)		

II. COMPETENCIES

A. COMPETENCIES REQUIRING CERTIFICATION*

Summary of Certifiable competencies

Number	Competency Details	Number	Date	Reference
		required to	completed	Page no.
		Certify P		
PE 1.4	Perform anthropometric	3		
	measurements,			
	document in growth charts and			
	interpret			
PE 1.7	Perform developmental assessment and	3		
	interpret			
PE 7.5	Observe the correct technique of breast	3		
	feeding and distinguish right from			
	wrong techniques			
PE 11.5	Calculate BMI, document in BMI chart and interpret	3		
PE 19.6	Assess patient for fitness for immunization and prescribe an ageappropriate immunization schedule	5		
PE 24.15	Perform NG tube insertion in a manikin	2		
PE 24.16	Perform IV cannulation in a model	2		
PE 24.17	Perform interosseous insertion model	2		
PE 27.15	Assess airway and breathing: recognize signs of severe respiratory distress. Check for cyanosis, severe chest indrawing, grunting	3		
PE 27.16	Assess airway and breathing. Demonstrate the method of positioning of an infant & child to open airway in a simulated	3		
	environment			
PE 27.17	Assess airway and breathing:	3		

	1		
	administer		
	oxygen using correct		
	technique and appropriate		
	flow rate		
PE 27.18	Assess airway and breathing: perform assisted	3	
	ventilation by bag and mask in a		
	simulated environment		
PE 27.19	Check for signs of shock i.e. pulse, blood pressure, CRT	3	
PE 27.20	Secure an IV access in a simulated environment	3	
PE 27.21	Choose the type of fluid and calculate the fluid	3	
	requirement in shock		
PE 27.22	Assess level of consciousness & provide emergency treatment to a child with convulsions/coma	3	
	Position an unconscious child		
	Position a child with suspected trauma		
	Administer IV/per rectal Diazepam for		
	a convulsing child in a simulated		
	environment		
PE 27.23	,	3	
PE 27.28		3	
PE 33.6	Perform and interpret urine dip stick for sugar	3	
PE 33.11	Identify deviations in growth and plan	2	
	appropriate referral		
PE 34.6	Identify a BCG scar	3	
PE 34.7	Interpret a Mantoux test	3	
PE 34.11	Perform AFB staining	3	
	•		

Summary of Competencies requiring Documentation:

S. No	Competency No.	Competency Detail	Date Completed	Faculty Signature
1.	PE 9.7	Plan an appropriate diet in health and disease		
2.	PE 10.4	Identify children with under nutrition as per		
3.	PE 11.3	Assessment of a child with obesity with regard to eliciting history including physical activity, charting		
4.	PE 12.3	Identify the clinical features of dietary deficiency / excess of		
5.	PE 12.4	Diagnose patients with Vitamin A deficiency, classify and plan		
6.	PE 12.8	Identify the clinical features of dietary deficiency of Vitamin D		
7.	PE 12.9	Assess patients with Vitamin D deficiency, diagnose, classify and		
8.	PE 12.17	Identify the clinical features of Vitamin B		
9.	PE 12.18	Diagnose patients with Vitamin B complex deficiency and plan		
10.	PE 12.21	Identify the clinical features of Vitamin C		
11.	PE 13.3	Identify the clinical features of dietary deficiency of Iron and		
12.	PE 16.2	Assess children < 2 months using IMNCI		

13.	PE 16.3	Assess children > 2 to 5 years using IMNCI	
14.	PE 18.4	Provide intra-natal care and conduct a normal delivery in a simulated	
15.	PE 18.5	Provide intra-natal care and observe the conduct of a normal	
16.	PE 19.13	Demonstrate the correct administration of different	
17.	PE 20.6	Explain the follow up care for neonates including breast feeding, temperature maintenance, immunization, importance of	
18.	PE20.18	Identify and stratify risk in a sick neonate using IMNCI guidelines	
19.	PE 21.9	Identify external markers for kidney disease, like failing to thrive, hypertension, pallor, ichthyoses,	
20.	PE 21.10	Analyse symptom and interpret the physical findings and arrive at an appropriate provisional/differential	
21.	PE 21.12	Interpret report of Plain X Ray of KUB	
22.	PE 21.13	Enumerate the indications for and interpret the written report of	
23.	PE 21.14	Recognize common surgical conditions of the abdomen and genitourinary system and enumerate the indications for referral including acute and subacute intestinal obstruction, appendicitis, pancreatitis, perforation, intussusception,	

24.	PE 21.15	Discuss and enumerate the referral criteria for children with	
25.	Develop a treatment plan ar prescribe appropriate drugs including fluids in cardiac d anti-failure drugs, and inotro		
26.	PE23.12	Interpret a chest X ray and recognize cardiomegaly	
27.	PE23.13	Choose and Interpret blood reports in cardiac illness	
28.	PE 23.14	Interpret Pediatric ECG	
29.	PE 23.15	Use the ECHO reports in management of cases	
30.	PE 24.11	Apply the IMNCI guidelines in risk stratification of children with diarrheal dehydration and	
31.	PE 24.12	Perform and interpret stool examination including hanging	
32.	PE 24.13	Interpret RFT and electrolyte report	
33.	PE 26.10	Demonstrate the technique of liver biopsy & perform liver biopsy in a simulated environment	
34.	PE 27.10	Observe the various methods of	
35.	PE 27.31	Assess child for signs of abuse	
36.	PE 28.15	Stratify risk in children with stridor using	
37.	PE 28.16	Interpret blood tests relevant to upper respiratory	
38.	PE 29.15	Perform and interpret peripheral	

	Ī	ı	r r
39.	PE 29.17	Demonstrate performance of bone marrow aspiration in manikin	
40.	PE 30.20	Interpret and explain the findings in a CSF	
41.	PE 30.21	Enumerate the indication and discuss the limitations of EEG,	
42.	PE 30.22	Interpret the reports of EEG, CT, MRI	
43.	PE 31.11	Observe administration of	
44.	PE 32.2	Identify the clinical features of Down's	
45.	PE 32.3	Interpret normal karyotype & recognize Trisomy 21	
46.	PE 32.7	Identify the clinical features of Turner	
47.	PE 32.8	Interpret normal karyotype and recognize the Turner karyotype	
48.	PE 32.12	Identify the clinical features of Klinefelter	
49.	PE 32.13	Interpret normal karyotype and recognize the Klinefelter	
50.	PE 33.10	Recognize precocious and delayed puberty and refer	
51.	PE 34.9	Interpret blood tests in the context of laboratory	

IV. AFFECTIVE COMPETENCIES REQUIRING DOCUMENTATION

Summary of Affective Competencies:

S.	Competency	Competency	Date	Integration	Faculty
No	No.	Detail	Completed	_	Signature
1.	PE 2.3	Counselling a parent with failing to thrive child			
2.	PE 3.4	Counsel a parent of a child with developmental delay			
3.	PE 6.8	Respecting patient privacy and maintaining confidentiality while dealing with adolescents.			
4.	PE 7.8	Educate mothers on antenatal breast care and prepare mothers for lactation.			
5.	PE 7.9	Educate and counsel mothers for best practices in breast feeding.			
6.	PE 7.10	Respects patient privacy			
7.	PE 7.11	Participate in Breast Feeding Week celebration			
8.	PE 8.5	Counsel and educate mothers on the best practices in complementary			

		feeding.		
9.	PE 10.5	Counsel parents		
		of children with		
		SAM and MAM.		
10.	PE 19.7	Educate and		
		counsel a patient		
		for immunization.		
11.	PE 19.8	Demonstrate		
		willingness to		
		participate in the		
		national and		
		subnational		
		immunization		
10	DE 00 E	days		
12.	PE 20.5	Counsel /educate		
		mothers on the care of neonates.		
13.	PE 21.16	Counsel /		
13.	PE 21.10	educate a		
		patient for		
		referral		
		appropriatey		
14.	PE 22.2	Counsel a		
l		patient with		
		chronic illness		
15.	PE 23.18	Demonstrate		
		empathy while		
		dealing with		
		children with		
		cardiac diseases		
		in every patient		
		encounter.		
16.	PE 26.13	Counsel and		
		educate patients		
		and their family		
		appropriately on		

		liver diagona		
	55.55.65	liver diseases		
17.	PE 27.32	Counsel parents of		
		dangerously ill /		
		terminally ill child		
		to break bad news		
18.	PE 27.33	Obtain informed		
		consent		
19.	PE 27.34	Willing to be a part		
		of the ER team		
20.	PE 27.35	Attends to		
		emergency calls		
		promptly		
21.	PE 29.19	Counsel and		
	1 2 23.13	educate patients		
		about prevention		
		and treatment of		
		anemia.		
22.	PE 32.5	Counsel parents		
ZZ.	FE 32.3	•		
		regarding 1. Present child		
		2. Risk in next		
		pregnancy		
		(Down's		
		Syndrome)		
23.	PE 32.10	Counsel parents		
		regarding		
		1. Present child		
		2. Risk in next		
		pregnancy		
		(Turner Syndrome)		

i. Clinical clerkship plan

	UNIT-I	UNIT-II	UNIT-III	UNIT - IV
MONDAY	10-11 am OPD case presentation 5-6 pm admitted cases presentation in casualty/Wards	Discharge paper writing	Case sheet writing	Discharge paper writing
Tuesday	Post admission rounds presentation	10-11 am OPD case presentation 5-6 pm admitted cases presentation in casualty /Wards.	Discharge paper writing	10-11 am OPD case presentation 5-6 pm admitted cases presentation in casualty/Wards.
Wednesday	Follow up of cases	Post admission rounds presentation / attending .	10-11 am OPD case presentation 5-6 pm admitted cases presentation in casualty/Wards	Post admission rounds presentation/ attending .
Thursday	Follow up of cases	Follow up of cases	Post admission rounds presentation/atten ding	Follow up of cases
Friday	Case sheet writing	Follow up of cases	Follow up of cases	Follow up of cases
SATURDAY	Discharge paper writing	Case sheet writing	Follow up of cases	Case sheet writing

Eligibility criteria:

- Learners must secure at least 50% marks of total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) assigned for internal assessment in in order to be eligible for appearing at the University examination.
- Student should get a minimum of 75% attendance in Theory and 80 % in Practical classes to be eligible to appear for university examination.
- Learners must have completed the required certifiable competencies and completed the log book.

D. FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT:

- A minimum of 2 Internal Assessments (IAs) to be conducted
- · One of the internal exams will be conducted like preliminary exams
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Written exams will include MCQ's[MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

The distribution of internal assessment marks shall be as mentioned below:

	DE	PARTME	NT OF PAE	DIATRICS			
	Integrat	ed phase	-wise Inter	nal Assessme	nt		
Phase 3-1 Phase 3-2 Final							
	THEORY		IA-2	IA-3	IA-4	Total	
	Theory [#]	30	25	50	75		
Written	MCQ	10	10	10	20		
	AETCOM*		05		05		
	Formative						
	assessment:						
	SDL/Class	ı					
FA	tests/ MCQs/	05	05	10	10		
ГА	Tutorials/						
	Seminars/						
	Assignments						
	Logbook	05	05	10	10		
Total 50 50 80 120 300							
FINAL THEORY IA MARKS = 100 (final total divided by 3)							

^{*} To be included as a question in theory paper

DEPARTMENT OF PAEDIATRICS

Integrated phase-wise Internal Assessment

		Phase 2	Phase 3-1	Phase 3-2	Final
	PRACTICAL	2 weeks	4 weeks	4 weeks	Total
		EOP-1	EOP-2	E0P-3	Iotai
	Clinical skills				
	assessment				
	(OSCE/ Mini-CEX/	40	40	50	
EOP	Case presentation/				
	AETCOM)				
	Viva-voce (may	10	10	10	
	include AETCOM)	10	10	10	
	Formative				
	assessment	05	05	10	
Others	including Clinical-	03	03	10	
Utners	Clerkship				
	Logbook/ Record	05	05	10	
	book	00	00	10	
	Total	60	60	80	200

FINAL PRACTICAL IA MARKS = 100 (final total divided by 2)

At least one EOP is to be conducted with OSCE as a part of it

AETCOM may be included as an OSCE station or as a part of viva-voce during EOP, if it
needs to be assessed in practical (Refer competency booklet & AETCOM module)

Preliminary Examinations will include Bedside Clinical Examination which will mirror the Summative University Examinations (Practical)

FINAL PRACTICAL IA MARKS WILL BE AVERAGE OF EOP* AND PRELIMINARY EXAM

NAL PRACTICAL IA MARKS WILL BE AVERAGE OF EOP* AND PRELIMINARY EXAM (EQUAL WEIGHTAGE TO BOTH)

Blue-printing of Internal assessments in Paediatrics

BLUEPRINT		Nun	nber of questions						
DLUEPKINI	IA-1	IA-2*	IA-3	IA-4*					
MCQ	10	10	10	20					
(1 mark each)	10	10	10	20					
Structured Long									
Essay	00	00	01	02					
(10 marks each)									
Short Essay	04	04	04	08					
(5 marks each)	04	04	04	06					
Short Answer	05	05	10	10					
(2 marks each)	05	05	10	10					
Total	40	40	60	100					
(in marks)	40	40	00	100					
* AETCOM should have a weightage of 5 marks									

C. SUMMATIVE ASSESSMENT:

Pediatrics is learnt and assessed during professional years [PY] 2 and 3 part 1, 3rd part 2. SA will be held at the end of 3rd professional year part 2.

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) to pass
- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university of that subject.
- Internal assessment will appear as a separate head of passing at summative exams
- A candidate, who has not secured requisite aggregate in the internal assessment has
 to successfully complete the remediation measures prescribed by the University.
 Candidates who fail to meet prescribed 50% marks in internal assessment after
 availing remedial measures will not be eligible for the university exams.

8. INTEGRATION:

Commu	ınity Medicine						
CM3. 3	Describe the aetiology and basis of water borne diseases /jaundice/hep atitis/ diarrheal diseases	К	КН	Υ	Lecture, Small group discussion, DOAP session	Written/ Viva voce	Microbiology, General Medicine, Pediatrics
CM5.	Describe the common sources of various nutrients and special nutritional requirements according to age, sex, activity, physiological conditions	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine, Pediatrics
CM5. 2	Describe and demonstrate the correct method of performing a nutritional assessment of individuals, families and the community by using the appropriate method	S	SH	Y	DOAP session	Skill Assessm ent	General Medicine, Pediatrics
CM5. 3	Define and describe common nutrition related health disorders (including macro-PEM,	К	КН	Y	Lectur e, Small group discus sion	Written/ Viva voce	General Medicine, Pediatrics

	Micro-iron, Zn,						
	iodine, Vit. A),						
	their control						
	and						
0145	management.		011	V	DOAD	OI-:II	Canaral Madiaire
CM5.	Plan and	S	SH	Υ	DOAP	Skill	General Medicine, Pediatrics
4	recommend a				session	Assessm ent	reulaulics
	suitable diet					ent	
	for the						
	individuals						
	and families						
	based on local						
	availability of						
	foods and						
	economic						
	status, etc in						
	a simulated						
	environment						
CM5.	Describe the	К	KH	Υ	Lecture,	Written/	General Medicine,
5	methods of				Small	Viva	Pediatrics
	nutritional surveillance,				group discussion	voce	
	principles of				aiscussion		
	nutritional						
	education and						
	rehabilitation						
	in the context						
	of socio-						
	cultural						
	factors						
CM5.	Enumerate	К	KH	Υ	Lecture,	Written/	Pediatrics
6	and discuss				Small	Viva	
	the National				group	voce	
	Nutrition				discussion		
	Policy, important						
	national						
	nutritional						
	Programs						
	including the						
	Integrated						
	Child						
	Development						
	Services						
	Scheme						
	(ICDS) etc						
CM5.	Describe and	К	KH	Υ	Lecture,	Written/	Pediatrics
8	discuss the				Small	Viva	

	importance		1		aroup	VOOC	
	importance and methods				group discussion	voce	
	of food				31000001011		
	fortification						
	and effects of						
	additives and						
	adulteration						
CM6.	Formulate a	К	KH	Υ	Small	Written/	General Medicine,
1	research				group,	Viva	Pediatrics
	question for a				Lecture	voce/	
	study				, DOAP	Skill	
					sessio	Assessm	
					n	ent	
CM6.	Describe and	S	SH	Υ	Small	Written/	General Medicine,
2	discuss the				group	Viva	Pediatrics
	principles and				discussio	voce/	
	demonstrate				n,	Skill	
	the methods				Lecture,	Assessm	
	of collection,				DOAP	ent	
	classification,				session		
	analysis,						
	interpretation						
	and						
	presentation						
	of statistical						
	data						
CM6.	Describe,	S	SH	Υ	Small	Written/	General Medicine,
3	discuss and				group	Viva	Pediatrics
	demonstrate				discussio	voce/	
	the				n,	Skill	
	application of				Lecture,	Assessm	
	elementary				DOAP	ent	
	statistical				session		
	methods				-		
	including test						
	of						
	significance						
	in various						
	study designs						
CM6.	Enumerate,	S	SH	Υ	Small	Written/	General Medicine,
4	discuss and	_			group	Viva	Pediatrics
	demonstrate				discussio	voce/	
	common				n,	Skill	
	sampling				Lecture,	Assessm	
	techniques,				DOAP	ent	
	simple				session		
L	Jilipic		l		SCSSIUII	i l	

	atatiatical							1
	statistical							
	methods,							
	frequency							
	distribution,							
	measures of							
	central							
	tendency and							
01:0	dispersion		17:1		0 "	144 ***	1	
CM8.	Describe and discuss the	K	KH	Υ	Small	Written/ Viva	General Medicine,	Microbiol
ı	epidemiologic				group discussion,	voce	Pediatrics	ogy, Pathology
	al and control				Lecture	7000		ratifology
	measures				Leoture			
	including the							
	use of							
	essential							
	laboratory							
	tests at the							
	primary care							
	level for							
	communicabl							
	e diseases							
CM8.	Enumerate	K	KH	Υ	Small	Written/	General Medicine,	
3	and describe disease				group	Viva	Pediatrics	
	specific				discussion, Lecture	voce		
	National				Lecture			
	Health							
	Programs							
	including their							
	prevention							
	and treatment							
CM8.	of a case Describe the	К	KH	Υ	Small	Written/	General Medicine,	
4	principles and	ĸ	ΝĦ	Y	group	written/ Viva	Pediatrics	
	enumerate the				discussion,	voce	reuidulus	
	measures to				Lecture			
	control a							
	disease							
	epidemic				- "			
CM8.	Describe and	K	KH	Υ	Small	Written /	General Medicine,	
5	discuss the principles of				group discussion,	Viva voce	Pediatrics	
	planning,				discussion, Lecture	V000		
	implementing				Lecture			
	and							
	evaluating							
	control							
	measures for							
	disease at							

				1		T T	1	
	community							
	level bearing in mind the							
	public health							
	importance of							
	the disease							
CM9.	Define,	S	SH	Υ	Lectur	Skill	Obstetrics &	
2	calculate and	3	311	'	e,	assessm	Gynae	
_	interpret				Small	ent	cology,	
	demographic				group		Pediatr	
	indices				discus		ics	
	including birth				sion,			
	rate, death				DOAP			
					sessio			
	rate, fertility				ns			
CM1	rates Describe the	K	KH	Υ	Small	Written/	Obstetrics &	
0.1	current status	ĸ	KH	Y		Written/ Viva	Gynaec	
0.1	of				group discussio	voce	ology,	
	Reproductive,				n, Lecture		Pediatr	
	maternal,				ii, Lecture		ics	
	newborn and							
	Child							
	Health							
CM1	Enumerate	К	KH	Υ	Small	Written/	Obstetrics &	
0.2	and describe				group	Viva	Gynaec	
	the methods				discussio	voce	ology,	
	of screening				n, Lecture		Pediatr	
	high risk						ics	
	groups and							
	common							
	health							
	problems		10::				01.1.1.2	
CM1	Describe local	К	KH	Υ	Small	Written/	Obstetrics &	
0.3	customs and				group	Viva	Gynaec	
	practices				discussio	voce	ology,	
	during				n, Lecture		Pediatr ics	
	pregnancy,						IUS	
	childbirth,							
	lactation and							
	child feeding							
0147	practices	17	1711	.,	0	14/	Obstation 0	
CM1 0.4	Describe the reproductive,	K	KH	Υ	Small group	Written/ Viva	Obstetrics &	
0.4	maternal,				discussion,	voce	Gynaec	
	newborn &				Lecture		ology, Pediatr	
	child health						ics	
	(RMCH); child						103	

						т т	1	
	survival and							
	safe							
	motherhood							
	interventions							
CM1	Describe	K	KH	Υ	Small	Written/	Pediatrics	
0.5	Universal				group	Viva		
	Immunization				discussion,	voce		
	Program;				Lecture			
	Integrated							
	Management							
	of Neonatal							
	and Childhood							
	Illness (IMNCI)							
	and other							
	existing							
	Programs							
Dermat	ology, Venereolog	y & Lepros	sy					
DR5.	Describe the	K	KH	Υ	Lecture,	Written/	Pediatrics	
1	etiology,				Small	Viva		
	microbiology,				group	voce		
	pathogenesis,				discussion			
	natural							
	history,							
	clinical							
	features,							
	presentations							
	and							
	complications							
	of scabies							
DR5.	Identify and	S	SH	Υ	Bedside	Skill	Pediatrics	
2	differentiate				clinic	assessm		
	scabies from					ent		
	other lesions						5 8	
DR5.	Enumerate	K	KH	Υ	Lecture,	Written/	Pediatrics	Pharmaco
3	and describe				Small	Viva		logy
	the				group	voce		
	pharmacology				discussion			
	, administration							
	and							
	adverse							
	reaction of							
	pharmacother							
	apies for							
	scabies							
DR6.	Describe the	К	KH	Υ	Lecture,	Written/	Pediatrics	Microbiol
1	etiology,	IX.	1311	'	Small	Viva	i cuiutilos	ogy
· .	pathogenesis				group	voce		79,
	and				discussion			
	diagnostic				2.234001011			
	features of							
	pediculosis							
				·		·	1	•

DR6. 2	Identify and differentiate pediculosis from other skin lesions	S	SH	Y	Bedside clinic	Skill assessm ent	Pediatrics	
DR7.	Describe the etiology, microbiology, pathogenesis, clinical presentations and diagnostic features of dermatophyte s	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce	Pediatrics	Microbiol ogy
DR8.	Describe the etiology, microbiology, pathogenesis, clinical presentations and diagnostic features of common viral infections of the skin	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce	Pediatrics	Microbiol ogy
DR17 .1	Enumerate and identify the cutaneous findings in vitamin A deficiency	K/S	SH	Υ	Lecture, Small group discussi on, Bedside clinic	Skill assessm ent/Viva voce	General Medicine, Pediat rics, Bioch emistr	
DR17 .2	Enumerate and describe the various skin changes in Vitamin B complex deficiency	К	КН	Y	Lecture	Written/ Viva voce	General Medicine, Pediat rics, Bioch emistr	
DR1 7.3	Enumerate and describe the various changes in Vitamin C deficiency	К	КН	Υ	Lecture	Written/ Viva voce	General Medicine, Pedia trics, Bioch emist ry	
DR17 .4	Enumerate and describe	K	КН	Υ	Lecture, Small	Written/ Viva	General Medicine, Pediat	

	4h						T . T	
	the various changes in				group discussion	voce	rics,	
	Zinc				aiscussion		Bioch	
	deficiency						emistr	
	7						у	
Psychi								
PS14	Enumerate	K	K	Υ	Lecture,	Written/	Pediatrics	
.1	and describe		Н		Small	Viva		
	the				group	voce		
	magnitude and etiology				discussion			
	of psychiatric							
	disorders							
	occurring in							
	childhood							
	and							
	adolescence							
PS14	Enumerate,	S	S	Υ	Bedside	Skill	Pediatrics	
.2	elicit,		H	-	clinic,	assessm		
	describe and				DOAP	ent		
	document				session			
	clinical							
	features in							
	patients with							
	psychiatric							
	disorders							
	occurring in							
	childhood							
	and							
	adolescence							
PS14	Describe the	К	K	Υ	Lecture,	Written/	Pediatrics	
.3	treatment of		Н		Small	Viva		
	stress related disorders				group discussion	voce		
	including				aiscussion			
	behavioural,							
	psychosocial							
	and							
	pharmacologi							
	c therapy							
PS14	Demonstrate	S	SH	Υ	Bedside	Skill	Pediatrics	
.4	family				clinic,	assessm		
	education in a				DOAP	ent		
	patient with				session			
	psychiatric disorders							
	occurring in							
	childhood							
	and							
	and adolescence							
	in a							
	III d				<u> </u>			

	simulated							
PS14 .5	environment Enumerate and describe the pharmacologi c basis and side effects of drugs used in psychiatric disorders occurring in childhood and	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce	Pediatrics	
PS15 .1	adolescence Describe the aetiology and magnitude of mental retardation	К	КН	Υ	Lecture, Small group discussion	Written/ Viva voce	Pediatrics	
PS15 .2	Describe and discuss intelligence quotient and its measurement	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce	Pediatrics	
PS15 .3	Elicit and document a history and clinical examination and choose appropriate investigation s in a patient with mental retardation	K/S	SH	Y	Bedside clinic, DOAP session	Skill assessm ent	Pediatrics	
PS15 .4	Describe the psychosocial interventions and treatment used in mental retardation	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce	Pediatrics	
Genera	l Medicine					1		1
IM23 .1	Discuss and describe the methods of nutritional assessment in an	К	КН	Υ	Lecture, Small group discussion s	Written/ Viva voce	Physiology, Biochemistry	Pediatrics

IM23 .2	adult and calculation of caloric requirements during illnesses Discuss and describe the causes and consequence s of protein caloric malnutrition in the hospital	К	КН	Υ	Lecture, Small group discussion s	Written/ Viva voce	Physiology, Biochemistry	Pediatrics
IM23 .3	Discuss and describe the aetiology, causes, clinical manifestation s, complication s, diagnosis and management of common vitamin deficiencies	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce	Physiology, Biochemistry	Pediatrics
IM23 .4	Enumerate the indications for enteral and parenteral nutrition in critically ill patients	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce	Physiology, Biochemistry	Pediatrics
Obsteti OG1. 2	Define and discuss perinatal mortality and morbidity including perinatal and neonatal mortality and morbidity audit	К	КН	Υ	Lecture, Small group discussion	Short notes	Community Medicine	Pediatrics

1	Describe and discuss the assessmen t of maturity of the newborn, diagnosis of birth asphyxia, principles of resuscitatio n, common problems	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce		Pediatrics
OG18. 2	Demonstrat e the steps of neonatal resuscitatio n in a simulated environmen t	S	S H	Υ	DOAP session	Skill assessme nt		Pediatrics
OG18. 3	Describe and discuss the diagnosis of birth asphyxia	К	K H	Υ	Lecture, Small group discussion	Written/ Viva voce		Pediatrics
OG18.	Describe the principles of resuscitatio n of the newborn and enumerate the common problems encountere d	К	K H	Υ	Lecture, Small group discussion	Written/ Viva voce		Pediatrics
	Medicine & Re					· · · · · · · · · · · · · · · · · · ·	•	
PM3.1	Describe and discuss the clinical features, types, evaluation, diagnosis	К	K H	Υ	Lecture, Small group discussion	Written/ Viva voce	Human Anatomy	Pediatrics

	and							
	and							
	manageme							
	nt of							
	cerebral							
	palsy							
PM3.	Recognize,	К	К	Υ	Lecture, Small	Written/		Pediatrics
2	describe		Н		group	Viva voce		
	and discuss				discussion			
	the							
	spectrum of							
	multiple							
	disability :							
	cognitive,							
	motor,							
	visual and							
	hearing in							
	cerebral							
	palsy							
PM3.3	Recognize,	К	К	Υ	Lecture, Small	Written/		Pediatrics
1 1110.0	describe				group	Viva voce		· calatiloo
	and discuss				discussion			
	the role of				dioddoioii			
	special							
	education							
	in							
	children							
	with							
	learning							
	disabilities							
PM3.4	Demonstrat	S	S	Υ	DOAP session,	Skill		Pediatrics
	e spasticity,		Н		Small	assessme		
	rigidity and				group	nt		
	dystonia in				discussi			
	children							
	with				on,			
	cerebral				Bedside			
	palsy				clinic			
PM3.5	Enumerate	К	К	Υ	Lecture, Small		Pharmacolo	Pediatrics
	the		Н		group		gy	,
	indications				discussion			Orthopedi
	and							cs
	describe							
	the							
	therapies							
	for							
	spasticity							
	including							
	medication							
	s, serial							
	casts, nerve							
	blocks,							
	Sicolo,]		1		

	la a ta all'annone		ı	l		1	I	I
	botulinum							
	toxin							
	injections							
PM3.6	Enumerate the indications and describe prevention of joint subluxation s and contracture s by proper positioning, and use of special chairs, and appliances	К	КН	Y	DOAP session, Small group discussi on, Bedside clinic			Pediatrics
PM3.7	Enumerate the first aid measures to be used in patients with seizures	К	К	Y	Lecture, Small group discussion	Written/ Viva voce		Pediatrics
PM4. 2	Describe and discuss the principles of manageme nt of chronic pain and role of common modalities (moist heat, ultrasound, Short wave diathermy)	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce		Pediatrics

9. RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS Text Books

Recent Editions:

- 1. Ghai Essential Paediatrics CBS publications and distributes PVT Ltd
- 2. IAP textbook of Paediatrics Jaypee brothers Medical Publishers Related Authors A Parthasarathy and PSN Menon and MKC Nair
- 3. Pediatric Clinical methods Meharban Singh, CBS publications and distribution PVT Ltd.
- 4. PG Text Book of Pediatrics by Piyush Gupta J P Publishers.

Reference books :

- 1. Nelson's Text book of paediatrics, 22 Edition 2018. Elsevier
- 2. Manual of Neonatal care by J. Cloherty, 10th edition 2019. Woltersklower.

Journals :

- 1. Paediatrics American Academy of Paediatrics
- 2. Archives of Disease of childhood Royal college of Paediatricians
- 3. Indian Paediatrics Indian Academy of Paediatrics
- 4. Indian Journal of Paediatrics AIIMS Delhi Paediatrics Department

DERMATOLOGY, VENEREOLOGY AND LEPROSY

GOAL

Broad goal of teaching undergraduate medical students in Dermatology, Sexually transmitted infections and Leprosy is to impart such knowledge and skills that may enable him to diagnose and treat common ailment and to refer rare diseases or complications/ unusual manifestations of common diseases, to the specialist.

2. OBJECTIVES

2.1 KNOWLEDGE

The student shall be able to understand the principles of diagnosis of diseases of the skin, hair, nail and mucosa

2.2 SKILLS

- i. At the end of the postings, the student shall be able to
- ii. Recognize, diagnose, order appropriate investigations and treat common diseases of the skin including leprosy in the primary care setting and refer as appropriate
- iii. Syndromically approach to the recognition, diagnosis, prevention, counseling, testing and management of common sexually transmitted diseases including HIV based on national health priorities.
- iv. Recognize and treat emergencies including drug reactions and refer as appropriate

2.3 ATTITUDE AND COMMUNICATION SKILLS

At the end of the course, the learner shall be able to:

- 1. Communicate with the patient regarding the course, treatment plan and prognosis of the disease.
 - 2. Motivate patients with chronic diseases to adhere to the line of management as outlined by the health care provider.
 - 3. Follow the treatment guidelines and counsel the patient to adhere and comply.
 - 4. Respect patient's privacy.
 - 5. Maintain confidentiality.
 - 6. Work in a healthcare team efficiently while respecting all its members.
 - 7. Continually strive for updating his/her own knowledge and skill.
 - 8. To treat prolonged illnesses with regular follow-up, monitoring, proper counseling and refer to higher centres if required.

2.4 INTEGRATION:

The knowledge acquired in dermatology should help the students to understand the biologic basis of diseases of the skin, sexually transmitted diseases and leprosy and it provide an understanding that skin diseases may be a manifestation of systemic disease.

3. TEACHING HOURS AND COURSE CONTENT

G. **Teaching Hours**

SI. No	Teaching Learning Method Theory			
1	Large group teaching	20		
2	Small group teaching (SGT): SGD/Tutorials/Seminars	05		
3	Self-directed Learning(SDL)	05		
	TOTAL	30		

SI. No	Teaching Learning Method Practicals	No. weeks
1	Bedside clinics/practicals	2
		weeks
	TOTAL	

SI. No	Teaching Learning Method	
1	AETCOM	5
2	Skill Lab	
	TOTAL	

H. Course contents

iii. THEORY

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Large group teaching domain K	No. of Hours=20
		LEVEL K/KH,	
1.	ACNE DR1.1 Enumerate the causative and risk factors of acne DR1.3 Describe the treatment and preventive measures for various kinds of acne	К	1
2.	VITILIGO DR2.2 Describe the treatment of vitiligo	К	1
3.	LICHEN PLANUS DR4.2 Enumerate and describe the treatment modalities for lichen planus	К	1
4.	FUNGAL INFECTIONS DR7.1 Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of dermatophytes in adults and children(integration with paediatrics and microbiology) DR7.3 Describe the pharmacology and action of antifungal (systemic and topical) agents. Enumerate side effects of antifungal therapy(integration with pharmacology and microbiology)	К	2
5.	VIRAL INFECTIONS DR8.1 Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of common viral infections of the skin in adults and children(integration with paediatrics and microbiology) DR8.7 Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies	K	2

	(' 1'11 ()		
	for common viral illnesses of the		
	skin(integration with pharmacology)	1,4	
6.	URTICARIA AND ANGIOEDEMA	K	1
	DR14.1 Describe the etiology, pathogenesis		
	and clinical precipitating features and		
	classification of Urticaria and angioedema.		
	Microbiology, Pathology		
	DR14.5 Enumerate the indications and		
	describe the pharmacology indications and		
	adverse reactions of drugs used in the		
	urticarial indications and adverse reactions		
	of drugs used in the Urticaria and		
	angioedema. Pharmacology		
7.	PYODERMA	К	2
	DR15.3 Enumerate the indications and		
	describe the pharmacology, indications and		
	adverse reactions of topical and systemic		
	drugs used in treatment of pyoderma.		
	General Surgery Microbiology, Pharmacology		
8	SYSTEMIC DISEASES AND SKIN	K	2
	DR18.1 Enumerate the cutaneous features of		
	Type 2 diabetes. General Medicine		
	DR18.2 Enumerate the cutaneous features of		
	hypo/hyper-thyroidism. General Medicine		
9.	HUMAN ANATOMY	К	2
	AN4.2 Describe structure & function of skin		
	with its appendages		
	AN4.4 Describe modifications of deep fascia		
	with its functions		
	AN4.5 Explain principles of skin incisions		
10	PATHOLOGY	К	2
	PA34.1 Describe the risk factors,		
	pathogenesis, pathology and natural history		
	of squamous cell carcinoma of the skin		
	PA34.2 Describe the risk factors,		
	pathogenesis, pathology and natural history		
	of basal cell carcinoma of the skin		
	1	1	I .

	PA34.3 Describe the distinguishing features between a nevus and melanoma. Describe the etiology, pathogenesis, risk factors, morphology clinical features and metastases of melanoma		
11	MICROBIOLOGY MI4.3 Describe the etio-pathogenesis of Skin and soft tissue infections and discuss the clinical course, and the laboratory diagnosis. MI7.2 Describe the etio-pathogenesis and discuss the laboratory diagnosis of sexually transmitted infections. Recommend preventive measures, wherever relevant.	К	2
12	PHARMACOLOGY PH1.46 Describe the mechanisms of action, types, doses, side effects, indications and contraindications of antileprotic drugs. PH1.57 Describe drugs used in skin disorders	К	2

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Small group teaching domain K/S/A Level K/KH/S/SH,	No. of Hours=5
1.	NUTRITIONAL DEFICIENCY AND SKIN DR17.1 Enumerate and identify the cutaneous findings in vitamin A deficiency. General Medicine, Pediatrics, Biochemistry DR17.2 Enumerate and describe the various skin changes in Vitamin B complex .General Medicine, Pediatrics, Biochemistry DR17.3 Enumerate and describe the various changes in Vitamin C deficiency. General Medicine, Pediatrics, Biochemistry	К	1
2.	SCABIES AND PEDICULOSIS DR5.1 Describe the etiology, microbiology,	К	1

			T
	pathogenesis, natural history, clinical		
	features, presentations and complications of		
	scabies in adults and children		
	DR5.3 Enumerate and describe the		
	pharmacology, administration and adverse		
	reaction of pharmacotherapies for scabies		
	(integration with paediatrics and		
	pharmacology)		
3.	DERMATITIS AND ECZEMA	K	1
	DR12.1 Describe the aetiopathogenesis of		
	eczema		
	DR12.3 Classify and grade eczema		
	DR12.4 Enumerate the indications and		
	describe the pharmacology, indications and		
	adverse reactions of drugs used in the		
	treatment of eczema		
4.	STD	K	2
	DR10.3 Enumerate the indications and		
	describe the pharmacology, administration		
	and adverse reaction of pharmacotherapies		
	for syphilis. General Medicine Pharmacology,		
	Microbiology		
	DR10.4 Describe the prevention of congenital		
	syphilis. General medicine		
	DR10.6 Describe the etiology, diagnostic and		
	clinical features of non-syphilitic sexually		
	transmitted diseases (chancroid,		
	donovanosis and LGV) . General Medicine,		
	Microbiology		
	DR10.8 Enumerate the indications and		
	describe the pharmacology, indications and		
	adverse reactions of drugs used in the non-		
	syphilitic sexually transmitted diseases		
	(chancroid, donovanosis and LGV) General		
	Medicine Pharmacology, Microbiology		
	DR10.9 Describe the syndromic approach to		
	ulcerative sexually transmitted disease .		
	ulcerative sexually transmitted disease .		

General Medicine	
DR10.10 Describe the etiology, diagnostic	
and clinical features and management of	
gonococcal and non-gonococcal urethritis.	
General Medicine	

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Self-directed learning domain K/S/A Level K/KH,	No. of Hours=5
1.	PAPULOSQUAMOUS DISORDERS DR.3.3 Treatment of psoriasis including topical, systemic and phototherapy	К	1
2.	HIV DR11.1 Describe the etiology, pathogenesis and clinical features of the dermatologic manifestations of HIV and its complications including opportunistic infections. DR11.3 Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for dermatologic lesions in HIV.	K	2
3.	DR9.1 Classify, describe the epidemiology, etiology, microbiology,pathogenesis, clinical presentations and diagnostic features of Leprosy DR9.4 Enumerate, describe and identify lepra reactions and supportive measures and therapy of lepra reactions DR9.5 Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for various classes of leprosy based on national guidelines. DR9.6 Describe the treatment of Leprosy	K	2

based on the WHO guidelines	
DR9.7 Enumerate and describe the	
complications of leprosy and its	
management, including understanding	
disability and stigma.	

ix. PRACTICAL

SI. No. Topic/ System : (With Competency Bedside		Bedside Clinics/DOAP/field	No.
	Number) core/ non-core	visits	of
	competency	domain K/S/A	week
		Level K/KH/S/SH,	s=2
1	DR9.2	Bedside Clinics, S, SH	
	Demonstrate (and classify based		
	on) the clinical features of leprosy		
	including an appropriate		
	neurologic examination		
2	DR9.3Enumerate the indications	Bedside Clinics, DOAP session,	
	and observe the performance of a	S, KH	
	slit skin smear in patients with		
	leprosy		
3	DR11.2 Identify and distinguish	Bedside Clinics, S, SH	
	the dermatologic manifestations		
	of HIV, its complications,		
	opportunistic infections and		
	adverse reactions		
4	DR12.2 Identify eczema and	Bedside Clinics, S, SH	
	differentiate it from lichenification		
	and changes of aging		
5	DR12.5 Define erythroderma.	Bedside Clinics, S, KH	
	Enumerate and identify the causes		
	of erythroderma. Discuss the		
	treatment		
6	DR12.6 Identify and distinguish	Bedside Clinics, S, SH	
	exfoliative dermatitis from other		
	skin lesions		
7	DR12.7 Identify and distinguish	Bedside Clinics, S, SH	

	fixed drug eruptions and Steven Johnson syndrome from other skin		
	lesions		
8	DR13.1 Distinguish bulla from vesicles	Bedside Clinics, S, SH	
9	DR13.2 Demonstrate the Tzanck test, nikolsky sign and bulla spread sign	Bedside Clinics, S, SH	
10	DR13.3 Calculate the body surface area of involvement of vesiculobullous lesions	Bedside Clinics, S, SH	
11	PA34.4 Identify, distinguish and describe common tumors of the skin	DOAP session, S, SH	
12	End posting exam		

SKILL LAB: NIL

Comp no.	Competency Description [P]	No. required to certify	Duration hours	Number of batches[number of students per batch]
Total				

CERTIFIABLE SKILLS: No certifiable skill for the academic year

Comp no.	Competency Description [P]	Need for Skill lab [yes/no]	No. required to certify	Duration hours	Number of batches[number of students per batch]
Total					

x. AETCOM AND SKILL LAB

SI. No.	Module Number	module number	Lectures [hours]	Small group [hours]	No. of Hours
1	AETCOM	3.4 – Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to confidentiality in patient care	3	2	5 hours
	Skill lab				As allotted

ii. Clinical clerkship plan

	DERMATOLOGY
MONDAY	10-11 am
	OPD case presentation
	5-6 pm admitted cases presentation
Tuesday	10-11 am
	OPD case presentation
	Post admission rounds presentation
	10-11 am
Wednesday	OPD case presentation
	Follow up of cases
Thursday	10-11 am
	OPD case presentation
	Follow up of cases
Friday	10-11 am
	OPD case presentation
	Case sheet writing
SATURDAY	Discharge paper writing

4. SCHEME OF EXAMINATION:

Eligibility criteria:

- Eligibility for exams: 80% attendance in theory classes and bedside clinics
- completion of log and record books
- Learners must have completed the required certifiable competencies

Pass criteria: obtaining 50% marks in end of posting exams and as an allied subject of medicine in general medicine theory exams

- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university exam.
- Internal assessment will appear as a separate head of passing at summative exams

A candidate, who has not secured requisite aggregate in the internal assessment has
to successfully complete the remediation measures prescribed by the University as
the case may be. Candidates who fail to meet prescribed 50% marks in internal
assessment after availing remedial measures will not be eligible for the university
exams.

E. FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT:

- As a part of General Medicine Internal Assessments (IAs)
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Formative assessment: based on day to day assessment of SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments [records of activities used for assessment to be maintained by the department]
- Written exams will include MCQ's[MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

PRACTICAL INTERNAL ASSESSMENT

- Clinical end posting exams [EOP] will be conducted
- Viva/oral examination should assess approach to clinical context and included in practical IA marks.

DEPARTMENT OF DERMATOLOGY, VENEREOLOGY & LEPROSY Integrated phase-wise Internal Assessment Phase 3-1 **Final THEORY** IA-1 IA-2 Total Theory[#] 20 30 Written MCQ 10 10 **AETCOM* Formative** assessment: SDL/Class tests/ 05 05 MCQs/ Tutorials/ FA Seminars/ **Assignments** Logbook 05 05 Total 40 50 90

FINAL THEORY IA MARKS = 15 (final total divided by 6)

^{*} To be included as a question in theory paper

DEPARTMENT OF DERMATOLOGY, VENEREOLOGY & LEPROSY								
	Integrated phase-wise Internal Assessment							
PRACTICAL Phase 2 2wk posting Phase 3-1 2wk posting Phase 3-1 2wk posting Phase 3-2 2wk posting Total								
EOP	Clinical skills assessment (OSCE/ Mini-CEX/ Case presentation/ AETCOM)	15	15	20				
	Viva-voce (may include AETCOM)	10	10	10				
Others	Formative assessment	05		05				
Utners	Logbook/ Record book		05	05				

FINAL PRACTICAL IA MARKS = 20 (final total divided by 5)

At least one EOP is to be conducted with OSCE as a part of it.

AETCOM may be included as an OSCE station or as a part of viva-voce during EOP, if it needs to be assessed in practical (Refer competency booklet & AETCOM module)

Blue-printing of Internal assessments in Dermatology, Venereology & Leprosy

BLUEPRINT	Number of questions		
BLUEFRINI	IA-1*	IA-2	
MCQ (1 mark each)	10	10	
Structured Long Essay (10 marks each)	00	00	
Short Essay (5 marks each)	02	04	
Short Answer (2 marks each)	05	05	
Total (in marks)	30	40	
* AETCOM should have a weightage of 5 marks			

B. SUMMATIVE ASSESSMENT:

Dermatology, Venereology And Leprosy is learnt and assessed during professional years [PY] 2 and 3 part 1. Summative assessment will be held at the end of 3rd professional year part 2 as a part of general medicine theory papers as Dermatology, Venereology And Leprosy is an allied subject of general medicine.

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in general medicine theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) in general medicine to pass

5. **INTEGRATION:**.

	Competency list for integration						
SL	Comp	Competency to be	nesting/	Integrating department			
	No.	integrated sharing/ aligning /correlatio n	Horizontal	Vertical			
1	DR5.1	Describe the etiology, microbiology, pathogenesis, natural history, clinical features, presentations and complications of scabies in adults and children			Paediatrics		
2	DR5.2	Identify and differentiate scabies from other lesions in adults and children			Paediatrics		
3	DR5.3	Enumerate and describe the pharmacology, administration and adverse reaction of pharmacotherapies for scabies		Pharmacology	Paediatrics		
4	DR6.1	Describe the etiology pathogenesis and diagnostic features of pediculosis in adults and children		Microbiology	Paediatrics		
5	DR6.2	Identify and differentiate pediculosis from other skin lesions in adults and children			Paediatrics		

6	DR 7.1	Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of dermatophytes in adults and children	Microbiology	Paediatrics
7	DR7.2	Identify Candida species in fungal scrapings and KOH mount	Microbiology	
8	DR 7.3	Describe the pharmacology and action of antifungal (systemic and topical) agents. Enumerate side effects of antifungal therapy	Microbiology Pharmacology	
9	DR 8.1	Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of common viral infections of the skin in adults and children	Microbiology	Paediatrics
10	DR 8.7	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for common viral illnesses of the skin	Pharmacology	
11	DR 9.1	Classify, describe the epidemiology, etiology, microbiology, pathogenesis, clinical presentations and diagnostic features of Leprosy	Microbiology Community Medicine	General Medicine

12	DR9.2	Demonstrate (and classify based on) the clinical features of leprosy including an appropriate neurologic examination		General Medicine
13	DR9.4	Enumerate, describe and identify lepra reactions and supportive measures and therapy of lepra reactions	Pharmacology	General Medicine
14	DR9.5	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for various classes of leprosy based on national guidelines.	Pharmacology Community Medicine	General Medicine
15	DR9.6	Describe the treatment of Leprosy based on the WHO guidelines	Pharmacology Community Medicine	General Medicine
16	DR9.7	Enumerate and describe the complications of leprosy and its management, including understanding disability and stigma.	Pharmacology Psychiatry	General Medicine
17	DR10.1	Identify and classify syphilis based on the presentation and clinical manifestations	Microbiology	General Medicine
18	DR10.2	Identify spirochete in a dark ground microscopy	Microbiology	
19	DR10.3	Enumerate the indications and describe the pharmacology, administration and adverse reaction of	Microbiology Pharmacology	General Medicine

		pharmacotherapies for			
		syphilis.			
00	DD10.4	Describe the prevention of			General
20	DR10.4	congenital syphilis.			Medicine
21	DR10.5	Counsel in a non-			General
		judgemental and empathetic			Medicine
		manner patients on			
		prevention of sexually			
		transmitted disease			
		Describe the etiology,			General
		diagnostic and clinical			Medicine
22	DR10.6	features of non-syphilitic		Microbiology	
	DITTO.0	sexually transmitted		wiiciobiology	
		diseases (chancroid,			
		donovanosis and LGV)			
		Identify and differentiate			General
	DR10.7	based on the clinical		Microbiology	Medicine
23		features non-syphilitic			
		sexually transmitted			
		diseases (chancroid,			
		donovanosis and LGV			0
	DR10.8	Enumerate the indications and describe the			General
				Microbiology Pharmacology	Medicine
		pharmacology, indications and adverse reactions of			
24		drugs used in the non-			
24		syphilitic sexually			
		transmitted diseases			
		(chancroid, donovanosis			
		and LGV)			
	DR10.9	Describe the syndromic			General
25		approach to ulcerative			Medicine
		sexually transmitted disease			
	DR10.1 0	Describe the etiology,			General
		diagnostic and clinical			Medicine
26		features and management			
		of gonococcal and non-			

		gonococcal urethritis.			
		Describe the etiology,			Obstretics &
27	DR10.1	diagnostic and clinical			Gynecology
	1	features and management			, 3,
		of vaginal discharge.			
		Describe the etiology,			General
	DR11.1	pathogenesis and clinical			Medicine
20		features of the dermatologic		Microbiology	
28		manifestations of HIV and	!		
		its complications including			
		opportunistic infections.			
		Identify and distinguish the			General
		dermatologic			Medicine
29	DR11.2	manifestations of HIV, its		Microbiology	
29		complications, opportunistic	'		
		infections and adverse			
		reactions			
	DR11.3	Enumerate the indications			General
		and describe the		Microbiology Pharmacology	Medicine
00		pharmacology,			
30		administration and adverse			
		reaction of			
		pharmacotherapies for			
		dermatologic lesions in HIV Identify and distinguish			General
	DR 12.7	fixed drug eruptions and		Dathology	Medicine
31		Steven Johnson syndrome		Pathology Microbiology	Wedicine
		from other skin lesions	'	wiiciobiology	
		Describe the etiology,			
	DR14.1	pathogenesis and clinical			
32		precipitating features and		Microbiology Pathology	
		classification of Urticaria			
		and angioedema			
	DR14.5	Enumerate the indications		Pharmacology	
00		and describe the			
33		pharmacology indications			
		and adverse reactions of			

		drugs used in the urticarial		
		indications and adverse		
		reactions of drugs used in		
		the Urticaria and		
		angioedema.		
34	DR15.2	Identify staphylococcus on	Microbiology	
		a gram stain	Wilcrobiology	
		Enumerate the indications		General
		and describe the		surgery
		pharmacology, indications	Microbiology	
35	DR15.3	and adverse reactions of	Pharmacology	
		topical and systemic drugs		
		used in treatment of		
		pyoderma		
36	DR15.4	Enumerate the indications		General
		for surgical referral		surgery
37	DR16.1	Identify and distinguish	Pathology	General
		skin lesions of SLE		Medicine
38	DR16.2	Identify and distinguish	Pathology	General
		Raynaud's phenomenon		Medicine
20		Enumerate and identify the		General Medicine
39	DR17.1	cutaneous findings in		Paediatrics
		vitamin A deficiency		Biochemistry
		Enumerate and describe the		General
	DR17.2	various skin changes in		Medicine
40		Vitamin B complex .		Paediatrics
		Vitaliili B complex.		Biochemistry
		Enumerate and describe the		General
		various changes in Vitamin		Medicine
41	DR17.3	C deficiency.		Paediatrics
				Biochemistry
		Enumerate and describe the		General
40	DD17.4	various changes in Zinc		Medicine
42	DR17.4	deficiency		Paediatrics
		-		Biochemistry
43	DR18.1	Enumerate the cutaneous		General

		features of Type 2 diabetes.		Medicine
		Enumerate the cutaneous		General
44	DR18.2	features of hypo/hyper-		Medicine
		thyroidism.		

RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS

- 1. Skin disease and STI's -Uday Khopkar -7th edition
- 2. Skin disease diagnosis and treatment -Habif -2nd edition
- 3. Common skin disease -Roxburgh's -17th edition
- 4. Andrew's diseases of the skin ,clinical dermatology -13th edition
- 5. Handbook of leprosy -WH Jopling and C Mcdougall -5th edition
- 6. Illustrated synopsis of dermatology and STD Neena khanna 6th edition
- 7. Concise textbook of Dermat ology by IADVL for UGs 2nd edition
- 8. Fitzpatrick's color atlas and synopsis of clinical dermatology -8th edition
- 9. Textbook of Dermatology ,Venerology and Leprosy DM Thappa 4th edition
- 10. Illustrated text book of dermatology -JS Pasricha and Ramji gupta 4th edition
- 11. Text book of clinical dermatology Virendra N Sehgal 5th edition
- 12. An introduction to Dermatology ,STD and Leprosy-AK Bajaj and Rajeev sharma 1st edition

Reference Books

- 1. Rook's text book of Dermatology 9th edition
- 2. Fitzpatricks Dermatology -9th edition
- 3. Textbook of Dermatology Jean L Bolognia -4th edition
- 4. Andrew's diseases of skin 12th edition
- 5. IADVL Textbook of Dermatology -4th edition
- 6. IAL Textbook of Leprosy -2nd edition
- 7. Sexually Transmitted Diseases King K Homes 4th edition

RESPIRATORY MEDICINE

1. GOAL: Our department intends to train the MBBS students to be competent in diagnosis and management of obstructive airway disease and Tuberculosis.

2. OBJECTIVES

2.1 KNOWLEDGE

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

- i. Define, discuss and approach respiratory symptoms like cough, shortness of breath, haemoptysis and generate differential diagnosis based on the clinical history.
- ii. Describe, select, and interpret diagnostic tests based on the clinical presentation.
- iii. Discuss the epidemiology, clinical manifestations, diagnosis and management of tuberculosis.
- iv. Describe and discuss the epidemiology, the predisposing factors and therapeutic factors that determine resistance to drugs.
- v. Discuss the pharmacology, contraindications, interactions and adverse reactions of anti-tubercular drugs.
- vi. Define, classify and discuss the epidemiology, clinical manifestations, diagnosis and management of obstructive airway disease.
- vii. Differentiate between asthma and COPD; describe the severity and risk factors associated with exacerbation of obstructive airway disease.
- viii. Discuss and describe the impact of OAD on the society and workplace preventive measures to reduce OAD in workplaces.

2.2 SKILLS

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

- i. Elicit, document and present an appropriate medical history that includes respiratory symptoms, risk factors.
- ii. Demonstrate and perform a systematic examination that establishes the diagnosis based on the clinical presentation that includes general and systemic examination.
- iii. Perform and interpret important diagnostic tests like AFB smear, pulmonary function test, peak expiratory flow rate, CXR, mantoux test.
- iv. Demonstrate and counsel patient on the correct use of inhalers.

2.3 ATTITUDE AND COMMUNICATION SKILLS

At the end of the course, the learner shall be able to:

- i. Counsel patients appropriately on smoking cessation, compliance with medications and the correct use of inhalers
- ii. Communicate diagnosis, treatment plan and subsequent follow up plan to patients

5.4 INTEGRATION:

The teaching should be aligned and integrated horizontally and vertically in order to allow the students to recognize, diagnose and treat TB in the context of society, national health priorities, drug resistance and comorbid conditions like HIV.

6. TEACHING HOURS AND COURSE CONTENT

A. Teaching Hours

SI. No	Teaching Learning Method Theory			
1	Large group teaching		10	
2	Small group teaching (SGT) : SGD/Tutorials/Seminars		08	
3	Self-directed Learning(SDL)		02	
		TOTAL	20	

SI. No	Teaching Learning Method Practicals	No. of weeks
1	Bedside clinics/practicals/autopsies	nil
	TOTAL	

SI. No	Teaching Learning Method	
1	AETCOM	
2	Skill Lab	
	TOTA	L

B. Course contents

iv. THEORY

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Large group teaching domain K LEVEL K/KH,	No. of Hours=10
1	of tuberculosis and its impact on the work, life and economy of India CT1.2 Describe and discuss the microbiology of tubercle bacillus, mode of transmission, pathogenesis, clinical evolution and natural history of pulmonary and extra pulmonary forms (including lymph node, bone and CNS) CT1.3 Discuss and describe the impact of coinfection with HIV and other co-morbid conditions. Like diabetes on the natural history of tuberculosis CT1.12 Enumerate the indications for tests including: serology, special cultures and polymerase chain reaction and sensitivity testing	KH KH K	1
2	CT1.14 Describe and discuss the pharmacology of various anti-tuberculous agents, their indications, contraindications, interactions and adverse reactions CT1.15 Prescribe an appropriate antituberculosis regimen based on the location of disease, smear positivity and negativity and comorbidities based on current national guidelines including directly observed tuberculosis therapy (DOTS)	KH	1
3	CT1.4 Describe the epidemiology, the predisposing factors and microbial and therapeutic factors that determine resistance to drugs Define criteria for the cure of Tuberculosis;	КН	1

	describe and recognize the features of drug		
	resistant tuberculosis, prevention and		
4	therapeutic regimens CT1.2 Describe and discuss the microbiology	KH	1
-	of tubercle bacillus, mode of transmission,		•
	pathogenesis, clinical evolution and natural		
	history of pulmonary and extra pulmonary		
	forms (including lymph node, bone and CNS)		
5	CT1.14 Describe and discuss the	KH	1
	pharmacology of various anti-tuberculous		
	agents, their indications, contraindications,		
	interactions and adverse reactions		
6	CT2.1 Define and classify obstructive airway	KH	1
	disease	KH	
	CT2.2 Describe and discuss the	KH	
	epidemiology, risk factors and evolution of		
	obstructive airway disease		
	CT2.5 Describe and discuss the genetics of alpha 1 antitrypsin deficiency in emphysema		
7	CT2.6 Describe the role of the environment in	KH	1
'	the cause and exacerbation of obstructive	KII	•
	airway disease	КН	
	CT2.7 Describe and discuss allergic and non-		
	allergic precipitants of obstructive airway		
	disease		
8	CT2.16 Discuss and describe therapies for	КН	1
	OAD including bronchodilators, leukotriene		
	inhibitors, mast cell stabilisers, theophylline,		
	inhaled and systemic steroids, oxygen and		
	immunotherapy	KH	
	CT2.17 Describe and discuss the indications		
	for vaccinations in OAD		
9	CT2.3 Enumerate and describe the causes of	KH	1
	acute episodes in patients with obstructive		
	airway disease	KH	
	CT2.6 Describe the role of the environment in	NII	
	the cause and exacerbation of obstructive	KH	

	airway disease CT2.20 Describe and discuss the principles and use of oxygen therapy in the hospital and at home		
10	CT2.4 Describe and discuss the physiology and pathophysiology of hypoxia and hypercapneia	КН	1

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Small group teaching domain K/S/A Level K/KH/S/SH	No. of Hours=8
1	CT1.15 Prescribe an appropriate antituberculosis regimen based on the location of disease, smear positivity and negativity and comorbidities based on current national guidelines including directly observed tuberculosis therapy (DOTS)	SH	1
2	CT1.3 Discuss and describe the impact of co-infection with HIV and other co-morbid conditions. Like diabetes on the natural history of tuberculosis	К	1
3	CT1.13 Describe and discuss the origin, indications, technique of administration, efficacy and complications of the BCG vaccine	КН	1

4	CT1.16 Describe the appropriate precautions, screening,	KH	1
	testing and indications for chemoprophylaxis for		
	contacts and exposed health care workers		
5	CT2.13 Describe the appropriate diagnostic work up	SH	1
	based on the presumed aetiology		
6	CT2.18 Develop a therapeutic plan including use of	SH	1
	bronchodilators and inhaled corticosteroids		
7	CT2.14 Enumerate the indications for and interpret the	SH	1
	results of : pulse oximetry, ABG, Chest Radiograph		
	CT2.20 Describe and discuss the principles and use of	KH	
	oxygen therapy in the hospital and at home		
8	CT2.28 Demonstrate an understanding for the	KH	1
	difficulties faced by patients during smoking cessation		

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Self-directed learning domain K/S/A Level K/KH,	No. of Hours= 2
1.	CT2.14 Enumerate the indications for and interpret the results of : pulse oximetry, ABG, Chest Radiograph	SH	2
	CT2.28 Demonstrate an understanding for the difficulties faced by patients during smoking cessation	KII	

xi. PRACTICAL/BEDSIDE CLINICS

Nil for 3rd professional year part 1 Skill lab nil for 3rd professional year part 1

xii. AETCOM

SI. No.	Module Number	Module number	Lectures [hours]	Small group [hours]	No. of Hours
1.	AETCOM	Module 3.4- Identify, discuss and	2	3	5
		defend medicolegal, socio-cultural			
		and ethical issues as it pertains to			
		confidentiality in patient care.			

7. SCHEME OF EXAMINATION:

Eligibility criteria:

- Eligibility for exams: 80% attendance in theory classes and bedside clinics
- Completion of log and record books
- Learners must have completed the required certifiable competencies

Pass criteria: Obtaining 50% marks in end of posting exams and as an allied subject of medicine in general medicine theory exams

- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university exam.
- Internal assessment will appear as a separate head of passing at summative exams
- A candidate, who has not secured requisite aggregate in the internal assessment has
 to successfully complete the remediation measures prescribed by the University.
 Candidates who fail to meet prescribed 50% marks in internal assessment after
 availing remedial measures will not be eligible for the university exams.

A. FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT:

- As a part of General Medicine Internal Assessments (IAs)
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Formative assessment: based on day to day assessment of SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments [records of activities used for assessment to be maintained by the department]
- Written exams will include MCQ's[MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

PRACTICAL INTERNAL ASSESSMENT

 Clinical end posting exams [EOP] was conducted including Viva/oral examination in 2nd professional year

DEPARTMENT OF RESPIRATORY MEDICINE & TUBERCULOSIS Integrated phase-wise Internal Assessment					
THEORY Phase 3-1					
	Theory [#]	45			
Written	MCQ	20			
	AETCOM*	05			
FA	Formative assessment: SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments	10			
	Logbook	10			
Total 90 90					
FINAL THEORY IA MARKS = 15 (final total divided by 6)					
* To be included as a question in theory paper					

	DEPARTMENT OF RESPIRATORY N Integrated phase-wise In		SIS
	PRACTICAL	Phase 2 2wk posting	Final Total
EOP	Clinical skills assessment (OSCE/ Mini-CEX/ Case presentation/ AETCOM)	30	
	Viva-voce (may include AETCOM)	10	
Others	Formative assessment	05	
	Logbook/ Record book	05	
•	Total	50	50

FINAL PRACTICAL IA MARKS = 10 (final total divided by 5)
At least one EOP is to be conducted with OSCE as a part of it.
AETCOM may be included as an OSCE station or as a part of viva-voce during EOP, if it needs to be assessed in practical (Refer competency booklet & AETCOM module)

Blue-printing of Internal assessments in Respiratory Medicine & Tuberculosis

BLUEPRINT	Number of questions
DESCI MINI	IA-1
MCQ (1 mark each)	20
Structured Long Essay (10 marks each)	01
Short Essay (5 marks each)	08
Short Answer (2 marks each)	10
Total (in marks)	90
* AETCOM should have a weightage of 5 marks	

B. SUMMATIVE ASSESSMENT:

Respiratory medicine is learnt and assessed during professional years [PY] 2 and 3 part

1. Summative assessment will be held at the end of 3rd professional year part 2 as a part of general medicine theory papers as respiratory medicine is an allied subject of general medicine.

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in general medicine theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) in general medicine to pass

8. INTEGRATION:

	Competency list for integration				
SL	Comp	np Competency to be	nesting/ sharing/ aligning /correlation	Integrating department	
	No.	integrated		Horizontal	Vertical
1	CT1.11	Assist in the performance, outline the correct tests that require to be performed and interpret he results of a pleural fluid aspiration.	Sharing	Horizontal	

9. RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS

- 1. Macleod's Clinical Examination, 14th Edition
- 2. Hutchison's Clinical Methods, 24th Edition
- 3. Davidson's Principles and Practice of Medicine, 23rd Edition
- 4. Technical and Operational Guidelines for TB Control in India
- 5. Tuberculosis by S.K.Sharma, 2nd edition

CASUALTY

1. GOAL

Broad goal of teaching undergraduate medical students in casualty clinical posting is to enable them to manage emergencies with adequate competence at primary care level

2. OBJECTIVES

2.1 KNOWLEDGE

The student shall be able to understand the principles of:

- Approach to patients presenting with common emergency problems
- To understand medicolegal formalities
- · To understand principles of disaster management

2.2 SKILLS

At the end of the postings, the student shall be able to:

- Take history,
- Examine patients,
- Interpret clinical and investigational data,
- · Documentation of medical data,
- Work in teams,
- Provide timely and appropriate care for patients
- Coordinate with other departments

2.3 ATTITUDE AND COMMUNICATION SKILLS

At the end of the course, the learner shall be able to:

- Communicate properly with patients and their relatives about patients condition and plan of treatment
- Communicate effectively with other departments
- Communicate cordially with peers and support staff
- · Communication aptly with legal authorities
- Demonstrates respect for teachers, nurses, colleagues, patients and support staff

2.4 INTEGRATION:

At the end of the course, the learner shall be able to: Understand principles of integration of patient care with other departments

3. TEACHING HOURS AND COURSE CONTENT

A. Teaching Hours

SI. No	Teaching Learning Method Practicals	No. weeks
1	Bedside clinics/practicals	2 weeks
	TOTAL	

SI. No	Teaching Learning Method	No. of Hours
1	AETCOM	As allotted
2	Skill Lab	As allotted
	TOTAL	

B. Course contents

i. THEORY: nil

ii. PRACTICAL

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Bedside Clinics/DOAP/field visits domain K/S/A Level K/KH/S/SH,	No. of weeks=2
1	Orientation and TRIAGE		
2	Approach to and management of acute abdomen		
3	Approach to and management of a patient with sepsis [medical and surgical]		
4	Approach to and management of a patient with shock		
5	Approach to and management of a patient with acute dyspnoea		

6	Approach to and management of an	
	unconscious patient and a case of	
	status epilepticus	
7	Approach to and management of a	
	patient with poisoning or overdose	
8	Approach to and management of a	
	patient with envenomations	
9	Basic idea about Medico Legal Case	
10	Trauma resuscitation	
11	Mass casualty/ disaster management	
12	Revision	
13	Revision	
14	End of posting examination	

4. SKILL LAB:

Comp no.	Competency Description [P]	Duration hours	Number of batches[number of students per batch]
		AS ALLOTED	
-			
Total			

5. CERTIFICATION OF SKILLS: nil

6. AETCOM

SI. No.	Module Number	Lectures [hours]	Small group [hours]	No. of Hours
	AETCOM	AS ALLOTED		hours

7. Clinical clerkship plan

	WORK PATTERN
MONDAY	10 am to 11 am
	NEW case history taking, examination and case sheet writing.
	11 am to 1 pm
	Clinical case presentation and subject discussion
Tuesday	10 am to 11 am
	NEW case history taking, examination and case sheet writing.
	11 am to 1 pm
	Clinical case presentation and subject discussion
	10 am to 11 am
Wednesday	NEW case history taking, examination and case sheet writing.
	11 am to 1 pm
	Clinical case presentation and subject discussion
Thursday	10 am to 11 am
	NEW case history taking, examination and case sheet writing.
	11 am to 1 pm
	Clinical case presentation and subject discussion
Friday	10 am to 11 am
	NEW case history taking, examination and case sheet writing.
	11 am to 1 pm
	Clinical case presentation and subject discussion
SATURDAY	MEDICOLEGAL DOCUMENTATION

8. SCHEME OF EXAMINATION:

Eligibility criteria:

- Eligibility for exams: 80% attendance in bedside clinics
- completion of log and record books
- Learners must have completed the required certifiable competencies

Pass criteria: obtaining 50% marks in end of posting exams and as an allied subject of medicine.

B. FORMATIVE ASSESSMENT

PRACTICAL INTERNAL ASSESSMENT

- Clinical end posting exams [EOP] will be conducted
- Viva/oral examination should assess approach to clinical context and included in practical IA marks.

•

	DEPARTMENT OF CASUALTY Integrated phase-wise Internal Assessment	
THEORY	J 1	ALL PHASES
Written	Theory	
written	MCQ	NO THEORY
	Formative assessment:	CLASSES
FA	SDL/Class tests/ MCQs/ Tutorials/ Seminars/	ALLOTTED
ГА	Assignments	ALLOTTED
	Logbook	
	Total	00
	FINAL THEORY IA MARKS = 00	

DEPARTMENT OF CASUALTY				
	Integrated phase-wise Internal Assessment			
PRACTICAL		Phase 3-1		
PRACTICAL		2 weeks posting		
EOP	Clinical skills assessment	30		
EUP	Viva-voce	10		
Others	Formative assessment	05		
Others	Logbook/ Record book	05		
Total 50				
FINAL PRACTICAL IA MARKS = 05 (final total divided by 10)				

C. SUMMATIVE ASSESSMENT:

As a part of general medicine exams

9. INTEGRATION:

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	Competency list for integration								
SL	Comp	Competency to be	nesting/	Integrating	department				
	No.	integrated	sharing/ aligning /correlation	Horizontal	Vertical				
1		Trauma resuscitation	NESTING	ORTHOPEDIC S, GENERAL SURGERY					
2		MLC Recording	NESTING		FORENSIC MEDICINE				

10. RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS

Textbooks:

- Tintinalli's Emergency medicine
- Rosen's Text book of emergency medicine

Journals:

- Indian journal of critical care medicine
- The American Journal of emergency medicine
- Journal of Emergencies, Trauma & shock

PSYCHIATRY CURRICULUM FOR THE PY III PART I

1. GOAL

Our goal is to train the learner to perform as a clinician

- who is capable of providing preventive, promotive, curative, palliative and holistic care with compassion to patients having common ailments,
- who can lead and function in a health care team efficiently,
- who is capable of communicating with patients and their families appropriately,
- who is committed to continuous self-improvement in skills and knowledge
- who is a committed, ethical and responsive professional
- who is accountable to patients, their families, community and profession

2. OBJECTIVES:

2.1 KNOWLEDGE

 The Indian Medical Graduate after his/her training in the department of Psychiatry at SDMCMS&H should be able to demonstrate understanding of the psychological basis, epidemiological profile, signs and symptoms of diseases and their investigation, management prevention and rehabilitation.

2.2 SKILLS: At the end of the course the student should be able to:

- Competently interview and examine a patient of any age group and make a clinical diagnosis
- Appropriately order and interpret laboratory and psychological tests
- Initiate appropriate cost-effective treatment based on an understanding of the rational drug prescriptions medical interventions required and preventive measures.
- Independently perform common medical procedures safely
- Document his/her observations accurately,
- Follow up patients with psychological / medical problems and refer whenever required,
- Communicate effectively, educate and counsel the patient and family,
- Manage common psychiatric emergencies and refer when required,

2.3 ATTITUDE AND COMMUNICATION SKILLS:

At the end of the course, the learner shall be able to

- Respect patient's autonomy
- Do no harm
- Understand and follow the principle of beneficence
- Think and act in a just manner
- Demonstrate empathy
- Respect privacy
- · Maintain confidentiality
- Communicate effectively,
- Educate and counsel the patient and family,
- Maintain punctuality
- Work in a team of peers, seniors and interdepartmental personnel.

2.4 COMPETENCIES:

The student must demonstrate:

- Ability to promote mental health and mental hygiene,
- Knowledge of aetiology (bio-psycho-social-environmental interactions), clinical features, diagnosis and management of common psychiatric disorders across all ages,
- Ability to recognize and manage common psychological and psychiatric disorders in a primary care setting, institute preliminary treatment in disorders difficult to manage, and refer appropriately,
- Ability to recognize alcohol/ substance abuse disorders and refer them to appropriate centres,
- · Ability to assess risk for suicide and refer appropriately,
- Ability to recognize temperamental difficulties and personality disorders,
- Assess mental disability and rehabilitate appropriately,
- Understanding of National and State programmes that address mental health and welfare of patients and community.

2.5 INTEGRATION

At the end of the course, the learner shall be able to form concepts through aligned and integrated learning experiences in order to provide sound psychological and biological basis incorporating the principles of psychology and psychiatry into a holistic and comprehensive approach to the care of the patient.

3. TEACHING HOURS AND COURSE CONTENT

C. **Teaching Hours**

SI. No	Teaching Learning Method Theory	No. of Hours
1	Large group teaching	25
2	Small group teaching (SGT) : SGD/Tutorials/Seminars	10
3	Self-directed Learning(SDL)	05
	TOTAL	45

SI. No	Teaching Learning Method Practicals	No. of weeks
1	Bedside clinics	2
	TOTAL	-

SI. No	Teaching Learning Method	No. of Hours
1	AETCOM	5hrs
	TOTAL	

D. Course contents

v. THEORY:

Psychiatry Lecture Schedule

No	Topic		Competencies	Posting	Time	T/L	Assess
						method	ment
1	Doctor patient	•	Components of	3 rd	1	Lecture/	Viva/wri
	relationship		communication	year	hour	Small	tten/MC
		•	breaking bad news			Group	Qs
		•	importance of				
			confidentiality				
			PS1.2				

2	Mental health	 Stress, components and cause Time-management, study skills, balanced diet, sleep wake cycle PS2.1, PS2.2 	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs
3	Mental health	 Components of memory, learning and emotions Principles of personality development and motivation Define and distinguish between normality and abnormality PS2.3, PS2.4, PS2.5 	3 rd year	1 hour	Lecture / small groups	Written/ Viva/MC Qs
4	Introduction to psychiatry	 Growth, history, development of psychiatry as specialty Brain and behaviour PS3.1 	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs
5	Introduction to psychiatry	 Signs and symptoms of common mental disorders Biological, psychological and social factors and their interactions in causation of mental disorders Distinguish psychotic and non-psychotic disorders PS3.2, PS3.6, PS3.12 	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs

6	Introduction to psychiatry	Pharmacological basis and side- effects of drugs used in psychiatric disorders PS3.10	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs
7	Substance Use disorders	 Magnitude & etiology Treatment Pharmacological basis and side- effects of drugs Conditions for specialist referral PS4.1, PS4.4, PS4.6, PS4.7 	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs
8	Psychotic disorders	 Magnitude & etiology Treatment Pharmacological basis and side-effects of drugs Conditions for specialist referral PS5.1, PS5.3, PS5.5, PS5.6 	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs
9	Depression	 Magnitude & etiology Treatment Pharmacological basis and side-effects of drugs Conditions for specialist referral PS6.1, PS6.4, PS6.6, PS6.7 	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs
10	Bipolar disorders	 Magnitude & etiology Treatment Pharmacological basis and side- 	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs

11	Assessment	effects of drugs Conditions for specialist referral PS7.1, PS7.4, PS7.6, PS7.7 First Formative assessment	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs
12	Anxiety disorders	 Magnitude & etiology Treatment Pharmacological basis and side-effects of drugs Conditions for specialist referral PS8.1, PS8.4, PS8.6, PS8.7 	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs
13	OCD	 Magnitude & etiology Treatment Pharmacological basis and side-1 hour effects of drugs Conditions for specialist referral PS8.1, PS8.4, PS8.6, PS8.7 	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs
14	Stress related disorders	 Magnitude & etiology Treatment Pharmacological basis and side-effects of drugs Conditions for specialist referral PS9.1, PS9.4, PS9.6, PS9.7 	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs

15	Personality disorders	 Magnitude & etiology Treatment Pharmacological basis and side-effects of drugs Conditions for specialist referral PS11.1, PS11.4, PS11.6, PS11.7 	3 rd year	1 hour	Lecture / Small Group	Viva/wri tten/MC Qs
16	Psychosexual and Gender Identity disorders (Psychosexual disorders)	 Magnitude & etiology Treatment Pharmacological basis and side-effects of drugs Conditions for specialist referral PS13.1, PS13.4, PS13.6, PS13.7 	3 rd year	hour	Lecture / Small Group	Viva/wri tten/MC Qs
17	Psychosexual and Gender Identity disorders (Gender Identity disorders)	 Magnitude & etiology Treatment Pharmacological basis and side-effects of drugs Conditions for specialist referral PS13.1, PS13.4, PS13.6, PS13.7 	3 rd year	1 hour	Lecture / Small Group	Viva/wri tten/MC Qs
18	Emotional & Behavioral problems in Child and Adolescence (ADHD, ODD,	 Magnitude & etiology Treatment Pharmacological basis and sideeffects of drugs 	3 rd year	1 hour	Lecture / Small Group	Viva/wri tten/MC Qs

	CD)	• Conditions for specialist referral PS14.1, PS14.3, PS14.5, PS14.6				
19	Other specific childhood psychiatric disorders (enuresis)	 Magnitude & etiology Treatment Pharmacological basis and side-effects of drugs Conditions for specialist referral PS14.1, PS14.3, PS14.5, PS14.6 	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs
20	Psychiatric disorders in elderly	 Common psychiatric disorders including dementia, depression & psychosis Magnitude & etiology Therapy in elderly Conditions for specialist referral PS16.1, PS16.2, PS16.3, PS16.5 	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs
21	Psychiatric emergencies	Describe recognition of psychiatric emergencies like suicide, deliberate self-harm and aggressive PS17.1, PS17.2, PS17.3	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs

22	Therapeutics	Describe principles of psychosocial interventions in psychiatric illness including psychotherapy, rehabilitation and behavioral therapy Policy	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs
23	Assessment	PS18.3Second Formative assessment	3 rd year	1 hour	Lecture/ Small Group	Viva/wri tten/MC Qs
24	Revision Class		3 rd year	1 hour	Lecture/ Small Group	
25	Review and Fee	dback	•		-	

Integrated Lecture Schedule

No	Topic	Competencies	Posting & Integratio	Time	T/L method	Assessm ent
			n			
1	Introduction to psychiatry	 Enumerate, describe common psychiatric disorders, magnitude, etiology and clinical features in patients with organic psychiatric disorders Essential investigations 	3 rd year General Medicine	1 hour	Lecture/ Small Group	Viva/writt en/MCQs

		in patients with organic psychiatric disorders PS3.7, PS3.8				
2	Alcohol and substance use disorders	 Magnitude and aetiology of alcohol use disorders Treatment of alcohol use disorders including pharmacothera py and psychotherapy Pharmacologic al basis and side-effects of drugs in alcohol use disorders Appropriate conditions for specialist referrals in alcohol use disorders PS4.1, PS4.4, PS4.6, PS4.7 	3 rd year General Medicine	1 hour	Lecture/ Small Group	Viva/writt en/MCQs
3	Psychosomatic disorders	 Magnitude and etiology of psychosomatic disorders Treatment of psychosomatic disorders 	3 rd year General Medicin e	1 hour	Lecture/ Small Group	Viva/writ ten/MCQ s

4	Psychosomatic disorders	 Pharmacologic al basis of treatment and side-effects of psychosomatic disorders Appropriate conditions for specialist referral PS12.1, PS12.4, PS12.6, PS12.7 Magnitude and etiology of psychosomatic disorders Treatment of psychosomatic disorders Pharmacologic al basis of treatment and side-effects of psychosomatic disorders Appropriate conditions for specialist referral PS12.1, PS12.4, PS12.6, PS12.7 	3 rd year Dermato logy	1 hour	Lecture/ Small Group	Viva/writ ten/MCQ s
5	Mental retardation, scholastic backwardness, neurodevelopm ental disorders,	 Magnitude & etiology Intelligence quotient and assessment Psychosocial 	3 rd year Pediatri cs	1 hour	Lecture/ Small Group	Viva/writt en/MCQs

	oution	trootmonto on d				
	autism	treatments and interventions				
		PS15.1, PS15.3,				
		PS15.4	ord	_		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
6	Miscellaneous	Relevance and	3 rd year	1	Lecture/	Viva/writ
		role of	Commu	hour	Small	ten/MCQ
		community	nity		Group	S
		psychiatry	psychiat			
		 Objectives, 	ry			
		strategies and				
		contents of				
		National				
		Mental Health				
		Program				
		 Enumerate and 				
		describe				
		salient features				
		of MHCA 2017				
		 Describe the 				
		concept				
		principles of				
		preventive				
		mental health				
		promotion				
		(positive				
		mental health);				
		and community				
		education				
		Enumerate and				
		describe the				
		identifying features and				
		the principles				
		of participatory				
		management				
		of mental				
		illness				

		occurring during and				
		after disasters PS19.1, PS19.2,				
		PS19.4, PS19.5, PS19.6				
7	Miscellaneous	Describe and discuss basic legal and ethical issues in psychiatry PS19.3, PS19.4	3 rd year Forensic	1 hour	Lecture/ Small Group	Viva/writ ten/MCQ s
8	Risk assessment for suicide	Enumerate and describe recognition of suicide risk in individuals PS17.1	3 rd year	1 hour	Lecture/ Small Group	Viva/writ ten/MCQ s
9	ECT and other modalities like RTMS	 Indications of modified ECT Indications of other modalities PS 18.2 	3 rd year	1 hour	Lecture/ Small Group	Viva/writ en/MCQs
10	Psychological assessments		3 rd year	1 hour	Lecture/ Small Group	Viva/writ ten/MCQ s

xiii. PRACTICAL Clinical postings in III MBBS part I (Part B)

N	Topic	Competencies	Time	T/L method	Assessm
	торіс	Competencies	Time	1/L memou	
0					ent
01	Organic psychiatry	 Enumerate, describe common psychiatric disorders, magnitude, etiology and clinical features in patients with organic psychiatric disorders Essential investigations in patients with organic psychiatric disorders Describe the steps and demonstrate in a simulated environment family education in patients with organic psychiatric disorders PS 3.7, 3.8 & 3.9 	3 hours	observation of consultants, role-plays, demonstration s, simulations, Audio-visual aids	OSCE, OSLER, DOPS, CBD
02	OCD	 Describe, elicit & document clinical history in patient with OCD Enumeration, describe and interpret laboratory investigations in such patients PS8.2, PS8.3 	3 hours	Guided observation of consultants, role-plays, demonstration s, simulations, Audio-visual aids	OSCE, OSLER, DOPS, CBD
03	Stress related/Diss ociative disorders	Describe, elicit & document clinical features of stress related/dissociative disorders	3 hours	Guided observation of consultants, role-plays, demonstration	OSCE, OSLER, DOPS, CBD

		 Enumeration, describe and interpret laboratory investigations in such patients PS9.2, PS9.3 		s, simulations, Audio-visual aids	
04	Somatofor m disorders	 Describe, elicit & document clinical features of somatoform disorders Enumeration, describe and interpret laboratory investigations in such patients Demonstrate family education in a patient with somatoform, dissociative and conversion disorders in a simulated environment PS10.2, PS10.3, 10.5 	3 hours	Guided observation of consultants, role-plays, demonstration s, simulations, Audio-visual aids	OSCE, OSLER, DOPS, CBD
05	Personality disorders		3 hours	Guided observation of consultants, role-plays, demonstration s, simulations, Audio-visual aids	OSCE, OSLER, DOPS, CBD

		PS11.2, PS11.3, PS 11.5			
06	Psychosom	• Describe, elicit &	3	Guided	OSCE,
00	atic	document clinical	hours	observation of	OSCE, OSLER,
	disorders	features in patients	Hours	consultants,	DOPS,
	uisoruers	with psychosomatic		role-plays,	CBD
		disorders		demonstration	ODD
		Enumeration, describe		s, simulations,	
		and interpret		Audio-visual	
		laboratory		aids	
		investigations in such			
		patients			
		• Demonstrate family			
		education in a patient			
		with psychosomatic			
		disorders in a			
		simulated environment			
		PS12.2,PS12.3, PS 12.5			
07	Psychosexu	• Describe, elicit &	3	Guided	OSCE,
	al and	document clinical	hours	observation of	OSLER,
	Gender	features in patients		consultants,	DOPS,
	Identity	with psychosexual and		role-plays,	CBD
	disorders	gender identity		demonstration	
		disorders		s, simulations,	
		Enumeration, describe		Audio-visual	
		and interpret		aids	
		laboratory			
		investigations in such patients			
		Demonstrate family			
		education in a patient			
		with psychosexual and			
		gender identity			
		disorders in a			
		simulated environment			
		PS13.2, PS13.3, PS 13.5			

	T		I	T	
08	Child and	 Describe, elicit & 	3	Guided	OSCE,
	adolescent	document clinical	hour	observation of	OSLER,
	psychiatric	features in patients	S	consultants,	DOPS,
	disorders	with child and		role-plays,	CBD
		adolescent psychiatric		demonstration	
		disorders		s, simulations,	
		 Enumeration, describe 		Audio-visual	
		and interpret		aids	
		laboratory			
		investigations in such			
		patients			
		 Demonstrate family 			
		education in a patient			
		with psychiatric			
		disorders occurring in			
		childhood and			
		adolescence in a			
		simulated environment			
		PS14.2, PS 14.4			
09	Mental	 Elicit and document a 	3	Guided	OSCE,
	retardation	history and clinical	hour	observation of	OSLER,
		examination and	s	consultants,	DOPS,
		choose appropriate		role-plays,	CBD
		investigations in a		demonstration	
		patient with mental		s, simulations,	
		retardation		Audio-visual	
		 Describe, elicit & 		aids	
		document clinical			
		history in child with			
		mental retardation			
		Perform adequate			
		physical examination			
		in such children			
		Choose appropriate			
		investigations in child			
		with mental			
		retardation	Ì		

		PS 15.3, PS15.4			
10	Davahiatria		2	Cuidad	OCCE
10	Psychiatric disorders in	Perform family advection in a nationt	3 hour	Guided observation of	OSCE,
		education in a patient		consultants,	OSLER,
	elderly	with psychiatric	S	·	DOPS,
		disorders in elderly in a simulated environment		role-plays, demonstration	CBD
		PS16.4			
		P310.4		s, simulations, Audio-visual	
				aids	
11	Family	Describe and	3	Guided	OSCE,
11	education	demonstrate steps of	hour	observation of	OSCE, OSLER,
	education	family education in a		consultants,	DOPS,
		simulated environment	S	·	CBD
		in a patient with		role-plays, demonstration	CDD
		following psychiatric		s, simulations,	
		disorders		Audio-visual	
		Personality		aids	
		disorders		aius	
		Psychosomatic			
		disorders			
		 Psychosexual and 			
		Gender identity			
		disorders			
		Psychiatric			
		disorders in			
		childhood and			
		adolescence			
		Elderly with			
		psychiatric			
		illnesses			
		PS11.5, PS12.5, PS13.5,			
		PS14.4, PS16.5			
12	End of	With feedback	3		OSCE
'_	postings	THAI ICCUDAON	hours		JOOL
	Assessment				
Tota			36		
			Hours		
				ı	l .

- # OSCE (Objective Structured Clinical Examination)
- # OSLER (Objective Structured Long Examination Record)
- # DOPS (Direct Observation of Procedural Skills)
- # CBD (Case Based Discussion)

SELF DIRECTED LEARNING (SDL) schedule: 5 hours

No	Topic	Competencies	Time	T/L method	Assessment
01	Stigma	Enumerate the components of stigma DR9.7	1hr	Lecture/ Small Group	Viva/written /MCQs
02	Suicide	Define Suicide Components of Suicidal Behavior Evaluation of Suicidal behavior PS17.1	1hr	Lecture/ Small Group	Viva/written /MCQs
03	Memory and Learning	Describe and discuss the physiological basis of memory, learning and speech PY10.9	1hr	Lecture/ Small Group	Viva/written /MCQs
04	Emotions	Define and describe the principles of emotions PS2.3	1hr	Lecture/ Small Group	Viva/written /MCQs
05	Addiction	Behavioral addiction PH1.22	1hr	Lecture/ Small Group	Viva/written /MCQs
Tota	al		05 Hours	·	

SKILL LAB: NIL

CERTIFICATION OF SKILLS: NIL

xiv. AETCOM: MODULE 3.1: THE FOUNDATIONS OF COMMUNICATION

Sl. No.	Module Number	Lectures [hours]	Small group [hours]	No. of Hours
	AETCOM	3hrs	2hrs	5hrs

xv. Clinical clerkship plan

Days	UNIT-I	UNIT-II
Monday : Day 1	10:00am - 1:00 am OPD case presentation	Case work up : History taking, Mental Status Examination
	5-6 pm: Admitted patients case work up	
Tuesday: Day 2	Case work up : History taking, Mental Status	10:00am - 1:00 am OPD case presentation
	Examination	5-6 pm: Admitted patients case work up
Wednesday: Day 3	10:00am - 1:00 am OPD case presentation	Case work up: Investigations and management
	5-6 pm: Admitted patients case work up	

Thursday: Day 4	Case work up: Investigations and management	10:00am – 1:00 am OPD case presentation 5-6 pm: Admitted patients case work up
Friday: Day 5	10:00am - 1:00 am OPD case presentation - follow up cases 5-6 pm: Admitted patients case work up	Case work up: Psychological assessments
Saturday: Day 6	Case work up: Psychological assessments	10:00am - 1:00 am OPD case presentation - follow up cases 5-6 pm: Admitted patients case work up
Monday: Day 7	10:00am - 1:00 am OPD case presentation - follow up cases 5-6 pm: Admitted patients case work up	Case work up : Pre ECT evaluation
Tuesday: Day 8	Case work up : Pre ECT evaluation	10:00am - 1:00 am OPD case presentation - follow up cases 5-6 pm: Admitted patients case work up
Wednesday: Day 9	10:00am - 1:00 am OPD case presentation - application of scales 5-6 pm: Admitted patients case work up	Case work up: Psychoeducation

Thursday: Day 10	Case work up: Psychoeducation	10:00am - 1:00 am OPD case presentation - application of scales 5-6 pm: Admitted patients case work up
Friday: Day 11	10:00am - 1:00 am OPD case presentation - Explaining adherence to treatment 5-6 pm: Admitted patients case work up	Case work up: Psychiatric Emergency Assessment
Saturday: Day 12	Case work up: Psychiatric Emergency Assessment	10:00am – 1:00 am OPD case presentation: Explaining adherence to treatment 5-6 pm: Admitted patients case work up

4. SCHEME OF EXAMINATION:

Eligibility criteria:

- Learners must secure at least 50% marks of total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) assigned for internal assessment in in order to be eligible for appearing at the University examination.
- Student should get a minimum of 75% attendance in Theory and 80 % in Practical classes to be eligible to appear for university examination.
- Learners must have completed the required certifiable competencies and completed the logbook.

A.FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT:

- A minimum of 2 Internal Assessments (IAs) to be conducted
- One of the internal exams will be conducted like preliminary exams
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given a chance of remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Formative assessment: based on day to day assessment of SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments [records of activities used for assessment to be maintained by the department]
- Written exams will include MCQ's[MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

	DEPARTMENT O			
	Integrated phase-wise			1
THEORY		Phase 3-1 IA-1 IA-2		Final Total
	Theory [#]	35	20	
Written	MCQ	10	10	
	AETCOM*	05		
FA	Formative assessment: SDL/Class tests/ MCQs/ Tutorials/ Seminars/	05	05	
	Assignments			
	Logbook	05	05	
	Total	60	40	100
	FINAL THEORY IA MARKS =	20 (final tota	l divided by	(5)
	* To be included as a qu	uestion in the	ory paper	

	DEPARTMENT OF PSYCHIATRY				
	Integrated phase-wise Inter	nal Assessme	ent		
Phase 2 Phase 3-1 F T T T T T T T T T T T T T T T T T T					
EOP	Clinical skills assessment (OSCE/ Mini-CEX/ Case presentation/ AETCOM)	20	30		
	Viva-voce (may include AETCOM)	10	10		
Othors	Formative assessment	05	05		
Others	Logbook/ Record book	05	05		
	Total	40	50	90	

FINAL PRACTICAL IA MARKS = 15 (final total divided by 6)

At least one EOP is to be conducted with OSCE as a part of it.

AETCOM may be included as an OSCE station or as a part of viva-voce during EOP, if it needs to be assessed in practical (Refer competency booklet & AETCOM module)

Blue printing of internal assessments in Psychiatry

BLUEPRINT	Number of questions			
DLUEPKINI	IA-1*	IA-2		
MCQ (1 mark each)	10	10		
Structured Long Essay (10 marks each)	01	00		
Short Essay (5 marks each)	04	02		
Short Answer (2 marks each)	05	05		
Total (in marks)	50	30		
* AETCOM should have a weightage of 5 marks				

B. SUMMATIVE ASSESSMENT:

Psychiatry is learnt and assessed during professional years [PY] 3rd year Part 1. SA will be held at the end of 3rd professional year part 2.

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) to pass
- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university of that subject.
- Internal assessment will appear as a separate head of passing at summative exams
- A candidate, who has not secured requisite aggregate in the internal assessment, has
 to successfully complete the remediation measures prescribed by the University.
 Candidates who fail to meet prescribed 50% marks in internal assessment after
 availing remedial measures will not be eligible for the university exams.

5. RECOMMENDED TEXTBOOKS, REFERENCE BOOKS AND ATLAS

Textbooks

Note: A single textbook may not cover the entire curriculum. Referring to more than one book is recommended.

Recent editions of:

Kaplan & Sadock's - Synopsis of Psychiatry: 11th edition A Short textbook of Psychiatry – 7th edition, Dr Niraj Ahuja ICD-10 (Diagnostic criteria's) Fish's clinical Psychopathology: 4th edition

Reference books

Oxford textbook of Psychiatry: 2nd edition Kaplan & Sadock's Comprehensive Text of Psychiatry: 10th edition

Journals

Indian Journal of Psychiatry
Indian Journal of Psychological Medicine
Cochrane review
American Journal of Psychiatry
British Journal of Psychiatry
Psychiatric Clinics of North America (PCNA)

MASTERCHART:

	Ph	ase 2	Pha	se 3-1	Pha	Phase 3-2	
	First IA	Second IA	First IA	Second IA	First IA	Second IA	
Community Medicine	40+10	40+10	60+20	100+20*			
Forensic Medicine	40+10	40+10	60+20	100+20			
Ophthalmology			60+20	100+20			
ENT			60+20	100+20			
OBG	40+10	40+10	40+10	40+10	60+20	100+20 *	
Gen Medicine	40+10	40+10	40+10	40+20	100+20	100+20 *	
Gen Surgery	40+10	40+10	40+10	40+20	100+20	100+20 *	
Pediatrics			40+10	40+10	60+20	100+20	
Orthopedics	-	-		25+05	30+10	60+10	
Psychiatry			50+10	30+10			
Skin			30+10	40+10			
Pulmonology				70+20			
Radio diagnosis				30+10			
Anaesthesia		-		30+10			
Dentistry				30+10			
PM&R				20+10			

* Has two papers of 100 marks each

The IA marked with yellow are preliminary exams

The IA marked in blue are allied subjects, they don't have preliminary exams

OPHTHALMOLOGY

1. GOAL

The broad goal of undergraduate teaching in ophthalmology is to impart appropriate knowledge, skills, attitudes, values and responsiveness, so that she or he may function appropriately and effectively as a primary care physician of first contact for ocular disorders and also function as a community health leader to assist in the implementation of NPCB and to familiarize the recent advances in ophthalmology.

2. OBJECTIVES

2.1 KNOWLEDGE

At the end of the course, the student should have knowledge of:

- 1. Common problems affecting the eye
- 2. Magnitude of blindness in India and its main causes
- 3. Principles of management of major ophthalmic emergencies
- 4. Major systemic diseases affecting the eye
- 5. Effect of local and systemic diseases on the patient's vision and the necessary action required to minimise the sequelae of such diseases
- 6. Adverse drug reactions with special reference to ophthalmic manifestations
- 7. National programme for prevention of blindness and its implementation at various level
- 8. Eye care education for prevention of eye problems
- 9. Role of Primary Health Centres
- 10. Organisation of primary health care and the functioning of the Ophthalmic assistant
- 11. Integration of the National programme for control of blindness with the other National health programmes
- 12. Eye bank organisation

2.2 SKILLS

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

- 1. Elicit a history pertinent to general health and ocular status
- 2. Perform procedures such as visual acuity testing, extraocular movements testing, digital tonometry, instillation of eye drops, eye wash and ocular bandaging.

- 3. Observe basic procedures like Indirect ophthalmoscopy, epilation, conjunctival/corneal foreign body removal, corneal staining, perimetry, etc
- 4. Diagnose and treat common problems affecting the eye
- 5. Interpret ophthalmic signs in relation to common systemic disorders
- 6. Provide first aid in major ophthalmic emergencies
- 7. To be part of community surveys for visual health
- 8. To be part of primary eye care services through Primary Health Centres

2.3 ATTITUDE AND COMMUNICATION SKILLS

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

- Use effective means of communication with the public and individuals to motivate them for surgery for cataract, glaucoma ,etc and for eye donation
- 2. Establish rapport with his seniors, colleagues and paramedical workers, so as to effectively function as a member of the eye care team

2.4 INTEGRATION

From the integrated teaching of other basic sciences, student should be able to apply this knowledge to diagnose and manage common eye problems and to function effectively as a primary care physician of first contact for ocular disorders.

3. TEACHING HOURS AND COURSE CONTENT

A. Teaching Hours

SI.	Teaching Learning Method Theory		
No	reaching Learning Method Theory		
1	Large group teaching	30	
2	Small group teaching (SGT): SGD/Tutorials/Seminars	60	
3	Self-directed Learning(SDL)	10	
	TOTAL	100	

SI. No	Teaching Learning Method Practicals	No. of weeks
1	Bedside clinics	4
	TOTAL	4

SI. No	Teaching Learning Method	No. of Hours
1	AETCOM	5
2	Skill Lab	-
	TOTAL	5

B. Course Contents

i. THEORY (Large and small group teaching)

SI	Topic: Visual acuity assessment (With competency	Lecture	Hours
No	number) Core/Non-core competency	(Large	30
		group)	
1	Core :Describe the physiology of vision OP 1.1		
	Describe & demonstrate parts and layers of eyeball AN41.1		
2	Describe and discuss auditory & visual evoke potentials		
	PY10.19		
3	Core : Define, classify and describe the types and methods		
	of correcting		
	refractive errors OP1.2		5
4	Core: Demonstrate the steps in performing the visual		
	acuity assessment for distance vision, near vision, colour		
	vision, the pin hole test and the menace and blink reflexes.		
	0P1.3		
5	Core: Enumerate the indications and describe the		
	principles of refractive surgery OP 1.4		
	Lids and Adnexa, Orbit		
1	Core: Enumerate the causes, describe and discuss the		
	aetiology, clinical presentations and diagnostic features of		
	common conditions of the lid and adnexa including		
	Hordeolum externum/ internum, blepharitis, preseptal		
	cellulitis, dacryocystitis, hemangioma, dermoid, ptosis,		
	entropion, lid lag, lagopthalmos OP2.1		

_		
2	Core: Demonstrate under supervision clinical procedures	
	performed in thelid including: bells phenomenon,	
	assessment of entropion/ectropion, performs the	4
	regurgitation test of lacrimal sac. Massage technique in	
	cong. dacryocystitis, and trichiatic cilia removal by	
	epilation OP2.3	
3	Core: Describe the aetiology, clinical presentation. Discuss	
	the complications and management of orbital cellulitis	
	0P2.4	
4	Core: Classify the various types of orbital tumours.	
	Differentiate the symptoms and signs of the presentation	
	of various types of ocular tumours OP2.7	
	None-core: Describe the etiology, genetics, pathogenesis,	
	pathology,	
	presentation, sequelae and complications of	
	retinoblastoma PA36.1	
	Conjunctiva	
1		
1	Core: Describe the aetiology, pathophysiology, ocular	
	features, differential diagnosis, and complications. and	
	management of various causes of conjunctivitis 0P3.3	•
2	Core: Describe the aetiology, pathophysiology, ocular	3
	features, differential diagnosis, complications and	
	management of vernal catarrh OP3.5	
3	Core: Describe the aetiology, pathophysiology, ocular	
	features, differential	
	diagnosis, complications and management of Pterygium	
	OP3.6	
	Cornea	
1	Core: Enumerate, describe and discuss the types and	
	causes of corneal	02
	Ulceration OP4.1	
2	Core: Enumerate the indications and the types of	
	keratoplasty 0P4.6	

	Sclera	
1	Core: Define, enumerate and describe the aetiology, associated systemic conditions, clinical features complications indications for referral and management of episcleritis OP5.1	01
	Iris and Anterior chamber	
1	Core: Describe clinical signs of intraocular inflammation and enumerate The features that distinguish granulomatous from non-granulomatous inflammation. Identify acute iridocyclitis from chronic condition OP6.1	
2	Core: Enumerate systemic conditions that can present as iridocyclitis and describe their ocular manifestations OP6.3	
3	Core: Describe and discuss the angle of the anterior chamber and its clinical correlates OP6.5 None-core: Describe the anatomical aspects of cataract, glaucoma & central retinal artery occlusion AN41.2	
4	Core: Enumerate and discuss the aetiology, the clinical distinguishing features of various glaucomas associated with shallow and deep Anterior chamber. Choose appropriate investigations and treatment For patients with above conditions. OP6.7	5
5	Core: Enumerate and choose the appropriate investigation for patients with conditions affecting the Uvea OP6.8	
	Lens	
1	Core: Describe the surgical anatomy and the metabolism of the lens OP7.1	
2	Core: Describe and discuss the aetio-pathogenesis, stages of maturation and complications of cataract OP7.2	03
3	Core: Enumerate the types of cataract surgery and describe the steps, intra-operative and post-operative complications of extracapsular Cataract extraction surgery. OP7.4	
	Retina & optic Nerve	
1	Core: Discuss the aetiology, pathology, clinical features and management of vascular occlusions of the retina OP8.1	

2	Core: Enumerate and discuss treatment modalities in management of diseases of the retina OP8.4	03
3	Core: Describe and discuss the correlative anatomy,	
	aetiology, clinical manifestations, diagnostic tests,	
	imaging and management of diseases of the optic nerve	
	and visual pathway OP8.5	
	Miscellaneous	
1	Core: Classify, enumerate the types, methods of diagnosis	
	and indications for referral in a patient with heterotropia/	
	strabismus OP9.2	
2	Core: Enumerate, describe and discuss the causes of	
	avoidable blindness and the National Programs for Control	
	of Blindness (including vision	
	2020) OP9.4	
3	Core: Describe the evaluation and enumerate the steps	4
	involved in the stabilisation, initial management and	
	indication for referral in a patient with ocular injury OP9.5	
4	Describe drugs used in Ocular disorders PH1.58	

SI No	Topic: Visual acuity assessment (With competency number) Core/Non-core competency	Small group Seminars	Hours 36 hrs
1	None-core: Describe the position, nerve supply and actions of intraocular muscles AN41.3		
2	Core: Describe and discuss functional anatomy of eye, physiology of image formation, physiology of vision including colour vision, Refractive errors, colour blindness, Physiology of pupil and light reflex PY10.17 Describe and discuss the physiological basis of lesion in visual pathway PY10.18		
3	Core: Define, classify and describe the types and methods of correcting refractive errors OP1.2		
4	Core: Demonstrate the steps in performing the visual acuity assessment for distance vision, near vision, colour vision, the pin hole test and the menace and blink reflexes. OP1.3		6

5	Core: Define, enumerate the types and the mechanism	
	by which strabismus leads to amblyopia OP 1.5	
	Lids and Adnexa, Orbit	
1	Core: Enumerate the causes, describe and discuss the	
	aetiology, clinical presentations and diagnostic features	
	of common conditions of the lid and adnexa including	
	Hordeolum externum/ internum, blepharitis, preseptal	
	cellulitis, dacryocystitis, hemangioma, dermoid, ptosis,	
	entropion, lid lag, lagopthalmos OP2.1	
2	Core : Enumerate the causes and describe the	
	differentiating features, and clinical features and	
	management of proptosis 0P2.6	4
3	Core: List the investigations helpful in diagnosis of	
	orbital tumors.	
	Enumerate the indications for appropriate referral	
	OP2.8	
	Conjunctiva	
1	Core: Describe the aetiology, pathophysiology, ocular	
	features, differential diagnosis, and complications. and	
	management of various causes of conjunctivitis OP3.3	
2	Core: Describe the aetiology, pathophysiology, ocular	3
	features, differential diagnosis, complications and	
	management of vernal catarrh 0P3.5	
	Corneas	
1	Core: Enumerate the causes of corneal edema OP4.3	
2	Core: Enumerate the causes of corneal blindness OP4.5	
3	Core: Enumerate the indications and describe the	
	methods of tarsorraphy 0P4.7	
4	Core: Describe and discuss the importance and	
	protocols involved in eye	03
	donation and eye banking OP4.9	

	Sclera	
1	Core :Define, enumerate and describe the aetiology, associated systemic conditions, clinical features, complications, indications for referral and management of scleritis OP5.2	01
	Iris and Anterior chamber	
1	Core: Identify and distinguish acute iridocyclitis from chronic iridocyclitis OP6.2	
2	Core: Enumerate systemic conditions that can present as iridocyclitis and describe their ocular manifestations OP6.3	
3	Core: Describe and distinguish hyphema and hypopyon OP6.4	
4	Core: Enumerate and discuss the aetiology, the clinical distinguishing features of various glaucomas associated with shallow and deep Anterior chamber. Choose appropriate investigations and treatment For patients with above conditions. OP6.7	
5	Core: Choose the correct local and systemic therapy for conditions of the anterior chamber and enumerate their indications, adverse events and interactions OP6.9	7
	Lens	
1	Core: Describe and discuss the aetio-pathogenesis, stages of maturation and complications of cataract OP7.2	
2	Core: Enumerate the types of cataract surgery and describe the steps, intra-operative and post-operative complications of extracapsular Cataract extraction surgery. OP7.4	04
	Retina & optic Nerve	
1	Core: Discuss the aetiology, pathology, clinical features and management of vascular occlusions of the retina OP8.1	
2	Core: Enumerate and discuss treatment modalities in management of diseases of the retina OP8.4	04

3	Core: Describe and discuss the correlative anatomy, aetiology, clinical manifestations, diagnostic tests, imaging and management of diseases of the optic nerve and visual pathway OP8.5 Non-Core: Explain effect of pituitary tumours on visual pathway AN30.5	
	Miscellaneous	
2	Core: Classify, enumerate the types, methods of diagnosis and indications for referral in a patient with heterotropia/strabismus OP9.2 Explain the anatomical basis of oculomotor, trochlear and abducent nerve palsies along with strabismus AN31.5 Non-Core: Describe anatomical basis of Horner's syndrome AN31.3 Core: Enumerate, describe and discuss the causes of	4
	avoidable blindness and the National Programs for Control of Blindness (including vision 2020) OP9.4	7
3	Core: Describe the evaluation and enumerate the steps involved in the stabilisation, initial management and indication for referral in a patient with ocular injury OP9.5	
4	Core : Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vision and visual loss in the elderly IM24.15	

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Small group teaching- Case based learning sessions	No. of Hours 16 hrs
1	Core: Cavernous sinus thrombosis:Describe the clinical features on ocular examination and management of a patient with cavernous sinus thrombosis OP2.5		2
2	Core: Trachoma: Describe the aetiology, pathophysiology, ocular features, differential Diagnosis, complications and management of trachoma OP3.4		2
3	Core: Pterygium: Describe the aetiology, pathophysiology, ocular features, differential diagnosis, complications and management of Pterygium OP3.6		2
4	Core: Symblepharon: Describe the aetiology, pathophysiology, ocular features, differential diagnosis, complications and management of symblepharon OP3.7		2
5	Core: Corneal Ulcer: Enumerate and discuss the differential diagnosis of infective keratitis OP4.2		2
6	Core: Dry Eye: Enumerate the causes and discuss the management of dry eye OP4.4		2
7	Core: Laser therapy for Retinal diseases: Enumerate the indications for laser therapy in the treatment of retinal diseases (including retinal detachment, retinal degenerations, diabetic retinopathy & hypertensive retinopathy) OP8.2		2
8	Core: Headache: Describe the role of refractive error correction in a patient with headache and enumerate the indications for referral OP9.3		2

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SI.	Topic/ System : (With Competency	Self-Directed Learning	No. of
No.	Number) core/ non-core competency		Hours
1	Red Eye – causes, Differences between		1
	Conjunctival & ciliary congestion		
2	Core: Corneal Ulcer - Bacterial, Viral,		1
	Fungal Clinical features, Investigations &		
	Management OP 4.2		
3	Epiphora – Etiology & Evaluation		1
4	Core: Diabetic Retinopathy classification		1
	and treatment modalities OP 8.2		
5	Core: Preventable Blindness OP 9.4		1
6	Ocular Emergencies		1
7	Core: Cycloplegics & Mydriatics PH 1.58		1
8	Core: Lenses – Identification & Uses of		1
	Convex & Concave lenses		
9	Vernal keratoconjunctivitis – clinical		1
	features & management		
10	Core: Tests for Dry Eye OP 4.4		1

ii. PRACTICALS

a) Bedside Clinics:

SL. NO.	TOPIC OF PRACTICAL:	Suggested teaching learning method	Teaching hours
1	Core: Demonstrate the steps in performing the visual acuity assessment for distance vision, near vision, colour vision, the pin hole test and the menace and blink reflexes. OP1.3,PY10.20	DOAP	3
2	Core: Demonstrate technique of removal of foreign body in the cornea in a simulated environment OP4.8	DOAP	3
3	Core: Counsel patients and family about eye donation in a simulated environment OP4.10	DOAP	3

4	Core: Identify and demonstrate the clinical features and distinguish and diagnose common clinical conditions affecting the anterior chamber OP6.6	DOAP	3
5	Core: Counsel patients with conditions of the iris and anterior chamber about their diagnosis, therapy and prognosis in an empathetic manner in a simulated environment OP6.10	DOAP	3
6	Core: Demonstrate the correct technique of ocular examination in a patient with a cataract OP7.3	DOAP	3
7	Core: Enumerate the types of cataract surgery and describe the steps, intra- operative and post-operative complications of extracapsular cataract extraction surgery OP7.4	DOAP	3
8	Core: To participate in the team for cataract surgery OP7.5	DOAP	3
9	Core: Administer informed consent and counsel patients for cataract surgery in a simulated environment OP7.6	DOAP	3
10	Core: Demonstrate the correct technique to examine extra ocular movements (Uniocular & Binocular) OP9.1	DOAP	3

b) Skill Lab:

c) Certifiable Skills:

Comp no.	Competency Description [P]	No. required to certify	Duration hours	Number of batches[number of students per batch]
PY10.20	Demonstrate testing of visual acuity, color and	1	3	10

	field of vision in volunteer/ simulated environment			
OP9.1	Demonstrate the correct technique to examine extra ocular movements (Uniocular & Binocular)	5	3	10
Total	2			

S.No	Skill	T-L Method	Assessment & Grading (I/ O/ D)	Number of batches[number of students per batch]
	Instillation of eye medication(I)	DOAP		10
2	Indirect Ophthalmoscopy(O)	DOAP		10
3	Epilation(0)	DOAP		10
4	Eye Irrigation(I)	DOAP		10
5	Ocular bandaging(I)	DOAP		10
6	Digital Tonometry(D)	DOAP		10

- I Independently performed on patients
- O- Observed in patients or on simulations
- D- Demonstration on patients or simulations and performance under supervision in patients

3. AETCOM AND SKILL LAB

Sl. No.	Module Number	AETCOM/Skill Lab	Lectures	Small group	No. of Hour s
1	3.3	AETCOM- Foundations of communication-4	1	4	5

NOTE: The above table containing teaching hours assigned to different topics under large and small group teaching may be used as a guide by the Institute.

SUGGESTED DISTRIBUTION OF THEORY TEACHING HOURS

SI No	Topics	Large Group	Small Grou	p Teaching	SDL	Hours
			Seminars (36 hours)	Case based discussion (16 hours)		
1	Visual Acuity Assessment	5	5			
2	Lids and Adnexa, Orbit	4	6	2		
3	Conjunctiva	3	2	6		
4	Cornea	2	4	4		
5	Sclera	1	1			
6	Iris And Anterior Chamber	5	6			
7	Lens	3	3			
8	Retina And Optic Nerve	3	3	2		
9	Miscellaneous	4	6	2		

AETCOM		5		
Integrated learning		3		
TOTAL	30	60	10	100

4. SCHEME OF EXAMINATION:

Eligibility criteria:

- Learners must secure at least 50% marks of total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the University examination.
- Student should get a minimum of 75% attendance in Theory and 80 % in Practical classes to be eligible to appear for university examination.
- Learners must have completed the required certifiable competencies and completed the log book.

FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT:

- A minimum of 2 Internal Assessments (IAs) to be conducted
- One of the internal exams will be conducted like preliminary exams
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given a chance of remediation
- Formative assessment marks shall be calculated based on scoring in written tests
 and AETCOM modules. In Formative assessment under clinical skills, in Phase 2 for
 total of 40 marks, 10 marks is for OSCE and 20 marks for case presentation, 10
 marks for formative assessment. In phase3 part 1 posting, for total of 60 Marks,
 OSCE will be for 10 Marks and case presentation for 30 marks, viva for 10 marks,
 formative assessment 10 marks. In the next (prelims practical) internal assessment,
 case presentation will be for 80 marks and viva will be for 20 Marks.
- Formative assessment: based on day to day assessment of SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments [records of activities used for assessment to be maintained by the department]
- Written exams will include MCQ's[MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions

- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

The distribution of internal assessment marks shall be as mentioned below:

	DEPARTMENT OF OPHTHALMOLOGY Integrated phase-wise Internal Assessment						
	Phase 3-1						
	THEORY		IA-2	IA-3 Preliminary Exam	Final Total		
Writton	Theory	50	75	75			
Written	MCQ	10	20	20			
	AETCOM*		05	05			
FA	Formative assessment: SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments	05	05	10			
	Logbook	05	05	10			
	Total 70 110 120 300						
FINAL THEORY IA MARKS = 100 (divide final total by 3) * To be included as a question in theory paper							

Ophthalmology has no theory classes in Phase 2

Blue-printing of Internal assessments in Ophthalmology

		Number of	questions	
BLUEPRINT	IA-1	IA -2	Preliminary Exam*	
MCQ (1 mark each)	10	20	20	
Structured Long Essay (10 marks each)	01	02	02	
Short Essay (5 marks each)	04	08	08	
Short Answer (2 marks each)	10	10	10	
Total (in marks)	60	100	100	
* AETCOM should have a weightage of 5 marks				

PRACTICAL INTERNAL ASSESSMENT

- Clinical end posting exams [EOP] will be conducted
- Viva/oral examination should assess approach to clinical context and included in practical IA marks.

Practicals:

	DEPARTMENT OF OPHTHALMOLOGY						
	Integrated phase-wise Internal Assessment						
PRACTICAL Phase 2 Phase 3-1 4wk posting 4wk posting				Final Total			
ЕОР	Clinical skills assessment (OSCE/ Mini-CEX/ Case presentation/ AETCOM)	30	40				
	Viva-voce (may include AETCOM)		10				
Others	Formative assessment (including Clinical-Clerkship)	05	05				
	Logbook/ Record book	05	05				
	Total	40	60	100			

FINAL EOP[#] IA MARKS = 100 (sum of both EOP's)

At least one EOP is to be conducted with OSCE as a part of it.

AETCOM may be included as an OSCE station or as a part of viva-voce during EOP, if it needs to be assessed in practical (Refer competency booklet & AETCOM module)

Preliminary Examinations will include Bedside Clinical Examination which will mirror the Summative University Examinations (Practical)

FINAL PRACTICAL IA MARKS WILL BE AVERAGE OF EOP* AND PRELIMINARY EXAM (EQUAL WEIGHTAGE TO BOTH)

SUMMATIVE ASSESSMENT:

Ophthalmology is learnt and assessed during professional years [PY] 2 and 3 part 1. SA will be held at the end of 3rd professional year part 1.

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) to pass
- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university of that subject.
- Internal assessment will appear as a separate head of passing at summative exams
- A candidate, who has not secured requisite aggregate in the internal assessment has
 to successfully complete the remediation measures prescribed by the University as
 the case may be prior to the declaration of his/her results in that particular phase.
 Candidates who fail to meet prescribed 50% marks in internal assessment after
 availing remedial measures will not be eligible for the university exams.

MARKS DISTRBUTION FOR UNIVERSITY SUMMATIVE EXAMIATION

	THEORY		THEORY Total	PRACTICAL		total
	Written paper	MCQ's		Practical	Viva	
Paper 1	80	20	100	80	20	100
Total marks		100	Total marks		100	

Time: 3 hours for theory paper

The pattern of questions in theory paper shall be as mentioned below:

Type of Question	Number of Questions	Maximum Marks for each question	Total			
Structured Long essay questions (SLEQ)	2	10	20			
Short essay questions (SEQ) (includes case vignette based questions)	8	05	40			
Short answer questions (SAQ)	10	02	20			
Multiple Choice Questions (MCQs)	20	01	20			
Total marks	Total marks					

The question papers shall be based on the blue print of question paper setting.

Blueprint for the theory examinations (For use by the question paper setter)

SI No	Торіс	Total max as per SDMU guideline	MCQs 1 mark each	LEQ 10 marks each	SEQ 5 marks each	SAQ 2 marks each	Total marks from each topic
			20	2	8	10	
1	Refractive errors & Presbyopia, Conjunctiva, Lids & adnexa	20					
2	Cornea & sclera, Optic Nerve, Neuro-ophthal	20					
3	Uvea , Lens	20					
4	Glaucoma, Retina	20					
5	Orbit, Ocular injuries, Community Ophthalmology	10					
6	Basic sciences and Miscellaneous	05					
	AETCOM	05			Case vignette based		
	TOTAL	100					

*Total marks include MCOs.

The weightage of marks allotted for each topic shall be strictly adhered to while setting a question paper. A minimum OF 10% and up to a maximum of 30% marks shall be allocated to assess the higher order thinking of the learner.

The questions framed shall be with appropriate verbs without any ambiguity or overlap.

However a strict division of the subject may not be possible and some overlapping of topics is inevitable. Students should be prepared to answer overlapping topics.

PRACTICAL SUMMATIVE EXAMINTION: TOTAL 100 MARKS

Practical Exercises: 80 MARKS

1 Case 1 - 40 marks

2 Case 2 - 40 marks

Practical Viva Voce: 20 MARKS

The Viva-Voce examination will be conducted by four examiners.

The distribution of marks will be as follows:

1. Theory Viva - 5 Marks

- 2. Drugs 5 Marks
- 3. Trial lenses- 5 Marks
- 4. Ophthalmic instruments- 5 Marks

5. **INTEGRATION**:

- May be conducted in the form of sharing/nesting/correlation using CBL/PBL/ Case study approach and involving various departments concerned while preparing the specific learning objectives of the integration topics.
- Department involved may be chosen according to the topic and may be conducted as Horizontal/ Vertical form of integration as per the CBME document.

		Competency list for int	egration		
SL	Compete ncy No.	Competency to be integrated	nesting/ sharing/ aligning /correlation	Integration with departments	
				Horiz ontal	Vertical
1	AN30.5	Explain effect of pituitary tumours on visual pathway	Nesting		Anatomy
2	AN31.3	Describe anatomical basis of Horner's syndrome	Nesting		Anatomy
3	AN31.5	Explain the anatomical basis of oculomotor, trochlear and abducent nerve palsies along with strabismus	Nesting		Anatomy
4	AN41.1	Describe & demonstrate parts and layers of eyeball	Nesting		Anatomy
5	AN41.2	Describe the anatomical aspects of cataract, glaucoma & central retinal artery occlusion	Nesting		Anatomy
6	AN41.3	Describe the position, nerve supply and actions of intraocular muscles	Nesting		Anatomy
7	PY10.17	Describe and discuss functional anatomy of eye, physiology of image formation, physiology of vision including colour vision, Refractive errors, colour blindness, Physiology of pupil and light reflex	Nesting		Physiology
8	PY10.18	Describe and discuss the physiological basis of lesion in visual pathway	Nesting		Physiology
9	PY10.19	Describe and discuss auditory & visual evoke potentials	Nesting		Physiology

10	PY10.20	Demonstrate testing of visual acuity, colour and field of vision in volunteer/ simulated environment	Nesting		Physiology
11	PA36.1	Describe the etiology, genetics, pathogenesis, pathology, presentation, sequelae and complications of retinoblastoma	Nesting		Pathology
12	PH1.58	Describe drugs used in Ocular disorders	Nesting		Pharmacolo gy
13	IM24.15	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vision and visual loss in the elderly	Nesting		General Medicine
14		Ocular complications of sinusoidal disorders	Sharing	ENT	
15		Approach to a case of Mucormycosis	Sharing	ENT	
16		Dacryocystorhinostomy – External and Endonasal approach	Sharing	ENT	

6. RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND JOURNALS

Text Books

Note: A single textbook may not cover the entire curriculum. Referring to more than one book is recommended.

Recent editions of:

- 1. Parsons JH. Parsons' Diseases of the Eye. 23rd ed. Sihota R, Tandon R, editors. New Delhi: Elsevier India; 2019.
- 2. Khurana AK. Comprehensive Ophthalmology. 7th ed. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd; 2019.

Reference books:

1. Kanski JJ. Kanski's clinical ophthalmology: a systematic approach. 9th ed. Salmon JF, editor. Philadelphia: Elsevier; 2020.

OTORHINOLARYNGOLOGY

1. GOAL

- Thorough understanding of Surgical Anatomy of Ear, Nose, Throat and Head & neck region.
- ii. To Orient students for common ENT Diseases and their management.
- iii. To Orient student for common ENT Surgeries and emergency conditions.
- iv. Identity malignant neoplasms of in Ear, Nose, Throat, Head& neck region.
- v. Ability to recognize hearing impairment and rehabilitation of the same.
- vi. Understanding the importance of both the non-drug and drug treatment, selection of drugs based on suitability, tolerability, efficacy and cost.
- vii. Foresee, prevent and manage adverse drug events and drug interactions.
- viii. Use antimicrobials judiciously for therapy and prophylaxis in ENT diseases.

2. OBJECTIVES

- 2.1 KNOWLEDGE: Anatomy of Ear Nose Throat and Head& Neck region
- 2.2 SKILLS: Clinical Examination and common procedures of ENT
- 2.3 ATTITUDE AND COMMUNICATION SKILLS: At the end of the course the student should be able to communicate with the patient in a respectful non- judgmental and empathetic manner. Identify discuss and define socio economical ethical and medico legal issue pertaining to consent for surgical procedure and confidentiality. Identify discuss physician's role and responsibility to society and community that he or she serves.
- 2.4 INTEGRATION: Integrated teachings of basic sciences in relate to Ear Nose and Throat and students should be able to comprehend, the functions and regulation and integration of functions of organs in related to Ear, Nose and Throat. Students should be able to interpret the anatomical Physiological and pathological basis of disease process.

3. TEACHING HOURS AND COURSE CONTENT

A. Teaching Hours

SI. No	Teaching Learning Method Theory			
1	Large group teaching	25		
2	Small group teaching (SGT): SGD/Tutorials/Seminars	40		
3	Self-directed Learning(SDL)	05		
	TOTAL	70		

SI. No	Teaching Learning Method Practicals		
1	Bedside clinics	4	
	TOTAL		

SI. No	Teaching Learning Method		
1	AETCOM	5	
2	Skill Lab	5	
	TOTAL	10	
		hours	

I. Course Contents

11. THEORY (Large and small group teaching)

SI. no	Com pete ncy No.	Competency Description	Type of T/L Session (Lecture/ SGD/SDL)	LEVEL OF COMPET ENCY with core	SLOs	No. of Hours
1.	1.1	ANATOMY OF NASAL SEPTUM AND ITS BLOOD SUPPLY SURGICAL ANATOMY OF LATERAL WALL OF	LECTURE CLASS		Student should know Anatomy and Physiology of nose Student should know about structure and	1 hours
		MUCOCILIARY CLEARANCE OF NOSE AND FUNCTIONS OF NOSE (PHYSIOLOGY)		Y	functions of nose Student should be able to identity existence of abnormality ,by knowing the normal anatomy and physiology	
2.	4.2	SURGICAL ANATOMY OF EXTERNAL EAR & DISEASES OF EXTERNAL EAR	LECTURE CLASS	K/S SH	Students know about the normal structure of pinna Otitis externa, causes, clinical features and	1 hours
				Y	management Causes of decreased hearing due to	

					pathology in external ear and its management	
3.	4.3	ASOM / AOM CLINICAL FEATURES AND MANAGEMENT	LECTURE CLASS	K/S	Should know etiopathogenes is clinical features and management of acute otitis media and ASOM	1 hours
				SH/ K	Etiopathogenes is	
				Y	Myringotomy procedure. indications and complications	
4.	4.7	SURGICAL ANATOMY OF MIDDLE EAR	LECTURE CLASS	K/S	Types of CSOM and differentiations	1 hours
		CAUSES AND CLINICAL MANIFESTATION OF CSOM		SH	Clinical features and management and complications	
		MANAGEMENT OF CSOM		Y	Ear surgeries, indications- Tympanoplasty cortical mastoidectomy	

E	4.18	CHDCICAL	LECTURE	1/	Anatomy of	1 hours
5.	4.1ŏ	SURGICAL		К	Anatomy of	1 HOURS
		ANATOMY OF	CLASS		facial nerve in	
		FACIAL NERVE		1/11	temporal bone	
		CAUSES OF LMN		KH	Clinical	
		TYPE OF FACIAL			features and	
		NERVE PALSY			management of	
				.,	bell's palsy	
		MANAGEMENT OF		Υ	Causes of facial	
		FACIAL WEAKNESS			palsy	
		AND PROTECTION				
<u> </u>		OF EYE				
6.	4.19	ANATOMY OF	LECTURE	К	Anatomy &	1 hours
		VESTIBULAR	CLASS		physiology of	
		APPARATUS			vestibular	
					system	
		CAUSES OF		KH	Definition &	
		VERTIG0			diagnosis of	
					vertigo cases	
		MANAGEMENT OF		Υ	Clinical	
		VERTIG0			features and	
					management of	
					BPPV	
7.	4.23,	CAUSES OF	LECTURE	K	Types, causes	1 hours
	4.24	DEVIATED NASAL	CLASS		clinical,	
		SEPTUM, DNS			features of DNS	
		CLINICAL		KH	Difference	
		MANIFESTATION OF			between SMR	
		DNS			AND	
					Septoplasty	
		SURGICAL		K/Y	Complications	
		MANAGEMNET OF			of SMR &	
		DNS			Septoplasty	

8.	4.29	SURGICAL	LECTURE	K/S	Causes &	1 hours
	,	ANATOMY OF PNS.	CLASS		management of	
	4.30				acute rhinitis	
		CLINICAL		SH	clinical features	
		MANIFESTATION OF			and	
		SINUSITIS.			management of	
					atrophic rhinitis	
		MANAGEMENT OF		Υ	Etiopathogenes	
		SINUSITIS.			is &	
					Management of	
					acute and	
					chronic sinusitis with	
					complications	
9.	4.3	ANATOMY OF	LECTURE	K/S	Blood supply of	1 hours
J.	7.0	LITTLE'S AREA,	CLASS	10,0	nose	Tilouis
		WOODRUFF PEXUS	02/100			
		CAUSES AND		SH	Causes of	
		MANAGEMENT OF			anterior and	
		EPISTAXIS			posterior	
					epistaxis	
				Υ	Management of	
					epistaxis	
10.	4.34	CLASSIFICATIONS	LECTURE	K	Classifications	1 hours
		OF TUMORS OF	CLASS		of tumors	
		NOSE AND PNS		101	eri d	
		CLINICAL		KH	Etiopathogenes	
		MANIFESTATIONS			is clinical features and	
		INCLUDING ORBITAL				
		INVOLVEMENT.			management of ca Maxilla	
		MANAGEMENT OF		Υ	Should know	
		MALIGNANT		'	about	
		TUMORS OF			adenocarcinom	
		MAXILLA			a & adenoid	
					cystic	
					carcinoma of	

11. 4.14 CAUSES LECTURE CLASS Causes of tinnitus EVALUATION OF HEARING LOSS MANAGEMENT. MANAGEMENT. The state of tinnitus and the state of the s
11. 4.14 CAUSES LECTURE CLASS Causes of tinnitus EVALUATION OF HEARING LOSS MANAGEMENT. The sinuses of the course of tinnitus of tinn
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EVALUATION OF HEARING LOSS MANAGEMENT. MANAGEMENT. Y Diagnosis and clinical features of NIHL 12. 4.10 MYRINGOPLASTY LECTURE K Indications 1 hours
HEARING LOSS MANAGEMENT. MANAGEMENT. MANAGEMENT. Y Diagnosis and clinical features of NIHL 12. 4.10 MYRINGOPLASTY LECTURE K Indications 1 hours
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MANAGEMENT. Y Diagnosis and clinical features of NIHL 12. 4.10 MYRINGOPLASTY LECTURE K Indications 1 hours
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12. 4.10 MYRINGOPLASTY LECTURE K Indications 1 hours
12. 4.10 MYRINGOPLASTY LECTURE K Indications 1 hours
AND CLASS ,procedure &
TYMPANOPLASTY complications
of of
myringoplasty
KH Indications,
types /
procedure of
Tympanoplasty
Y Difference b/w
Myringoplasty
Tympanoplasty
13. 4.11 INDICATIONS AND LECTURE KS Types of 1 hours
STEPS OF CLASS Mastoidectomy
MASTOIDECTOMY KH Indications of
cortical
mastoidectomy
Y Indications of
canal down
mastoidectomy

		FLIQIT COST TOT	LEGTURE	1/2	er u	- 1
14.	4.28	ELICIT CORRECT	LECTURE	KS	Etiopathogenes	1 hours
		HISTORY, CLINICAL	CLASS		is , clinical	
		FEATURES AND			features &	
		MANAGEMENT OF			management of	
		VASO MOTOR AND			vasomotor	
		ALLERGIC RHINITIS			rhinitis	
				SH	Etiopathogenes	
					is clinical	
					features &	
					management of	
					allergic rhinitis	
				Υ	Difference b/w	
					allergic rhinitis	
					and vasomotor	
					rhinitis	
15.	4.24	INDICATIONS &	LECTURE	KS	Indications	1 hours
		STEPS OF	CLASS		,contraindicatio	
		SEPTOPLASTY AND			n, procedure	
		SMR			and	
					complications	
					of SMR	
				K, SH	Indications	
					,contraindicatio	
					n, procedure	
					and	
					complications	
					OF	
					SEPTOPLASTY	
				Υ	Difference b/w	
					Septoplasty	
					and SMR	

16.	4.27	ELICIT CORRECT HISTORY, CLINICAL FEATURES AND MANAGEMENT OF NASAL POLYPOSIS	LECTURE CLASS	KS	Etiopathogenes is clinical features & management of Antrochoanal	1 hours
				SH	polyposis Etiopathogenes is clinical features & management of Ethmoidal polyposis	
				Υ	Difference b/w Ethmoidal & Antrochoanal polyps	
17.	4.45	SURGICAL ANATOMY OF NERVE SUPPLY TO VOCAL CORDS.	LECTURE CLASS	KS	Anatomy vocal cord& recurrent laryngeal nerve	1 hours
		CLASSIFICATION OF VOCAL CORD PALSY		К	Causes of vocal cord paralysis	
		MANAGEMENT OF VOCAL CORD PALSY		Y	Physiology of voice production	
18.	4.37	DESCRIBE CLINICAL FEATURES AND MANAGEMENT OF	LECTURE CLASS	К	Definitions of LUDWIGS ANGINA	1 hours
		LUDWIGS ANGINA		KH	Causes and clinical features	
				Υ	Management of LUDWIGS ANGINA	

10		INIDIOATIONO AND	LEGTURE	1,	1 12	- 1
19.	4.4	INDICATIONS AND	LECTURE	K	Indications,	1 hours
		SURGICAL STEPS	CLASS		contraindicatio	
		OF TONSILECTOMY			n &	
		/ ADENOIDECTOMY			complications	
					of	
					Adenoidectomy	
				K	Indications,	
					contraindicatio	
					n &	
					complications	
					of	
					Tonsillectomy	
				Υ	Different	
					methods used	
					for	
					tonsillectomy	
					and	
					adenoidectomy	
20.	4.43	SURGICAL	LECTURE		Causes,	1 hours
		ANATOMY OF	CLASS		clinical features	
		LARYNX			and treatment	
					of acute	
					laryngitis/	
					croup,	
					epiglottitis	
		CLINICAL			causes , clinical	
		FEATURES AND			features and	
		MANAGEMENT OF			treatment of	
		LARYNGITIS			chronic	
					laryngitis	
				Υ	Tuberculosis of	
				-	larynx	
L	l				iai jiik	

21.	4.44	DIAGNOSIS AND	LECTURE	К	Vocal nodules -	1 hours
		MANAGEMENT OF	CLASS		causes and	
		BENIGN LESIONS			management	
		OF V.C		KH	Vocal polyp –	
					causes and	
					management	
				Υ	Congenital	
					lesions of vocal	
					cord	
22.	4.47	DESCRIBE CAUSES	LECTURE	К	Definitions of	1 hours
		OF AND	CLASS		stridor and	
		MANAGEMENT OF	02.100		types &	
		STRIDOR IN		KH	Causes of	
		CHILDREN			Stridor	
				Υ	Management of	
					stridor –	
					Medical and	
					surgical	
23.	4.50	INDICATIONS AND	LECTURE	SH	Definition and	1 hours
	,	COMPLICATION OF	CLASS		types	
	4.51	TRACHEOSTOMYAN			TRACHEOSTOM	
		D POST OPERATIVE			Υ	
		CARE		KH	Indications,	
					procedure and	
					complications	
				Υ	Post	
					Tracheostomy	
24.	3.2	DIACNOSTIC MACAL	LECTURE	SH	Care DNE- Passes of	1 hours
Z4.	J.Z	DIAGNOSTIC NASAL ENDOSCOPY	LECTURE CLASS	ъп	endoscopy	i ilouis
		LINDUGGOFT	ULAGG		епиозсору	
				KH	Indications of	
					FESS	
				N	Complications	
					of FESS	

25.	2.13	IDENTIFY,	LECTURE	K/S/A	Foreign body	1 hours
		RESUSCITATE AND	CLASS		Aerodigestive	
		MANAGE ENT			tract & its	
		EMERGENCY			management	
		CONDITIONS		SH	Stridor & its	
					management	
				Υ	Acute invasive	
					fungal sinusitis	

SI. No.	Topic/ System	Core (Y/N)	Compet ency Number	Small group teaching	No. of Hours 40 HOURS
1.	Describe the clinical features, investigations and principles of management of Otosclerosis	Υ	EN4.13	Small group teaching	2 hours
2.	Describe the clinical features, investigations and principles of management of Tinnitus	Υ	EN4.21	Small group teaching	2 hours
3.	Enumerate the indications observe and describe the steps in a septoplasty	Υ	EN4.24	Small group teaching	2 hours
4.	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Adenoids	Υ	EN4.26	Small group teaching	2 hours
5.	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of	Υ	EN4.28	Small group teaching	2 hours

			Ι	1	T
	management of squamosal				
	type of Vasomotor Rhinitis				
	December the distribution				
6.	Describe the clinical features, investigations and	N	EN4.31	Small group	2 hours
	principles of			teaching	
	management of trauma to the				
	face & neck				
7.	Describe the clinical	N	EN4.36	Small group	2 hours
	features, investigations and principles of			teaching	
	management of diseases of				
	the Salivary glands				
8.	Describe the clinical	Υ	EN4.37	Small group	2 hours
	features, investigations and principles of			teaching	
	management of Ludwig's			l	
	angina				
9.	Describe the clinical	Υ	EN4.41	Cmall group	2 hours
9.	features, investigations and	ľ	CIN4.41	Small group	ZIIOUIS
	principles of			teaching	
	management of Acute &				
	chronic abscesses in relation				
	to Pharynx		=>> 4.0		
10.	Elicit, document and present a correct history, demonstrate and	Υ	EN4.42	Small group	2 hours
				teaching	
	describe the clinical features,				
	choose the correct				
	investigations and describe				
	the principles of management				
	of hoarseness of voice				
11.	Describe the clinical features, investigations and	Υ	EN4.44	Small group	2 hours
	principles of			teaching	
	management of Benign lesions				
	of the vocal cord				
12.	Describe the clinical	Υ	EN4.47	Small group	2 hours
	features, investigations and principles of			teaching	
	management of Stridor				
	g	ı	l .	1	

13.	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Airway Emergencies	Υ	EN4.48	Small group teaching	2 hours
14.	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of foreign bodies in the air & food passages	Y	EN4.49	Small group teaching	2 hours
15.	Observe and describe the indications for and steps involved in tracheostomy	Υ	EN4.50	Small group teaching	2 hours
16.	Describe the Clinical features, Investigations and principles of management of diseases of Oesophagus	N	EN4.52	Small group teaching	2 hours
17.	Describe the clinical features, investigations and principles of management of HIV manifestations of the ENT	N	EN4.53	Small group teaching	2 hours
18.	Describe the components and functions of waldeyer's lymphatic ring	Υ	AN36.2	Small group teaching	2 hours
19.	Describe and discuss perception of smell and taste sensation	Υ	PY10.13	Small group teaching	2 hours
20.	Describe and discuss functional anatomy of ear and auditory pathways & physiology of hearing	Υ	PY10.15	Small group teaching	2 hours

SI. No.	Topic/ System : (With Competency Number)	Core	Self Directed Learning	No. of Hours
1.	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Otalgia (EN 4.1)		SDL	1 hour
2.	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of diseases of the external Ear (EN 4.2)		SDL	1 hour
3.	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of ASOM (EN 4.3)		SDL	1 hour
4.	Demonstrate the correct technique to hold visualize and assess the mobility of the tympanic membrane and its mobility and interpret and diagrammatically represent the findings (EN 4.4)		SDL	1 hour
5.			SDL	1 hour

12. PRACTICALS

d) Bedside Clinics:

Sl. No.	Topic/ System : (With Competency Number) core/ non- core competency	Bedside Clinics/DOAP	No. of Hours
1.	Demonstrate the correct use of a headlamp in the examination of the ear, nose and throat (EN 2.2)	DOAP	2hours
2.	Demonstrate the correct use of a headlamp in the examination of the ear, nose and throat (EN 2.2)	DOAP	2hours
3.	Demonstrate the correct technique of performance and interpret tuning fork tests (EN 2.4)	DOAP	2hours
4.	Demonstrate the correct technique for syringing wax from the ear in a simulated environment (EN4.9)	DOAP	2hours
5.	Observe and describe the indications for and steps involved myringotomy and myringoplasty (EN 4.10)	DOAP	2hours
6.	Demonstrate the correct technique of examination of the nose & Paranasal sinuses including the use of nasal speculum(EN2.5	DOAP	2hours
7.	Enumerate the indications observe and describe the steps in a Septoplasty(EN4.24)	DOAP	2hours

8.	Observe and describe the indications for and steps involved in a tonsillectomy / adenoidectomy (EN4.40)	DOAP	2hours
9.	Observe and describe the	DOAP	2hours
	indications for and steps involved		
	in Tracheostomy (EN4.50)		
10.	Observe and describe the care of	DOAP	2hours
	the patient with a tracheostomy		
	(EN4.51)		

e) Skill Lab:

S.No	Skill	T-L Method	Assessme nt & Grading	Number of batches[num ber of students per batch]
1.	Aural Syringing (Student should be able to perform the skill under supervision and remove wax/ Foreign body from external auditory canal.)			4 -6 students in each batch
2.	Using of Thudicum Nasal Speculum (Should use the instrument and demonstrate its use in anterior rhinoscopy.)			4 -6 students in each batch
3.	Examination of PNS (Should demonstrate different sites for sinus tenderness)			4 -6 students in each batch
4.	Usage of bull's eye lamp in ENT examination (Should demonstrate the correct			4 -6 students in each

	method of using bull's eye lamp for ENT examination.)	batch
5.	Diagnostic Nasal Endoscopy (Should know its uses and advantages.)	4 -6 students in each batch
6.	Palpation of neck (Should be able to correctly demonstrate palpation of neck and able to tell findings.)	4 -6 students in each batch
7.	Otoscopy (To visualize and identify different structures of normal and diseased tympanic membrane)	4 -6 students in each batch
8.	Tuning Fork Tests (Student should know to differentiate between different types of hearing loss, based on turning fork test.)	4 -6 students in each batch
9.	Dix hallpike's maneuver (Student should be able to perform the test and interpret its results)	4 -6 students in each batch
10.	Anterior Nasal Packing (Student is expected to learn this skill, they should demonstrate the method)	4 -6 students in each batch

f) Certifiable Skills:

Comp no.		No. required to certify	Duration hours	Number of batches[number of students per batch]
1.	Using of Thudicum Nasal Speculum (Should use the		1 hour	4 -6 students in each batch
	instrument and demonstrate its use in anterior rhinoscopy.)			

2.	Usage of bull's eye lamp in ENT examination (Should demonstrate the correct method of using bull's eye lamp for ENT examination)		4 -6 students in each batch
3.	Diagnostic Nasal Endoscopy (Should know its uses and advantages.)		4 -6 students in each batch
4.	Otoscopy (To visualize and identify different structures of normal and diseased tympanic membrane.)		4 -6 students in each batch
5.	Dix hallpike's maneuver (Student should be able to perform the test and interpret its results)		4 -6 students in each batch

13. AETCOM AND SKILL LAB

SI. No.	Module Number	AETCOM/Skill Lab	Lectures	Small group	No. of Hours
		AETCOM			5
		Skill Lab			5
		Total			10

SL	NO	COMPET	COMPETENCY DESCRIPTION	SUGGESTED	LEVEL	ASSESSMENT	SIGNATURE
		ENCY		TEACHING	K/KH/	METHOD	OF THE
		NO		LEARNING	SH/P		STAFF &
				METHOD			DATE
	1.	EN4.39	Elicit document and present a	SGD	SH	Demonstration	
			correct history, demonstrate	DOAP		on Patient	
			and describe the clinical				
			features, choose the correct				
			investigations and describe				
			the principles of				

2.	EN4.22	management of Acute & Chronic Tonsillitis Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management	SGD DOAP	SH	Demonstration on Patient
3.	EN4.26	of Nasal Obstruction Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Adenoids	SGD DOAP	SH	Demonstration on Patient
4.	EN4.33	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Acute & Chronic Sinusitis	SGD DOAP	SH	Demonstration on Patient
5.	EN4.7	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of CSOM.	SGD DOAP	SH	Demonstration on Patient
6.	EN4.8	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe	SGD DOAP	SH	Demonstration on Patient

		the principles of management of squamosal type of CSOM			
7.		Demonstrate the correct technique for syringing wax from the ear in a simulated environment	SGD DOAP	SH	On Mannequin
8.	PY10.16	Describe and discuss pathophysiology of deafness. Describe hearing tests (Tuning Fork Tests)	SGD DOAP	КН	Demonstration on Patient
9		Perform otoscopic examination of the ear	SGD DOAP	SH	Demonstration on Patient
10	_	Perform throat examination using tongue depressor	SGD DOAP	SH	Demonstration on Patient
11		Perform examination of the nose	SGD DOAP	Р	Demonstration on Patient

NOTE: The above table containing teaching hours assigned to different topics under large and small group teaching may be used as a guide by the Institute.

6. SCHEME OF EXAMINATION:

Eligibility criteria:

- Learners must secure at least 50% marks of total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the University examination.
- Student should get a minimum of 75% attendance in Theory and 80 % in Practical classes to be eligible to appear for university examination.
- Learners must have completed the required certifiable competencies and completed the log book.

FORMATIVE ASSESSMENT THEORY INTERNAL ASSESSMENT:

- A minimum of 2 Internal Assessments (IAs) to be conducted
- One of the internal exams will be conducted like preliminary exams
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given a chance of remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Formative assessment: based on day to day assessment of SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments [records of activities used for assessment to be maintained by the department]
- Written exams will include MCQ's[MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

The distribution of internal assessment marks shall be as mentioned below:

DEPARTMENT OF ENT Integrated phase-wise Internal Assessment					
			Phase 3-	1	
THEORY		IA-1	IA-2	IA-3 Preliminary Exam	Final Total
\\/.:	Theory	50	75	75	
Written	MCQ	10	20	20	
	AETCOM*		05	05	
FA	Formative assessment: SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments	05	05	10	
	Logbook	05	05	10	
Total 70 110 120 300					300
FINAL THEORY IA MARKS = 100 (divide final total by 3)					

^{*} To be included as a question in theory paper ENT has no theory classes in Phase 2

Blue-printing of Internal assessments in ENT

		Number of	questions	
BLUEPRINT	IA-1	IA -2	IA-2 Preliminary Exam*	
MCQ (1 mark each)	10	20	20	
Structured Long Essay (10 marks each)	01	02	02	
Short Essay (5 marks each)	04	08	08	
Short Answer (2 marks each)	10	10	10	
Total (in marks)	60	100	100	
* AETCOM should have a weightage of 5 marks				

PRACTICAL INTERNAL ASSESSMENT

- Clinical end posting exams [EOP] will be conducted
- Viva/oral examination should assess approach to clinical context and included in practical IA marks.

Practicals:

	DEPARTMENT OF ENT						
	Integrated phase-	wise Internal Asse	ssment				
	PRACTICAL	Phase 2	Phase 3-1	Final			
PRACTICAL		4wk posting	4wk posting	Total			
	Clinical skills assessment						
	(OSCE/ Mini-CEX/ Case	30	40				
EOP	presentation/ AETCOM)						
	Viva-voce (may include		10				
	AETCOM)		10				

Others	Formative assessment (including Clinical- Clerkship)	05	05	
	Logbook/ Record book	05	05	
Total		40	60	100

FINAL EOP[#] IA MARKS = 100 (sum of both EOP's)

At least one EOP is to be conducted with OSCE as a part of it.

AETCOM may be included as an OSCE station or as a part of viva-voce during EOP, if it needs to be assessed in practical (Refer competency booklet & AETCOM module)

Preliminary Examinations will include Bedside Clinical Examination which will mirror the Summative University Examinations (Practical)

FINAL PRACTICAL IA MARKS WILL BE AVERAGE OF EOP* AND PRELIMINARY EXAM (EQUAL WEIGHTAGE TO BOTH)

B. SUMMATIVE ASSESSMENT:

Otorhinolaryngology is learnt and assessed during professional years [PY] 2 and 3 part 1. SA will be held at the end of 3rd professional year part 1.

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) to pass
- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university of that subject.
- Internal assessment will appear as a separate head of passing at summative exams
- A candidate, who has not secured requisite aggregate in the internal assessment has
 to successfully complete the remediation measures prescribed by the University as
 the case may be prior to the declaration of his/her results in that particular phase.
 Candidates who fail to meet prescribed 50% marks in internal assessment after
 availing remedial measures will not be eligible for the university exams.

MARKS DISTRBUTION FOR UNIVERSITY SUMMATIVE EXAMIATION

THEORY		THEORY TOTAL	PRACTI	CAL	total	
	Written paper	MCQ's		Practical	Viva	
Paper 1	80	20	100	80	20	100
Total marks			100	Total m	arks	100

Time: 3 hours for theory paper

The pattern of questions in theory paper shall be as mentioned below:

Type of Question	Number of Questions	Maximum Marks for each question	Total
Structured Long essay questions (SLEQ)	2	10	20
Short essay questions (SEQ) (includes case vignette based questions)	8	05	40
Short answer questions (SAQ)	10	02	20
Multiple Choice Questions (MCQs)	20	01	20
Total marks			100

The question papers shall be based on the blue print of question paper setting.

Blueprint for the theory examinations (For use by the question paper setter)

PAPER TOPICS	Weightage of marks as per SDMU guidelines Paper 1	Weightage of marks as per SDMU guidelines Paper 2	MCQs 1 mark each	SLEQs 10 marks each	SEQs 5 marks each	SAQs 2 marks each	Total Marks*
MCQs	20	20					
AETCOM	SEQ	SEQ					
	Case	Case					
	vignette	vignette					
	based	based					
	05	05					
TOTAL	100	100					

The weightage of marks allotted for each topic shall be strictly adhered to while setting a question paper. A minimum OF 10% and up to a maximum of 30% marks shall be allocated to assess the higher order thinking of the learner.

The questions framed shall be with appropriate verbs without any ambiguity or overlap.

However a strict division of the subject may not be possible and some overlapping of topics is inevitable. Students should be prepared to answer overlapping topics.

PRACTICAL SUMMATIVE EXAMINTION: TOTAL 100 MARKS

Practical Exercises: 80 MARKS

A. Case: 1 : 40 Marks
Case: 2 : 40 Marks
B. Practical Viva Voce : 20 MARKS
Total : 100 MARKS

^{*}Total marks include MCOs.

7. **INTEGRATION:**

- May be conducted in the form of sharing/nesting/correlation using CBL/PBL/ Case study approach and involving various departments concerned while preparing the specific learning objectives of the integration topics.
- Department involved may be chosen according to the topic and may be conducted as Horizontal/ Vertical form of integration as per the CBME document.

	Competency list for integration						
SL	Comp	Competency to	nesting/ sharing/	Integrating departmen			
	No.	be integrated	aligning /correlation	Horizontal	Vertical		
1							
2							
3							

Sl.no	Comp etenc y No.	Competency Description	Type of T/L Session (Lecture/ SGD/SDL)	INTEGRA TION WITH DEPARTM ENT	SLOs
1.	1.1	ANATOMY OF NASAL SEPTUM AND ITS BLOOD SUPPLY SURGICAL ANATOMY OF LATERAL WALL OF NOSE MUCOCILIARY CLEARANCE OF NOSE AND FUNCTIONS OF NOSE (PHYSIOLOGY)	LECTURE CLASS	PHYSIOL OGY	Student should know Anatomy and Physiology of nose Student should know about structure and functions of nose Student should be able to identity existence of abnormality ,by knowing the normal anatomy and physiology

		1	T	Т	,
2.	4.18	SURGICAL	LECTURE	OPHTHAL	Anatomy of facial nerve
		ANATOMY OF	CLASS	MOLOGY	in temporal bone
		FACIAL NERVE			
		CAUSES OF			Clinical features and
		LMN TYPE OF			management of bell's
		FACIAL NERVE			palsy
		PALSY			
		MANAGEMENT			Causes f facial palsy
		OF FACIAL			
		WEAKNESS			
		AND			
		PROTECTION			
		OF EYE			
3.	4.3	ANATOMY OF	LECTURE	MEDICINE	Blood supply of nose
		LITTLE'S AREA,	CLASS		
		WOODRUFF			
		PEXUS			
		CAUSES AND			Causes of anterior and
		MANAGEMENT			posterior epistaxis
		OF EPISTAXIS			
					Management of
					epistaxis
4.	4.34	CLASSIFICATIO	LECTURE	OPHTHAL	Classifications of
		NS OF TUMORS	CLASS	MOLOGY	tumors
		OF NOSE AND			
		PNS			
		CLINICAL			Etiopathogenesis
		MANIFESTATIO			clinical features and
		NS INCLUDING			management of Ca
		ORBITAL			Maxilla
		INVOLVEMENT.			
		MANAGEMENT			Should know about
		OF MALIGNANT			adenocarcinoma &
		TUMORS OF			adenoid cystic
		MAXILLA			carcinoma of nose and
					paranasal sinuses
					paranasai sinuscs

					Indications,
					contraindication &
					complications of
					Tonsillectomy
					Different methods used
					for tonsillectomy and
	4 47	DECODIDE	LEOTUDE	DAFDIAT	adenoidectomy Definitions of stridor
5.	4.47	DESCRIBE	LECTURE	PAEDIAT	
		CAUSES OF	CLASS	RIC	and types &
		AND			Causes of Stridor
		MANAGEMENT			Management of stridor
		OF STRIDOR IN			-Medical and surgical
		CHILDREN			
6.	4.50,	INDICATIONS	LECTURE	SURGERY	Definition and types
	4.51	AND	CLASS		TRACHEOSTOMY
		COMPLICATION			Indications, procedure
		0F			and complications
		TRACHEOSTOM			Post Tracheostomy Care
		YAND POST			
		OPERATIVE			
		CARE			
7.	2.13	IDENTIFY,	LECTURE		Foreign body
		RESUSCITATE	CLASS		Aerodigestive tract & its
		AND MANAGE			management
		ENT			Stridor & its
		EMERGENCY			management
		CONDITIONS			Acute invasive fungal
				OPHTHAL	sinusitis
				MOLOGY	

4. RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS

Text Books:

1. Logan Turner's Diseases of the Nose, Throat and Ear, Head and Neck Surgery *Edited BySMusheerHussain*, Edition11th Edition, ImprintCRC Press.

- 2. Mohan Bansal- Essential of Ear Nose & Throat 1stedition ,Publishers- JayPee Brothers Medical Publications.
- 3. Prof.K K Ramalingam A short Practice of Otorhinolaryngology 4th edition, All India publishers and distributers
- 4. P.L Dhingra- Diseases of Ear ,Nose ,Throat and Head& Neck Surgery 6th Edition Published by Elsevier, a Division of Reed Elsevier India Private Ltd.
- 5. K BBhargava A Short book of ENT Diseases 11th edition ,Publishers: Usha Publication
- 6. Md. Maqbool Text book of Ear Noseand Throat diseases- 12th edition ,Publishers:JayPee Brothers Medical Publications
- 7. Hazarika P Text book of Ear, NoseThroat and Head& Neck surgery clinical 4th edition, Publisher: C B S Publishers

Reference books:

- 1. John c *Watkinson* Scott –Brown's: Otorhinolaryngology & Head and Neck Surgery 8th edition CRP Press, 3 Volume set
- 2. Flint, Cummings, Otorhinolaryngology & Head and Neck Surgery 6th Edition , 3 Volume set Elsevier Publication

Journals:

- Indian journal of Otolaryngology and Head & Neck Surgery.
- Journal of Laryngology & Otology
- Laryngoscope

Atlas books:

- Color Atlas On Temporal Bone Dissection: 1st Edition by Honnurappa, Jaypee Brothers Medical Publishers
 - Colour Atlas of Ear Disease: 2nd Edition by Richard A Chole ,JamesW.Forsen

END

OBSTETRICS & GYNAECOLOGY

1. GOALS:

- To groom a professional doctor who is ethically guided, clinically sound, skilful, empathetic, oriented towards the needs of the community, an inspiring leader and a good communicator.
- To stimulate the interest of the learner towards Obstetrics and Gynaecology and make him/her understands the concepts as well as be able to apply them in clinical setting.
- To hone the skills of the learner so as to gradually upgrade the knowledge of science into the fine art of surgery.

2. OBJECTIVES

a. Knowledge:

- Understanding of the physiology of pregnancy, principles of diagnosis and management of Obstetric complications.
- Ability to choose, calculate and administer appropriately intravenous fluids, common drugs in pregnancy and labour, blood and blood products based on the clinical condition.
- Ability to apply the principles of asepsis, sterilization, disinfection, rational use of prophylaxis, therapeutic utilities of antibiotics and universal precautions in surgical practice,
- Ability to recognize, resuscitate, stabilize and provide Basic & Advanced Life Support to patients following Obstetric emergencies.
- Ability to administer informed consent and counsel patient prior to surgical procedures in Obstetrics and Gynaecology, and to patients in Obstetric shock.
- Commitment to advancement of quality and patient safety in surgical practice.

b. Skill:

- Ability to obtain a thorough history from the patient,
- To perform a complete general physical examination of the patient,
- To perform obstetric examination in a pregnant woman and gynaecological examination in a non-pregnant woman.
- Ability to write a detailed and accurate case sheet (Case record).

c. Integration:

 To deliver teaching that is aligned and integrated horizontally and vertically in order to provide a sound biologic basis and a holistic approach to the care of the pregnant and non-pregnant women.

3. TEACHING HOURS AND COURSE CONTENT

II. Teaching Hours

SI. No	Teaching Learning Method Theory			
1	Large group teaching	25		
2	Small group teaching (SGT): SGD/Tutorials/Seminars	35		
3	Self-directed Learning(SDL)	05		
	TOTAL	65		

SI. No	Teaching Learning Method Practicals	No. of weeks
1	Bedside clinics	4
	TOTA	AL

SI. No	Teaching Learning Method	No. of Hours
1	AETCOM	
2	Skill Lab	
	TOTAL	

III. Course Contents

14. THEORY (Large and small group teaching)

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Lecture (Large group)	No. of Hours
1.	OG 1.1 & 1.2 Demographic and vital		1 hour
	statistics birth rate, Maternal mortality		
	and morbidity		
	Define and discuss perinatal mortality and		
	morbidity including perinatal and neonatal		
	mortality and morbidity audit		
3.	OG 8.7 Enumerate the indications for and		1
	types of vaccination in pregnancy		hour
4.	OG 8.8 Enumerate the indications and		1
	describe the investigations including the		Hour
	use of ultrasound in the initial assessment		
	and monitoring in pregnancy.		
	5.		
	OG 10.1 Define, classify and describe the		
	etiology, pathogenesis, clinical features,		
	ultrasonography, differential diagnosis and management of antepartum hemorrhage.		
	1 hour		
	1 Hour		
6.	OG 13.2 Define; describe the causes,		1
	pathophysiology, diagnosis, investigations		hour
	and management of preterm labor, PROM		
	and postdated pregnancy.		
		L	<u> </u>

7.	OG 15.1 Enumerate and describe the indications and steps of common obstetric procedures, technique and complication; episiotomy, vacuum extraction,: low forceps, caesarean section, assisted breech delivery, external cephalic version, cervical cerclage.	3 hours
8.	OG.18.3 Describe and discuss the diagnosis of birth asphyxia	1 hour
9.	OG 19.1 Describe and discuss the physiology of puerperium, its complications, diagnosis and management, counseling for contraception, puerperal sterilization	1 hour
10.	OG 20.1 Enumerate the indications and describe and discuss the legal aspects, indications, methods for first and second trimester MTP, complications and management of complications of Medical termination of pregnancy.	2 hours
11.	OG 21.1& 21.2 Describe and discuss the temporary and permanent methods of contraception, indications, techniques and complications; selection of patients, side effects and failure rate including OC pills, male contraception, Emergency contraception and IUCD. Enumerate the indications of PPIUCD.	3 hours

12.	OG 24.1 Define, classify and discuss abnormal uterine bleeding, its etiology, clinical features, investigations, diagnosis and management.	1 hour
13.	OG 25.1 Describe and discuss the causes of primary and secondary amenorrhea, its investigations and principles of management.	1 hour
14.	OG.26.2 Describe the causes, prevention, clinical features, principles of management of genital injuries and fistulae.	1 hour
15.	OG 27.4 Describe and discuss the etiology, pathology, clinical features, differential diagnosis, Investigations, management and long term implications of pelvic inflammatory disease.	1 hour
16.	OG 29.1 Describe and discuss the etiology, pathology clinical features; complications of fibroid uterus.	1 hour
17.	OG 30.1 Describe and discuss the etiopathogenesis, clinical features of PCOS.	1 hour
18.	OG 31.1 Describe and discuss the etiology, classification and clinical diagnosis of prolapse uterus	1 hour

19.	OG 33.1 Classify, describe, and discuss etiology, pathology, clinical features, staging of carcinoma cervix.	1 hour
20.	OG 34.1 Describe and discuss etiology, pathology, staging clinical features, differential diagnosis investigations, staging laparotomy and principles of management of endometrial cancer.	1 hours
21.	OG 34.2 Describe and discuss the etiology, pathology, classification, staging and clinical features of ovarian cancer.	1 hours

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Small group teaching	No. of Hours
1.	OG 9.3 Discuss the etiology, clinical features, differential diagnosis of acute abdomen in early pregnancy (with a focus on ectopic pregnancy) and enumerate the principles of medical and surgical management.		1 hour
2.	OG 9.4 Clinical features, laboratory investigations, ultrasonography, differential diagnosis, principles of management and follow up of gestational trophoblastic neoplasms		1 hour

3.	OG 10.2 & 16.1 Enumerate the indications	1 hour
	and describe the appropriate use of blood	
	and blood products, use in postpartum	
	hemorrhage, their complications and	
	management.	
	ASSESSMENT- MCQ	1 hour
4.	OG 12.7 Describe and discuss screening, risk	1 hour
	factors, management of mother and newborn	
	with HIV.	
5.	OG 13.1 Enumerate and discuss the	1 hour
	physiology of normal labor, mechanism of	
	labor in occiput anterior presentation,	
	monitoring of labor including partogram,	
	conduct of labor, pain relief, and principles of	
	Induction and acceleration of labor,	
	management of third stage of labor.	
6.	OG 14.2 Discuss the mechanism of normal	1 hour
	labor. Define and describe obstructed labor,	
	its clinical features; prevention and	
	management.	
7.	OG 14.4 Describe and discuss the	1 hour
	classification, diagnosis and management of abnormal labor.	
	ASSESSMENT- MCQ	1 hour
8.	OG 17.2 Counsel in a simulated environment	1 hour
	care of breast , importance & technique of	
	breast feeding	

9.	OG 22.2 Describe and discuss the etiology with special emphasis on candida, T vaginitis, bacterial vaginosis and syndromic management.	1 hour
	ASSESSMENT-MCQ	1 hour
10.	OG 28.1 Describe and discuss the common causes, pathogenesis, clinical features, differential diagnosis, Investigations, principles of management of infertility and methods of tubal patency.	1 hour
11.	OG 33.3 Describe and demonstrate the screening for cervical cancer in simulated environment.	1 hour
12.	OG 33.4 Enumerate methods of prevention of cancer of cervix including VIA, VILLI, colposcopy.	1 hour
	ASSESSMENT-MCQ	1 hour
13.	OG 34.4 Operative Gynecology: Understand and describe the technique and complications: Dilatation & Curettage (D &C) EA- ECC: Cervical biopsy: Abdominal hysterectomy: myomectomy: surgery for ovarian tumors; staging laparotomy; hysteroscopy; management of postoperative complications.	2 hours
14.	OG 13.4 Demonstrate the stages of normal labor in simulated environment/ manikin	1 hour

15.	OG 13.5 Observe and assist the conduct of a normal vaginal delivery	1 hour
16.	OG 12.1 Define, classify and describe the etiology and pathophysiology, early detection, investigations, principles of management of hypertensive disorders of pregnancy and eclampsia, complications of eclampsia.	1 hour
	ASSESSMENT=MCQ	1 hour
17.	OG 40.1 Describe etiology, diagnosis and management of fever in pregnancy and its impact on pregnancy (DENGUE, MALARIA, and COVID-19).	2 hours
	ASSESSMENT-MCQ	1 hour

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Self-Directed Learning	No. of Hours
1.	Classify, define and discuss the etiology and		1 hour
OG	management of abortions including		
9.1	threatened, incomplete, inevitable, missed and		
	septic abortions		
2.	Discuss the indications of MTP and the MTP		1 hour
OG	act and methods of MTP.		
20.1			
3.	Discuss the methods to prevent cancer cervix		1 hour
OG	including primary and secondary prevention.		
33.4			
4.	Describe and discuss the etiology with special		1 hour
OG	emphasis on candida, T vaginitis, bacterial		

22.2	vaginosis and syndromic management.	
5. OG 21.1	Describe and discuss the temporary and permanent methods of contraception, indications techniques and complications; selection of patients, side effects and failure rate including OC pills, male contraception, Emergency contraception and IUCD.	1 hour

15. PRACTICALS g) Bedside Clinics:

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Bedside Clinics/DOAP	No. of Hours
1	OG 10.1 Define, classify & describe the etiology, pathogenesis, clinical features, ultrasonography, differential diagnosis and management of antepartum hemorrhage	wards	3 hours
2.	OG 10.2 Define, classify and describe the etiology and pathophysiology, early detection, investigations, principles of management of hypertensive disorders of pregnancy and eclampsia, complications of eclampsia	wards	3 hours
3.	OG 17.2 Counsel in a simulated environment care of breast , importance & technique of breast feeding	wards	1 hour
4.	OG 19.1 Describe and discuss the physiology of puerperium, its complications, , counseling	wards	1 hour

	for contraception, puerperal sterilization		
5.	OG 24.1 Define, classify and discuss abnormal uterine bleeding, its etiology, clinical features, investigations, diagnosis and management	wards	3 hours
6.	OG 28.1 Describe and discuss the common causes, pathogenesis, clinical features, differential diagnosis, Investigations, principles of management of infertility methods of tubal patency, ovulation induction, assisted reproductive techniques.	wards	3 hours
7.	OG 29.1 Describe and discuss the etiology, clinical features; complications of fibroid uterus	wards	3 hours
8.	OG 31.1 Describe and discuss the etiology, classification, clinical diagnosis, investigations, principles of management and preventive aspects of prolapse of uterus	wards	3 hours
9.	OG 34.1 Describe and discuss etiology, pathology, staging clinical features, differential diagnosis investigations, staging laparotomy and principles of management of endometrial cancer	wards	3 hours
10.	OG 34.2 Describe and discuss the etiology, pathology, classification, staging of ovarian cancer, clinical features, differential diagnosis,	wards	3 hours

	investigations, principal of management including staging laparotomy.		
11.	OG 35.2 Arrive at a logical provisional diagnosis after examination	wards	3 hours
12.	OG 8.4 Describe and demonstrate clinical monitoring of fetal and maternal well-being	Labor room	1 hour
13.	OG 10.2 Enumerate the indications and describe the appropriate use of blood and blood products, their complications and management. Uses in PPH.	Labor room	1 hour
14.	OG 13.1 Enumerate and discuss the physiology of normal labor, mechanism of labor in occiput anterior presentation, monitoring of labor including partogram, conduct of labor, pain relief, principles of Induction and acceleration of labor, management of third stage of labor	Labor room	2 hours
15.	OG 13.2 Define, Describe the causes, diagnosis, investigations and management of preterm labor, PROM and postdated pregnancy	Labor room	1 hour
16.	OG 14.2 Discuss the mechanism of normal labor. Define and describe obstructed labor, its clinical features; prevention and management.	Labor room	2 hours
17.	OG 14.4 Describe and discuss the classification, diagnosis and management of abnormal labor	Labor room	1 hour

18.	OG 18.3 Describe and discuss the diagnosis of birth asphyxia	Labor room	1 hour
19.	OG 20.1 Enumerate the indications and describe and discuss the legal aspects, indications, methods for first and second trimester MTP, complications and management of complications of medical termination of pregnancy.	Labor room	1 hour
20.	OG 19.4 Enumerate the indications for ,Describe the steps in insertion and removal of an intrauterine device in simulated environment	OPD	2 hours
21.	OG 8.8 Enumerate the indications and describe the investigations including the use of ultrasound in the initial assessment and monitoring in pregnancy.	OPD	1 hour
22.	OG 21.1 Describe and discuss the temporary and permanent methods of contraception, indications techniques and complications; selection of patients, side effects and failure rate including OC pills, male contraception, Emergency contraception and IUCD.	OPD	2 hours
23.	OG 22.2 Describe and discuss the etiology with special emphasis on candida, T vaginalis, bacterial vaginosis and syndromic management.	OPD	1 hour

24.	OG 15.1 Enumerate and describe the indications and steps of common obstetric procedures, technique and complication; episiotomy, vacuum extraction,: low forceps, caesarean section, assisted breech delivery, external cephalic version, cervical cerclage.	Operative theatre	3 hours
25.	OG 18.3 Describe and discuss the diagnosis of birth asphyxia	Operative theatre	1 hour
26.	OG 21.2 Describe and discuss PPIUCD programme.	Operative theatre	1 hour
27.	OG 34.4 Operative Gynecology: Understand and describe the technique and complications: Dilatation & Curettage (D &C) EA- ECC: Cervical biopsy: Abdominal hysterectomy: myomectomy: surgery for ovarian tumors; staging laparotomy; hysteroscopy; management of postoperative complications.	Operative theatre	3 hours
28.	OG 19.3 Observe and Assist in performance of tubal ligation	Operative theatre	1 hour

h) Skill Lab:

Comp no.	Description [P]		Hours	Number of batches[number of students per batch]
OG 35.3	Recognize situations, which	nil	1 hour	7 to 10

	a a II f a w			
	call for urgent or			
	early treatment at			
	secondary and			
	tertiary centers			
	and make a prompt			
	referral of such			
	patients after			
	giving first aid or			
	emergency			
	treatment			
	Obtain a PAP	nil	30 minutes	7 to 10
	smear in a			
OG 35.12	simulated			
	environment			
	Demonstrate the	nil	1 hour	7 to 10
	correct technique			
	to perform artificial			
	rupture of			
OG 35.13	membranes in a			
	simulated/			
	supervised			
	environment			
	Demonstrate the	nil	1 hour	7 to 10
	correct technique			
	to perform and			
OG 35.14	suture episiotomy			
UU 33.14	in a simulated/			
	supervised			
	environment			

Total	6		5 hours	
OG.36.3	Demonstrate the correct technique of punch biopsy of cervix in a simulated/ supervised environment	nil	30 minutes	7 to 10
OG 36.2	Organize antenatal, postnatal well- baby and family welfare clinics	nil	1 hour	7 to 10

i) Certifiable Skills:

Comp no.	Competency Description [P]	Need for Skill lab [yes/no]	No. required to certify	Duration hours	Number of batches[number of students per batch]
OG	Observe and		At least	1 hour	
37.1	assist in the		one		
	performance				
	of a caesarean				
1.	section				
	List any 5	no			
	Indications for				
2.	CS				
	Identify the				
	Instruments				
3.	for CS				

	Assist/observe 5 CS and document it correctly in the logbook				
	Observe/assist in the performance of D/C, at least 2 procedures and document	no	At least two	1 hour	
	Observe/assist in Fractional curettage, EB, ECC, at least 1 procedure	no	At least One	1 hour	
OG 37.6	Observe/assist in at least 1 forceps, 1 vacuum, 1 breech delivery	no	At least One	1 hour	
Total					

16. AETCOM AND SKILL LAB

Sl. No.	Module Number	AETCOM/Skill Lab	Lectur es	Small group	No. of Hours
1.	The foundations of communication 4	AETCOM	1 hour	3 hours	4 hours

NOTE: The above table containing teaching hours assigned to different topics under large and small group teaching may be used as a quide by the Institute.

7. SCHEME OF EXAMINATION:

Eligibility criteria:

- Learners must secure at least 50% marks of total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the University examination.
- Student should get a minimum of 75% attendance in Theory and 80 % in Practical classes to be eligible to appear for university examination.
- Learners must have completed the required certifiable competencies and completed the log book.

FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT:

- A minimum of 2 Internal Assessments (IAs) to be conducted
- One of the internal exams will be conducted like preliminary exams
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given a chance of remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Formative assessment: based on day to day assessment of SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments [records of activities used for assessment to be maintained by the department]

- Written exams will include MCQ's[MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

The distribution of internal assessment marks shall be as mentioned below:

DEPARTMENT OF OBG										
Integrated phase-wise Internal Assessment										
	THEORY	Pha	se 2	Phase 3-1		Phase 3-2		Final		
	ITIEUNT	IA-1	IA-2	IA-3	IA-4	IA-5	IA-6	Total		
	Theory		25	30	25	50	75			
Written	MCQ	10	10	10	10	10	20			
	AETCOM*		05		05		05			
	Formative									
	assessment:	05	0.5			5 10	10			
	SDL/Class tests/			05	05					
FA	MCQs/ Tutorials/	05	05	05	05					
	Seminars/									
	Assignments									
	Logbook	05	05	05	05	10	10			
	Total	50	50	50	50	80	120	400		

FINAL THEORY IA MARKS = 200 (final total divided by 2)

* To be included as a question in theory paper

IA-6 is Preliminary exam and hence to be conducted as two theory papers of 100 marks each, and average of both papers is used for tabulation

Blue-printing of Internal assessments in OBG

	Number of questions							
BLUEPRINT	IA-1	IA-2*	IA-3	IA-4*	IA-5	IA-6 Preliminary Exam*		
						Paper 1	Paper 2	
MCQ (1 mark each)	10	10	10	10	10	20	20	
Structured Long Essay (10 marks each)	00	00	01	01	01	02	02	
Short Essay (5 marks each)	04	04	02	02	04	08	08	
Short Answer (2 marks each)	05	05	05	05	10	10	10	
Total (in marks)	40	40	40	40	60	100	100	
	*AETCOM should have a weightage of 5 marks							

PRACTICAL INTERNAL ASSESSMENT

- Clinical end posting exams [EOP] will be conducted
- Viva/oral examination should assess approach to clinical context and included in practical IA marks.

Practicals:

DEPARTMENT OF OBG Integrated phase-wise Internal Assessment Phase 3-Phase 2 Phase 3-2 1 **PRACTICAL** Total 4 weeks 4 weeks 8 weeks 4 weeks **EOP-1 EOP-2 EOP-3 EOP-4** Clinical skills assessment (OSCE/ Mini-CEX/ 30 30 70 70 **EOP** Case presentation/ AETCOM) Viva-voce/ AETCOM 10 10 10 10 **Formative** assessment including 05 05 10 10 **Others Clinical-Clerkship** Logbook/ Record 05 05 10 10 book Total 50 50 100 100 300

FINAL EOP IA MARKS# = 200 (final total multiplied by 0.66 and rounding it)

At least one EOP is to be conducted with OSCE as a part of it.

AETCOM may be included as an OSCE station or as a part of viva-voce during EOP, if it needs to be assessed in practical (Refer competency booklet & AETCOM module)

Preliminary Examinations will include Bedside Clinical Examination which will mirror the Summative University Examinations (Practical)

FINAL PRACTICAL IA MARKS WILL BE AVERAGE OF EOP* AND PRELIMINARY EXAM (EQUAL WEIGHTAGE TO BOTH)

B. SUMMATIVE ASSESSMENT:

Obstetrics and gynaecology is learnt and assessed during professional years [PY] 2 and 3 part 1, 3rd part 2. SA will be held at the end of 3rd professional year part 2.

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) to pass
- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university of that subject.
- Internal assessment will appear as a separate head of passing at summative exams
- A candidate, who has not secured requisite aggregate in the internal assessment has
 to successfully complete the remediation measures prescribed by the University as
 the case may be prior to the declaration of his/her results in that particular phase.
 Candidates who fail to meet prescribed 50% marks in internal assessment after
 availing remedial measures will not be eligible for the university exams.

8. INTEGRATION:

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	Competency list for integration								
SL	SL Comp	Competency to be	nesting/	Integrating department					
	No.	integrated	sharing/ aligning /correlation	Horizon tal	Vertical				
1	OG 10.2	Enumerate the indications and describe the appropriate use of blood and blood products , their complications and management.	aligning		Yes Pathology				
2	OG 21.1	Describe and discuss the temporary and permanent methods of	aligning		Yes P and SM				

		contraception, indications ,techniques and complications; selection of patients, side effects and failure rate including OC pills, male contraception, Emergency contraception and IUCD.			
3	OG 22.2	Describe and discuss the etiology with special emphasis on candida, T vaginalis, bacterial vaginosis and syndromic management.	aligning		Yes Microbiology
4.	OG 40.1	Describe etiology, diagnosis and management of fever in pregnancy and its impact on pregnancy (DENGUE, MALARIA, and COVID-19).	aligning	Yes General medicin e	

9. RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS

Obstetrics:

- 1. Mudaliar & Menon, Clinical Obstetrics, Sarala Gopalan, Vanita Jain, 12th edition, University Press.
- 2. Dutta D.C., Text book of Obstetrics 9th edition, Jaypee Publication.
- 3. Holland and Brews, Textbook of Obstetrics. 4th Edition, B. I. Publication, New Delhi,
- 4. Williams Obstetrics Cunningham, Bloom, Sponge, et al 25th edition, Mc Craw Hill education Publication.
- 5. Fernando Arias Amarnath Bhinde, Savaratanum Arulkumaran et al 5th edition, Elsevier publication.
- 6. Munrokerr's operative obstetrics, Thomas F, Baskett Andrew, Savratanum Arulkumaran, 12th edition, Bailliere Tindall, London.

Gynaecology:

- 1. Shaw's A Text book of Gynaecology, Padubidri VG, Shirish N Daftary, 17th edition, Elsevier publication
- 2. Dutta DC, Text book of Gynaecology, 8th edition,
- 3. Jeffcoate's Principles of Gynaecology, Pratapkumar, Narendra Malhotra, 9th edition, Jaypee publication.
- 4. Williams Gynaecology Hoffman, John, Joseph et al, 3rd edition, Mc Craw Hill education Publication.
- 5. Shaw's operative Gynaecology, Christopher Hudson, Marcus Setchell, 7th edition, Elsevier publication.

FND

GENERAL SURGERY

1 GOALS:

- To groom a professional doctor who is ethically guided, clinically sound, skillful, empathetic, oriented towards the needs of the community, an inspiring leader and a good communicator.
- To stimulate the interest of the learner towards surgical diseases and to make him/her understand the concepts as well as be able to apply them in clinical setting.
- To hone the skills of the learner so as to gradually upgrade the knowledge of science into the fine art of surgery.

2. OBJECTIVES

Knowledge:

- Understanding of the structural and functional basis, principles of diagnosis and management of common surgical problems in adults and children,
- Ability to choose, calculate and administer appropriately intravenous fluids, electrolytes, blood and blood products based on the clinical condition,
- Ability to apply the principles of asepsis, sterilization, disinfection, rational use of prophylaxis, therapeutic utilities of antibiotics and universal precautions in surgical practice,
- Ability to recognize, resuscitate, stabilize and provide Basic & Advanced Life Support to patients following trauma,
- Ability to administer informed consent and counsel patient prior to surgical procedures,
- Commitment to advancement of quality and patient safety in surgical practice.

• Skill:

- · Ability to obtain a thorough history from the patient,
- To perform a complete general physical examination of the patient,
- To perform local and systemic examination in a surgical patient.
- Ability to write a detailed and accurate case sheet (Case record).

• Integration:

 To deliver teaching that is aligned and integrated horizontally and vertically in order to provide a sound biologic basis and a holistic approach to the care of the surgical patient.

3. TEACHING HOURS AND COURSE CONTENT

IV. Teaching Hours

SI.	Teaching Learning Method Theory	No. of
No	, , , , , , , , , , , , , , , , , , ,	Hours
1	Large group teaching	25
2	Small group teaching (SGT): SGD/Tutorials/Seminars	35
3	Self-directed Learning(SDL)	05
	TOTAL	65

SI. No	Teaching Learning Method Practicals		No. of Hours
1	Bedside clinics		4
		TOTAL	

SI. No	Teaching Learning Method	No. of Hours
1	AETCOM	
2	Skill Lab	
	TOTAL	

V. Course contents

vi. **THEORY**

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Large group teaching domain K LEVEL K/KH,	No. of Hours=25
1	Describe etiopathogenesis of oral cancer symptoms and signs of oropharyngeal cancer	SU20.1	1
2	Enumerate the appropriate investigations and discuss the Principles of treatment of oropharyngeal cancer	SU20.2	1
3	Describe surgical anatomy of the salivary glands, pathology, and clinical presentation of disorders of salivary glands	SU21.1	1
4	Enumerate the appropriate investigations and describe the Principles of treatment of disorders of salivary glands	SU21.2	1
5	Describe the aetiology and classification of cleft lip and palate Describe the Principles of reconstruction of cleft lip and palate.	SU19.1, SU19.2	2
7	Describe applied anatomy and appropriate investigations for breast disease	SU 25.1,	1
8	Describe the etiopathogenesis, clinical features and principles of management of benign breast disease including infections of the breast	SU 25.2	1
9	Describe the etiopathogenesis, clinical features, Investigations and principles of treatment of benign and malignant tumours of breast	SU25.3	2
11	Describe the applied anatomy and physiology of thyroid	SU22.1	1
12	Describe the etiopathogenesis of thyroidal swellings	SU22.2	3
13	Describe the clinical features, classification and principles of management of thyroid cancer	SU22.4	2
14	Describe the applied anatomy of parathyroid	SU22.5	1

	·		
15	Describe and discuss the clinical features of hypo - and hyperparathyroidism and the principles of their management	SU22.6	1
16	Describe the applied anatomy of adrenal glands. Describe the aetiology, clinical features and principles of management of disorders of adrenal gland	SU23.1,SU23.2	1
17	Describe the clinical features, principles of investigation and management of Adrenal tumours	SU23.3	1
18	Describe the Principles of FIRST AID Describe the Principles in management of mass casualties	SU 17.1 SU17.3	1
19	Describe Pathophysiology, mechanism of head injuries Describe clinical features for neurological assessment and GCS in head injuries Chose appropriate investigations and discuss the principles of management of head injuries	SU17.4,17.5,17. 6	1
20	Describe the pathophysiology of chest injuries. Describe the clinical features and principles of management of Chest injuries.	SU17.8 ,SU17.9	1
21	Outline the role of surgery in the management of coronary heart disease, valvular heart diseases and congenital heart diseases	SU26.1	1
22	Describe the clinical features of mediastinal diseases and the principles of management	SU26.3	1

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Small group teaching domain K/S/A Level K/KH/S/SH,	No. of Hours=35
1	Describe the steps and obtain informed consent in a simulated environment.	SU10.2	AETCOM
2	Demonstrate professionalism and empathy to the patient undergoing general surgery	SU8.2	AETCOM
3	Discuss medico-legal issues in surgical practice.	SU8.3	AETCOM
4	Hypovolemic shock	SU2.1 &2.2	Tutorial
5	Septic shock	SU2.1 &2.2	Tutorial
6	Post-operative surgery fluid management	SU2.1 &2.2	Tutorial
7	Blood transfusion	SU3.1	Tutorial
8	Clinical approach to a case of leg ulcer	SU5.2	Clinical oriented discussion
9	Clinical approach to a case of peripheral vascular disease	SU27.1	Clinical oriented discussion
10	DVT prophylaxis	SU27.2	Tutorial
11	Clinical approach to a case of varicose veins	SU27.6	Clinical oriented discussion
12	Counsel the patient and obtain informed consent for treatment of malignant conditions of the breast	SU25.4	AETCOM
13	Clinical approach to breast lump	SU25.1,2,3	Clinical oriented discussion
14	Management of carcinoma breast	SU25.1,2,3	Tutorial
15	Clinical approach to neck swellings	SU21.1	Clinical oriented

			discussion
16	Clinical approach to solitary nodule of thyroid	SU22.2	Clinical oriented discussion
17	Management of thyrotoxicosis	SU22.2	Tutorial

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Self-directed learning domain K/S/A Level K/KH,	No. of Hours=5
01	Carcinoma Breast	SU25.1,25.2,25.	1
02	Neck Swelling	SU21.1	1
03	Solitary Nodule Thyroid	SU22.2	1
04	Thyrotoxicosis	SU22.2	1
05	Thyroid Carcinoma	SU22.4	1

17. PRACTICAL

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Bedside Clinics/DOAP domain K/S/A Level K/KH/S/SH,	No. of weeks=4
1.	Ulcer: Elicit, document and present a history in a patient presenting with wounds.	SU 5.2 (CERTIFY)	
2.	Swelling: Describe and demonstrate the clinical examination of surgical patient including swelling and order relevant investigation for diagnosis. Describe and discuss appropriate treatment plan.	SU18.3 (CERTIFY)	Time as required during clinical posting
3.	Peripheral Vascular Disease: Demonstrate the correct examination of the vascular system and enumerate and describe the investigation of vascular disease(ARTERY)	SU 27.2 (CERTIFY in 3-1)	

	Varicose veins :	
	Demonstrate the correct examination of the	CII 27 2 (CEDTIEV
4		SU 27.2 (CERTIFY in 3-1)
	vascular system and enumerate and describe	111 3-1)
	the investigation of vascular disease (VEINS)	
	Lymph nodes : Demonstrate the correct examination of the	CU27 0/CEDTIEV
5		SU27.8(CERTIFY
	Lymphatic system and enumerate and describe	in 3-1)
	the investigation of Lymph node enlargement Hernia:	
		CHOO O/OFDTIEV
6	Demonstrate the correct technique to examine	SU28.2(CERTIFY
	the patient with hernia and identify different	in 3-1)
	types of hernias.	
	Scrotal swelling:	SU30.5,SU30.6 (CE
7	Demonstrate the correct technique to examine	RTIFY in 3-1)
	the patient with scrotal swelling and identify	ADD ALL CLINICS
	different causes for scrotal swelling.	
	GOITRE:	
8	Demonstrate and document the correct clinical	SU22.3
	examination of thyroid swellings and discus the	
	differential diagnosis and their management	
	Breast Lump: Demonstrate and document the correct clinical	
9		SU25.5
	examination of Breast lump and discus the	
	differential diagnosis and their management MASS ABDOMEN:	
	Describe and demonstrate clinical examination	
10	of abdomen. Order Relevant investigations.	SU28.18
	Describe and discuss appropriate treatment plan	
	OBSTRUCTIVE JAUNDICE	
	Describe and demonstrate clinical examination	
	of a case of obstructive jaundice.	
11	Order relevant investigations.	SU28.12
	Describe and discuss appropriate treatment	
	plan	
	μαιι	

12	LIVER: Demonstrate the correct technique of examination of a patient with disorders of the liver Order relevant investigations. Describe and discuss appropriate treatment plan	SU28.10
13	STOMACH MASS: Demonstrate the correct technique of examination of a patient with disorders of the stomach. Order relevant investigations. Describe and discuss appropriate treatment plan	SU28.9
14	SPLENIC MASS Demonstrate the correct technique of examination of a patient with SPLENOMEGALY Order relevant investigations. Describe and discuss appropriate treatment plan	SU28.11
15	RENAL MASS Demonstrate the correct technique of examination of a patient with RENAL MASS. Order relevant investigations. Describe and discuss appropriate treatment plan	SU28.4

18. Skill lab

Comp no.	Competency Description [P]	reamred	Duration hours	Number of batches[number of students per batch]
SU25.5	Demonstrate the correct technique to palpate the breast for breast swelling in a mannequin or equivalent	03	03	33
SU29.10	Demonstrate a digital rectal examination of the prostate in a mannequin or equivalent	03	03	33

SU10.3	Observation: common surgical procedures and assist in minor surgical procedures; Observe emergency lifesaving surgical procedures	03	03	33
Total		09	09	99-100

19. CERTIFICATION OF SKILLS:

-	Competency Description [P]	Need for Skill lab [yes/no]	No. required to certify	Duration hours	Number of batches[number of students per batch]
Total					

20. AETCOM

SI. No.	Module Number	Lectures [hours]	Small group [hours]	No. of Hours
	AETCOM			5 hours

21. Clinical clerkship plan

	UNIT-I	UNIT-II	UNIT-III	UNIT-IV
MONDAY	10-11 am OPD case presentation 5-6 pm admitted cases presentation	Discharge paper writing	Case sheet writing	Follow up of cases

TUESDAY	in casualty/pre op evaluation presentation Post admission rounds presentation/attend ing Operation Theatre and writing OT notes	10-11 am OPD case presentatio n 5-6 pm admitted cases presentatio n in casualty/pr e op evaluation presentatio n	Discharge paper writing	Case sheet writing
WEDNESD AY	Follow up of cases	Post admission rounds presentatio n/ attending Operation Theatre and writing OT notes	10-11 am OPD case presentation 5-6 pm admitted cases presentation in casualty/pre op evaluation presentation	Discharge paper writing
THURSDAY	Follow up of cases	Follow up of cases	Post admission rounds presentation/att	10-11 am

			ending Operation Theatre and writing OT notes	OPD case presentati on 5-6 pm admitted cases presentati on in
FRIDAY	Case sheet writing	Follow up of cases	Follow up of cases	casualty/p re op evaluation presentati on Post admission rounds presentati on /attending Operation Theatre
SATURDAY	Discharge paper	Case sheet	Follow up of	and writing OT notes
GATORIDAT	writing	writing	cases	of cases

22. SCHEME OF EXAMINATION:

Eligibility criteria:

- Learners must secure at least 50% marks of total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) assigned for internal assessment in in order to be eligible for appearing at the University examination.
- Student should get a minimum of 75% attendance in Theory and 80 % in Practical classes to be eligible to appear for university examination.
- Learners must have completed the required certifiable competencies and completed the log book.

D. FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT: THEORY INTERNAL ASSESSMENT:

- A minimum of 2 Internal Assessments (IAs) to be conducted
- One of the internal exams will be conducted like preliminary exams
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given a chance of remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Formative assessment: based on day to day assessment of SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments [records of activities used for assessment to be maintained by the department]
- Written exams will include MCQ's[MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

DEPARTMENT OF GENERAL SURGERY

Integrated phase-wise Internal Assessment

THEORY		Pha	se 2	Phas	e 3-1	3-1 Phase 3-2		Final
	INCURY		IA-2	IA-3	IA-4	IA-5	IA-6	Total
	Theory [#]	30	25	30	25	75	75	
Written	MCQ	10	10	10	10	20	20	
	AETCOM*		05		05	05	05	
FA	Formative assessment: SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments	05	05	05	10	10	10	
	Logbook	05	05	05	10	10	10	
	Total	50	50	50	60	120	120	450

FINAL THEORY IA MARKS = 150 (final total divided by 3)

IA-6 is Preliminary exam and hence to be conducted as two theory papers of 100 marks each, and average of both papers is used for tabulation

^{*} To be included as a question in theory paper

[#] Pandemic module to be included in theory exam

DEPARTMENT OF GENERAL SURGERY

Integrated phase-wise Internal Assessment

		Phase 2	Phase 3-1	Phas	e 3-2	Final
	PRACTICAL	4 weeks	4 weeks	8 weeks	4 weeks	Total
		E0P-1	EOP-2	E0P-3	EOP-4	IUlai
	Clinical skills					
	assessment					
	(OSCE/ Mini-CEX/	40	40	60	60	
E0P	Case presentation/					
	AETCOM)					
	Viva-voce (may	10	10	10	10	
	include AETCOM)	10	10	10	10	
	Formative					
	assessment	05	05	10	10	
Others	including Clinical-	00	00		10	
Others	Clerkship					
	Logbook/ Record	05	05	10	10	
	book		00	10	10	
	Total	60	60	90	90	300

FINAL EOP IA MARKS[#] = 150 (final total divided by 2)

At least one EOP is to be conducted with OSCE as a part of it

AETCOM may be included as an OSCE station or as a part of Viva-voce during EOP, if it
needs to be assessed in practical (Refer competency booklet & AETCOM module)

Preliminary Examinations will include Bedside Clinical Examination which will mirror
the Summative University Examinations (Practical)

FINAL PRACTICAL IA MARKS WILL BE AVERAGE OF EOP* AND PRELIMINARY EXAM (EQUAL WEIGHTAGE TO BOTH)

Blue-printing of Internal assessments in General Surgery

	Number of questions							
BLUEPRINT	IA-1	IA-2*	-2* IA-3	IA-4*	IA-5*	IA-6 Preliminary Exam*		
						Paper 1	Paper 2	
MCQ (1 mark each)	10	10	10	10	20	20	20	
Structured Long Essay (10 marks each)	00	00	01	01	02	02	02	
Short Essay (5 marks each)	04	04	02	02	08	08	08	
Short Answer (2 marks each)	05	05	05	05	10	10	10	
Total (in marks)	40	40	40	40	100	100	100	
	*AETCO	M should	have a	weightag	e of 5 ma	nrks		

E. **SUMMATIVE ASSESSMENT:**

General Surgery is learnt and assessed during professional years [PY] 2 and 3 part 1, 3rd part 2. SA will be held at the end of 3rd professional year part 2. Surgical allied subjects will be evaluated in the second theory paper of Gen. Surgery.

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) to pass

- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university of that subject.
- Internal assessment will appear as a separate head of passing at summative exams
- A candidate, who has not secured requisite aggregate in the internal assessment has
 to successfully complete the remediation measures prescribed by the University.
 Candidates who fail to meet prescribed 50% marks in internal assessment after
 availing remedial measures will not be eligible for the university exams.

23. INTEGRATION:

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		Competency list for integratio	n	
SL	Comp No.	Competency to be integrated	nesting/ sharing/ aligning /correla tion	egrating partment Vertical
1	FM1.9	Describe the importance of documentation in medical practice in regard to medicolegal examinations, Medical Certificates and medicolegal reports especially —maintenance of patient case records, discharge summary, prescribed registers to be maintained in Health Centres. maintenance of medico-legal register like accident register. documents of issuance of wound certificate documents of issuance of drunkenness certificate. documents of issuance of sickness and fitness certificate. documents for issuance of death certificate.	nesting	Vertical

		documents of Medical Certification of Cause of Death - Form Number 4 and 4A documents for estimation of age by physical, dental and radiological examination and issuance of certificate		
2	FM3.9	Firearm injuries:Describe different types of firearms including structure and components, along with description of ammunition propellant charge and mechanism of fire-arms, different types of cartridges and bullets and various terminology in relation of firearm – caliber, range, choking.	nesting	Vertical

24. RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS

Latest editions of the fo	llowing books are recommended
THEORY	PRACTICAL
Bailey & Love's Short Practice of Surgery Authors : Norman Williams, P Ronan O'Connell	A Manual On Clinical Surgery Author : S Das
<i>Manipal Manual of Surgery</i> Author : Dr. K. RajgopalShenoy	Manipal Manual of Clinical Methods in Surgery: Differential Diagnosis and Clinical Discussion Author: Dr. AnithaShenoy and Dr. K. RajgopalShenoy
SRB's Manual of Surgery	SRB's Clinical Methods in Surgery
Author : Dr. Sri Ram Bhat	Author : Dr. Sri Ram Bhat
Sabiston Textbook Of Surgery, The Biological Basis Of Surgical Practice Authors: R. Daniel Beauchamp MD, B. Mark Evers MD, Kenneth L. Mattox MD	Hamilton Bailey s Demonstrations of Physical Signs in Clinical Surgery Authors : Lumley
Schwartz's Principles of Surgery Authors: F. Charles Brunicardi, Dana K. Andersen, Timothy R. Billiar, David L. Dunn	Bedside Clinics in Surgery Authors: Makhan Lal Saha
A Textbook On Surgical Short Cases By	Browse's Introduction to the Symptoms &
Das	Signs of Surgical Disease
Author: S. Das	Kevin G. Burnand ,John Black ,Steven A.
	Corbett , William E.G. Thomas

END

ORTHOPEDICS AND TRAUMA

1. GOAL

Broad goal of teaching undergraduate medical students in Orthopedics and trauma is to impart such knowledge and skills that may enable him to diagnose and treat common ailments and to refer rare diseases or complications/ unusual manifestations of common diseases, to the specialist.

2. OBJECTIVES

2.1 KNOWLEDGE and 2.2 SKILLS

At the end of the postings, the student shall be able

- i. To recognize and assess bone injuries, dislocation and poly-trauma and provide first contact care prior to appropriate referral,
- ii. Know the medico-legal aspects of trauma,
- iii. To recognize and manage common infections of bone and joints in the primary care setting,
- iv. Recognize common congenital, metabolic, neoplastic, degenerative and inflammatory bone diseases and refer appropriately,
- v. To perform simple orthopaedic techniques as applicable to a primary care setting,
- vi. To recommend rehabilitative services for common orthopaedic problems across all ages.

2.3 ATTITUDE AND COMMUNICATION SKILLS

At the end of the course, the learner shall be able to:

- 1. Communicate with the patient regarding the course, treatment plan and prognosis of the disease.
- 2. Motivate patients with chronic diseases to adhere to the line of management as outlined by the health care provider.
- 3. Follow the treatment guidelines and counsel the patient to adhere and comply.
- 4. Respect patient's privacy.

- 5. Maintain confidentiality.
- 6. Work in a healthcare team efficiently while respecting all its members.
- 7. Continuously strive for updating his/her own knowledge and skill.
- 8. To treat prolonged illnesses with regular follow-up, monitoring, proper counseling and refer to higher centres if required.

2.4 INTEGRATION:

The teaching should be aligned and integrated horizontally and vertically with other specialties in order to allow the student to understand the structural basis of orthopaedic problems, their management and correlation with function, rehabilitation and quality of life.

3. TEACHING HOURS AND COURSE CONTENT

A. Teaching Hours

SI. No	Teaching Learning Method Theory	
1	Large group teaching	15
2	Small group teaching (SGT): SGD/Tutorials/Seminars	20
3	Self-directed Learning(SDL)	05
	TOTAL	40

SI. No	Teaching Learning Method Practicals	
1	Bedside clinics/practicals	4 weeks
	TOTAL	

SI. No	Teaching Learning Method	No. of Hours
1	AETCOM	5
2	Skill Lab	3
	TOTAL	

B. Course Contents

I. THEORY (Large and small group teaching)

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency		No. of Hours
1	OR2.1 Clavicle fracture OR2.2- Proximal humerus fracture	L	1
2	OR2.4- Fracture shaft humerus Fracture distal humerus	L	1
3	OR 2.7 -Fracture pelvis with emphasis on hemodynamic instability	L	1
4	OR 2.8 Fracture Cervical spine injuries	L	1
5	OR 2.9 Acetabular Fracture	L	1
6	OR2.11- Fracture distal femur Fracture Patella	L	1
7	OR2.13- Fracture both bone leg, Calcaneus	L	1
8	OR2.13- Lisfranc injury and Talus fracture	L	1
9	OR3.1- Tomsmith's arthritis/Acute Osteomylities / Subacutre Osteomylities	L	1
10	OR4.1- TB hip and Knee	L	1
11	OR5.1- Inflammatory arthritis	L	1
12	OR6.1- Cervical spondylosis, Lumbar spondylosis and Listhesis	L	1
13	OR7.1-Calcium metabolism and Osteoporosis and Rickets	L	1
14	OR 8.1- PPRP	L	1
15	OR9.1-Cerebral Palsy	L	1

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Level	CORE/NO NCORE	Small group teaching	No. of Hours
1.	OR1.1-Principles of pre-hospital care and causality management of trauma victim including principles of triage	K/KH	CORE	Integration (General surgery/Anaest hesiology)	1
2.	OR1.2-Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of shock	K/KH	CORE	Integration (General surgery)	1
3.	OR1.3-Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of soft tissue injuries	K/KH/ SH	CORE	Integration (General surgery)	1
4.	OR1.4-Describe and discuss the Principles of management of soft tissue injuries	K/KH	CORE	Integration (General surgery)	1
5.	OR 1.5- Shoulder dislocation	K/KH	CORE	Tutorial	1
6.	OR1.5: Knee, Hip dislocation	K/KH	CORE	Tutorial	1
7.	OR1.6-Closed reduction of Knee /Hip/Shoulder dislocation	КН	CORE	DOAP(Video)	1
8.	OR2.6- Distal radius fracture	KH	CORE	Seminar	1
9.	OR2.5- Forearm fracture	KH	CORE	Tutorial	1
10.	OR2.10-Proximal femur fracture/IT/NOF	KH	CORE	Tutorial	1
11.	OR2.11- Proximal tibia fracture	KH	CORE	Seminar	1
12.	OR2.12-Fracture shaft femur in all age groups /Fat embolism	КН	CORE	Tutorial	1
13.	OR3.1- Acute and Subacute Osteomylities/ Septic arthrities	KH	CORE	Integration (Patho +Micro)	1
14.	OR3.2-a. Joint aspiration b.Sequestrectomy/arthrotomy	КН	CORE	DOAP (video)	1

15.	OR4.1-TB Hip, TB knee	КН	CORE	Integration (Tutorial)	1
16.	OR4.1-TB Spine	KH	CORE	Seminar	1
17.	OR 2.8- Spine injuries	KH	CORE	Tutorial	1
18.	OR2.14-Ankle Fractures	КН	CORE	Tutorial	30 minut es
19.	OR2.18- Nonunion/Malunion/Delayed union	КН	CORE	Seminar	1
20.	OR2.16-Management of open tibia fracture	КН	CORE	Tutorial	30 minut es
21.	OR7.1-Osteoporosis	КН	CORE	Tutorial/Semin ar	1

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Self Directed Learning	No. of Hours
1	OR2.8-Clinical examination of Spine and neurological examination	Bedside	1
2	OR11.1- Radial nerve anatomy, muscles supplied and tests to identify redial nerve injuries	Bedside	1
3	OR11.1- Ulnar nerve surgical anatomy, muscles supplied and tests to identify ulnar nerve	Bedside	1
4	OR2.8-Neurogoenic bladder and nerve supplies to bladder	Bedside	1
5	OR2.4-Cubitus varus	Bedside	1

II. PRACTICALS

a) Bedside Clinics:

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Bedside Clinics/DOAP	No. of Hours
1	OR1.6- Participate as a member in the team for closed reduction of shoulder	DOAP	3

	dislocation/hip dislocation/knee dislocation		
2	OR3.2-Participate as a member in team for	DOAP	3
	aspiration of joint under supervision		
3	OR1.5-Examination of Hip	Bedside Clinics	12
	A. OR4.1-TB Hip		
	B. Coxa vara(Perthes SCFE)		
	C. OR12.1-CDH		
	D. OR2.10-Proximal femur fracture		
4	OR1.5-Examination of Knee	Bedside Clinics	6
	A. OR4.1-TB knee		
	B. Ligament injury, Meniscus injuries		
5	OR1.5- Examination of Shoulder	Bedside Clinics	6
	A. Shoulder dislocation		
	B. Rotator Cuff injuries		
6	OR2.14-Examination of Ankle	Bedside Clinics	6
	A. OR11.1-Foot drop		
	B. OR12.1-CTEV		
	C. Flat foot		
7	OR11.1-Peripheral Nerve injuries,	Bedside Clinics	6
	examination		
	A. Radial nerve		
	B. Median nerve		
	C. Ulnar nerve		
8	OR2.4-Examination of Elbow joint, Wrist joint	Bedside Clinics	6
	A. Cubitus varus		
	B. Myositis /Stiff elbow		
	C. Malunited distal radius		
	D. OR11.1-Wrist drop		
	E. OR11.1-Hand regional condition	Dadaida Oliai	
9	OR4.1- TB spine	Bedside Clinics	6
10	OR2.15- Malunion, non-union, infection,	Bedside Clinics	6
11	compartment syndrome	Dadaida Oliniaa	
11	OR7.1-Rickets, paget's disease	Bedside Clinics	6
12	OR6.1-IVDP	Bedside Clinics	6

b)Skill Lab:

Comp no.	Competency	No.	Duration	Number of
		required to certify		batches[number of students per batch]
OR13.1	Participate in a team for procedures in patients and demonstrating the ability to perform on mannequins/simulated patients in the following -: A. Above elbow plaster B. Below elbow plaster C. Above knee plaster D. Thomas splint E. splinting for long bone fractures F. strapping for shoulder and clavicle trauma.		2 hours	25 students per batch
OR3.2	Compression bandage	2	1hour	25 students per batch
Total				

c. Certifiable Skills:

S.No	Skill	T-L Method	Assessment & Grading	Number of batches[number of students per batch]
1	OR13.1-Participate in a team for procedures in patients and demonstrating the ability to perform on	Case discussion/ Skill lab	OSCE/Viva	25 students per batch

	mannequins/simulated patients in the			
	following -:			
	G. Above elbow			
	plaster			
	H. Below elbow plaster			
	I. Above knee plaster			
	J. Thomas splint			
	K. splinting for long			
	bone fractures			
	strapping for shoulder			
	and clavicle trauma.			
2	Compression bandage	Skill lab	OSCE/Viva	25 students per
				batch

III. AETCOM AND SKILL LAB

SI. No.	Module Number	AETCOM/S	Lectures	Small	No. of
		kill Lab		group	Hours
1	OR14.1- Demonstrate the ability to counsel patients regarding prognosis in patients with various orthopedic illness like-Fracture with disabilities, fracture that require prolonged bed stay, bone tumours, congenital disabilities	AETCOM	Case discussion/D emonstration	Small group	1
2	OR14.2-Demonstrate the ability to counsel patients to obtain consents for various orthopedic procedures like limp amputation, permanent fixations etc.	AETCOM	Case discussion/D emonstration	Small group	1

NOTE: The above table containing teaching hours assigned to different topics under large and small group teaching may be used as a guide by the Institute.

4. SCHEME OF EXAMINATION:

Eligibility criteria:

- Learners must secure at least 50% marks of total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the University examination.
- Student should get a minimum of 75% attendance in Theory and 80 % in Practical classes to be eligible to appear for university examination.
- Learners must have completed the required certifiable competencies and completed the log book.

FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT:

- A minimum of 2 Internal Assessments (IAs) to be conducted
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given a chance of remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Formative assessment: based on day to day assessment of SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments [records of activities used for assessment to be maintained by the department]
- Written exams will include MCQ's[MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

The distribution of internal assessment marks shall be as mentioned below:

	DEPARTMENT OF ORTHOPAEDICS						
	Integrate	d phase-wise Int	ernal Assessmer	nt			
	THEODY	Phase 3-1	Phas	e 3-2	Final		
THEORY		IA-1	IA-2	IA-3	Total		
	Theory	15	20	40			
Written	MCQ	10	10	15			
	AETCOM*			05			
	Formative		05	05			
	assessment:						
	SDL/Class tests/						
FA	MCQs/ Tutorials/						
	Seminars/						
	Assignments						
	Logbook	05	05	05			
Total 30 40 70 140							
FINAL THEORY IA MARKS = 35 (final total divided by 4)							
	* To be included as a question in theory paper						

Blue-printing of Internal assessments in Orthopedics

BLUEPRINT	Number of questions				
BLUEPKINI	IA-1	IA-2	IA-3*		
MCQ	10	10	15		
(1 mark each)	10	10	13		
Structured Long Essay	00	00	01		
(10 marks each)	00	00	UI		
Short Essay	01	02	03		
(5 marks each)	UI	UZ	03		
Short Answer	05	OF	10		
(2 marks each)	05	05	10		
Total	25	30	60		
(in marks)	20	30	00		
* AETCOM should have a weightage of 5 marks					

PRACTICAL INTERNAL ASSESSMENT

- Clinical end posting exams [EOP] will be conducted
 - Viva/oral examination should assess approach to clinical context and included in practical IA marks.

Practicals:

DEPARTMENT OF ORTHOPAEDICS							
Integrated phase-wise Internal Assessment							
		Phase 2	Phase 3-1	Phase 3-2	Final		
	PRACTICAL	2 weeks	4 weeks	2 weeks	Total		
		E0P-1	EOP-2	E0P-3	IUlai		
	Clinical skills						
	assessment						
	(OSCE/ Mini-CEX/	20	50	20			
EOP	Case presentation/						
	AETCOM)						
	Viva-voce (may	05	10	10			
	include AETCOM)		10	10			
	Formative	05	05	05			
Others	assessment		00	00			
	Logbook/ Record		05	05			
	book		00	00			
	Total 30 70 40 140						

FINAL PRACTICAL IA MARKS = 35 (final total divided by 4)

At least one EOP is to be conducted with OSCE as a part of it AETCOM may be included as an OSCE station or as a part of viva-voce during EOP, if it

needs to be assessed in practical (Refer competency booklet & AETCOM module)

5. SUMMATIVE ASSESSMENT:

Orthopaedics is learnt and assessed during professional years [PY] 2 and 3 part 1, 3rd part 2. SA will be held at the end of 3rd professional year part 2, **as a part of General surgery (Allied subject)**

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) to pass
- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university of that subject.
- Internal assessment will appear as a separate head of passing at summative exams
- A candidate, who has not secured requisite aggregate in the internal assessment has
 to successfully complete the remediation measures prescribed by the University as
 the case may be prior to the declaration of his/her results in that particular phase.
 Candidates who fail to meet prescribed 50% marks in internal assessment after
 availing remedial measures will not be eligible for the university exams.

6. INTEGRATION:

- May be conducted in the form of sharing/nesting/correlation using CBL/PBL/ Case study approach and involving various departments concerned while preparing the specific learning objectives of the integration topics.
- Department involved may be chosen according to the topic and may be conducted as Horizontal/ Vertical form of integration as per the CBME document.

	Competency list for integration						
		Competency to be	nesting/ sharing/	Integrating department			
	No.	integrated	aligning /correlation	Horizontal	Vertical		
1	OR1.1	Describe and discuss the Principles of pre- hospital care and Casuality	aligning /correlation	General Surgery/Anae sthesiology			

		management of a			
		trauma victim			
		including principles of			
		triage			
		Describe and discuss	aligning		
		the aetiopathogenesis,	/correlation		
2	OR1.2	clinical features,		General	
_		investigations, and		Surgery	
		principles of			
		management of shock			
		Describe and discuss	aligning		
		the aetiopathogenesis,	/correlation		
		clinical features,		General	
3	OR1.3	investigations, and			
		principles of		Surgery	
		management of soft			
		tissue injuries			
		Describe and discuss	aligning		
4	OR1.4	the Principles of	/correlation	General	
4	UK1.4	management of soft		Surgery	
		tissue injuries			
		Describe and discuss	aligning		Patholo
		the aetiopathogenesis,	/correlation		gy,
		clinical features,			Microbi
		investigations and			ology
		principles of			
		management of Bone			
		and Joint infections a)			
_	000.1	Acute Osteomyelitis b)		General	
5	OR3.1	Subacute		surgery	
		osteomyelitis c) Acute			
		Suppurative arthritis			
		d) Septic arthritis &			
		HIV infection e)			
		Spirochaetal infection			
		f) Skeletal			
		Tuberculosis			
	L	Tabeleulosis			

		Describe and discuss	aligning		Patholo
		the clinical features,	/correlation		
		Investigation and	Correlation		gy
		principles of			
		management of		General	
6	OR4.1	Tuberculosis affecting			
		_		surgery	
		major joints (Hip, Knee) including cold			
		abcess and caries			
		spine			
		Describe and discuss	aligning		
			/correlation		
		the aetiopathogenesis, clinical features,	Correlation		
		· · · · · · · · · · · · · · · · · · ·		Conorol	
7	OR5.1	investigations and		General	
		principles of		Medicine	
		management of			
		various inflammatory			
		disorder of joints	-1::-		D-4lI-
		Describe and discuss	aligning		Patholo
		the aetiopathogenesis,	/correlation		gy
		clinical features,			
	00101	investigations and			
8	OR10.1	principles of			
		management of			
		benign and malignant			
		bone tumours and			
		pathological fractures			
		Describe and discuss	aligning		
		the aetiopathogenesis,	/correlation		
		clinical features,			
		investigations and		General	
9	OR11.1	principles of		Medicine,	
		management of		General	
		peripheral nerve		surgery	
		injuries in diseases			
		like foot drop, wrist			
		drop, claw hand,			

		palsies of Radial, Ulnar, Median, Lateral Popliteal and Sciatic Nerves			
10	OR13.2	Participate as a member in team for Resuscitation of Polytrauma victim by doing all of the following: (a) I.V. access central - peripheral (b) Bladder catheterization (c) Endotracheal intubation (d) Splintage	aligning /correlation	Anaesthesiol ogy	

7. RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS

Text books:

- 1. Appleys System of orthopaedics and fractures
- 2. Adams's Outline of orthopaedics
- 3. Adam's Outline of fractures: including joint injuries

Reference books:

- 1 SM Tuli textbook of tuberculosis of the skeleton system
- 2 S. Das A manual of clinical Surgery
- 3 John Ebnezars textbook of orthopaedics
- 4 Maheshwari textbook of orthopaedics
- 5 Miller's review of orthopaedics
- 6 AAOS Comprehensive orthopaedics review
- 7 Campbells Operative orthopaedics
- 8 Ronald McRae Clinical orthopaedic examination



RADIODIAGNOSIS

GOAL

The broad goal of teaching the undergraduate medical students in the field of Radiodiagnosis should be aimed at making the students realize the basic need of various radio diagnostic tools in medical practice. They shall be aware of the techniques to be undertaken in different situations for the diagnosis of various ailments as wells as during prognostic estimations.

2. OBJECTIVES

2.1 KNOWLEDGE

At the end of the course in Radio-diagnosis, the students should:

- 1. Understand basics of x-rays production, its uses and hazards.
- 2. Be aware of radiation hazards and protection with reference to self, patient and the public.
- 3. Be familiar with various imaging techniques, their advantages and disadvantages. Be aware of indications for common x-ray investigations, know the indications for C.T. Scan and Ultrasound.
- 4. Appreciate and diagnose changes in bones like fractures, infections, tumors and metabolic bone diseases.
- Identify and diagnose various radiological changes in disease conditions of chest and mediastinum, Gastro intestinal tract, Hepatobiliary system and Genito Urinary (G.U) system and central nervous system.
- 6. Learn about various imaging techniques, including computerized Tomography (C.T scan), Ultrasound with color Doppler, Magnetic Resonance Imaging (M.R.I) and D.S.A.

2.2 SKILLS

At the end of the course the students shall be able to:

- 1. Use basic protective techniques during various imaging procedures.
- 2. Interpret common x-ray, radio-diagnostic techniques in various community situations.
- 3. Advise appropriate diagnostic procedures in specialized circumstances to appropriate specialists.

.2.3 ATTITUDE AND COMMUNICATION SKILLS

At the end of the course, the learner shall be able to:

- 1. Communicate with the patient about the plan of investigation,
- 2. Communicate how much the investigation may or may not contribute to the diagnosis [the sensitivity, specificity, positive and negative predictive values]
- 3. Communicate about possible adverse health effects about the investigation.
- 4. Respect patient's autonomy
- 5. Follow the principles of beneficence, non-maleficence and justice
- 6. Maintain confidentiality.
- 7. Work in a healthcare team efficiently while respecting all its members.
- 8. To have the judgement not to harm the unborn child.

7.4 INTEGRATION:

The knowledge acquired in radiology should help the students to integrate and correlate the diagnostic and prognostic imaging studies with clinical conditions in health and disease

10. TEACHING HOURS AND COURSE CONTENT

J. Teaching Hours

SI. No	Teaching Learning Method Theory			
1	Large group teaching	10		
2	Small group teaching (SGT): SGD/Tutorials/Seminars	80		
3	Self-directed Learning(SDL)	02		
	TOTAL	20		

SI. No	Teaching Learning Method Practicals	
1	Bedside clinics/practicals	weeks
	nil	nil
	TOTAL	

SI. No	Teaching Learning Method	
1	AETCOM	5
2	Skill Lab	
	TOTAL	

K. Course Contents

2. THEORY (Large and small group teaching)

SI.	Topic/ System : (With Competency Number) core/	Lecture	No. of
No.	non-core competency	(Large group)	Hours
1	RD1.3 Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder of ENT		1
2	RD1.4 Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in Ob & Gy		1
3	RD1.5 Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in internal medicine		1
4	RD1.5 Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in internal medicine		1
5	RD1.6 Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorders in surgery		1

6	RD1.6 Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorders in surgery	1
7	RD1.7 Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in Pediatrics	1
8	RD1.8 Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to common malignancies	1
9	RD1.8 Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to common malignancies	1
10	RD1.9 Describe the role of Interventional Radiology in common clinical conditions	1

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Small group teaching	No. of Hours
1	RD1.3 Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder of ENT		1
2	RD1.4 Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in Ob & Gy		1
3	RD1.4 Enumerate indications for various common radiological investigations, choose the most		1

	appropriate and cost effective method and	
	interpret findings in common conditions pertaining	
	to disorder in Ob & Gy	
4	RD1.5 Enumerate indications for various common	1
	radiological investigations, choose the most	
	appropriate and cost effective method and	
	interpret findings in common conditions pertaining	
	to disorder in internal medicine	
5	RD1.6 Enumerate indications for various common	1
	radiological investigations, choose the most	
	appropriate and cost effective method and	
	interpret findings in common conditions pertaining	
	to disorders in surgery	
6	RD1.7 Enumerate indications for various common	1
	radiological investigations, choose the most	
	appropriate and cost effective method and	
	interpret findings in common conditions pertaining	
	to disorder in Pediatrics	
7	RD1.8 Enumerate indications for various common	1
	radiological investigations, choose the most	
	appropriate and cost effective method and	
	interpret findings in common conditions pertaining	
	to common malignancies	
8	RD1.9 Describe the role of Interventional Radiology	1
	in common clinical conditions	

SI.	Topic/ System : (With Competency Number) core/ non-	Self Directed	No. of
No.	core competency	Learning	Hours
1	RD1.5 Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in internal medicine		1
2	RD1.6 Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorders in surgery		1

3. PRACTICALS

8. Bedside Clinics:

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Bedside Clinics/DOAP	No. of Hour s

9. Skill Lab:

Comp no.	Competency Description [P]	No. required to certify	Duration hours	Number of batches[number of students per batch]
Total				

10. Certifiable Skills:

S.No	Skill	T-L Method	Assessment & Grading	Number of batches[number of students per batch]
			NONE	

4. AETCOM AND SKILL LAB

SI. No.	Module Number	AETCOM/Skill Lab	Lectures	Small group	No. of Hours

NOTE: The above table containing teaching hours assigned to different topics under large and small group teaching may be used as a guide by the Institute.

11. SCHEME OF EXAMINATION:

Eligibility criteria:

- Learners must secure at least 50% marks of total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the University examination.
- Student should get a minimum of 75% attendance in Theory and 80 % in Practical classes to be eligible to appear for university examination.
- Learners must have completed the required certifiable competencies and completed the log book.

FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT:

- . One theory IA will be conducted as detailed below in the table
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given a chance of remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Formative assessment: based on day to day assessment of SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments [records of activities used for assessment to be maintained by the department]
- Written exams will include MCQ's[MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

The distribution of internal assessment marks shall be as mentioned below:

DEPARTMENT OF RADIODIAGNOSIS			
	Integrated phase-wise Internal Assessment		
THEORY		Phase 3-1	
Written	Theory	20	
Willen	MCQ	10	
	Formative assessment:		
FA	SDL/Class tests/ MCQs/ Tutorials/ Seminars/	05	
ГА	Assignments		
	Logbook	05	
	Total 40		
	FINAL THEORY IA MARKS = 04 (final total divided by 10)		

Blue-printing of Theory Internal Assessment in Radiodiagnosis

	Number of questions
MCQ (1 mark each)	10
Structured Long Essay	00
(10 marks each)	00
Short Essay	
(5 marks each)	02
Short Answer	0.5
(2 marks each)	05
Total (in marks)	30

PRACTICAL INTERNAL ASSESSMENT

- Clinical end posting exams [EOP] will be conducted
 - Viva/oral examination should assess approach to clinical context and included in practical IA marks.

Practicals:

DEPARTMENT OF RADIODIAGNOSIS			
	Integrated phase-wise Internal Assessment		
PRACTICAL		Phase 2	
PRACTICAL		2 weeks posting	
EOP	Clinical skills assessment	20	
EUP	Viva-voce	10	
Others	Formative assessment	05	
Others	Logbook/ Record book	05	
	Total 40		
FINAL PRACTICAL IA MARKS = 04 (final total divided by 10)			

B. SUMMATIVE ASSESSMENT:

Radiodiagnosis is learnt and assessed during professional years [PY] 2 and 3 part 1, 3rd part 2. SA will be held at the end of 3rd professional year part 2, as a part of General Surgery (Allied subject)

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) to pass
- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university of that subject.
- Internal assessment will appear as a separate head of passing at summative exams
- A candidate, who has not secured requisite aggregate in the internal assessment has
 to successfully complete the remediation measures prescribed by the University as
 the case may be prior to the declaration of his/her results in that particular phase.
 Candidates who fail to meet prescribed 50% marks in internal assessment after
 availing remedial measures will not be eligible for the university exams.

11. INTEGRATION:

- May be conducted in the form of sharing/nesting/correlation using CBL/PBL/ Case study approach and involving various departments concerned while preparing the specific learning objectives of the integration topics.
- Department involved may be chosen according to the topic and may be conducted as Horizontal/ Vertical form of integration as per the CBME document.

	Competency list for integration					
SL	Comp	Competency to	nesting/ sharing/	Integrating departme		
	No.	be integrated	aligning /correlation	Horizontal	Vertical	
1						
2						
3						

12. RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS

Text books (Latest edition of the following books):

- 1. Text book of Radiology and Imaging, David Sutton
- 2. Diagnostic Radiology A text book of medical imaging, Grainger & Allison's
- 3. CT & MRI of the whole body, John R Haaga & Daniel T. Boll
- 4. Aids to Radiological Differential Diagnosis, Chapman & Nakielny's

END

ANAESTHESIA

01 GOAL

Broad goal of teaching undergraduate medical students in anaesthesia is to understand the implications of pre-existing diseases in patients undergoing anaesthesia, have knowledge regarding basic airway management and acute resuscitation.

i. OBJECTIVES

2.1 KNOWLEDGE

- Describe and discuss the pre-operative evaluation, assessing fitness for surgery and the modifications in medications in relation to anaesthesia / surgery.
- ii. Describe and discuss the roles of anaesthesiologist as a peri-operative physician.
- iii. Describe and discuss different techniques of anaesthesiology, including regional anaesthesia, general anaesthesia and MAC.
- iv. Review principles and teach skills in resuscitation.
- v. Describe and discuss the management of acute and chronic pain, including labour analgesia.

2.2 SKILLS

At the end of the postings, the student shall be able to

- i. Demonstrate awareness about the maintenance of clear airway in children and adults in various situations.
- ii. Demonstrate awareness regarding starting a venous access- various modalities- peripheral and central venous cannulation.
- iii. Demonstrate the awareness and execution of Cardio-pulmonary resuscitation.
- iv. Choose cases for local / regional anaesthesia and demonstrate the ability to administer the same.
- v. Patient monitoring and various monitors used- ECG, SpO₂, NIBP, temperature monitoring.

2.3 ATTITUDE AND COMMUNICATION SKILLS

At the end of the course, the learner shall be able to:

- i. Communicate with the patient regarding the course, treatment plan and prognosis of the disease.
- ii. Respect patient's privacy.
- iii. Maintain confidentiality.
- iv. Work in a healthcare team efficiently while respecting all its members.
- v. Continually strive for updating his/her own knowledge and skill.
- vi. Discuss the implications and obtain informed consent for various procedures and to maintain the documents.

11.4 INTEGRATION:

The teaching should be aligned and integrated horizontally and vertically in order to provide comprehensive care for patients undergoing various surgeries, in patients with pain, in intensive care and in cardio respiratory emergencies. Integration with the preclinical department of Anatomy, paraclinical department of Pharmacology and horizontal integration with any/all surgical specialities is proposed.

12. TEACHING HOURS AND COURSE CONTENT A Teaching Hours

SI.	Teaching Learning Method Theory	
No		
1	Large group teaching	80
2	Small group teaching (SGT): SGD/Tutorials/Seminars	10
3	Self-directed Learning(SDL)	02
	TOTAL	20

SI. No	Teaching Learning Method Practicals	No. weeks
1	Bedside clinics/practicals	1 week
	TOTAL	

SI. No	Teaching Learning Method	No. of Hours
1	AETCOM	5
2	Skill Lab	
	TOTAL	

B Course Contents

12.4.1 THEORY (Large and small group teaching)

SI.	Topic / System: (With Competency Number)	Lecture	No. of
No.	core / non-core competency	(Large group)	Hours
1	AS 1.1 – AS 1.5	Lecture	1 Hour
	General introduction-		
	Evolution, Principle of Ethics		
	Prospects of Anaesthesiology as a career		
2	PY 3.4 - PY 3.5	Lecture	1 Hour
	Describe the neuromuscular junction &		
	transmission of impulses. Describe the action of		
	N - M - B asserts		
3	AS 3.1 - AS 3.6	Lecture	1 Hour
	Describe principles of Preoperative evaluation		

	including history taking, clinical examination, documentation, Pre-op investigations, medications & NPO guidelines		
4	AS 4.1 & 4.3 Describe & discuss the Pharmacology of drugs used in induction & maintenance of general anaesthesia (IV, Intubation, Opiates, Non opiates, NDMR, Anticholineterases). Observe & describe the principles & the practical aspects of induction & maintenance of anaesthesia.	Lecture	1 Hour
5	AS 4.2 Describe the anatomy of airway and its implications for general anaesthesia.	Lecture	1 Hour
6	AS 5.1, AS 5.2, AS 5.5 Describe the correlative anatomy of subarachnoid & epidural spaces. Indications & principles of regional anaesthesia (CNB). Steps involved in caudal epidural in children & adults.	Lecture	1 Hour
7	AS 7.1 – AS 7.2 Enumerate & describe the functions of ICU. Describe the criteria for admission & discharge of patients to an ICU.	Lecture	1 Hour
8	AS 8.1 – AS 8.5 Describe the Anatomical correlates and physiological principles of pain. Determine the level, quality and quantity of pain and its tolerance in patients. Describe the Pharmacology & use of drugs in the management of pain. Describe the principles of pain management in palliative care & terminally ill.	Lecture	1 Hour

SI.	Topic/ System : (With Competency	Small group teaching	No. of
No.	Number) core/ non-core competency AS 4.4 , AS 4.5 Monitoring & maintenance of vital organ functions	Small group Teaching	Hours 1 Hour
2	AS 4.6 , AS 4.7 Day care anaesthesia & NORA	Small group Teaching	1 Hour
3	AS 5.3, AS 5.4, AS 5.6 Anatomy of Brachial plexus Pharmacology of drugs used & adjuvants Common blocks used in surgery	Small group Teaching	1 Hour
4	AS 6.1, AS 6.2, AS 6.3 PACU Monitoring & resuscitation Contents of crash cart Equipment used Common complications encountered in PACU, recognition & management.	Small group Teaching	1 Hour
5	AS 7.3, OR 1.1 Head injury patient Trauma patient – pre hospital care Casualty management & triage	Small group Teaching	1 Hour
6	AS 9.3 , AS 9.4 Fluid Therapy in Pre —op period, blood & blood products used in perioperative period	Small group Teaching	1 Hour
7	AS 10.1, AS 10.2 Hazards of incorrect positioning Hazards in perioperative period steps taken & prevent them	Small group Teaching	1 Hour
8	AS 10.3, AS 10.4 Communication in patient safety Common medical & medication errors in anaesthesia.	Small group Teaching	1 Hour

9	IM 24.11 – Aetiopathogenesis, Clinical presentation, identification, functional changes, acute care, stabilization, management & rehabilitation.	Small group Teaching	1 Hour
	INTEGRATION		
10	FM 2.19 – Investigation of anaesthetic, operative deaths. Describe & discuss special protocols for conduction of autopsy & for correction, preservation & dispatch of related material evidences.	Small group Teaching	1 Hour

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Self Directed Learning	No. of Hours
	AS 3.1 to 3.6		
	AS 4.2		

12.4.2 PRACTICALS

i. Bedside Clinics:

SI. No.	Topic/ System : (With Competency Number) core/ non-core competency	Bedside Clinics/DOAP	No. of Hours
1	AS 2.1 Enumerate the indications, describe the steps in a simulated environment, Basic Life Support in adult, children & neonates	DOAP	3 Hrs
2	AS 2.2 Enumerate the indications, describe the steps in a simulated environment, Advance Life Support in adult &children	DOAP	3 Hrs
3	AS 9.1 Establish intravenous access in a simulated environment. AS 9.2 Establish central venous access in a simulated environment.	DOAP	3 Hrs

4	SU 17.10 (Integration with General Surgery) Demonstrate airway maintenance and recognize and management of tension pneumothorax, hemothorax and flail chest in simulated environment.	DOAP	3 Hrs
5	AS 7.4 - Observe & describe the basic setup process of ventilators. AS 7.5 - Observe & describe the principles of monitoring in ICU.	DOAP	3 Hrs
6	End of the posting Examination		

ii. Skill Lab:

Comp no.	Competency Description [P]	No. required to certify	Duration hours	Number of batches[number of students per batch]
Total				

iii. Certifiable Skills:

S.No	Skill	T-L Method	Assessment & Grading	Number of batches[number of students per batch]

12.4.3 AETCOM AND SKILL LAB

Sl. No.	Module Number	AETCOM/Skill Lab	Lectures	Small group	No. of Hours

NOTE: The above table containing teaching hours assigned to different topics under large and small group teaching may be used as a guide by the Institute.

13. SCHEME OF EXAMINATION:

Eligibility criteria:

- Learners must secure at least 50% marks of total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the University examination.
- Student should get a minimum of 75% attendance in Theory and 80 % in Practical classes to be eligible to appear for university examination.
- Learners must have completed the required certifiable competencies and completed the log book.

A. FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT:

- One Theory IA will be conducted as detailed in the table below
- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given a chance of remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Formative assessment: based on day to day assessment of SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments [records of activities used for assessment to be maintained by the department]
- Written exams will include MCQ's [MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

The distribution of internal assessment marks shall be as mentioned below:

DEPARTMENT OF ANAESTHESIA Integrated phase-wise Internal Assessment				
THEORY		Phase 3-1		
Witten	Theory	20		
Written	MCQ	10		
	Formative assessment:			
FA	SDL/Class tests/ MCQs/ Tutorials/ Seminars/	05		
FA	Assignments			
	Logbook	05		
Total 40				
FINAL THEORY IA MARKS = 04 (final total divided by 10)				

Blue-printing of Theory Internal Assessment in Anaesthesia

	Number of questions
MCQ (1 mark each)	10
Structured Long Essay (10 marks each)	00
Short Essay (5 marks each)	02
Short Answer (2 marks each)	05
Total (in marks)	30

PRACTICAL INTERNAL ASSESSMENT

- Clinical end posting exams [EOP] will be conducted
- Viva/oral examination should assess approach to clinical context and included in practical IA marks.

Practicals:

DEPARTMENT OF ANAESTHESIA Integrated phase-wise Internal Assessment				
PRACTICAL		Phase 2 2 weeks posting		
FOR	Clinical skills assessment	20		
EOP	Viva-voce	10		
Othoro	Formative assessment	05		
Others	Logbook/ Record book	05		
	Total	40		
FINAL PRACTICAL IA MARKS = 04 (final total divided by 10)				

B. SUMMATIVE ASSESSMENT:

Anaesthesia is learnt and assessed during professional years [PY] 2 and 3 part 1, 3rd part 2. SA will be held at the end of 3rd professional year part 2 as a part of General Surgery (Allied subject)

Pass criteria:

- University Theory Exam Student should secure at least 50% marks in theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Vivavoce) to pass
- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university of that subject.
- Internal assessment will appear as a separate head of passing at summative exams
- A candidate, who has not secured requisite aggregate in the internal assessment has
 to successfully complete the remediation measures prescribed by the University as
 the case may be prior to the declaration of his/her results in that particular phase.
 Candidates who fail to meet prescribed 50% marks in internal assessment after
 availing remedial measures will not be eligible for the university exams.

5. INTEGRATION:

- May be conducted in the form of sharing/nesting/correlation using CBL/PBL/ Case study approach and involving various departments concerned while preparing the specific learning objectives of the integration topics.
- Department involved may be chosen according to the topic and may be conducted as Horizontal/ Vertical form of integration as per the CBME document.

	Competency list for integration						
SL	Comp	Competency to be	nesting/ sharing/	Integrating department			
	No.	integrated	aligning /correlation	Horizontal Vertical			
1							
2							
3							

6 RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS

Text books:

- 5. Manual of Anaesthesia- A K Paul
- 6. Short textbook of Anaesthesia, 6th edition Ajay Yadav
- 7. Lee's Synopsis of Anaesthesia, 15th edition.

Reference books:

- 13.4.1.1 Miller's Anaesthesia, 9th edition.
- 13.4.1.2 Morgan and Mikhail's Clinical Anesthesiology- 6th edition.
- 13.4.1.3 Clinical Anaesthesia, 8th edition- Paul G Barash.

END

DENTISTRY

1. GOAL

The broad goal of teaching the undergraduate medical students in the field of Dentistry should be aimed at making the students realize the basic need of knowledge of dentistry in medical practice.

2. OBJECTIVES

2.1 KNOWLEDGE

At the end of the course in Dentistry, the students should:

- Have a basic idea of common dental problems, their aetiopathogenesis, clinical features, diagnosis and management.
- Know the complications of common dental ailments
- Be able to identify and know the management of complications of dental problems

2.2 SKILLS

At the end of the course the students shall be able to:

- Identify common dental ailments
- Identify poor oral hygiene
- · Perform a comprehensive oral and dental examination

2.3 ATTITUDE AND COMMUNICATION SKILLS

At the end of the course, the learner shall be able to:

- Counsel patients regarding oral hygiene
- Counsel patients about common dental ailments

13.5 INTEGRATION:

The knowledge acquired in Dentistry should help the students to integrate and correlate the diagnostic and prognostic imaging studies with clinical conditions in health and disease

3. TEACHING HOURS AND COURSE CONTENT

L. Teaching Hours

SI. No	Teaching Learning Method Theory	No. of Hours
1	Large group teaching	00
2	Small group teaching (SGT): SGD/Tutorials/Seminars	00
3	Self-directed Learning (SDL)	00
	TOTAL	00

SI. No	Teaching Learning Method Practicals	No. weeks
Beds	side clinics/practical	1 week
	TOTAL	

SI. No	Teaching Learning Method	No. of Hours
1	AETCOM	
2	Skill Lab	
	TOTAL	00

M. Course Contents

5. THEORY (Large and small group teaching)

SI. No.	Topic/ System: (With Competency Number) core/ non-core competency	Lecture (Large group)	No. of Hours
1			
2			

SI.	Topic/ System : (With Competency Number)	Small group	No. of
No.	core/ non-core competency	teaching	Hours
1	Dental Caries (DE 1.1, 1.2, 1.4)		01hr
2	Edentulous state (DE 2.1, 2.2, 2.4)		01hr
3	Malocclusion (DE 3.1, 3.2)		01hr
4	Oral cancer (DE 4.1, 4.2)		01hr
5	Periodontal diseases (DE 5.1, 5.2, 5.4)		01hr

SI. No.	Topic/ System: (With Competency Number) core/ non-core competency	Self-Directed Learning	No. of Hours
1			
2			

6. PRACTICALS

7. Bedside Clinics:

SI. No.	Topic/ System: (With Competency Number) core/ non-core competency	Bedside Clinics/DOAP	No. of Hours
1	Identification, examination and counselling of a patient with Dental caries (DE 1.3, 1.5)	Bedside Clinics + DOAP	2hrs
2	Identification, examination and counselling of a patient with oral cancer (DE 4.3, 4.4)	Bedside Clinics + DOAP	2hrs
3	Identification, examination and counselling of a patient with missing teeth / Teeth restoration (DE 2.3, 2.5)	Bedside Clinics + DOAP	2hrs
4	Identification, examination and counselling of a patient with malocclusion (DE 3.3, 3.4)	Bedside Clinics + DOAP	2hrs
5	Identification, examination and counselling of a patient with periodontal diseases (DE 5.3, 5.5)	Bedside Clinics + DOAP	2hrs

8. Skill Lab:

	Competency Description [P]		hours	Number of batches[number of students per batch]		
	NOT APPLLICABLE					
Total						

9. Certifiable Skills:

S.No	Skill	T-L Method		Number of batches[number of students per batch]
			NONE	

10.AETCOM AND SKILL LAB

Sl. No.	Module Number	AETCOM/Skill Lab	Lectures	Small group	No. of Hours

NOTE: The above table containing teaching hours assigned to different topics under large and small group teaching may be used as a guide by the Institute.

14. SCHEME OF EXAMINATION:

Eligibility criteria:

- Learners must secure at least 50% marks of total marks (combined in theory and practical; not less than 40% marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the University examination.
- Student should get a minimum of 75% attendance in Theory and 80 % in Practical classes to be eligible to appear for university examination.
- Learners must have completed the required certifiable competencies and completed the log book.

FORMATIVE ASSESSMENT

THEORY INTERNAL ASSESSMENT:

One Theory IA will be conducted as detailed in the table below

- Learners who have not completed the required number of internal assessment exams for genuine reasons will be given a chance of remediation
- Formative assessment marks shall be calculated based on scoring in written tests and AETCOM modules.
- Formative assessment: based on day-to-day assessment of SDL/Class tests/
 MCQs/ Tutorials/ Seminars/ Assignments [records of activities used for assessment to be maintained by the department]
- Written exams will include MCQ's [MCQs not exceeding 20%]/Structured Long Essay Questions/Short essay questions/Short Answer questions
- 30% of marks will be for higher order thinking
- Content under Noncore category cannot be assessed in Summative assessments. However, the same can be assessed in Formative assessments.

The distribution of internal assessment marks shall be as mentioned below:

DEPARTMENT OF DENTISTRY Integrated phase-wise Internal Assessment				
THEORY		Phase 3-1		
Written	Theory	20		
written	MCQ	10		
FA	Formative assessment: SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments	05		
	Logbook	05		
Total 40				
FINAL THEORY IA MARKS = 04 (final total divided by 10)				

Blue-printing of Theory Internal Assessment in Dentistry

	Number of questions	
MCQ	10	
(1 mark each)	10	
Structured Long Essay	00	
(10 marks each)	00	
Short Essay	02	
(5 marks each)	02	
Short Answer	O.E.	
(2 marks each)	05	
Total	20	
(in marks)	30	

PRACTICAL INTERNAL ASSESSMENT

- Clinical end posting exams [EOP] will be conducted
- Viva/oral examination should assess approach to clinical context and included in practical IA marks.

Practicals:

DEPARTMENT OF DENTISTRY				
Integrated ph	ase-wise Internal Assessment			
Phase 3-1				
PRACTICAL		1 week posting		
EOD	Clinical skills assessment	20		
EOP	Viva-voce	10		
Othere	Formative assessment	05		
Others Logbook/ Record book		05		
Total 40				
FINAL PRACTICAL IA MARKS = 04 (final total divided by 10)				

C. SUMMATIVE ASSESSMENT:

Dentistry is learnt and assessed during professional years [PY] 2 and 3 part 1, 3rd part 2. SA will be held at the end of 3rd professional year part 2 as a part od Surgery (Allied subject)

Pass criteria:

- No separate pass criteria for Dentistry, however the ones applicable to Surgery will apply (Given Below)
- University Theory Exam Student should secure at least 50% marks in theory to pass.
- University Practical Exam Student shall secure at least 50% marks (including Viva-voce) to pass
- Student shall secure at least 50% of the total marks (combined in theory and practical) assigned for internal assessment in order to be declared successful at the final university of that subject.
- Internal assessment will appear as a separate head of passing at summative exams
- A candidate, who has not secured requisite aggregate in the internal assessment
 has to successfully complete the remediation measures prescribed by the
 University as the case may be prior to the declaration of his/her results in that
 particular phase. Candidates who fail to meet prescribed 50% marks in internal
 assessment after availing remedial measures will not be eligible for the university
 exams.

4. INTEGRATION:

- May be conducted in the form of sharing/nesting/correlation using CBL/PBL/ Case study approach and involving various departments concerned while preparing the specific learning objectives of the integration topics.
- Department involved may be chosen according to the topic and may be conducted as Horizontal/ Vertical form of integration as per the CBME document.

Con	Competency list for integration						
SL	Comp	Competency to be	nesting/ sharing/	Horizontal Vertical			
	No.	integrated	aligning /correlation				
	NOT APPLICABLE						

5. RECOMMENDED TEXT BOOKS, REFERENCE BOOKS AND ATLAS

Text books:

- 1. Operative dentistry by Vimal sikri 2nd edition
- 2. Text book of Oral Medicine . Burket 11th edition
- 3. Text book of prosthodontics .Nallaswamy 2nd edition
- 4. Orthodontics Art and science . S I Bhalajhi 7th edition
- 5. Caranzas clinical Periodontology Third south Asian edition

END



SDM College of Medical Sciences & Hospital



SDM College of Dental Sciences & Hospital



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Shri Dharmasthala Manjunatheshwara University



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Panoramic View of Campus